# Appendix 3-A

Drilling Logs and Well Completion Reports

QUADRUPLICATE
Use to comply with
local requirements

#### STATE OF CALIFORNIA THE RESOURCES AGENCY

# DEPARTMENT OF WATER RESOURCES

8-123

Do not fill in

No. 051199

Lical mit No. of Date 8423 ASD CORPORAT	State Well No. 25/1 W -/ (c) Other Well No.
(1) OWNER: Your	506
Address_	Total depth ft. Depth of completed well
92399	from ft. 60 ft. Formation (Describe by color, character, size or material)
- WI	48 _60 Clay
(2) LOCATION OF WELL (See instructions):	60_80 Gravel & rock
Wildwood Canvon	80 _185 Clay
25 1W 16	185 200 Sand
TownshipRangeSection	
Distance from cities, roads, railroads, fences, etc	Sen some
	306 310 32
	340 500 Gravel sand & olav
IAN MINE AN INCLU	dance of ctay
(3) TYPE OF WORK:	77
New Well Deepening	
New Well Deepening Reconstruction	- 1
	- C
Horizontal Well	6/10 - 1/11
Destruction (Describe destruction materials and procedures in Item 22	110-10) (0)
procedures in Item 12	- 0
destruction materials graph procedures in Item 121  (4) PROPOSED DSE  Domestic  rrigation	0/10
YA CC / Domestic	V-1100 01
rrigation	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Industrial	102-0
Test Well	1110- 0.
Stock	- 01100
X Municipal	
WELL LOCATION SKETCH Other	- SV
(5) EQUIPMENT: (6) GRAVEL PACK: 10	( )
Rotary   Reverse   No   2 Since See Ye	
Cable Air Districter of bore	0/1)-
Other   Bucket   Parked from Dottom to 50	1111/2-
(7) CASING INSTALLED: (8) PERFORATIONS:	
Steel Plastic Convince Type of personal or size of screen	<del>-</del>
it. Itt Vin. Wall ft ft size	-
0 506 27 206 506 3/32	-
0 000	
12 rows & trich apart	-
(9) WELL SEAL:	
Was surface sanitary seal provided? Yes No   If yes, to depth 50 ft.	12
Were strata sealed against pollupon? Yes . No . Interval ft.	
Were strata sealed against pollution? Yes to the No Interval ft.  Method of sealing Steel/Concrete	Work started 1-23 19 79 Completed 2-16 19 79
(10) WATER LEVELS:	Well Driller's STATEMENT:
Depth of first water, if knownft.	This well was strilled under my jurisdiction and this report is true to the best of m
Standing level after well completion ft.	knowledge and betief.
(11) WELL TESTS:	SIGNED POLICE WILL CHAMMED
Was well test made? Yes No □ If yes, by whom?  Type of test Pump Bailer □ Air lift □	NAME Jack Jones Wells & Pumps
De a water at start of testft. At end of testft	
50 gal/min after hours Water temperature	Address P.O. Person, firm, or corporation) (Typed or printed)
Chen., at analysis made? Yes  No If yes, by whom?	City Hemet, California Zip 92343
Was electric log made? Yes O No of If yes, attach copy to this report	License No. 281601 Date of this report 3-16-79

Mail Two Copies to:
DEPARTMENT OF PUBLIC HEALTH
Court House
Riverside, California

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## WATER WELL DRILLERS REPORT

	(County Ordinances	No. 340 an	d 340A)
	COUNTY OF	RIVERSI	E
3	EPARTMENT OF	PHRIC	HEALTH

Do Not	Fill In	~451
State Well No 25	5/16	V-18L1
Other Well No.		
Recion		

		Re	gion
(1) OWNER:	(11) WEL	L LOG:	
Name	Total depth		110
Address		ibe by color, character, size of	completed well 4/5 fr
	A ft.	to & D ft. Q -	alerial, and structure.
	- 00	20 5 086	WW SANGY CHA
(2) LOCATION OF WELL:	80	913 MAC	WARD ROCK
County Qineasid Owner's number, if any-	275	1119 10111	FlAY, STREAKS
110 41314 6	1/19	The weco	MADE GRANITE
1110 Sa. FREMONT- YUCK	HPA 712	915 15000	DIGE GRANITE
	19" 00	SING WISE	STACK OF OUR
(a) Time or money ( )	Redui	Tick To	10" (45:11
(3) TYPE OF WORK (check):	3391	to 41.51	4.TH 10-11-11
	Abandon D ada 9	Tep AT	239'
			7 150
(4) PROPOSED USE (check): (5) EQUID	PMENT:	CASINA	TOACH PERFORA
Domestic   Industrial   Municipal   Rotary	□   ed =	/	7
Irrigation Test Well Other Cable			
Dug Well		-	
(6) CASING INSTALLED: If gravel pa	acked BALC	a Test	SHOWING AC-
SINGLE DOUBLE Gare	COUCR	4 08 4	12 GPM bases
From ft. to 340 ft. 2 Diam.   Will of Bore ft.	fr. 04 12	10 CAS	ING AREA.
120 115 10 101			
27. 410 .10 . 14	v		
1 4 4 4 W	* -		
Type and size of shoe or well ring , 43/14 , 9 of gravel:			
Describe joint All Total To The India			
(7) PERFORMETONIC		4	
(7) PERFORATIONS:	-	**	
Type of perforator used			
Size of perforations in., length, by 3/9	io		
From 100 ft. in 335 ft. Perf. per row	Rows per ft.	*	
5 holes 04 12 G	EN7245 "		
	15 16 46	**	i -
			2. 1
(8) CONSTRUCTION:	-	"	#
Was a surface sanitary seal provided?   Yes do To what depth	fs.		
Were say strata sealed against pollution?   Yes Go If yes, note depth of strat:			
From fr. to fr.			
01 2 0		*	
Method of Sealing		/4	
-	Work started	JET. 10 "63.	Completed Dec. 9 1963
(9) WATER LEVELS:		ER'S STATEMENT:	
Depth at which water was first found	10 is well was	s drilled under my jurisdic nd helief	tion and this report is true to the best of
ting level before perforating	10 10	no Kland 1	Well Service
ing level after perforating	NAME /	Person, hem, or corperation	JENVICE
	Address 32	291 Mu	N/3p (Typed or prosted)
(10) WELL TESTS:	Mu	IAIDA CA	Kir.
Was a pump test made?   Yes   No If yes, by whom?	-10	TVIT	0
Yield: gal./min. with ft. draw down after	bis. [SIGNED]	u quals	UD-W-
		10117	ell Driller 19 /17

Mail Two Copies to: DEPARTMENT OF PUBLIC HEALTH Court House Riverside, California

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#### WATER WELL DRILLERS REPORT

(County Ordinances No. 340 and 340A) COUNTY OF RIVERSIDE

COUNTI		OF	MINEWOT	DE
DEPA	RTMENT	OF	PUBLIC	HEALTH

4		-4005	
Do	Not Fill In	4000	
State Well No	25/11	W-18F	
Other Well No.	-71	-	
Region			

			Region
(1) OWNER:	(11) 2	WELL LOG	
Name	Control of the contro	300	
Address			fr. Depth of completed well 300 fr. character, tize of meterial, and structure.
	- 0	ft. to 25	". BROWN SANDIA SIL
LOS ANGELES, CALIF	=		Clau Small booms
(2) LOCATION OF WELL:	25	51	"RANUN QRAVEL B. A. Ich
County Riverside Owner's number, if any-	51	18	Berner clay & applied
36300 12 SINGLETON Rd.	18	105	HARD RADON SAUD1
CALIM esA, CAlif.	705	300	BROWN SANDE -16.
- ,			"Some GRAVELLEMBOLLS
			1 1000446
			м.
(1) TYPE OF WORK (-1-1).		"	**
(3) TYPE OF WORK (check):	_		*
New well . Deepening . Reconditioning . Abandon		**	**
If abandonment, describe material and procedure in Item 11.	_		
(4) PROPOSED USE (check): (5) EQUIPMEN	T:	e e	н
Domestic Industrial Municipal Rotary			#
Irrigation Test Well Other Cable		**	n.
Dug Well			16
(6) CASING INSTALLED: If gravel packed		**	n-
SINGLE DOUBLE 7	_	10	
From 0 fc. to 288 ft. 8 Diam. 316" of Diameter from ft.	ft.	4	
288: 300 8" 11"	-		·
A			*
	-		
			4
Type and size of shoe or well ring XXXXX Size of gravel:			W.
Describe joint ALL Joint'S CIRCUM FERENTIAlly 1	Toldad		in the second se
The state of the s	e req		w
(7) PERFORATIONS:	-		
Type of perforator used 111/5		**	in .
Size of perforations 2 in., length, by	in.		
Fron 30 ft. in 298 ft. 4 Perf. per row / Rows per	r ft.		- A.*
		**	iii .
	**	**	A
0 0 0 0 0 0 0 0 0 0 0	-	**	m.
10 M M M M M M		in go	(H)
			(m)
(8) CONSTRUCTION:			4
Was a surface sanitary seal provided? 4 Yes   No To what depth 20	ft.	4	4
Were any strata sealed against pollution? 🗆 Yes 🥙 No If yes, note depth of atrata			· ·
From 0 (t, to 20 ft.			n ·
		**	н
Method of Sealing Clay Jel mix Ture	Work started	Dec. 29	1962. Completed JAN. 22 1963
(9) WATER LEVELS:		RILLER'S STA	
Depth at which water was first found 132	ft. my knowle	ell was drilled u edge, and belief.	nder my jurisdiction and this report is true to the best of
-nding level before perforating 132	11	Kindl	1111111
ding level after perforating 132	ft. NAME /	IKA 18	hrm, or corporation), (Typed or printed)
100	Address	32291	Dural = A Alas
(10) WELL TESTS:	1	Mussi	as Colit
Was a pump test made? Yes No 11 yes, by whom?		Juca!	the Carle
	bre [SIGNED].	1) Jus	Well Driller
			went Driner

## QUADRUPLICATE Use to comply with local requirements

of Intent No. -Local Permit No. or Date \_

#### STATE OF CALIFORNIA THE RESOURCES AGENCY

#### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do not fill in

No. 277307 State Well No. 25/1W-19 Other Well No.

(1) OWNER: Name	(12) WELL LOG: Total depth 435 ft. Completed depth 435 ft
Address Podlands CA	from it to it. Formation (Describe by color, character, size or material)
City Redlands, CA ZIP 92374	0 - 4 Top Soil
(2) LOCATION OF WELL (See instructions):	4 - 54 Small Gravel
County Riverside Owner's Well Number	54 - 59 Loose Gravel
Well address if different from above	59 - 91 Gravel with Some Brown Clay
Township 2-South Range 1-West Section 19	91 - 94 Loose Gravel
Distance from cities, roads, railroads, fences, etc.	94 - 168 Sand and Gravel
Distance from erros, roads, fairroads, feffees, etc.	168 - 192 Gravel and Brown Clay
	192 - 200 Boulder Zone
	200 - 211 Sand and Grave1
The survey size victions	211 - 213 Boulder Zone
- (3) TYPE OF WORK:	213 - 273 Grave1
New Well Deepening [7]	
Reconstruction [1]	273 - 275 Rock Very Hard
Reconditioning 📋	275 < 281 Hard Brown Cally
Horizontal Well	281 - 294 Gasy Cally with Some Rock
Destruction [ (Describe	294\ - 321\ Gravel-1\-2'
destruction materials and pro- cedures in Item 12)	321 - 334 Brown Clay and Gravel
	334 - 342 Gravel
(4) PROPOSED USE:	342 - 351 Brown Clay and Gravel
Domestic	/351 - 355 Gravel \\
Irrigation 17	7355 - 373. Grave106
Industrial [	373 - 377 Brown Cary
Test Well	. 377 O 435 Boulder Zone
Municipal	
Other	11/1) = SIL DO
	0 -(-)(-)
(5) EQUIPMENT: (6) GILAVEL, PACK:	(h- 0)
Rotary ( No C Size 3/8 Sp.	
Cable Air L. Digmeter of bore 15	
Other D Bucket - D to 435 (6)	i( )/\sigma -
( ) \ \ ( \ \ ( \ \ )	n -
(7) CASING INSTALLED  (8) PERPOHATIONS Steel Type of perforation or size of agreet	7 -
Steel   Plastic   Lourerto   1 Type of perforation or size of married	
From To Dia. Gage or From To Slot	
ft. ft. in Wall it size	
0 435 3/16 8-5/8 195 275 .093	2000
A 11 No. 15 Oct.	
295 435 .093	
(9) WELL SEAL:	
	-
Was surface sanitary seal provided? Yes 🖈 No 🗆 If yes, to depth <u>50</u> It	A STATE OF THE STA
Were strata sealed against pollution? Yes 🔲 No 🏗 Interval	- 10
Method of sealing Cement in Place	Work started 10-4 19 88 Completed 10-24 19 88
(10) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth of first water, if known ft.	This well was drilled under my jurisdiction and this report is true to the
	best of my knowledge and belief.
1) WELL TESTS	
ell test made? Yes [▼ No [] If yes, by whom?	Signed (WelNziller)
test Pump 🗍 Bailer 🗋 Air lift 🕽 🕏	
ka kalimita. Hataka kalimiti mata mata mata mata mata mata mata	NAME _ McCalla Brothers - Division of Layne F
lo can to water at start of test ft ft	(Person, firm, or corporation) (Typed or printed)
Discharge X gal/min after hours Water temperature	(Person, firm, or corporation) (Typed or printed) Address3132 W. 17th St.
To you be water at start of test H At end of test H Discharge X gal/min after hours Water temperature Chemical analysis made? Yes No H yes, by whom?	(Person, firm, or corporation) (Typed or printed)

# LOG OF WELL NO. 8 S.R. No. 36-01856

LOCATION: Hill Ranch

n - - + 2

NW of SW, sect. 25, TlS, R2W, SBE&M E. J. Brockman YEAR: March 3, 1951 completed

DRILLED BY: E. J. Brockman

R. 1, Box 150 Colton, Calif.

	Der	oth		day I
	From	To	contidend	Material
	0	4	the de	Top Soil
	11 8	501	937	Sand and rock 324
	4° 50° 85°	851	For de l'	Sandy clay
	851	1051	Some orde	Sand and small gravel
	1051	1781	arted.	Sandy clay
	1781	2221	3/	Sand and coarse gravel 2172
	2221	2601	- CL.	Hard clay - 2119
	2601	2741	could the	Hard clay 2119 Sand and small gravel
	2741	3001	618821	Sandy clay
	300*	3061	N. c.	Sand _ zolo .
	3061	3401	Clay pack	Clay and rock 2334
	. 3401	3541	a Color	Rock and Sand
	354"	6151	canal of olay	Sandy clay
	1151	Li251	1	Sand
	1251	1781		Sand with streaks of clay g
_	4781	5061	CL	Hard clay
	410	-		D. N. C. 1. J. 1.

Hole was reamed to 16" to 363' and 10" x 3/16" casing installed. 10" casing was perforated with 3/16" x 4" slots 4 to the round every foot.

Hole was reamed to 10" from 363' to 506' and 6" x 1/8" casing installed. 6" casing was perforated all the way with 3/16" x 4" slots 4 to the round, one round every foot.

Hole was gravel packed with 3/8" gravel all the way.

Static water level 115

Well on the pump test pumped the following capacities:

from 143' - 162 GPM GPM 1661 - 279 1781 - 342 GPM

Rotary Rig

25/2W-2DWell\_8.

#### WELL RECORD

# SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

Company\_\_\_\_\_

NE 1/4 NE 1/4	Township	2 S Range.	2 W	Section_	3
		PIT			
Date drilled 1959					
Depth 750'	Diameter		Packed.	5001	
	c	ASING			
Diameter16"	Length	500'	Gouge_	10 ga.	
Perforated interval					
		COLUMN			
Diameter 8"	_ Length 4	00	Gauge_	STD	
Tube diameter					
Dote installed March	18, 1963	BOWLS By_Turley	y Pump	Company	
Make					
SizeSto					
	DESIGN	PERFORMANC	E		
GPM450 RPM	A_1760	TDH 400		HP55	
GPMRPM	A	TDH		HP	
GPMRPM	1	TDH		HP	
, <del>2</del>		NGINE			
Date installed 3-63	from #3 wel	1) By			
Type <u>Elect</u> . Mak					
Cu. in B &	S	HP 60	_	RPM_1800	)
		GEAR			
Date installed					
Make Mod					
Shaft		Universals_			
Notes: Pump test 3	uly 25, 196	6		£/	
Pump Head J		-			

# 25/2W-13EZ SHEET 1

#### DIVISION OF WATER RESOURCES South Coastal Basin DEPARTMENT OF PUBLIC WORKS STATE OF CALIFORNIA

NUMBER E-138e-

#### WELL LOG

LOCAL DESIGNATION OWNER #44

Hicks Y-4

300' S. of Ave. "L, " 30' E. of W.

Loc. #18249A

line of Lot 225, Sub. 9, Yucaipa Valley, Yucaipa. Sec. 13.

SKETCH

DATE COMPLETED\_

1913

DIAMETER OF CASING\_\_\_

16"

OWNER\_

DRILLED BY W. D. Anderson

SOURCE OF INFORMATION\_ P. E. Hicks

INSPECTED WHILE DRILLING SEE FILE NO.

2453. Hicks SURFACE ELEVATION\_

DEPTH	ELEVATION OF BOTTOM OF STRATUM	MATERIAL	THICKNESS	% VOIDS	ABSOLUTE VOIDS	TOTA
0-20	2433	Packed soil	20		FEET	FEE
44	2909	Cement gravel	94	_		
94	2359	Cement clay	50		-	
108	2345	Cement and gravel	14			
120	2333	Red clay	12	_		
168	2285	Gravel	_	_		
178	2275	Red clay	44		-	
182	227/	Created	10		-	
188	2245	Red clay struck motor	1			
206	2297	Water gravel	10			
208	2275	Red clay	13	-		
218	2235	Water gravel			1	
220	2233	67 677	10		1	
222	223/	Water gravel	POOL		- 1	
270	2183	Water gravel Cement clay Cement gravel	MEDA	-	-	
276	2177	Cement gravel MICRON	14	-		
310	2143	Red clay				
316	2/37	Water gravel	3			
338	2115	Red clay				
360	2093	Water gravel	10			
362	209/	Red clay	30			
368	2055	Water gravel	2			
370	=083	Red clay	9			
372	208/	Cement gravel	0			
408	20-15	Dod -la-	9			
126	2027	Cement gravel	36			
136	20/2	Cement clay	18			
140	10/3	Coment amount	18			
+76	1977	Cement gravel	1			
197	1956	Cement clay	30			
71		Cement gravel	13			
		Desire had				
	1	Pumps 40" - Drawdown 1001			11	
					18	

LOG OBTAINED BY\_

### DIVISION OF WATER RESOURCES

DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

2512W-14F1

NUMBER E-1361-

South Coastal Basin

WELL LOG

	And the second second second	
LOCAL	DESIGNATION OTTO	475

60' N. of Ave. L, 1700' W. of	Loc. #182393
State Fighway, Lot 213, Sub. 9, Yucaipa.	
DWNER	SKETCH
DATE COMPLETEDAbout 1928	
NAMETER OF CASING	
Clark McEuen	
COURCE OF INFORMATION Redlands-Yucaipa Vater Co.	
NSPECTED WHILE DRILLINGSEE FILE NO	
URFACE ELEVATION	

OF	STRATUM	MATERIAL	THICKNESS FEET	% VOIDS	ABSOLUTE VOIDS FEET	TOTAL VOIDS FEET
-152		Top soil and clay	152		FEET	PEET
330		Water gravel - good	194			_
330 342 346		Clay and red sandstone	12		-	
346		Rocks, square gravel		•	-	
550		Clay	13			
352		Red formation - rock and gravel				
352 356		Clay	1			
358		Red rocks and gravel	A			
360		A1	(3)		-	
		Clay	10			
		At 300' some streaks of brown				
		sandstone were found. Very thin				
		Days 2001 2001				
	-1	Pumps 100"; 100' drawdown.				
						3
		MICRO	FILME	9		-
		W. C. IV				- 1
		1-	( 1)			
	1					
						-
						-
	1					
-6 6 1 1 -1-						

055I 347

LOG OBTAINED BY\_

DATE

SHEET 1

South Cosstal Basin

# DIVISION OF WATER RESOURCES DEPARTMENT OF PUBLIC WORKS STATE OF CALIFORNIA

NUMCER E-829-

WELL LOG

LOCAL	DESIGNATION	

Hicks #Y-74

LOCATION 2000' N. and 200' E. from S.W. corner Loc. #17330-

Sec. 14, T.23., R.2W., Yucaipa.

45°	5 % 5/+ i		FERT	FELT
950	19/19 F			
75.	5			
125				
725				
ΛE)				
ΛE)				
ΛE)				
AE)				
ΛE)			V	
AE)				
				****
	-			
			-	
-			-	
		-		-
		-		-

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#### QUADRUPLICATE Jse to comply with :al requirements

Notice of Intent No. -

### STATE OF CALIFORNIA THE RESOURCES AGENCY

#### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

"- Vicine	
1.141 17 1980	Do not fill it
4ns'aNo. 29	4181.
State Well No. 2	5/2W-16H

Local Permit No. or Date Other Well No. \_ (1) OWNER: Name (12) WELL LOG: Total depth 1320 ft Completed depth 1070 Address \_ It. Formation (Describe by color, character, size or material) City La Quinta, CA ZIP 92253 0 30 Sandy Clay (2) LOCATION OF WELL (See instructions): 30 80 Sand, Gravel & Clay 80 110 Sand & Gravel County Riverside Owner's Well Number \_ 110 280 Sand, Gravel, Streaks of Clay Well address if different from above \_ 280 460 Township 2S Range \_\_ Sand, Gravel & Rock Section 460 Distance from cities, roads, railroads, fences, etc. . 550 Brown Clay & Sandy Gravel 3000' W. of County Line Rd. 550 750 Rocks, Sand & Spots of Clay 1000' So. of San Bernardino County Line 750 885 Hadd Granite Formation, Spots 385 975 Find & Soarse Sand, Clay Streament Stream Clay 975 - 1087 (3) TYPE OF WORK: 1087 - 1200 Oranite Boulders, Spots of Cla New Well [ Deepening [] 1200 1320 Sand, Gravel, Granite Boulders Reconstruction Reconditioning Horizontal Well Destruction [ | (Describe destruction materials and procedures in Item 12) (4) PROPOSED US Domestic Irrigation Industrial Test Well Municipal OWher (Describe) WELL LOCATION SKETCH GRAVNI RACK: (5) EQUIPMENT Hotary [] 530 NOV Cable [ Diameter of bore Other [ Bucket (#) PERPORATIONS (7) CASING INSTALLED Type of perforation or size Steel L± Plastic [] From Gage or Stot fi\_ Wall size 760 210 3/32 0 5/16 1070 3/32 760 5/16 (9) WELL SEAL: -Were strata scaled against pollution? Yes No X Interval. Method of sealing \_ 7-19 19 89 Completed\_ 9-20 19 30 (10) WATER LEVELS: WELL DRILLER'S STATEMENT: Depth of first water, if known -This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. standing level after well completion 230 (11) WELL TESTS: Signed Yes Loc Pump L If yes, by whom? McCalla Bros well test made? No 🗆 (Well Driller) Div. of Layne-Western Co Air lift [] Bailer Bros. Depth to water at start of test \_\_221 ft At end of test \_\_ 230 (Person, firm, or corporation) (Typed or printed) Address 3132 W. 17th St. Water temperature \_ Discharge 1050 gal/min after 56 hours City Santa Ana, CA 92703 Chemical analysis made? Yes No ly II yes, by whom? Was electric log made Yes 50 No [] License No \_ 510011 \_\_ Date of this report \_ 9-22-69

If yes, attach copy to this report

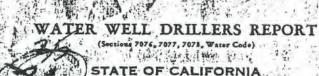
..... 150

			CAL SURVEY	No.	25/2-11	
		WEL	L LOG	OTHE V		
State Calif.	a Cour	nty Riverside	. Subs	res Calium	8.8	
Owner						
Location						
ere - years			- × × - +			
Drilled by	Erwar and Sun	-	- Address			14
Date Harch	11956	Casing diam.	16	Land-surf. a	it. 2335	topo.
Source of data	(Enter type of	well, perforation	ns, yield, and dra	u down at end of	(00)	
CORRELATION	11.	Маты			THICKNESS (feet)	Der
	Top soil		-		3	,
	Same with some	alay		- 1	27	34
	Brown slay				70	2.00
	bram clay				32	330
	dish-brem ol	ey with sand			16	2h
	Tellowish clay	with sand			37	2.89
	Sand and gravel	with streaks	of rook		215	hoc
	Mainly send	from 199-400.				
	Betary to ho	o, estis tool	to 500.			
	8K/L - 180-1	36 ft.				
		-				
					9	

GSSI 350

OWNER	(11) WELL LOG-
Phone: 797-332	
Address	Promptions Streetle-by states, character, simul motodal, and structure.
Calingsa, California	1 De a le Top goll
or this of the last	h 75 " Gravel sand and clave
2) LOCATION OF WELL	75 " J55 " Gravel and sand
Riverside omysta war Ho. 2	155 " 220 " Sand and clay
Sec. 24-T2S R2W 500 North of Chandler Boar	1 ZZU ZDU ROCK and sand
p 5 Ftte East of Eighway 99	200 100 Sandy clay & gravel
	360 " 380 " Clay
	380 39h Sand
	100 " lilo " Gravel
(1) TYPE OF WORL (check):	blo 175 Hard sand & clay
Desired Desired Desired	1 175 510 Rock and sand
dendrouses, describe material out procedure to the 25.	510 - 648 - Sand & gravel
(4) PEOPOSED USE (check): (5) EQUIPMONE	61.8 - 650 " Rock (184-)722
Dennie [ Industrial [ Manisipal [ Rivery 42]	650 800 Hard sand and clay
Carlo Maria	
migrations of Land West   Commercial Distriction	H. H. H. L.
(a) CASENG BUSTALLEDS If guardentles	
MALEST INCOME	CONFIDENTIAL - NOT
more have the Mines was Shore to	
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File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION



LIFORNIA MACONTHE

Do Not Fill In 54064 71. To Other Well No.

(1) OWNER:	THE WORLD AND THE STREET
Name	
Address ** # 5	<b>2000年11日 11日 11日 11日</b>
Calimesa, Calif	产品 对共产的人们 "为
(2) LOCATION OF WELL:	mausin by Kill Mark
County Riverside Owner's number, if	No 2
H.P. D. or Street NSac 24-128 2-9	800 North
of changle road	
Rest of Highway	99 mill a mertagers
Parmit No. 3703	A section of a straige
(3) TYPE OF WORK (check):	The state of the state of
New well D Despening T Recondi	tionine [7] Abandon
If abendonment, describe material and procedure in I	
(4) PROPOSED USE (check):	(5) EQUIPMEN
Domestic . Industrial . Municipal .	
Irrigation T   Test Well   Other   L.	Cable Dug Well
	a rate of children
(6) CASING INSTALLED:	If gravel packed
From testo ft. Diam.	Diameter from from ft.
0 800 34 3/16	27" 0 " 800"
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regression of a comment of the second of the	es de la sectión de la companya de l
the lite was been as the second of the second	The state of the s
	Size of gravel: " Page
Describe joint Abut wold 400 PASSAGE	Salty Apply to the salt of the
(7) PERFORATIONS:	Stanford & Palette
Type of perforator used	
Size of perforations 11 12 in., 1	marb. by 3/16
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(*) CONSTRUCTION.	THE WAR COME OF
(8) CONSTRUCTION:  Way a surface scaltary seel provided? To Yes   No To	what depth TOO
	yes, note depth of strate
P	ft.
THE THE STATE OF T	**
Method of Sealing Coment	
(9) WATER LEVELS:	
Depth at which water was first found 169	(
anding level before perforating 169	

Was a pump test made? [] Yes [] No If yes, by whom?

gal./mie. with

fr. draw down after

Was a chemical analysis mode? [] Yes [] No

brs.

Yield:

0 6 4 To 4 75 Grs 75 155 grs 155 220 say 220 260 rot 260 360 sas	Soil.
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Wed # 35

#### WELL LOG

25/2W - 24E3 Well No. \_\_\_\_\_

		; SW . 1/4, NW 1/4, Section 2	A m 9	S P 2 1
illed byT	notion & Sc	m Sw . 1/4, Nw 1/4, Section 6	mpleted Octo	hor 1959
illed by	rotery	Date con	npietedO.C.o.	
illing method	Todary	Congo	3/16"	(Double)
tal depth			9/ 10	(Single)
pe of well		, SWL before perforating 120 after pe	Morating	
ruck water at _		, SWL before perforating after pe	Wanna war	
mpletion test	2320	PWL Discharge	Hours I'm	
	LOLO	Source of information		
riorations		14.		
	-			*
Depth	Elev. Bot. of	Material	Thickness —	
	Stratum	4-3,		
3 - 3		Top soil	3	
3 - 90		Red clay and decomposed granite	* 87	
90 - 134		Gravel and sand	-44	
34 - 178		Clay and sand	44	
78 - 200		Gravel rock and sand	22	
00 - 210		Sand	10 .	l
10 - 225	-	Gravel and sand	15	1 .
25 - 247		Clav	22	
47 - 282		Gravel	35	de sy
82 - 310		Clay and sand	28	450
10 - 365		Gravel and sand	55	
65 - 491		Fine sand and clay	126	
91 - 560		Alternate layers of sand and rock	69	
60 - 790		Hard cemented gravel rock and sand	230	
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3-2				
31				
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1				

21-inch hole to 530 feet 18-inch hole to 790 feet

# SAN BERNARDINO VALLEY WATER CONSERVATION DISTRICT 101/2 West Citrus Avenue - Redlands, California

pro of well truck water at SWL before perforating 120 after perforating market water at SWL PWI Discharge Hours run artace elev. 2320 Source of information.    Depth   Bot. of Stratum   Source of information	estion	22	100 ft S. of North for 07 Ste	.24	
Size of casing and depth 14-18t 4 Gauge 2166 Single struck water at SWL before perforating 120 after perforating completion test data: SWL PWL Discharge Hours run artaes also. 2320 Source of information.  Depth Bot. of Stratum Associated Asso			;	4 T25	R2W
Size of casing and depth 14-18t 4 Gauge 2166 Single struck water at SWL before perforating 120 after perforating completion test data: SWL PWL Discharge Hours run artaes also. 2320 Source of information.  Depth Bot. of Stratum Associated Asso	filled by IS	OWER	# SON Date com	pleted_OCE	1757
pe of well	sessing management	Kotar	11 12	3/11 "	Doublake
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mpletion test data: SWI PWI Discharge Hours run rface levr. 2320 Source of information rforations  Depth Bot. of Stratum  1	pe of well		/2/	downthan	(0)
Thickness  Depth Bet of Stratum  1 - 3 Top Soil  3-90 Pad Clay A Decempased GRUNITE  90-134 Grand A Sand  134-17R Clay A Sand  17R-200 GRAVEL ROCK A Sand  200-210 SAND  210-225 GRAVEL A SAND  225-247 Clay  247-282 GRAVEL A SAND  230-310 SAND  310-365 GRAVEL A SAND  310-360 GRAVEL A SAND  310-360 GRAVEL A SAND  310-790 Hard Crammed Gravel Rock A Sand	ruck water at _		SWL before perforating after per	Hones run	(34)
Depth   Bot. of Stratum   Stratum   Thickness     1-3				Moura run	
Depth Bot of Stratum  1-3 1-90 10-134 134-178 124-178 120-210 200-210 200-210 200-225 68844 68844 201-247 69844 124-128 1282-247 1241-282 1282-310 120-365 120					
Depth Bot. of Stratum  1 - 3 3 - 90 10 - 134 10 - 134 134-178 178 - 200 200-210 200-210 200-225 225-247 247-282 262-247 247-282 262-240 262-24	riors uons				
Depth Bot. of Stratum  1 - 3 3 - 90 Pod Clay A Decemposed GRINNITE  90-134 Grand A Sand  134-178 Clay A Sand  178-200 GRAVET ROCK A SAND  200-210 SAND  200-225 GRAVET A SAND  225-247 Clay 247-282 GRAVET A SAND  310-965 GRAVET A SAND  310-965 GRAVET A SAND  310-960 Alexandra Loyers of Sand Arock  560-790 Hard Cemonts Gravet Rock A Sand  491-560 Gravet A SAND  560-790 Hard Cemonts Gravet Rock A Sand					
Depth Bot. of Stratum  1 - 3 3 - 90	W .	Flov			
10-3 3-90 Red Clay & Decemposed GRUDUTE  90-134 Grand & Sand  134-178 Clay & Sand  178-200 GRURE ROCK & SAND  200-210 SRND  210-225 GRURE & SAND  2125-247 Clay 247-282 GRURE & SAND  310-365 GRURE & SAND  310-365 GRURE & SAND  491-560 Alternals loyers of Sand Rock  560-790 Hard Cemmes & Gravel Rock & Sand	Depth	Bot. of	Material	Thickness	1 1
3-90  90-134  Grand A Sand  134-178  Clay A Sand  178-200  GRAVEL Rock A Sand  200-210  SAND  210-225  GRAVEL A SAND  225-247  Clay  247-282  GRAVEL A SAND  310-365  GRAVEL A SAND  310-360  Alternate loyers of Sand Arock  510-790  Hard Cemonted Gravel Rock A SAND	1	Stratum			
90-134  134-178  Clay & Stand  178-200  GERVET EOCK & SAND  200-210  SAND  210-225  GERVET & SAND  225-247  Clay  247-282  GERVET & SAND  310-365  GERVET & SAND  310-365  GERVET & SAND  310-365  GERVET & SAND  310-365  GERVET & SAND  491-560  9/6-1-0ate layers of Sand & rock  560-790  Hard Cemonts & Gravel Rock & Sand  Sand Cemonts & Gravel Rock & Sand	0-3		Top Soil		
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200-210			Clay & Sand		
210-225  6RAVEL & SAND  247-282  GENUEL  182-310  Clay & SAND  310-365  GRAVEL & SAND  310-365  GRAVEL & SAND  310-360  All strate layers of Sand Arock  560-790  Hard Cemants Gravel Rock & Sand  Short & Gravel Rock & Sand					
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21-inch hold to 530 feet	2				

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\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In Well Completion Report Page 1 of 1 State Well Number/Site Number Owner's Well Number MW-3 No. e0106895 N W Date Work Began 11/17/2009 Date Work Ended \_11/20/2009 Longitude Local Permit Agency County of San Bernardino Environmental Health Permit Number 2009110688 APN/TRS/Other Permit Date \_11/10/09 Geologic Log Well Owner Orientation O Vertical O Horizontal OAngle Name 1 Drilling Method Hollow Stem Auger Drilling Fluid Air Mailing Address Depth from Surface Description Describe material, grain size, color, etc City Yucaipa State\_CA Zip Feet Feet 2 0 Asphalt on silty sand (fill) Well Location 2 4 Silty sand, brown Address San Timoteo Canyon Road 4 12 Sandy clay, fine, dark brown County San Bernardino City Redlands 12 40 Silty sand, fine to coarse, dark brown Latitude 34 N Longitude 117 40 50 Silt with sand, fine, gray brown Datum NAD83 Decimal Lat, 34.023 50 60 Sand, fine to coarse, dark gray Decimal Long. 116.197 APN Book 60 70 Gravelly sand, fine to coarse, dark gray Page Parcel Township 2S Range 3W Section 4 **Location Sketch** Activity (Sketch must be drawn by hand after form New Well North Modification/Repair O Deepen O Other\_ O Destroy Describe procedures and materials under "GEOLOGIC LOG" Planned Uses O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well O Vapor Extraction illustrate or describe distance of well from roads, buildings, fences rivers, etc. and atlach a map. Use additional paper if necessary. O Other Water Level and Yield of Completed Well Depth to first water 19 (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring 70 Feet Estimated Yield \* (GPM) Test Type Test Length (Hours) Total Drawdown Total Depth of Completed Well 60 Feet \*May not be representative of a well's long term yield. Casings Annular Material Depth from Borehole Wall Outside Depth from Slot Size Screen Material Type Surface Diameter Thickness Diameter Fill Type if Any Surface Description Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet Blank 0 45 10 PVC Sch. 40 4 39 Cement seal 45 60 10 Screen PVC Sch. 40 4 Milled Slots 0.020 39 42 Bentonite seal 42 60 Filter Pack sand Attachments Certification Statement I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name <u>Jay J. Martin for C.H.J., Incorporated, Vice President, CEG</u> 1529 Geologic Log ☐ Well Construction Diagram Geophysical Log(s) 1355 E. Cooley Drive Colton CA 92324 ☐ Soil/Water Chemical Analyses Other \_ 3/4/2010 766402 ttach additional information, if it exists. C-57 Licensed Water Well Contractor Date Signed C-57 License Number

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.023°-116.197°

Logged by: VJR

Groundwater First Encountered (ft): 19.2

FIELD MOISTURE (%) SAMPLES WT. **BLOWS/FOOT** SAMPLENO LAB/FIELD TESTS (Equiv. SPT) DRY UNIT (pcf) DEPTH (ft) GRAPHIC VISUAL CLASSIFICATION DRIVE 8" Asphalt Concrete, No Aggregate Base (SM) Silty Sand, fine with medium, light brown SPT (SM) Silty Sand, fine with clay, dark brown Native (CL) Sandy Clay, fine, dark brown 10 SPT 10 (SM) Silty Sand, fine to coarse with gravel, dark brown 15 Groundwater 20 (SM) Silty Sand, fine to coarse with gravel, dark brown 4 7 12 SPT 25 30 SPT

C.H.J.

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-3a

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.023°-116.197°

Logged by: VJR

Groundwater First Encountered (ft): 19.2

	*		0.	SAM	PLES	BLOWS/FOOT (Equiv. SPT)	8	WT.	
DEPTH (ft) GRAPHIC LOG	507	SAMPLE NO.					FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
40	0	ML) Silt with Sand, fine, gray brown		X		3 4 7			SPT
45									
50	(S	SP-SM) Sand, fine to coarse with silt and gravel, dark ray		X		21 50/5"			SPT
55 -									
60	(S da	SP-SM) Gravelly Sand, fine to coarse with silt, gravel, ark gray	ħ.	X		24 38 50/5"			SPT
65 -		=							

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No.

Enclosure

09631-8

B-3b

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.023°-116.197°

Logged by: VJR

Groundwater First Encountered (ft): 19.2

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	Or La July	SAMPLE NO.	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
DI	15	(ML) Silt with sand, fine and clay, dark gray to red brown		V.	DR	BU		FIE	(pc	
- 75 -		END OF BORING  BORING TERMINATED AT 70.0' - REDRILLED TO 60.0' FILL TO 2.0', SLIGHT CAVING GROUNDWATER AT 18.8'	9		X		15 16 24		na s	SPT
- 80 -					-	+		)- ÷	3	
- 85 -		; 		· ·		Đ	A			
- 90 -										
95 -						100000				
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WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No.

Enclosure B-3c

09631-8

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\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In Well Completion Report Page 1 of 1 Refer to Instruction Pemphlet State Well Number/Site Number Owner's Well Number MW-2 No. e0106893 N W Date Work Began 11/16/2009 Date Work Ended 11/20/2009 Local Permit Agency County of San Bernardino Environmental Health Permit Number 2009110689 APN/TRS/Other Permit Date \_11/10/09 Geologic Log Well Owner Orientation O Vertical O Horizontal OAngle Name . Drilling Method Hollow Stem Auger Drilling Fluid Air Mailing Address Depth from Surface Description City Yucaipa Describe material, grain size, color, etc State CA Feet 3 Asphalt concrete on sand (fill) Well Location 3 20 Silty sand, fine to medium, brown Address Alessandro Road 20 30 Silty sand, fine to coarse w/clay, dark brown City Redlands \_ County San Bernardino 30 40 Clayey sand, fine w/medium and silt, yellow brown 51 N Longitude 117 10 46 W Sec. Deg Min. Sec. Latitude 34 0 40 50 Silty sand, fine w/medium & clay, brown Datum NAD83 Decimal Lat. 34.014 sand,fine to coarse w/silt, gray Decimal Long. 117.179 50 60 
 APN Book
 Page

 Township
 2S
 Range
 3W
 APN Book\_ 60 71 Silty sand, fine w/medium & clay,brown Parcel \_ Section 10 Location Sketch Activity (Sketch must be drawn by hand after form is printed New Well North O Modification/Repair O Deepen O Other\_ O Destroy Planned Uses O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well South | O Vapor Extraction istrate or describe distance of well from roads, buildings, fence ers, etc. and attach a map. Use additional paper if necessary. O Other Water Level and Yield of Completed Well Depth to first water 17 \_(Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring Estimated Yield \* \_\_\_\_\_ (GPM) Test Type \_ Feet Test Length \_ \_ (Hours) Total Drawdown Total Depth of Completed Well 70 Feet \*May not be representative of a well's long term yield. Casings Annular Material Depth from Borehole Wall Outside Screen Slot Size Depth from Type Material Surface Diameter Thickness Diameter if Any Type Surface Fill Description Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet 55 10 PVC Sch. 40 0 46 Cement seal 55 70 10 Screen PVC Sch. 40 4 Milled Slots 0.020 46 49 Bentonite seal 49 70 Filter Pack sand Attachments **Certification Statement** , the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief ☐ Geologic Log Name Jay J. Martin for C.H.J., Incorporated, Vice President, CEG 1529 ☐ Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) 1355 E. Cooley Drive Colton 92324 ☐ Soil/Water Chemical Analyses Other . 3/4/2010 766402 C-57 Licensed Water Well-Contractor Attach additional information, if it exists. Date Signed C-57 License Number

Date Drilled: 11/18/09

Client:

Driving Weight / Drop: 140 lbs./30 in.

Equipment: B-61 Hollow-Stem Auger

Coordinates: 34.014°-117.179°

Logged by: VJR

Groundwater First Encountered (ft): 16.5

1.	-	*	0	SAM	PLES	OT (	(%)	WT.	li sa
DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	SAMPLE NO	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD
		7-1/2" Asphalt Concrete (SP-SM) Sand, fine to medium with coarse, silt and gravel, brown	Asphalt Fill	X		7 6 7			SPT
5 -		(SM) Silty Sand, fine to medium, brown	Native						
10 -				X		4 5 7			SPT
15 -			Groundwate	er e					
20 -		(SM) Silty Sand, fine to coarse with clay, dark brown		X	e e	7 11 11			SPT
25 -									
30 -		(SC) Clayey Sand, fine with medium and silt, yellow brown		X		2 2 4	7.364		SPT

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-2a

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.014°-117.179°

Logged by: VJR

Groundwater First Encountered (ft): 16.5

			6	SAM	IPLES	JC	(%)	VT.	
DEPTH (ft)	GRAPHIC	VISUAL CLASSIFICATION	SAMPLE NO.	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD
40 -		(SM) Silty Sand, fine with medium and clay, brown		X		8 10 15			SPT
45 -									
50 -		(SP) Sand, fine to coarse with silt, gray		X	1	4 15 25	**	-	SPT
55 -			r.						
60 -		(SM) Silty Sand, fine with medium and clay, brown		X		5 9 16			SPT
65 -		-							
-		l stage	· 100					-	

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-2b

Date Drilled: 11/18/09

Client:

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.014°-117.179°

Equipment: B-61 Hollow-Stem Auger

Logged by: VJR Groundwater First Encountered (ft): 16.5

. (0			)	NO.	SAM	IPLES	OOT T)	E (%)	r wt.	. 0
DEPTH (ft)	GRAPHIC	VISUAL CLASSIFICATION	,	SAMPLE NO.	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD
		END OF BORING		Refusal	X		30 50/5"			SPT
- 75 -		REFUSAL AT 71.0', NO BEDROCK FILL TO 3.0', SLIGHT CAVING GROUNDWATER AT 16.5'					4			
- 80 -	-							÷		
85 -			ř	-						
90 -				4						
95 -										
100 -										
100										

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-2c



	e Adobe F ginal with		ay be used to vie	w and complete this		California		olete, sav			y – Do Not Fill I	In
Owner's Date W Local P	S Well Nu ork Bega ermit Age Number	mber <u>N</u> n <u>11/18</u> ency <u>Ri</u>	//W-1 3/2009 verside Coun		No. e010 rk Ended <u>11/18/200</u> of Environmental H	oction Pamphlet 07582 09	ort		Latitud	e N	hber/Site Numb Long	er
Sellina.	Turribut -			logic Log	J.11,11,10				We	II Owner		
Or	ientation	1 <b>0</b> Ve	ertical O H		Angle Specify	Name			WVE	il Owner		
			lem Auger		illing Fluid Air	and the same	_					
	h from S			Descrip	tion		Address				CA	00000
Fee	t to	Feet		escribe material, grai		City _1	ucaipa				e CA Zip	92399
4	1 10				gate on sand (fill)					Location		
10				ne with clay, bro		The second secon	s Live O					
10	30			medium w/coar							nty Riverside	
20	-				/clay, gray brown	Latitud	e 34 Dea.	0	10	N Longitud	de 117 9	52 w
30	40			ne to coarse w/g		Datum	NAD83	Min.				Min. Sec. ng. <u>117.165</u>
40	50				se, silt & gravel, gra	·y					Parcel 012	
50	72		Silty sand, fil	ne to medium w	/clay, gray brown							
						Towns	hip 2S		ige <u>3W</u>		Section 14	
						/Sketc	Loca must be dray	tion SI		is printed )		tivity
							, most se aret	North	GILOT TOTAL	is printed.)	<ul><li>New Wel</li><li>Modificat</li></ul>	
						4.5	7176		L 800	200	O Deep	en
						10	11/2	74.4	100	100	O Other	
	_					11/1	Wills		JUS	500	O Destroy  Describe production	cedures and materials
						110	A A					
							1	16		M G		ed Uses
						1	rdway	8 F.		160	O Water Su	ipply tic Public
	-					1/8	-	1	D	East	Irrinatio	n Industria
						3	100	1	Time	- W	O Cathodic	
			LI-			2	1 Je sales	211	14		O Dewateri	
		-				1	2	1.36	BM 1557		O Heat Exc	
			-			7	13		111	18	O Injection	
						(-	Val 3	Č.		121	<ul><li>Monitorin</li></ul>	ıg
						N->	Jalla 1	Time	2000	21	O Remedia	
						1	STORY.	1	and.	1	O Sparging	
						- 2		South			O Test Well	
						Illustrate or	describe distance	of well from	roads, build	ngs, fences	O Vapor Ex	traction
						Please be	accurate and co	mplete.	па рарет п	ecessary	O Other_	
						Water	Level an	d Yield	of Cor	npleted W	ell	
							o first water	19			(Feet below	surface)
						Depth Water	o Static		15	not) Date t	Measured	
Total I	Depth of	Boring	72		Feet		led Vield *		— (C	PM) Test T	vne	
						Test Le	ength		(H	ours) Total I	Drawdown	(Feet)
lotal	Depth of	Complet	ed Well 60		Feet					ell's long ter		
				Casings	3		-	1			r Material	
	th from	Boreh		Material	Wall Outs		Slot Size		oth from	- simula	. material	
	to Feet	Diame (Inche	ter	material	Thickness Diame (Inches) (Inches)		if Any	S	urface	Fill		Description
0	45	10	Blank.	PVC Sch. 40	(Inches) (Inch	03)	(Inches)	0	10 Feet	Cement	seal	
45	60	10	Screen	PVC Sch. 40	4	Milled Slots	0.020	36	39	Bentonite	seal	
								39	60	Filter Pack		
	2											
		Attac	hments				Certificat	ion St	atemen	t		
	Geologia			1. th	ne undersigned, certif						of my knowle	dge and helief
_		-	n Diagram	Na	me Jay J. Martin fo	or C.H.J., Inco	rporated.	Vice P	residen	t, CEG 152	29	-a- and bond
	Geophy	sical Log	(s)	1	Person, Firm or C 355 E. Cooley Drive		Col	ton		CA	92324	
	Soil/Wat	er Chen	nical Analyses		Address	- N			ity	Stat	te	Zip
	Other _		-Delico	Sig	ned Ecosod (	ater Well Contractor	2	_			6402	
_	REV, 1/200		EXISTS:	15.A	DDITIONAL SPACE IS NEE		NO DECLITA	W 80 11 10 10 10 10 10 10 10 10 10 10 10 10			57 License N	umber

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.003°-117.164°

Logged by: VJR Groundwater First Encountered (ft): 19.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	SAMPLE NO.	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
1.1.1.1.1		5" Asphalt Concrete, 4" Aggregate Base (SP-SM) Sand, fine with silt, gray brown (SM) Silty Sand, fine with clay, brown	Asphalt Base Fill Native	X	. Fr	2 3 2			SPT
5 -									
10 -		(SP-SM) Sand, fine to medium with coarse, brown		X		4 6 7			SPT
15 -								3	-
20 -		(SM) Silty Sand, fine to medium with clay, gray brown	Groundwate			3 4	7	÷ ,.	SPT
25 -			W-5			4			
30 -		(SM) Silty Sand, fine to coarse with gravel, brown		X		11 17 21			SPT

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-la

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.003°-117.164°

Logged by: VJR Groundwater First Encountered (ft): 19.0

	1.1				SAN	IPLES	TC	(%)	VT.	
DEPTH (ft)	GRAPHIC	VISUAL CLASSIFICATION	a -	SAMPLE NO.	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
40 -		(SP-SM) Sand, fine to medium with coarse, silt and gravel, gray			X	,	4 6 14			SPT
45 -										
50 -		(SM) Silty Sand, fine to medium with clay, gray brov	vn		X		14 22 23			SPT
55 -		The second secon								
60 -					X		9 17 30			SPT
65 -										
			e e	-						

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-1b

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 34.003°-117.164°

Logged by: VJR

... Groundwater First Encountered (ft): 19.0

DEPTH (ft)	GRAPHIC	VISUAL CLASSIFICATION		SAMPLE NO.	DRIVE	BULK	BLOWS/FOO (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
- 75 -		END OF BORING  REFUSAL AT 71.5', NO BEDROCK FILL TO 1.0', SLIGHT CAVING GROUNDWATER AT 19.0'		Refusal			22 35 50	,		SPT
- 80 -										-
- 85 -		-	-		7					
90 -										
95 -		=								
100 -			4 (1							

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-1c

INVESTIGATION

South Coastal Basin

25 2W-13E1

#### DIVISION OF WATER RESOURCES

DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

NUMBER E-138d-

SHEET 1

WELL LOG

LOCAL DESIGNATION

Owner #2 Hicks #Y-2

LOCATION 700' S. of Ave. L; 20' E. of W. line of

of Loc. #18249 -

-

Lot 225, Sub. 9, Yucaipa Valley, Yucaipa . Sec. 13.

OWNER\_\_\_\_\_SKETCH

DATE COMPLETED 1913

DIAMETER OF CASING 168

DRILLED BY W. D. Anderson

SOURCE OF INFORMATION P. E. Hicks

INSPECTED WHILE DRILLING\_\_\_\_\_SEE FILE NO.\_\_\_\_

SURFACE ELEVATION 2453. levels Hicks.

DEPTH	ELEVATION OF BOTTOM OF STRATUM	MATERIAL	THICKNE	ss % voids	ABSOLUTE VOIDS FEET	VOID FEE
0-95	235%	Packed clay	9:	5	1	
190	2363	Gement gravel		55		_
202	225/	Cement gravel	7	9		_
204	2299	Clay		7		
208	2245	Water gravel	9	4		_
212	2241	Clay				_
220	2233	Gravel	-	1	-	-
226	2227	Clay		1	-	
230	2223	Gravel		4		_
238	2215	Clay		1		
266	2127	Gravel		nt/	-	
277	2/76	Clay	-	46		_
313	2140	Gravel	-	1		
313 316		Red clay		3/8		
330	2/22	Cement gravel		12	-	_
336	21/7	Gravel		4		
336 338 346	2/15		+			
346	2/07	Glay Gravel		-		
350	2103	Comment	/-	1		
350 362	2091	vement and dulckgand		A		
375	And the Control of	- CUG OLUJ	WALC-D	The beauty is	IA ID ING you	
383	2076	Jranite Concrete	MACR	BALIL	MED	_
		Pumps 40" Drawdown 100				
	-					
			-			
					01	
					1	

GSST 3+2

DATE

-25/2W-14R3

ORIGINAL File with DWR

#### WATER WELL DRILLERS REPORT (Sections 7079, 7020, 7021, 7022, Water Code)

#### THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

(1) OWN	ER:				(11) WELL LOG: ZERY ROAT
Name	27.0			Name of the last	(1000
Address Ca	limaca	Calif	ornia		
Tradition Ca	TTIMESA	Call	OIIII.a.		Formation: Describe by color, cheracter, size of material, and structure
(2) TOCA	TION OF	WEII.	,	1/2	0 to 14' Soil
County Riv		W LLL:	3.24	0. 4 Wess.	14 to 69' Gravel
			Sec 14		69 to 73' Clay and gravel
Distance from cit			2-W, Ri		73 to 92' Boulders
Coun	4		7/.	VELSIUE	
A STATE OF THE STA			1: 20/101 - 6		
New Well X			ditioning [		
If destruction.				Destroying	The state of the s
(4) PROP				V FOITDMENT.	
Domestic [				) EQUIPMENT:	cemented streaks
Irrigation [		I I Ot	The state of the s	lotary 🔀	Delitary Carry Dome Graver
	7 2 2 2 2 2 2		1 2	other	240 to 250' Red clay
(6) CASIN	IG INSTA	TIED.			250 to 280' Hard sand and gravel, some
			Tf or	ravel packed	clav
SINGLE T		THER:	6	a. s. pacaca	280 to 348' Sand, gravel and rocks
T. C.	DOODEE [	V 2			348 to 358' Sand, gravel and clay
-		Gage	Diameter	No. of London	358 to 365' Brown clay
from	To Dian	or Wall	Bore	From To	365 to 504' Hard sand, gravel, boulder
-					and clav
100	76 "AX		nductor		504 to 535' Sand, gravel and clay
76'		-	blank ¢		535 to 539' Sand and gravel
6241 -		5/16"	The state of the s	ted casing	539 to 549 Sand and clay
Size of those or we	Il rings		Size of gravel:		549 to 580' Sand and gravel
Describe saint			man i		580 to 635' Sand and gravel, some clay
(7) PERFO			EEN:		635 to 694' Sandy clay, some sand and
Type of perforation	n of name of scre	en		T	gravel
		Perf.	Rows		694 to 700' Hard rocks and sand
fr.	ft.	TOW	per f-	Size	700 to 715' Brown clay
			ft,	in. x in.	715 to 758' Sand and gravel
352	976	10 ho	les per	2-2/3"	758 to 802' Clay, some sand and gravel
-				A41	802 to 808' Hard rock and sand
-				- an	808 to 835' Brown clay and gravel
-					835 to 840' Sand and gravel, some clay
					840 to 856' Sandy clay, some sand
(8) CONS					856 to 934' Sand, gravel and boulders
Was a surface sani	tary seal provided	Yes Gr No	To w	nat depth 100 ft.	934 to 940' Sand and gravel, some clay
Were son Mista se	sled sesinst pollu	tion? Yes 🗆	No 🗆	If yes, note depth of strata	940 to 982' Sand gravel and boulders
From	ft. ta	ft.			982 to 1000' Brown claw
From	fr. to	ft.			Work started 3-22-68 . Completed 4-19-68
Method of stelling					WELL DRILLER'S STATEMENT:
(9) WATE	ER LEVEL	S:			This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Derih ze ukich s	vater was first fo	und, if known		ft.	of my knowiczege and being.
Standing level be	fore verioratine.	if known		ít.	NAME ROSCOE Moss Company
edies level sie	er teriorating ar	d developine		fit.	(Person, firm, or corporation) (Typed or printed)
(10) WELL	L TESTS:			COURS TANKS	Address 4360 Morth Street
נות זפנו כחשי	der Yes 💢 🗆		yes, by whom? R	oscoe Moss	/ Los Angeles, California.
J. 172	O gal./min. w	ith 335	ft. deswdown si	itee 49 hrs.	[SigNED]-/ et ( ) for M
#	23m	***	Commence of the commence of	Value of the same	(Well Deller)
Temperature of wa	iter	Was a chemica	l analysis made?	Yes 🗆 No 🗇	(weit britter)

SMW6 WU14

-25/2W-14R3

k3 112.

ORIGINAL File with DWR

351

# WATER WELL DRILLERS REPORT (Sections 7079, 7080, 7081, 7082, Water Code)

# THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

No. 35123 State Well No. cas/210-14

					Other Well No.
(1) OWN	ER:				(11) WELL LOG: ZARY ROAT
Name					/ 1000
The second second	limesa	Calif	ornia	_	100
-iddiess Ca	ITTIICSa	, carri	Ollina		Formation: Describe by color, character, size of material, and itructure
721 TOCA	TION OF	WEII.	2		0 to 14' Soil
County Riv		WELL.	3 1/	Vo. 4 will.	14 to 69' Gravel
			Sec 14		69 to 73' Clay and gravel
	ties, roads, railroa			verside	73 to 92' Boulders
Cour			17.	y nety a	92 to 110' Gravel and clay
			): =:/101.		110 to 124' Sand and gravel
New Well X			ditioning [	Destroying	124 to 135' Red sandy clay, some grave
If destruction,				24.10/1116	135 to 195' Sand and gravel with
NO. 101 TO 100 T	OSED USI			5) EQUIPMENT:	cemented streaks
Domestic [				Rotary 🖾	195 to 240' Sandy clay, some gravel
Irrigation [				Cable	240 to 250' Red clay
				Other	250 to 280 Hard sand and gravel, some
(6) CASIN	NG INSTA	LLED:			clav
STEEL		THER:	If s	gravel packed	280 to 348' Sand, gravel and rocks
SINGLE TE			1		348 to 358' Sand, gravel and clay
-		The second		- 6	358 to 365' Brown clay
F	То	Gage	Diameter	F	365 to 504' Hard sand, gravel, boulder
from	Diar	n. Wall	oi Bore	From To	and clav
100 /	307/2	1/1" 00	nductor	casing	504 to 535' Sand, gravel and clay
76	73.00	5 V16"	blank o	recing	535 to 539' Sand and gravel
	1011	5/16"	parfor	ted casing	
Size of thee or we		2/10	Size of gravel:	iced casting	
Describe joint	m nagr		2156 of Beavel:		549 to 580' Sand and gravel
(7) PERF	OP ATTON	c OP co	DEENT.		580 to 635' Sand and gravel, some clay
Type of perforation			CEETY:		635 to 694' Sandy clay, some sand and
Type of Period	I all the bit seem	61.0			gravel
From	To	Pert.	Rows	C'	694 to 700' Hard rocks and sand
fr.	fc.	LOM	ft.	Size in. x in.	700 to 715' Brown clay
252	976	10 h			715 to 758' Sand and gravel
352	976	THE THE	Hes Del	2-2/3"	758 to 802' Clay, some sand and gravel
				-	802 to 808' Hard rock and sand
					808 to 835' Brown clay and gravel
_					835 to 840' Sand and gravel, some clay
(8) CONS	TRUCTIO	NT.			840 to 856' Sandy clay, some sand
	itury seal provide			100 /	856 to 934' Sand, gravel and boulders
Were any Abrata s	THE STREET STREET		a Orac Contract	what depth 100 ft.	934 to 940' Sand and gravel, some clay
			No 🗆	If yes, note depth of strata	940 to 982' Sand gravel and boulders
rom r	ft, 10	ft.			982 to 1000' Brown clay
From	fr. 10	ft.			Work started 3-22-68 Complete 4-19-68
Method of college					WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best
	ER LEVEL				of my knowledge and belief.
Depth at which	Property Address			fr.	NING December 1
Standing level h			-	ft.	NAME Roscoe Moss Company (Person, firm, or corporation) (Typed or princes)
57 A TO 3 TO 3	ter reclaration a	nd developing		fr.	
(10) WEL				Poscoo Moss	Address 4360 Forth Street
2	adel Yes CX	225	f yes, by whom?	Roscoe Moss	Los Angales, California.
_4 172	A CONTINUES		ft, drawdown	NAME OF TAXABLE PARTY.	[SigNED]-/ (Well Driller)
Temperature of w			cal analysis made?	Yes 🗆 No 🗆	
Was electric lot n	nade of weil? Ye	I No 🗆	If yes, att:	ich copy	License No. 624 C-57 Dated May 17, 1968 19

GSSI

\_ Soil: Water Chemical Analyses

ATTACH ADDITIONAL INFORMATION IF IT EXISTS.

DW II 155 BL V 7 561

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

WILL DRULTE AUTHORIZED REPRESENTATIVE

STATE

5/0011

C 57 LICENSE NUMBER

10/18/96

DATE SIGNED

ADDRESS

Signed

Log of Test-hole Drilled for the Driller: C. C. Scott

Box 26,

Beaumont, California

		Total Depth of Test-Hole- 1, 119 Feet
FROM	10	DESCRIPTION OF FORMATIONS
0 48 70 132 170 5 1850 8 268 3 170 5 1850 8 268	48 70 137 137 184 180 180 180 180 180 180 180 180 180 180	Gravel, and sand imbedded in Clay Fine Gravel Gravel, and Sand imbedded in Clay Sandy Clay Gravel imbedded in Clay Shale Clay Fine Gravel Clay Rock Gravel imbedded in Clay Coarse Sand (Water) Clay Rock Ledge Clay Rock, and Decomposed Granite Sand Clay Sandy Clay Rock Sandy Clay Hard, solid Clay Coarse sand (Water) Rock Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sand Sandy Clay Sand Sandy Clay Sand Sandy Clay Sand Clay Sand Sand-Stone Sand Sand Sandy Clay Sand Sand Sandy Clay Sand Sand Sand Sandy Clay Sand Sand Sand Sand Sand Sand Sand Sand
		(Log continued on Page 2)
		The second secon

25/2W-14R2 Form Brack by 13 25/2W-1961

## WATER WELL DRILLERS REPORT

DUPLI CATE

Permit No. 292 T. S., R. J. Sec. State Well No. R.C.F.C.D. No.

SmWL #5

1-7/6/ F

OWNER:		(11) 7	VELL LOG		74000
Name		100000000000000000000000000000000000000	1.119		Depth of completed well
Address	Formacion: Describe by color, character, the of meterial, and itructure.				
Calimesa, Californi	2	<u>0</u>	ft. to 48	ft.	gravel & sand imbedded in
oanmesa, centiorma			" 70	- "	fine gravel
(2) LOCATION OF WELL:			" 120	(9)	gravel & sand imbedded in
County Riverside Owner's number, if say-			" 132	94	sandy clay
Portion of Rik. 251, Subd. 9, of			" 170		gravel imbedded in claw
Yucaipa Valley, Riverside Co.			" 185	**	shale
		185	- 240		clav
		21:0	5/18		fine gravel
1	2/18	" 260		clav	
		260	* 268	100	rock
(3) TYPE OF WORK (check):	268	" 293		gravel imbedded in clay	
New well Deepening Recondition	293	" 305		coarse sand (water)	
If abandonment, describe material and procedure in Item	11.	305	" 370		clay
(4) PROPOSED USE (check):	(5) EQUIPMENT:	370	* 375		rock ledge
Domestic   Industrial   Municipal	Rotary 🖂	375	1,00		clay
	Cable	1,00	" 1,06		
Irrigation   Test Well   Other	Dug Well	1,06	" 1,75		rock & decomposed granite sand
/		1.75	- 1:50		clay
(6) CASING INSTALLED:	If gravel packed	1,50	" h80		
SINGLE DOUBLE DOUBLE Di	ameter from to	480	" 1,90		sandy clay
From ft. to ft. Dism. Wall of	f Bors ft. ft.	1:90	" 538		rock
/n n n n n	41 14	538	" 555	44.5	sandy clay
,		555	" 578	4.0	hard, solid clay
		578	510		coarse sand (water)
	** **		500		rock
	" "	586	015		clay
Type and size of shoe or well ring Sin	e of gravels	675	0/5		sam
Describe joint		625	0511		sandy clay
		650	070	-	very hard clay
(7) PERFORATIONS:		670	003	"	coarse water sand & grave
Type of perforator used		683	693		rock
Size of perforations, in., lengt	k, by in.	693	730		clay
From (t. to (t. Perf. per	730	71:0	"	sandy clay	
11. 11. 10. Feet, per		740	- 745	. :	sand-stone
		745	* 750	5	sand
		750	- 756	. 1	hard clay
		756	- 760	** :	sand
		760	- 770	** 5	sandy clay
(8) CONSTRUCTION:	770	- 782		clay	
나는 어림을 가지 않는데 이번 살아나면서 아이들이 하는데 그렇게 되는데 그렇게 되었다.	782	" 816		very hard clay	
Was a surface sanitary seal provided? Two No To what	816	" 830		sand	
Were any strate scaled against polletion?   Yes   No If yes	830	- 850		clay	
From ft. to ft.	850	- 855	1.0		
M 10		0,0	. 0))		rock and sandstone
Method of Sealing		Work started	Jan. 6		cont'd next page
(9) WATER LEVELS:					reb. j
	230 ft.	Drille	er		1 ( )
Depth at which water was first found			4	1514	
ding level before perforating	230 ft.	Name	e C. C.	Scot	tt
Jing level after perforating	180 ft.			16	
		Adda	ress Box	26	
(10) WELL TESTS.					
(10) WELL TESTS:  Was a pump test model   Yes   No If yes, by whom?					, California

2/5/2v -14/2

# WATER WELL DRILLERS REPORT

#### DUPLI CATE

Permit No.292 page T. 25., R. 7 Sec., State Well No. 7

OWNER:	(11) WELL LOG:			
Address	7 7770			
Calimesa, California	Formation: Describe by color, character, size of material, and structure.  855 ts. to 863 ts. fine 5 and			
(2) LOCATION OF WELL:	863 " 890 " clar			
24_00_000	090 " 910 " coargo sand ( )			
	710 sandre alas			
Portion of Blk. 251, Subd. 9, of	1 - 210 9/8 " hand all			
Yucaipa Valley, Riverside Co.	710 985 " sandr al			
	705 1.000 sand & fine cmarred (			
	lard clay			
200 20000000000000000000000000000000000	1,000 hard clay			
(3) TYPE OF WORK (check):	1,010 1,020 " rock			
New well Deepening Reconditioning Abandon	1,020 " 1,050 " clay			
If abandonment, describe material and procedure in Item 11.	1,050 " 1,070 " coarse sand (restand)			
(4) PROPOSED USE (check): (5) EQUIPMENT:	1,005 Clav			
Domestic T Industrial T 24	1.005 " 1.090 " rock ledge			
Irrigation D T. WILL C.	1,090 " 1,119 " hard clay			
Dug Well				
(c) CASTA TARE				
SINGLE   DOUBLE !	NOTE:			
From or Dismerer from	Makaya			
Tt. Diam. Wall of Bore ft. ft.	Water meas. at 410', level 230'			
	" 6501 " 2301			
* *	1,119 " stood at			
" "	abprox. 1801, on Feb. 7, 1949			
Toma and also a d. d				
Describe joint Size of gravel:				
7) PERFORATIONS:				
The of perforator med	в. и			
ize	* *			
rom ( in., length, by in.	" "			
Pert. per row Rows per ft.	* "			
	* *			
	* 1			
E) CONSTRUCTION:				
as a surface sanitary seal provided?  Yes No To what depth fe.				
To any strate would an investigate and the company of the last strate would be company of the last strategy of the last strate				
To any serate scaled against pollution? Tes No If yes, note depth of strate				
ft. to ft.				
ethod of Sealing				
and or sealing	Table 1 2			
) WATER LEVELS:	Work started Jan. 6 15/19 Completed Feb. 7 12/19			
/ WALL LEVELS:	Driller			
	DILLION.			
at which water was first lound				
ding level before perforating ft.	Nome a			
ding level before perforating ft.	Name C. C. Scott			
ding level before perforating ft.  svel after perforating ft.	Name C. C. Scott			
ding level before perforating ft.	Name_C. C. Scott  Address_Box 26			

#### Mail Two Copies to: DEPARTMENT OF PUBLIC HEALTH Court House Riverside, California

## WATER WELL DRILLERS REPORT

(County Ordinances No. 340 and 340A) COUNTY OF RIVERSIDE

Do Not Fill In State Well No. Other Well No. 25/

DEPARTMENT OF PUBLIC HEALTH

(1) OWNER:	(11) WELL LOG:
Name	Formation: Describe by polar character size of completed well 800 ft.
Address P. O. Box 307	
Calimesa, Galif.	fr. 108 fr. Brown Clay
(2) LOCATION OF WELL:	0 22 2207 190 0108
County Riverside Owner's number, if any-	
ME 184 NE 1/4 Sec. 15 T 2-8	262 Sand, Gravel and Rock.
	- HAND WAR BUILD OF THE PARTY O
R 1-W., S.B.B. S M.	The state of the s
	500 528 Sand and clay.
(3) TYPE OF WORK (check):	528 578 Sand saums
New well Deepening Reconditioning Abandon	5/8 584 Reak and ansand
If abandonment, describe material and procedure in Item 11.	Ame a second
(4) PROPOSED USE (check): (5) EQUIPMENT	The state of the s
Domestic Industrial Municipal Rotary	705 980 Sendy clayer and grave
Irrigation Test Well T Other T Cable	
Dug Well	"1004 " Very hard D. G.
(6) CASING INSTALLED: If gravel packed	1004 1202 Granite Niese.
SINGLE DOUBLE T	
From ft. to ft. Diam. Wall of Bore ft. f	0
0 800 16 1/4 22 0 800	
* * * * * * * * * * * * * * * * * * * *	
, n n n n	
Type and size of shoe or well ring 1020 Size of gravel:1/2	- " "
Describe joint Butt wold	" " " " " " " " " " " " " " " " " " "
(7) PERFORATIONS:	
Type of perforator med Toarch	* · · ·
Size of perforacions 4 1/2 in., length, by 3/16 in	
From ft. to ft. Perf, per row Rows per ft	
"242 '800 " 6 " " " 1 " " "	
95 W W W W W W W W W W W W W W W W W W W	
	W
(8) CONSTRUCTION:	
Was a surface assistanty seal provided? X Yes No To what depth 50	- "
Were any strata sealed against pollution?   Yes   No If yes, note depth of strata	
Central	- " " " " " " " " " " " " " " " " " " "
riom ft. te ft.	- " " "
Method of Sealing Cement	
0 4 4 4 4 4 4 4	Work started 19 , Completed Nov. 8 62
(9) WATER LEVELS:	WELL DRILLER'S STATEMENT:
th at which water was first found 242 ft	i six well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
us level before perforation 242 ft	
tranding level after perforating 242 fe	
A CONTRACTOR OF THE PARTY OF TH	Address E. Wabash
(10) WELL TESTS:	San Bernardino Calie
Was a pump test made? Yes No If yes, by whom?	20.7.27
field: ral /min. with fr draw dawn after her	[SIGNED] AOUGU O AOUGU

#### DUPLICATE File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION

# WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

Do	Not	Fill	In
$N_{\bullet}$	5	40	73

DWR 188 (REV. 3-54)

$N_{\bullet}$	54073
MAIL NI.	

Other Well No.....

CONTROL BOARD No .\_ (Insert appropriate number)

STATE OF CALIFORNIA

(1) OWNER:	
Namo	(11) WELL LOG:
Address	Total depth 1200 ft. Depth of completed well 800
Calimesa, Calif.	- Cotmation: Describe by color, character, size of material, and structure.
	8 11 Frown Clay.
(2) LOCATION OF WELL:	LIZAL TAN CLAY
County Riverside Owner's number, if any-	
R. F. D. or Street No.	262 Sand, gravel and rock. 262 311 Sand with some clay.
NE. 1/4 NE. 1/4 Sec. 15 T 2-S	TIL SOME CLAY
R. 1-W., S. B. B. SM.	
	FOO SAILO.
(1) TUDE OF THE	500 Sand and clay
(3) TYPE OF WORK (check):	Julia Sand
New well Deepening Reconditioning Abandon	TO THE PROPERTY OF THE PROPERT
If ahandonment, describe material and procedure in Item 11.	
(4) PROPOSED USE (check): (5) EQUIPMENT:	675 691 D.G. and gravel. 691 705 Sandy clay. 705 980 Comented made
Domestic Industrial Municipal Rotary	980 1000 Femented rock and grave
Irrigation Test Well Other Cable	The state of the s
Dug Well	1004 1200 Granite nices.
(6) CASING INSTALLED: If gravel packed	11.000
SINGLE DOUBLE Gage Diameter from to	
O Goo ft. Diam. Wall of Bore ft. ft.	
22 0 800	
	ti ti
Type and any of 1	1 1
110110	11
Describe joint Butt weld	0 1
(7) PERFORATIONS:	El
Type of perforator used Porach	To the second se
Size of perforations 4 1/2 in least to 7/16	11
From ft. to ft. Perf. per row Rows per ft.	0 1
242 800 6 1 Now per II.	P 0
	1 1
(8) CONSTRUCTION:	Market Control of the
(8) CONSTRUCTION:	
/as a surface sanitary seal provided? * Yes \( \sum \) No To what depth 50 ft.	
Torm	
ft, to ft.	17
fethod of Sealing Coment	tr (t
lethod of Sealing Cement	Work started 19 . Completed NOV. 8 1962
9) WATER LEVELS:	
orb at which water was feer found	WELL DRILLER'S STATEMENT: This well was drilled under my invidiation and the
anding level before perforating	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
inding level after perforating 24.2	NAME R. L. Trower
272	(Person, firm, or corporation)
10) WELL TESTS:	Address 445 F. Wahaah
and pump test made? [] Yes [] No. If res, by whom?	Sun Bernardino, Calif. [SIGNED] Robert J. Nover
ld: 841./min with	(SIGNED) Pobert of Tropier
mperature of warre	190000 Well Briller
s electric log made of well?  Yes No	License No.189826 Dated Nov. 8 , 162
	57028 6.87 50M QUIN △ SPO

### DUPLICATE File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION CONTROL BOARD No ... (Insert appropriate number)

# WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

# Do Not Fill In

No	54073
. 507 . 11 5 7	

STATE OF CALIFORNIA

(1) OWNER:	(11)
Name	(11) WELL L
Address	Total depth 1200
Calimesa, Calif.	Formation: Describe by 6
	8 1
(2) LOCATION OF WELL:	11 9
County Riverside Owner's number, if any-	94 21
NR. 1/4 NE. 1/4 Sec. 15 7 2-8	262 3
7 - 000 - 7 - 2 - 0	311 4
R. 1-W., S. B. B. M.	1490 4'
	500 5
(3) TYPE OF WORK (1.1)	
(3) TYPE OF WORK (check):	528 57 578 58
Abandon Abandon	584 67
1f abandonment, describe material and procedure in Item 11.  (4) PROPOSED USE (check):   (5) EQUIPMENT.	675 60
D	691 70
Domestic X Industrial Municipal Rotary	705 98
Irrigation  Test Well  Other  Dug Well	980 10
(A) CASTRIC TRANSPORT	1004 12
SINGLE A DOUBLE T	1
From of Diameter from to	**
0 800 16 3/6	"
22 0 800	
	n
Type and size of shoe or well ring none Size of gravel: 1/2 in.	
Describe joint Butt weld	**
(7) PERFORATIONS:	
Type of perforator used Torach	1-
Size of perforations 4 1/2 in length to 2/16	LF.
From ft. to ft. Perf. per row Rows per ft.	41
242 800 6	45
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
(8) CONSTRUCTION:	1.
Was a surface sunitary seal provided? Tyes No To what depth 50 ft.	
Were any strata sealed against pollution? Yes No If yes, note depth of strata	**
From fr. to ft.	4,
16.1.1.60	**
Method of Sealing Cement	Work started
(9) WATER IEVELO	
Depth at which water was first found	WELL DRILLER'S STA This well was drilled u
Standing level before of the standing level before the standing level	ny knowledge and belief.
11.	NAME P. I. T.
242	(Person,
(10) WELL TESTS:	ddress 445 E.
Was a pump test made?  Yes  No If res, by whom?	San Berns
Yield: Ral./min. with fe, draw down after hrs.	SIGNED] IPOL
Temperature of water Was a chemical analysis made? [ Yes  No ]	cense No.189826
Was electric log made of well? Yes No	
	87025 6-87 SOM QUIN A SPO

		Other Well No
(11) WEL	L LOG:	
Total depth 12		fr. Depth of completed well 800
Formation: Descri	be by color, char	acter, size of material, and structure.
8 ft. t	• 8 f	Brown Clay
77		Light tan clay
0/1	94	brown clay.
262	-262	Sand, gravel and rock.
- 311	311	Walle With Some clay
400	472	Decomposed granite.
472	566	Hard decomposed granite
500	528	Sand and clay
228	578	Course sand
-578	584	Rock and gravel
_584	675	Sand and gravel
691	705	Sandy clay.
705	980	Camana Camana
980	1004	Cemented rock and gravel
1004	1200	Very hard DiG!
**		Granite niece.
*1		
	17	
11		
	15	
	**	
1-	14	
11		
	- 11	
0		
42	- 41	
	.,	
**	**	
**		
ork started	C.	
		19 . Completed NOV. 8 1962
This well was de	STATEMEN	XT:
y knowledge and b	ned under my elief.	jurisdiction and this report is true to the best of
AME R. I.		
(P	Trowe	orperations (Tybed or (mated)
ddress 445 E	And the second of the second of	sh
San Be	rnardi	no, Calif.
IGNED] /To	best	J Tronver
cense No.18982		Well Briller
Teller Nom 9.302		Dated Nov . 8
E703F & P		V2

DWR 188 (REV. 3-54)

#### QUADRUPLICATE RETAIN THIS COPY

# WATER WELL DRILLERS REPORT

Do Not Fill In

No	54	0	5	5

STATE OF CALIFORNIA	State Well No			
IS A selfer	Other Well No.			

) OWNER:	(11) WELL LOG:
Address	Total depth /400 ft. Depth of completed well 985
11441655	Formation: Describe by color, character, size of material, and structure.
	ft. to ft.
(2) LOCATION OF WELL:	
County Riverside Owner's number, if any #9	n n
R. F. D. or Street No.	n n
	95 216
	- Av
	, m. n.
	" Top: 1873
(3) TYPE OF WORK (check):	" > 250   bot: 1,672
	538 -689 - packed sand, graveland
New well Deepening Abandon  If abandonment, describe material and procedure in Item 11.	gravet rock.
	- CLAY (ESAII)
Domestic Industrial Municipal Rotary	
Irrigation Test Well Other Dug Well	0200
	- States Braver and rock.
(6) CASING INSTALLED: If gravel packed	1005 1100 blue clay and gray sind.
SINGLE DOUBLE Gage Diameter from	to "
From ft. to ft. Diam. Wall of Bore ft.	ft.
12 985 1400	n n
12 703 1400	" " " " " " " " " " " " " " " " " " "
2 0 0 0	* "
Type and size of shoe or well ring NONE Size of gravel: 3/8 Dea	7
Describe joins butt weld	
(7) PERFORATIONS:	Nº N
Type of perforator used milling blade	- n
Size of perforations 5/16 in., length, by 3 1/11 From (t. to Perf our row p.	in.
Rows per	
0-1	- M
800 985 14 8 8 8	
9 H H H H H H H	
(8) CONSTRUCTION:	н н
Was a surface sanitary seal provided? H Yes 🗆 No To what depth 65	ft
Were any strate scaled against pollution?  Yes No If yes, note depth of strate	
From ft. to ft.	
Method of Sealing 65 ft. of 22in. pipe cemented	No. 4. Company
	- Van 20 19
(9) WATER LEVELS:	WELL DRILLER'S STATEMENT:
	This well was drilled under my jurisdiction and this report is true to the best my knowledge and belief.
	11. NAME PI TO LOG
anding level after perforating 256	ft. (Person, hem, of chiferands) (Typed or printed)
) WELL TESTS:	Address AAA E. Wahach
	San BODNIA adis 0 110
Fast pump test made? Thes No If yes, by whom?	- By By Bigo, CAlif
	[SIGNED] 1586911 dell stillet over
emperature of water Was a chemical analysis made? Yes No	License No. 107000 Dated
Cat electric log made of well?   Yet   No	Jan 26 "Go
GK1 362	57026 8-57 50M QUIN △ 5PQ DWR 188 (REV. 3.54)

# QUADRUPLICATE RETAIN THIS COPY

# # 9

## WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

No Not Fill In 54055

STATE OF CALIFORNIA	
---------------------	--

		_	•	-	-	•	•	
State	Well	No						 
Othe	r Wel	1 No						 

(1) OWNER:	(11) WELL LOG:  Total death /400 to Death of working and 985
Address	11. Depth of completed well
7101039	Formation: Describe by color, character, size of material, and structure.  ft. to ft.
	" "
(2) LOCATION OF WELL:	
County Riverside Owner's number, if any-#9	0
R. F. D. or Street No.	
	6 0
	" "
(3) TYPE OF WORK (check):	538 -689 - packed sand, graveland
New well ☐ Deepening ♣ Reconditioning ☐ Abandon ☐	gravet rock.
If abandonment, describe material and procedure in Item 11.	689 -745 - redish brown clay sand
(4) PROPOSED USE (check): (5) EQUIPMENT:	745 -746 -rock.
Domestic Industrial Municipal Rotary	746 759 sand and rock.
I Cabla I	759 820 sandy clay.
Irrigation Test Well Other Dug Well	82) 1005 sand, gravel and rock.
(c) CACINIC INICTALLED. If arrived marked	1005 1100 blue clay and gray sand.
(6) CASING INSTALLED: If gravel packed	
SINGLE DOUBLE Gage Diameter from to	n 0
From ft. to ft. Diam. XXIII of Bore ft. ft.	11
	" "
12 985 1400	" "
	0 0
Type and size of shoe or well ring NONE   Size of gravel: 3/8 DGa	u r
Describe joint butt weld	11 11
(7) PERFORATIONS:	10
Type of perforator used milling blade	11
Sinc 7/1/	41
F	11 (-
- 250 - 760 - 14 - 8 8	11
	0 0
	**
· · · · · · · · · · · · · · · · · · ·	
(8) CONSTRUCTION:	* "
Was a surface sanitary seal provided? 4 Yes   No To what depth 65 ft.	
Were any strata sealed against pollution? Yes No If yes, note depth of strata	7. 11
Pean	
ft. to ft.	n
Method of Sealing 65 ft. of 22in. pipe comented	
5 5 1 01 01 ALINE DIDE COMMITTED	Work started 19 . Completed JAN 20 6
(9) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth at which water was first found 256	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Standing level before perforating 256 ft.	<b>5</b> , —
Standing level after perforating 256 ft.	NAME Person, firm, of corporation (Typed or printed)
	Address AAF E Wahah
(10) WELL TESTS:	C POOL WADASH
Was : pump test made? Yes No If yes, by whom?	- SAN DERNARGINO, CALIF
Yield: gal./min. with fr. draw down after hrs.	[SIGNED]. Labout & Thomas
Temperature of water Was a chemical analysis made? Yes No	189826 Tours
	License No. Dated Jan 26 , 19 65
Was electric log made of well? Yes No	57025 6-57 50M QUIN A SPO

FORM 115

INVESTIGATION

South Coastal Basin

# DIVISION OF WATER RESOURCES DEPARTMENT OF PUBLIC WORKS STATE OF CALIFORNIA

NUMBER B-1365

## WELL LOG

LOCAL DESIGNATION OWN DY Marliave Red. #51

101	Hicks Y-17
W. of State Highway, Lot 209, Sub. 9. Yucaipa	100. #18230A
OWNER_	SKETCH
DATE COMPLETED -164 About 1922	
DIAMETER OF CASING 1611	
DRILLED BY Henry R. Gananer	
SOURCE OF INFORMATION_ P. E . Hicks	-1
INSPECTED WHILE DRILLINGSEE FILE NO	
SURFACE ELEVATION.	

DEPTH	ELEVATION OF BOTTOM OF STRATUM	MATERIAL	THICKNESS	%	ABSOLUTE	TOT
0-135 140		Clay and some gravel	FEET	VOIDS	VOIDS FEET	VO!
140		Sand Some gravel	135			12
190		Clay	1			-
190 208		Sand and clay	di			_
894		Sand and Clay	泉			_
		Sand and gravel, greater part	450			_
336					-	
336 360		Gravel, some clay	32			
369		Clay and gravel	n 14	_	-	_
430		Clay	6	-	-	_
369 430 431	-	Hard red clay Clay, little gravel Soft sandy clay	(4)	_		
140		Clay, little gravel	- 4			
143		Soft sandy clay	0			
		Clay	1			
	-					
	-	Perf 205-363				
			-			
	- 5	Pumos 150" - drawdown 1 1	-			0
		THE OFFICE AND ADDRESS OF THE OFFICE AND ADDRESS OF THE OFFICE ADD			를	
					1	
			an			
			5			
		A VIVE TO SE				-
		4 1				-
		9				-
					-	
						_
	1				-	_
	1					
			-			
-						
			-			
1			1			-

LOG OBTAINED BY\_

EGG12 & 31 10M CALIFORNIA STATE PRINTING OFFICE

word or	16011					STATE OF C	ALIFORNIA	Do not fill is
- F	'r Cm					THE RESOUR	CES AGENCY	No. 161398
DEPARTMENT OF V								MCLS
Notice of Intert No. WATER WELL DI							RILLERS REF	PORT State Well No
wed Perm	it No. or D	nte		_				Other Well No
1) OW	NER:	Name_						OG: Total depth 1000t. Depth of (ampleted well 776).  Formulion (Describe by color, character, size or material)
Hy	Cali	mesa	, CA			Zip 92320	0 - 16	Top Soil, Clay, Rock & Sand
2) LO	CATIO	V OF	WELL	(See instru	ctions):		16 - 41	Clay, Rock & Gravel
	an Ber		o cy	Owner's	Well Number,	28	103 - 214	Samll Gravel & Sand Spotted Rock, Sand & Gravel
	ss if differe			2W	Section	11	214 - 260	Granite Formation, firm
Township 2S Range 2W Section 11  Distance from cities, roads, railroads, fences, etc. Calimesa							260 - 327	Small Gravel, Sand & Rock
5001	East o	f Co	unty L	ine Rd.			327 - 390	Small Gravel, tight
	South						390 - 506	Gravel
	_				Day	. Ass/2017/10	506 - 540	Gravel & Small Boulders
0.	2 12	v2 1	LET	in		OF WORK:	540 - 556 556 - 587	Red Clay Gravel, w/Clay Streaks
1000		r. 1-	/		New Well		587 - 611	Gravel & Granite, tight spors
#	714				Reconditioni		611 - 620	Sandy Clay, tight
	7 - 10	127.	11 >	THINEAN	Horizontal V		620 - 637	Sandy Clay, Gravel Streaks
WA	TERE	We	14 5	1111001		(Describe	637 - 744	Gravel & Small Rocks
					procedures i	n Item 12)	744 - 762	Small Gravel, Sandy Clay
					(4) PROI	POSED USE:	762 - 770	Grave1
					Irrigation	0	770 - 802 802 - 808	Sandy Clay Gravel & Rock
					Industrial		808 -865	Sandy Clay
					Test Well	0	865 - 952	Gravel w/Clay Streaks
					Stock	D	952 -1000	Sand & Gravel
	-				Municipal	7		
5) EQUI		OCATI	ON SEETO		Other	0		
otary [		Rev	erse 🗆	(6) GRAVE		#5 Gravel	-	
able [		Air		Diameter of t	4.44			
ther [	( -	Buel	tet 🗆	Packed from_	50*	to 770 ft.		
) CASI	INSTA	LLED:	Par I	(8) PERFOI		2000	A -	
eel 🖳	Plastic [	Co	ncrete 🗆	工程 所	rizontal	Louvre	-	
From ft.	To ft.	Dia.	Gage or Wall	From	To ft.	Slot	-	
0	770	in.	wan 5 €/16	250	770	3/32×21×H	-	
	770	3/11	3/10	230	170	2127X75	-	
							-	
	L SEAL		14-35 4		** ·	4	-	
			vided? Yes pollution?	**	If yes, to de	50 ft.	+	
ethod of				in place		- It		1-20 19 85 Completed 1=9 19 86
	TER LE	VELS:		- Prace			WELL DRILLER	'S STATEMENT:
	first water, wel after v				183	ft.	This well was drilled knowledge and belief	under my furisdiction and this report is true to the best of m
11) WE	LL TES	TS:					SIGNED	and all
as well to	est made?	Pum	S Ex No	☐ If yes, b Bailer ☐	whom? Mc	Calla Bros	NAME Me	(Well Driller)
'h to	water at			ft.	At end of	testft	(P	erson, firm, or corporation) (Typed or printed)
arge	2400	al/min	after 261	hours	Water tem	perature	C	32 W. 17th St.
100 miles	nalysis ma	de? Ye	s 🗆 No	Gr If yes, b	y whom?			hta Ana, CA Zip. 92703 6824 Date of this report 1-27-86

South Coastal Basin

# DIVISION OF WATER RESOURCES

DEPARTMENT OF PUBLIC WORKS STATE OF CALIFORNIA

# 1430 SHEET 1

### WELL LOG

Marliave Red. #53
Hicks Y-14

LOCATION 50' S. of County Line Road, 700' L. of	Loc. /18239-
State Highway, Lot 205, Sub. 9, Yucaipa.	-
OWNER	SKETCH
DATE COMPLETED About 1927	
DIAMETER OF CASING. 161	
DRILLED BY_ Glark VcEuen	141
SOURCE OF INFORMATIONP.E.Hicks	
INSPECTED WHILE DRILLING SEE FILE NO.	
SURFACE ELEVATION	

DEPTH	ELEVATION OF BOTTON OF STRATUM	MATERIAL	THICKNESS	% VOIDS	ABSOLUTE VOIDS	TOTA
0-130		Clay	1	10103	FEET	FEE
150		Tight gravel	13.0			
160		Clay	20			
175		Tight gravel	10			
21.0		Coarse gravel, loose	15	,		
212		Red coarse sand	34			
250 265		Coarse gray gravel Clay and gravel, hard Coarse gravel, good Sand and clay	- 4			
265		Clay and gravel hard	34			
310		Coarse gravel, good				
317		Sand and clay	از بشو			
317 325 348 351		All clay	q			
348		Wash gravel, coarse	0			
551		07 000	73			
353	D	Fine sand	4			
353 395		Clay	01			-
7			A	-		
		Pumps 100" Drawdown 100"	1			
		Tampe 10, Drawdown 100,		F		
			ROFIL	100		
	1	11/6	10			
	1					
	1					
- 111-11-11-1	-	the management of the second			100	_
						_

6591

LOG OBTAINED BY\_

SCOTE C 21 IEM ALIFORNIA STATE PRINTING OFFICE

DATE

6

FORM	115	
		AND THE PROPERTY OF A PROPERTY OF

DIVISION	OF	WATER	RESOURCES	
DEDA			Carried State Stat	100

STATE OF CALIFORNIA

NUMBER\_ E-136K

SHEET 1

WELL LOG

LOCAL DESIGNATION\_

LOCATION 50 south of county line and 100 feet west of Highway 99-Erof rec.

Loc. # 18239 C

OWNER\_

SKETCH

DATE COMPLETED drilled 1920

DIAMETER OF CASING\_

Ganzer DRILLED BY\_

Source of Information San Bernardino Valley Water Conservation District

INSPECTED WHILE DRILLING

SURFACE ELEVATION 2370. 0

DEPTH	ELEVATION OF BOTTOM OF STRATUM	MATERIAL	THICKNESS	% VOIDS	ABSOLUTE VOIDS FEET	TOTA VOID: FEET
0 - 130		clay			7661	PEET
130 - 135		sand				
135 - 170		clay				_
170 - 185		sand and gravel				
185 - 195		clay and gravel		-		
195 - 200		gravel				
235					11 - 11	
			1		2	
0.0		1				
		EVI	CROFIL	RHEN		
				-INI - I	)	
	1					
				LF I		

# PACIFIC SURVEYS

Witnessed By

## **ELECTRIC LOG GAMMA-RAY**

Job No. Company 16423 Well CAL MESA WATER 7TH ST. WELL YUCAIPA Field File No. SAN BERNARDINO CA County State Other Services: Location: EAST END OF 7TH ST GPS: N34o 00.769' W117o 04.032' SONIVADL Sec. Rge. Twp. G.L. Elevation Permanent Datum Elevation G.L. K.B.F. Log Measured From 0' above perm. datum **Drilling Measured From** G.L. 02-27-2012 Date Run Number ONE Depth Driller 913' 912 Depth Logger Bottom Logged Interval 910' Top Log Interval 50' Casing Driller 30" @ 50" Casing Logger 50' Bit Size 17.5" Type Fluid in Hole WATER Density / Viscosity N/A pH / Fluid Loss N/A Source of Sample PIT Rm @ Meas. Temp 14.2 @ 77F Rmf @ Meas. Temp 14.2 @ 77F Rmc @ Meas. Temp N/A Source of Rmf / Rmc MEAS Rm @ BHT N/A Time Circulation Stopped 3 HRS Time Logger on Bottom 02:10 Max. Recorded Temperature N/A **Equipment Number** PS-5 Location L.A. Recorded By RIDDER

or correctness of n, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule. cannot and do not guarantee the accuracy other measurements and we All interpretations are opinions based on inferences from expenses incurred <<< Fold Here

Comments

Calibration Report

16423.db

Dataset Pathname: Dataset Creation: Database File:

Elog Mon Feb 27 02:06:10 2012 by Log Open-Cased 100827

#### ELUG Calibration Report

Serial:

Model:

D1 DTQ

Shop Calibration Performed:

Before Survey Verification Performed: After Survey Verification Performed: Fri Sep 02 10:21:35 2011 Wed May 18 15:44:28 2011 Wed May 18 15:45:08 2011

#### **Shop Calibration**

Readings				Referer		Resu	ılts	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	8.723	99.406		10.200	102.200	Ohm-m	1.015	1.350
Long	7.680	96.048		10.200	102.200	Ohm-m	1.041	-17.600
IEE	52.920	3270.320	counts	0.058	3.579	Α		
VSN	49.080	5373.320	counts	0.936	102.490	V		
VLN	204.820	45711.480	counts	3.907	871.891	V		

#### Before Survey Verification

Readings			References			Results		
Zero	Cal		Zero	Cal		Gain	Offset	
80.215	146.194		82.548	146.243	Ohm-m	0.965	5.112	
1342.350	4974.190		4976.440	4976.440	Ohm-m	0.991	47.934	
54.260	3251.500	counts	0.059	3.558	Α			
48.900	5340.600	counts	0.933	101.865	V			
204.580	45427.860	counts	3.902	866.481	V			
	Zero 80.215 1342.350 54.260 48.900	Zero Cal 80.215 146.194 1342.350 4974.190 54.260 3251.500 48.900 5340.600	Zero Cal  80.215 146.194 1342.350 4974.190  54.260 3251.500 counts 48.900 5340.600 counts	Zero         Cal         Zero           80.215         146.194         82.548           1342.350         4974.190         4976.440           54.260         3251.500         counts         0.059           48.900         5340.600         counts         0.933	Zero         Cal         Zero         Cal           80.215         146.194         82.548         146.243           1342.350         4974.190         4976.440         4976.440           54.260         3251.500         counts         0.059         3.558           48.900         5340.600         counts         0.933         101.865	Zero         Cal         Zero         Cal           80.215         146.194         82.548         146.243         Ohm-m           1342.350         4974.190         4976.440         4976.440         Ohm-m           54.260         3251.500         counts         0.059         3.558         A           48.900         5340.600         counts         0.933         101.865         V	Zero         Cal         Zero         Cal         Gain           80.215         146.194         82.548         146.243         Ohm-m         0.965           1342.350         4974.190         4976.440         4976.440         Ohm-m         0.991           54.260         3251.500         counts         0.059         3.558         A           48.900         5340.600         counts         0.933         101.865         V	

#### After Survey Verification

Readings		Readings References				Results	
Zero	Cal		Zero	Cal		Gain	Offset
79,445	146.186		80.215	146.194	Ohm-m	0.989	1.677
1341.850	4973.840		4974.190	4974.190	Ohm-m	1.000	0.554
54.360	3249.300	counts	0.059	3.556	Α		
48.520	5336.700	counts	0.925	101.791	V		
204.880	45393.900	counts	3.908	865.833	V		
	79,445 1341,850 54,360 48,520	Zero Cal  79.445 146.186 1341.850 4973.840  54.360 3249.300 48.520 5336.700	Zero Cal  79.445 146.186 1341.850 4973.840  54.360 3249.300 counts 48.520 5336.700 counts	Zero         Cal         Zero           79.445         146.186         80.215           1341.850         4973.840         4974.190           54.360         3249.300         counts         0.059           48.520         5336.700         counts         0.925	Zero         Cal         Zero         Cal           79.445         146.186         80.215         146.194           1341.850         4973.840         4974.190         4974.190           54.360         3249.300         counts         0.059         3.556           48.520         5336.700         counts         0.925         101.791	Zero         Cal         Zero         Cal           79.445         146.186         80.215         146.194         Ohm-m           1341.850         4973.840         4974.190         4974.190         Ohm-m           54.360         3249.300         counts         0.059         3.556         A           48.520         5336.700         counts         0.925         101.791         V	Zero         Cal         Zero         Cal         Gain           79.445         146.186         80.215         146.194         Ohm-m         0.989           1341.850         4973.840         4974.190         4974.190         Ohm-m         1.000           54.360         3249.300         counts         0.059         3.556         A           48.520         5336.700         counts         0.925         101.791         V

#### After Survey Verification compared to Before Survey Calibration

	Zer	0		Ca	1	
	Before	After		Before	After	
Short	82.548	80.215	Ohm-m	146.243	146.194	Ohm-m
Long	1377.960	1342.350	Ohm-m	4976.440	4974.190	Ohm-m

#### Gamma Ray Calibration Report

Serial	Number:
Tanik	A I - I.

D4

Tool Model: Performed: ELOG

Sat Apr 09 12:21:07 2011

Calibrator Value:

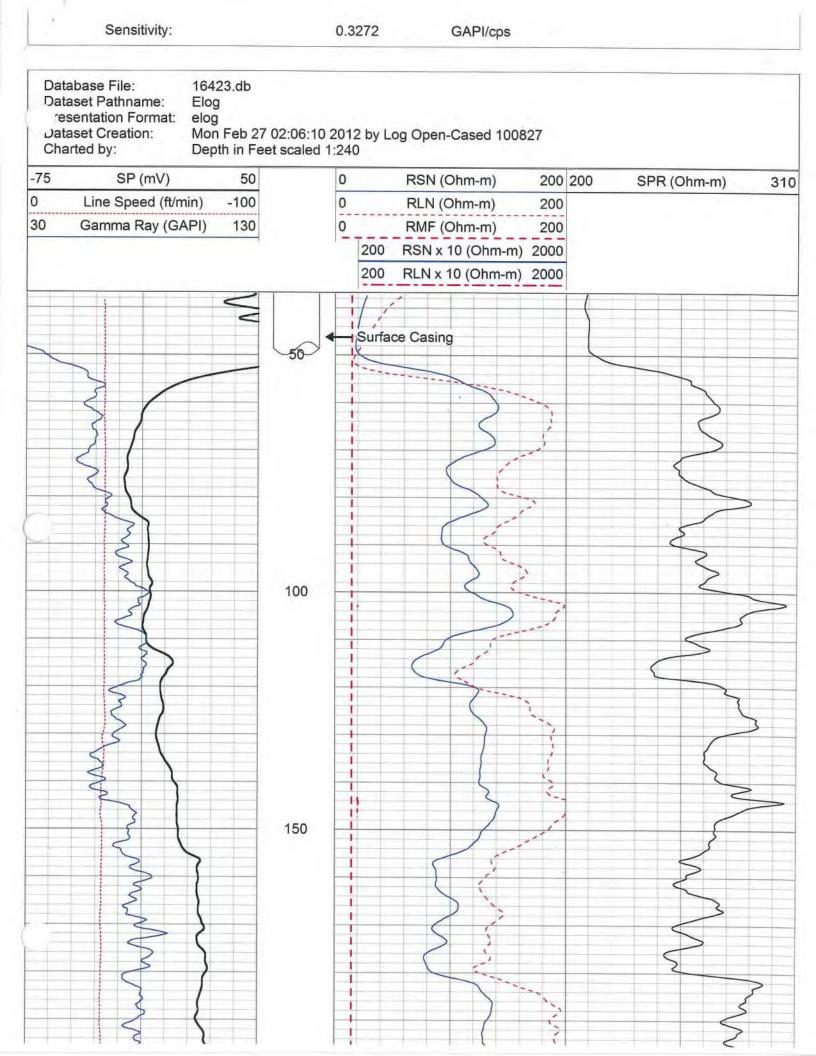
162.0

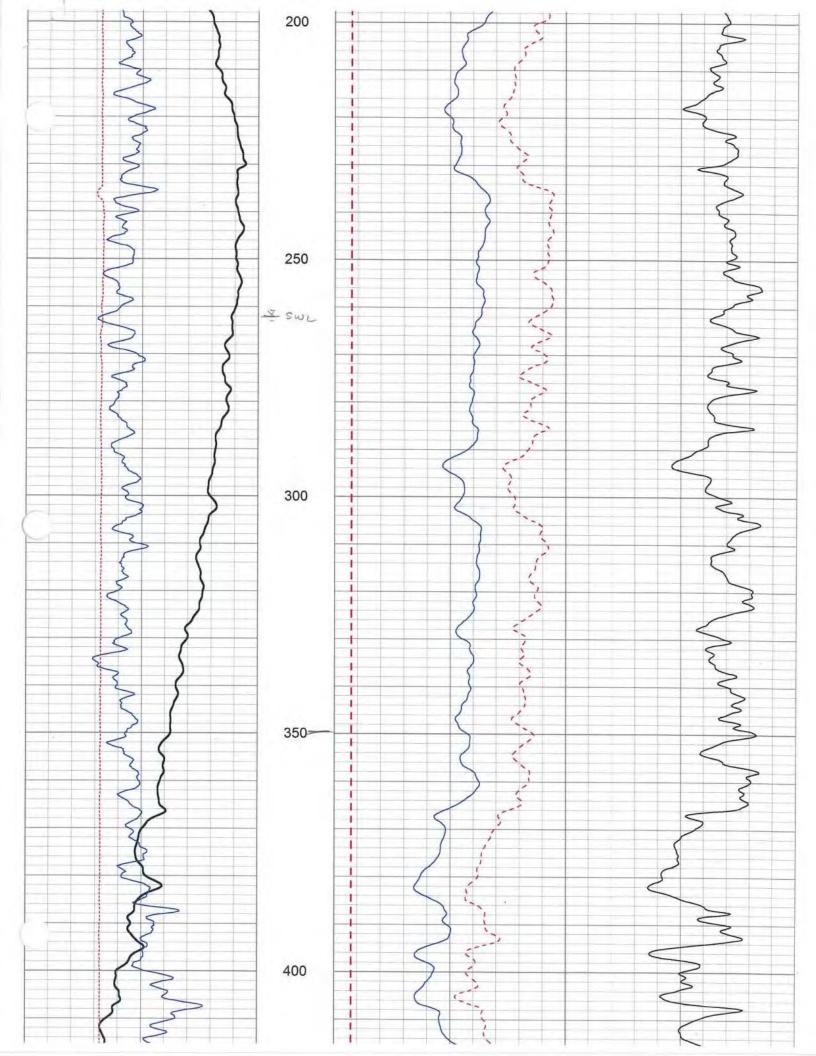
GAPI

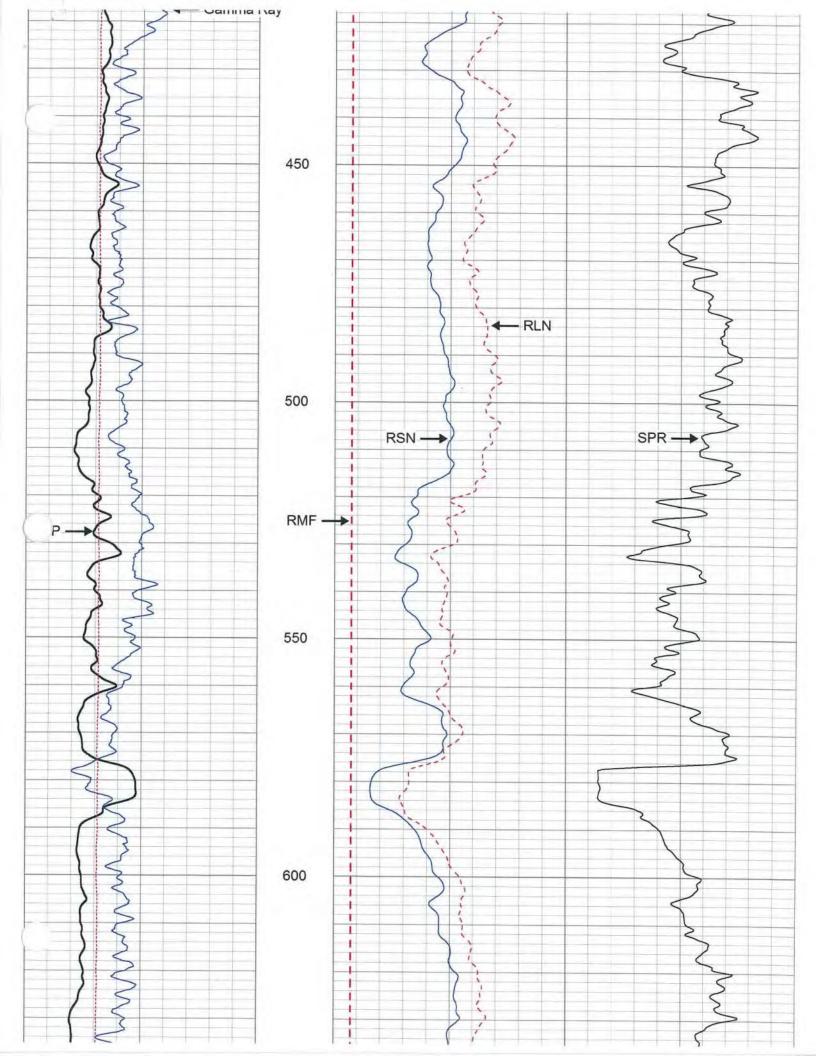
Background Reading:

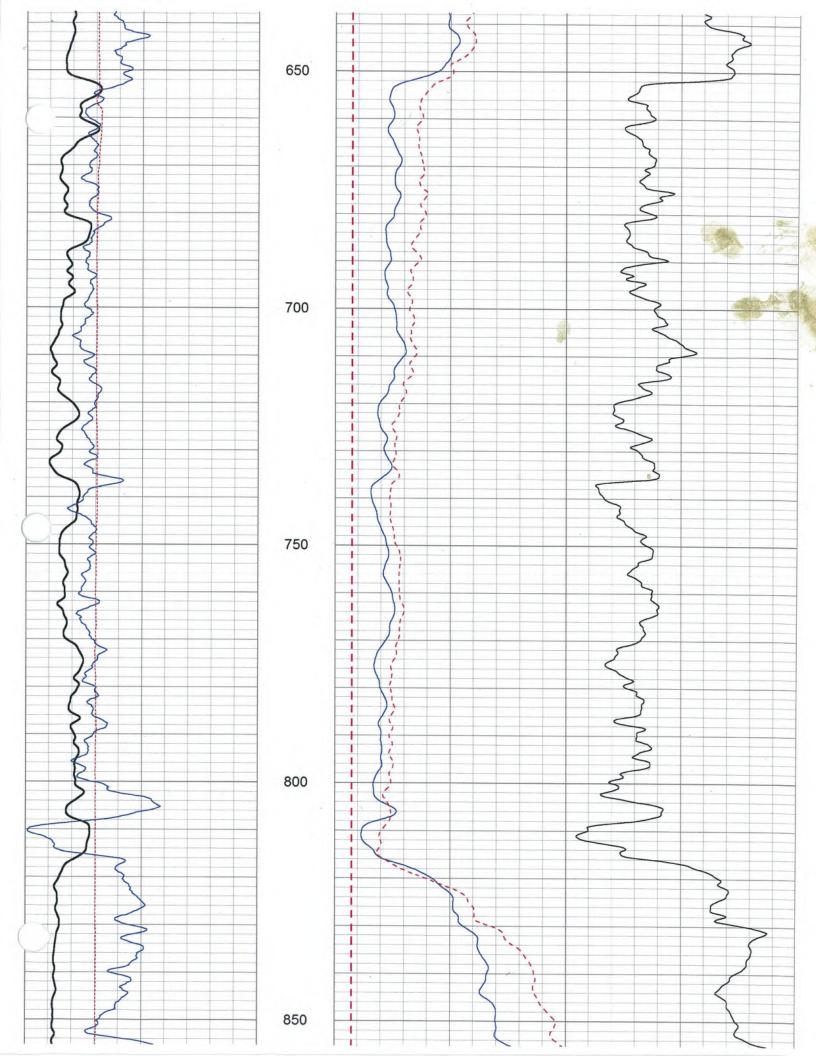
212.4

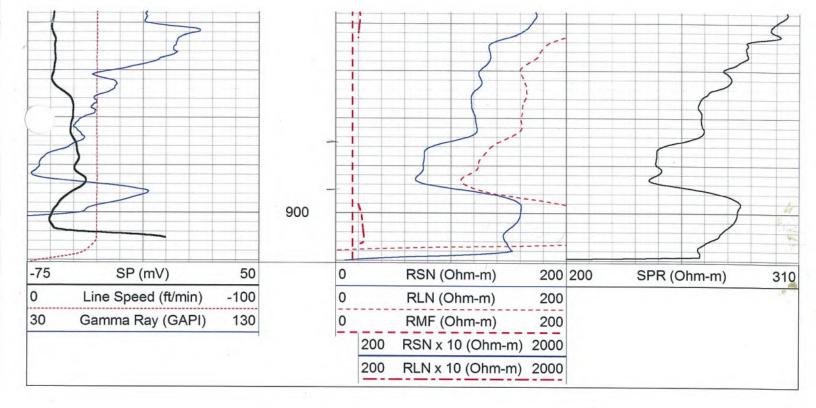
cps











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		of <u>2</u>			AAGI	Refe	er to Instruction	ion Rep	ort				Ţ	
	Well Nur		2040			No	. e01151	380 <sup>°</sup>			Sta	ate Well N	ımber/S	Site Number
Local Pa	ork begar ermit Ade	1 <u>07/29/2</u>	2010 Bernardino	Date	Work Ended	<u>8/4/</u>	2010				Latitude			Longitude
Permit N	lumber <u>7</u>	0100703	342	Permit Da	ite <u>7/23/10</u>	пеан			***************************************			APN	/TRS/O	ther
		<u>Jakana da</u>	Geolo	gic Log							Wel	l Owner	ekisteri/	
8		<b>⊙</b> Verti	cal O Hor	rizontal	OAngle	Spec	ify	- Name			4401	OWITE	700 a di	
B		everse Ro	tary		Drilling Fluid	Fres	sh Water	11 -	Address _					
Deptr	from Su to F	eet	Des	Des cribe material.	c <b>ription</b> grain size, col	or etc			ucaipa			St	ata C/	A. <sub>Zip</sub> 92399
35	90	S	and Gravel		3							Locatio		
90	120	S	and Clay			***************************************	***************************************	Addres	s <u>San Tir</u>	noteo C			11:20-02-02	Arter (1975) (1974) Arter (1975) (1974) (1974) (1974) (1975)
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200	250	S	and Gravel (	Clay								25 1		
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340	417	S	and Gravel		***************************************			APN B	ook <u>0175</u>	Pag	e <u>221</u>	ist s	Parc	cel <u>06</u>
<b> </b>			·					Towns	nip <u>2S</u>				Sect	
	_						·····	(Sketch	Loca must be draw	tion Ske		orinted )	E.	Activity
										North		<i></i>	8	New Well Modification/Repair
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<b></b>	_			······································				-   🔩			j.	Sec.		O Other Destroy
			· · · · · · · · · · · · · · · · · · ·					CALIFAVIA	万	., .,				Describe procedures and materials under "GEOLOGIC LOG"
				····				$\exists 1 \exists$	ח.	. 4	rea tra	44"		Planned Uses
			<del></del>				ģ.	T   <u>3</u>	ISA	467.5	SKD,		Ov	Nater Supply
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									in	Sto C		Yam		njection
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				-ref(0)	9.3% <sub>1</sub>					<b>-</b>	Thyon	1		est Well
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					Alba.			rivers, etc. a	nd attach a map. ccurate and com	Use additiona	I paper if nec	essary.	00	Other
								Water	Level and	Yield o	of Com	pleted V	Vell	
				44. Twi				Depth t	o first wate					et below surface)
		. 5	<u>.</u>		828 J. J. F.	-		Depth t	o Static					ured
Total D	epth of B	oring	417			Feet		Estimat	ed Yield *	····	(GP	m) Date	Type	ureu
Total D	enth of C	omnleted	Well 415			- -eet		Test Le	ngth		(Hou	urs) Total	Draw	down(Feet)
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Dont	h from			Casi						20.00		Annul	ar Ma	iterial
Sur	face	Borehole Diameter		Mater	Thic		Outside Diameter	Screen Type	Slot Size if Any		h from rface	Fi	11	Description
Feet 0	to Feet 35	(Inches)	Conductor	l 0t	~~~	ches)	(Inches)	7	(Inches)	48	to Feet	·		
0	340	17.5	Blank	Low Carbon PVC Sch. 80			20 5	-	<del> </del>	0 225	225	Filter Pa	эк	8x16 Midcal
340	360	17.5	Screen	PVC Sch. 80			5		0.050	230	250	Bentonite	<del></del>	Sand Seal
0	285	17.5	Blank	PVC Sch. 80			5		1	250	255	Fill		Sand
285	305	17.5	Screen	PVC Sch. 80		·	5		0.050	255	310	Filter Pag	ck .	8x16 Gravel
0	120	17.7	Blank	PVC Sch. 80	.21	4	5			310	315	Fill		Sand
		Attachn	nents			iliyata.	1,000	die soug	Certificat	on Stat	ement			
	Geologic		Diagram	Distriction	Name Bak	erstie	aid Well 8	հ Pumn Co	t is comple	te and ac	curate t	o the bes	t of my	knowledge and belief
		struction ical Log(s		SECTION SECTIO	P	erson.	Firm or Corpo	oration						
			al Analyses	-	7212 Frui	ıvale	AVE Address /	<del>/ //</del>	Bake	ersfield City	-	<u>C</u>	A Sate	93308 Zip
	Other				Signed		<u></u>	<u>i 10</u>	we		8/20/2	010 4	40537	7
Attach add	litional inform	nation, if it ex	cists.		C	-57 Lic	ensed Water	Well Contractor			Date Si	gned C	-57 Lic	cense Number

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	ginal with D		j		A/		tate of Cal			Text delicated in		D	WR Use O	nly – D	o Not Fill In
	2		Manual Control of Cont		A.A.	Refe	omplet	n Pamphlet	port	I					
	Well Num	***************************************		***************************************		No	e01153	80				St	ate Well Nu	mber/9	Site Number
			2010		Work En	nded <u>8/4/</u>	2010	-		Specific Co.	L	Latitude		اـــا	Longitude
ocai re Permit N	Vumber <u>70</u>	5y <u>San</u> )10070:	Bernardino 342		nt of Pub ate <u>7/23</u>		<u>h</u>	·					APN/	TRS/O	ther
	AND STREET			gic Log			11.0					We	l Owner		
	ientation			rizontal	OAngle		-	– Nam	ne .						
	Method Re			Dec		Fluid Fres	h Water	- Maili	ing Addre	ess .					
				Des cribe material	l, grain size	o, color, etc		- 1744 B	Yucaipa				Sta	te C/	A. z <sub>ip</sub> 92399
35	90		and Gravel			***************************************						Well	Location		
90	120		and Clay					Addı	ress <u>Sar</u>	n Tin	noteo C				STANTA OF THE SECTION
120	200		and Gravel		<del></del>									iintv S	San Bernardino
200	250		and Gravel (	Clay					ude						
250	310		and Gravel		·				D	Deg.		Sec.	N Longiti		Deg. Min. Sec.
310	340		and Gravel (	Clay				Datu	ım		Decima	ıl Lat	- 1991 - 1993 - 1985 - 1985	_ Dec	cimal Long.
340	417	S	and Gravel	······		<del></del>	***************************************	APN	Book <u>U</u>	175	Pag	je <u>221</u>		Parc	cel <u>06</u>
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				Maanga				_	www.elf			Í	<b>1</b> 4.	(	O Other
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***************************************		_		<u> </u>	100	1444	<u></u>	Illustrate	e or describe di	istance o	of well from r	oads, building	s. fences,	OV	/apor Extraction
					- 1949. - 1944		19.00	rivers, e	tc. and attach i be accurate a	a map.	Use addition:	al paper if ne	essary.	00	Other
			929-7 m.				Ý	Wate	er Level	and	Yield (	of Com	pleted V	/ell	
	_				5. S.	45.76		Dept	th to first v	water			Contract Con		et below surface)
					4,77		<del>i de la composition de la com</del>	- Dept	th to Statio	С					, , ,
Total D	Depth of Bo	ring	417			Feet			nated Yie		<del></del>	(GP)	M) Date	Meas Tuna	ured
		•	d Well 415		y Ph			Test	Length _			(O. (Ho	ırs) Total	Draw	down (Feet)
TOTAL	Jepin of Co	mpieted	1 vveii 413		- 3 3	Feet		*May	not be re	epres	entative	of a we	ll's long te	rm yie	eld.
19 57				Cas	ings				41 20				Annul	ar Ma	nterial
		Borehole Diameter		Mate	rial	Wall	Outside	Scree				th from		-	
Feet	to Feet	(Inches)	5 - 20°			(inches)	Diameter (Inches)	Type	if A	Any hes)		rface to Feet	Fil	ı	Description
120	140	17.5	Screen	PVC Sch. 80	)	.214	5		0.05		315	330	Bentonite	)	Seal
	1		- Chev-	<u> </u>		L					330	335	Fill		Sand
· · · · · · · · · · · · · · · · · · ·	<del> </del>	.40	3/4				ļ				335	415	Filter Pac	k	8x16 Midcal
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								<u> </u>							
		Attachi	ments		I tha up	1						tement			
	Geologic L Well Const		Digaram	P. C.	Name _	dersigned Baker <u>sfie</u>	d, certify the	iat this rep & Pump (	port is coi Co.	mplet	e and a	ccurate t	o the besi	of my	knowledge and belief
	Geophysic		•				Firm or Corpo			Dale			_	A	0000
		• •	cal Analyses				Address . N			ваке	rsfield City	у	St	A _	93308 Zip
	Other			Secondarian property of the secondarian secondarian secondarian secondarian secondarian secondarian secondaria	Signed	<u>Lei</u>		eul	**************************************	with the contract of the contr		8/20/2	010 4	4053	7
Attach add	ditional Informa	ation, if it e	xists.	,	il.	C-57 Lice	ensed Water '	vvell Contrac	tor			Date Si	aned C	.57 Liz	cense Number

DWR 188 REV. 1/2006

D'IGINAL Pile with DWR

# THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Nº 195799

State Well No	
Other Well No.	

Local		TC # 1	13098	701			Des Control Co
OW OW	NER:						(11) WELL LOG:
Name							Total depth 673' It. Depth of completed well 630' It.
Address	- 1						Formation: Describe by color, character, size of material, and structure
	Yuc	aipa,	Cali	fornia	92399		ft. to
(2) LO		V OF W					
		nardi		wner's number.	if any 21	A	0'-50' Conductor
				Sectio			50'-80' Coarse sand, fine gravel
Distance from	n cities, road	r. railroads, e	. 1,0	00 FT.	N. of	Ave.	80'-109' Sand
E., 6	00' E	.of l	4th S	t.			109'-115' Gray clay, fine gravel
		WORK					115'-125' Brown clay, coarse sand
New Well		pening [		ditioning [	Destroying	П	125'-132'Sticky brown clay &sand
				re in Item 11.			132'-135' Coarse sand
		USE (			(5) EQUI	PMENT:	135'-173' Sticky brown clay, sand, grave
		ustrial [			Rotary	[2]	173'-175' Sand & little clay
		t Well		her	Cable	Ä	175'-180' Sand & gravel, with clay strea
Pario			, ,,,		Other	ă	180'-183' Sticky clay & coarse sand
(6) CA	SING T	NSTALL	ED:				183'-190' Sticky clay, fine sand & silt
	EL: X			If	gravel pack	ced	190'-192' Loose clay, fine & coarse sand
SINGLE		OTHE	W:		Yes		192'-200' Sticky brown clay, & sand
-Index [	2000						200'-215' Coarse sand, loose clay, & grave
	1		Gage	Diameter	Near	To	215'-225' Sticky brown clay, sand& gravel
From	l'o	Diam.	Wall	of Bore	From ft.	fi.	225'-239' Coarse sand & loose clay
0	630	16"	5/16	26"	50	630	239'-250' Sticky clay, sand, & gravel
	030	10	3/10	20	1 30	_030_	250'-258' Coarse sand & loose clay
							258'-308' Coarse sand & gravel
		-		Size of gravel	1	7	308'-346' Sticky clay & coarse sand
_	r well ring:		-	21/6 D) ELIVE	4_X	7 mix	346'-353' Sand & small fragmented gravel
Describe join		CIONIC (	OP CCE	EENI.			353'-547' Coarse sand, sticky clay, grav
		rions (	JR SCR	EEI4:			547'-560' Coarse sand, gravel, white quar
Type of perio	ration or har	ne of screen		-			560'-590' Coarse sand & gravel, little c
-2			Perf.	Rows		HClu	590'-673' Coarse sand, little or no clay
From		t.	per row	ft.		ize x in.	
400			14.0		373		gravel very firm
100		-					
	-				-1		
-	-				-1		
	-	-					
		CMY CAY			_		
0. 6		CTION:	V	-		50 6	
		provided?	21	0.000	v		
Were any str.		inst pollution		No 🗵	II yrs, hote c	depth of strata	
h rum	fi.	to	tr.				3-10 to 87 Completed 5-8 to 87
Frum	le.		11:				Work started 5 25 19 57 , Completed 19
Method of se	line C	oncre	Le				WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best
(9) WA	TER L	EVELS:					of my knowledge and belief.
Depth at wh	ich water wa	is first found	. If known		h.		NAME McCalla Bros.
Standing lev	l before per	forating, if	known	2701	it.		NAME ITCCALLA DIOS.  (Person, firm, or corporation) (Typed or printed)
Standing levi	after perfe	erating and d	eveloping	270'	16.		one Novada Street Redlands, Ca.
	ELL TE						1134140
Was pump se	t made? Ye	No No	C) 11	yes, by whom?			S
Yield: 15	00 "	l./min. with	861	fr. drawdow	nafter 65	to hre.	[SIGNED] Fill. / recession
mperature	of water		Was a chemic	al analysis made	YO IX N	lo 🗖	(Well Doller)
le electric	og made of w	vell? Yes 🕅			trach copy		License No.C-57196824 Dated July 10, 1987

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0-50'
              Conductor
 50-80'
              Coarse sand and fine gravel
80-109'
              Sand no clays
109-115
              Gray clay ( loose ) and fine gravel
              Brown clay ( loose ) coarse sand 70% fine gravel
115-125'
125-132'
              Sticky brown clay and sand
132-135'
              Sand (coarse) very loose clay (4')
135-148'
              Sticky brown clay sand and gravel ( rough drilling )
              Sticky brown clay some sand and fine gravel, firm spots
148-173'
173-175'
              Sand little clay
175-180'
              Sand and gravel with clay streaks
180-183'
              Sticky brown clay and coarse sand
183-190'
              Very sticky clay and fine sand and silt, some gravel.
190-192'
              Loose clay, fine and coarse sand
              Very sticky brown clay and sand, some small gravel
192-200'
200-215'
              Coarse sand and loose clay, some gravel
215-225'
              Sticky brown clay, sand, and gravel
225-239'
              Coarse sand and loose clay
239-250'
              Sticky clay sand and gravel (fragmented)
250-258'
              Coarse sand and loose clay
258-280'
              Coarse sand and fine gravel, little clay
280-283'
              Coarse sand and gravel, increase in sticky clay
              Coarse sand and gravel, very loose clay
283-3081
              Sticky clay and coarse sand
308-338
338-341'
              Very sticky clay, some sand and gravel
341-346'
              Sticky clay and coarse sand
              Sand and small fragmented gravel, little clay
346-353'
              Coarse sand, very uniform and clay, some gravel.
353-370'
              Increase in clay, very sticky
370-3931
              Very sticky clay, some sand and gravel (40%)
393-409'
409-435
              Sticky sand and clay
              Sticky loose sand, clay, and gravel
435-445
445-470'
              Loose clay and coarse sand (80%)
470-473'
              Sticky clay, sand, and gravel
473-481
              Coarse sand and gravel, loose clay
              Very tight sticky clay and coarse sand
481-485'
              Clay and coarse sand (clay is loose and sticky)
485-494'
              Coarse sand fragmented gravel, some clay
494-545
              Coarse sand, gravel, (fragged) sticky clay
545-547'
              Coarse sand gravel little loose clay, a lot of very fragged
547-560
              white quartz
              Coarse sand and gravel, little clay, very rough drilling
560-566
              very tight.
              Sticky clay coarse sand and fragmented gravel
566-578'
              Loose sticky clay coarse sand and gravel
578-583'
              Coarse sand, some gravel (fine) loose sticky clay '
583-587'
              Coarse sand, spotty gravels, tight sticky clay
587-590'
              Coarse uniform sand and loose clay (20%) fine fragmented gravels
590-608'
              Coarse uniform sand, sticky clay little gravel
608-648'
              Coarse sand (uniform) little or no clay, very firm
648-673
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WHITC WENZA STATE OF CALIFORNIA THE RESOURCES AGENC

aw-4G3 Do Not Fill In

# DEPARTMENT OF WATER RESOURCES

Nº 195798 WATER WELL DRILLERS REPORT State Well No. Local Permit # 03098701 Other Well No. (1) OWNER: (11) WELL LOG: Name 6731 Total depth in. Depth of completed well 6301 Address Formation: Describe by rolor, character, size of material, and structure Yucaipa, California 92399 ft. tn (2) LOCATION OF WELL: County San Bernardino 0'-50' Conductor Owner's number, if any Township, Range, and Section 2S, 2W, Section 4 50'-80' Coarse sand, fine gravel Discance from cities, roads, railroads, etc. 1,000 FT. N. of Ave. 80'-109' Sand -E., 600' E.of 14th St. 109'-115' Gray clay, fine gravel (3) TYPE OF WORK (check): 115'-125' Brown clay, coarse sand New Well Deepening [ 125'-132'Sticky brown clay &sand Reconditioning [ Destroying [ If destruction, describe material and procedure in Item 11. 132'-135' Coarse sand (4) PROPOSED USE (check): 135'-173' (5) EQUIPMENT: Sticky brown clay, sand, Domestic [ Industrial [ Municipal & gravel 173'-175' Rotary A Sand & little clay Irrigation | Test Well | Other | Cable 175'-180' Sand & gravel, with clay streaks Other 180'-183' Sticky clay & coarse sand (6) CASING INSTALLED. 183'-190' Sticky clay, fine sand & silt STEEL: X OTHER: If gravel packed Loose clay, fine & coarse sand 190'-192' SINGLE DOUBLE T 192'-200' Yes Sticky brown clay,& sand Coarse sand, loose clay, & gravel 200'-215' Gage Diameter Froin Sticky brown clay, sand& gravel or Wall From 215'-225' Ir. ft. Bore fi. 225'-239' Coarse sand & loose clav 0 630 76" 5/16 26" 50 630 2391-2501 Sticky clay, sand, & gravel 2501-2581 Coarse sand & loose clay 2581-3081 Coarse sand & gravel size of shoe or well ring: Size of Beavel 3081-3461 Sticky clay & coarse sand Describe joint 3461-3531 Sand & small fragmented gravel (7) PERFORATIONS OR SCREEN: Coarse sand, sticky clay, gravel 3531-5471 Type of perioration or name of screen 547'-560' Coarse sand, gravel, white quartz 560'-590' Coarse sand & gravel, little cla Perf. Rows From To DCI 590'-673' Coarse sand, little or no clay & Size ft. row žt. in. x in. 400 620 gravel very firm 3/32 (8) CONSTRUCTION: Was a surface samitary seal provided? Yes W No 🗆 To what depth 50 Were any serves seeded against pollution? Yes [ No R If yes, note depth of strate ft. to From fr. ro From Work started 3-10 15 87 . Completed Concrete Method of sealing WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best (9) WATER LEVELS: of my knowledge and belief. Depth at which water was first found, if known Standing level before perforating, if known McCalla Bros. NAME Standing level after perforating and developing 270 1 (Person, firm, or corporation) (Typed or printed) (10) WELL TESTS: 802 Nevada Street, Redlands, Ca. Address Was pump sest made? Yes A No 🗆 Hyo, by whom? McCalla Bros. Yield: 1500 sal./min. with 81 1 it. drawdown after 65+ how [SIGNED] the rest Was a chemical analysis made? Yes [2] Well Driller) electric log made of well? Yes 2 No [ If yes, attach copy License NoC-57196824

SKETCH LOCATION OF WELL ON REVERSE SIDE

Dated\_July 10,

	0-50'	Conductor	
	50-80'	Coarse sand and fine gravel	
	80-109'	Sand no clays	
	109-115	Gray clay ( loose ) and fine gravel	
	115-125'	Brown clay (loose) coarse sand 70% fine gravel	
	125-132'	Sticky brown clay and sand	
	132-135'	Sand ( coarse ) your loose also (41)	
	135-148'	Sand (coarse) very loose clay (4')	
	148-173'	Sticky brown clay sand and gravel (rough drilling)	
	173-175'	Sticky brown clay some sand and fine gravel, firm spots	
	175-180	Sand little clay	
	180-183'	Sand and gravel with clay streaks	
	183-190'	Sticky brown clay and coarse sand	
		Very sticky clay and fine sand and silt, some gravel.	
	190-192'	Loose clay, fine and coarse sand	
	192-2001	Very sticky brown clay and sand, some small gravel	
	200-215'	Coarse sand and loose clay, some gravel	
	215-225	Sticky brown clay, sand, and gravel	
	225-239'	Coarse sand and loose clay	
	239-250'	Sticky clay sand and gravel (fragmented)	
	250-258'	Coarse sand and loose clay	
	258-280'	Coarse sand and fine gravel , little clay	
	280-283'	Coarse sand and gravel, increase in sticky clay	
	283-308'	Coarse sand and gravel, very loose clay	
	308-338'	Sticky clay and coarse sand	
	338-341'	Very sticky clay, some sand and gravel	
	341-346'	Sticky clay and coarse sand	
	346-353'	Sand and small fragmented gravel, little clay	
	353-370'	Coarse sand, very uniform and clay, some gravel.	
	370-3931	Increase in clay, very sticky	
	393-409'	Very sticky clay, some sand and gravel (40%)	
	409-435	Sticky sand and clay	
	435-445'	Sticky loose sand, clay, and gravel	
	445-470'	Loose clay and coarse sand (80%)	
- 3	470-473'	Sticky clay, sand, and gravel	7.
Н	473-481'	Coarse sand and gravel, loose clay	1.
	481-485'	Very tight sticky clay and coarse sand	
	485-494'	Clay and coarse sand (clay is loose and sticky)	
	494-545'	Coarse sand fragmented gravel, some clay	
1	545-547'	Coarse sand, gravel, (fragged) sticky clay	
1	547-560'	Coarse sand gravel little loose clay, a lot of very fragged	
		white quartz	
1	560-566'	Coarse sand and gravel, little clay, very rough drilling	
		very tight.	
1	566-5781	Sticky clay coarse sand and fragmented gravel	
	578-583'	Loose sticky clay coarse sand and gravel	
	583-587'	Coarse sand some arrangl (final language)	
	587-590'	Coarse sand, some gravel (fine) loose sticky clay	
	590-608'	Coarse sand, spotty gravels, tight sticky clay	
		Coarse uniform sand and loose clay (20%) fine fragmented gra	avels
	548-673	Coarse uniform sand, sticky clay little gravel	
1.4	24 013	Coarse sand (uniform) little or no clay, very firm	



### County of self-definition — Environmental Public Works Agency ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

385 Non rrowhead Avenue - San Bernardino, CA 924' 160

lon	rrowhead Avenue - San Bernardino, CA 924"	160	Do Not Fill In
	AUC ACCUSED		it No. 03098

PLEASE PRINT:	Permit No. <u>0009870/</u> Expiration  FF  FA  SN
1. OWNER: Name	Items 6 through 10 to be estimated for new wells, and exact for all other wells.   6. ANNULAR SEAL: Depth
Phone No. 790 – 1901  2. DATE OF WORK (approximate):  Start Complete	7. DERTH OF WELL (feet):  Proposed 650 Existing  DIAMETER OF BORE (in.): 24 ~ 26  8. CASING INSTALLED:
3. WELL DRILLER (Check One):  ☐ Owner ☐ Contractor	From (ft.) To (ft.) Dia. (in.) Wall (Gage)    GRAVEL PACK:   Yes   No
	From 50 to 650 ft.  9. PERFORATIONS (if applicable): From 400 to 650 ft.
TYPE OF WORK (check):  New Reconstruction Destruction  PUCALPA GLU SECTION MAP	10. SEALED ZONES (if applicable):  From to t.  11. GENERAL LOCATION MAP: PG-30 - GE  DUNLAP RANCH SUBJU  (a) Sketch location of well, name(s) and location of road(s) on section map.
NW 14 MINNE SOTA NE 12 DII WELL 3 Lot 100 X 130'	(b) Township 25 N/S Range 2W E/W Section 4 (c) Assessor's Parcel No. 301-091-03 (d) Solid or liquid waste disposal site within two miles?    Yes   No
AUZ E (ARIZONA)	02000000
SE V	PATE 03018 2 2 MOUNT 170 00 C 2 PAID  PAID

SENVIRONMENTAL HEALTH SERVICES DEPARTMENT
385 North ownead Avenue - San Bernardino, CA 92415

### WELL PERMIT

T.
Do Not Fill In
Permit No.0302870/
Expiration 77111, 2, 1988
FF
FASN
314
be estimated for new wells, and
Depth ft
Owner   Contractor
ia. 10 in., Wall (Gage)
N/A Till
N/A Thickness NA in
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Existing 472
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□ Other
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(ft.) Dia. (in.) Wall (Gage)
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Yes D-No
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MAP:
of well, name(s) andllocation of road(s)
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N/S Range 2 W E/W
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ste disposal site within two miles?
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o Not Fill In
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(2) (87

PLEASE PRINT:		FF
OWNER: Name _ Mailing _ Address _		Items 6 through 10 to be estimated for new wells, and exact for all other wells.  6. ANNULAR SEAL: Denth
+ *	1)FLC=3 21p 92399	2000
2. DATE OF WORK (approx.		7. DEPTH OF WELL (feet):  Proposed Existing
3. WELL DRILLER (Check C	One):	8 CASING INSTALLED:    Steel
☐ Individual [	☐ Industrial ☐ Test ☐ Other ☐ Horizontal	GRAVEL PACK: D Yes D No  From N/A to N/A ft.  9. PERFORATIONS (if applicable):  From N/A to N/A ft.
TYPE OF WORK (check):  New  Recons  VUCAIPA BLUD SECT	7 Destruction	10. SEALED ZONES (if applicable):
NW 1/4	NE N (Du	(a) Sketch location of well, name(s) and location of road on section map.  (b) Township A N/S Range 2 W E/W Section 4 (c) Assessor's Parcel No. 30109103
AVE E!	2 will	(d) Solid or liquid waste disposal site within two miles?  ☐ Yes
SW 1/2	1474 186/ 188/ 188/ 188/ 188/ 188/ 188/ 188/	Fee Stamp  Do Not Fill In  Date Stamp  Fee Exempt  Rec a 3(2/87)
		Rec'd 3/2/87

Continue on Reverse Side

	100'	North	ĭ			~		
	1	NOTE			9			
			!		12.	PLOT PLAN:		
_ —			L			(a) In perspective label the following other wells (included disposal systems (see a section of the section of	e to the well site, sk items: well lot prope de abandoned wells) sewers, septic tanks, cesspools), lakes an	sewa
	į	Well Site				(b) Indicate the o	distance in feet, of ar within 200 ft. of the	ny of
		30'-7	New our	ell 15		Other wells Sewers Septic tanks Leaching fields Seepage pits Cesspools Lakes and pone Water courses Animals or		
	1		i	1		fowl kept		
		- 1	1					
I have	read this applications.	n and agree to co	omply with all	laws regulating t	he type of w	ork being as t	1	-
	read this applications Workers' Compension Certify that in the become subject to Dwner's Signature	the Workers' Co	omply with all as a prerequisi the work for ampensation la	laws regulating to te to permit issue which this permit ws of California.	he type of w ance unless t t is issued, I	shall not employ an	y person in any mann	or Coc
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West		Well Site				Othe Sewe Septi	r wells 50 ers ic tanks	-Abambon	el per Ba
100'				i 		Seep:	hing fields age pits pools and ponds		
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0-50 conductor 235-255 My rough 30'80' coarse sand and fine gravel 258-270 Noticy 80'-109' sand no clays. 109-115' gray clay (loose) & fine gravel 115-125 Sideon clay (loose) coarse sand 70% fine qui 125 132 sticky broken clay of sand 10.350'0' 24 630 44'0" 132-135 sand (coarse) very loose clay D.C. 135-148 sticky brown clay and & gravel Slough driller 11.3717 1161 21'7" 148-173 sticky brown clay seme sand of fine gravel 17'3" 12. 393'2" 133'4" 173-175 sand & little clay 21'8 21'7" のはサス 175-180 sand & gravel with clay streaks. 15411 180-183 sticky brown clay & codise sand. static 273 21:3" 14. 436'5" 183-190 renfriticky clay & fine sand & sill some gravel. 1176 7" 190-192 Mare eldis fine of course sand. 192-200, vij sticky biewon clay of and some engel grand 15. 458 0 198'2" 200 -215 coarse sand & lower clay some grand 16.479'8" 21' 7' 215-25 sticky Lower clay & whole & great. 219'7" 235-239 coalse sand of loose day 2117" 17.501'4" 239 250 sticky clay sand & gradel fragmented 5. 2414" 250-258 cake sand of look clay 18. 522'11 258-280 coarse sand of finigrande little clay 25'5" 6 263'7" 280-283 coarse sand of y avel increase junticky clay 21 7" 283-308 coarse sand & gravel very loose clay 7. 285 4" 308-338 sticky clay & LARICE SANCOL 20,565' 10" 338-341 VERy sticky clay some sand of gravel. 341-346; sticky clay & codise sand 8.30610 217 346-353 sand & small fragmented years, little clay 9,328 5" 353-370 warse sand very liniform & clay some gravel. 21'7" 370-393 increase in clay why sticky 22.608 0" 0 3500 392 - ADDRIVEN Ship class sound & gravel

445 470 loase clay of loanse sand (80%) 470-473 sticky day and & navel 473-481 coule strd & grabel love clay 481-485 very tight sticky clay & ware Land. 485-494 clay & course sand (Vay is loose & stick; 494-545 cracke and progrested brovel some clay 545-547 course sand marel (pageled) sticky clay. 547-560 warse and gravel little loose day. a lot of wery singard white guarde 30-566 rouse sand brill pare little day very weigh dilling way high! 54-573 tilky clay crave sand and fragmented 573-583 love sticky clay soone gard & gard 583 - 180 course spiral Some marel (fine) love ticky clay +84. 590 cause sand yoth gravels tight striky clare 590 -508 course uniform Band and last clay 8% fine flagmented gravels. 608-648 could unform gond theky day little gravel 5-3-673 cur'd Land uniform wille of the

INVESTIGATION

South Coastal Basin

DIVISION OF WATER RESOURCE DEPARTMENT OF PUBLIC WORKS

25/2W-3E!

NUMBER E-132j-

## WELL LOG

LOCAL DESIGNATION #5

	40				+ EOF			
LOCATION	501	S.	of	Ave.	D, ST on all th	3t.,	proj.	Loc. #18216F

S., Lot #40, Dunlap Sub. #2, Yucaipa. SKETCH 1930 1927 20" DIAMETER OF CASING\_ Clark McEwen SOURCE OF INFORMATION Redlands-Yucaipa Land Co. INSPECTED WHILE DRILLING SURFACE ELEVATION 2160 D.W.R.Map

DEPTH	BATTOM OF STRATUM	MATERIAL	THICKNESS FEET	% VOIDS	ABSOLUTE VOIDS FEET	TOTA		
1-122	W	Dry sand	50	122	1	PEET	FEET	
130	1 2 2 2	Dirty gravel	+a	.0	-		-	
137	1	Clay	10	.8	_		-	
152	0	Gravel	G/	15	_			
236 240		Sandy clay	30	CX4)	-		-	
240		Dirty gravel	40	A				
252 328 340	4	Fair gravel	7	12				
328		Sandy clay	Dry	74	-		_	
340	1	Gravel - extra good	91	14	-			
578	1	Clay and silt	ster	34				
388		Gravel	a de	10			-	
395	PI TO		fig.					
110		Dirty gravel Clay and gravel	de	η			1	
388 395 440 456		Gravel	10	45			2.	
456 466			D.	10				
172		Clay	Eq.	16	-		1	
478	200	Fair gravel	7 9	(0)				
500	4	Clay	5-	6			-	
505			92	13				
505 544		Clay MICF	ROFIL	MED	1.00		*	
500	1			35			3	
590			ta	4				
599		Clay	0	3			- 8	
		Perf 135-578	0.0				-	
		Perf 135-578  Pumps 90" - drawdown 90!				1 3 1		
		PERF. WITH 12" KNIFE					_	
		G HOLES TO A ROUND						
							-	
							-	
						-	-	

LOG OBTAINED BY\_

BER12 4.31 ISM CALIFORNIA STATE SOLUTING DEFICE

#### SOUTHERN CALIFORNIA EDISON COMPANY

APRIL 0, 1979

YUCAIPA, CA 92399

SUBJECT: HYDRAULIC TEST RESULTS - WELL 6
ACCT: 4-26-31-618-3080
LOTH & AVE "D"
DATE OF TEST: FEBRUARY 28,1979

IN ACCORDANCE WITH YOUR REQUEST, A TEST WAS MADE ON YOUR TURBINE WELL PUMP ON THE DATE LISTED ABOVE. IF YOU HAVE ANY QUESTIONS REGARDING THE TEST RESULTS WHICH FOLLOW, PLEASE CONTACT L. E. WILSON, 793-2712.

#### EQUIPMENT

PUMP: L&B NO: 26896 MOTOR: US 125.0 HP NO: 499075 METER: P229-204 TEST RESULTS

DISCHARGE PRESSURE, PSI STANDING WATER LEVEL, FT DRAWDOWN, FT	53.5 321.7 23.8
DISCHARGE HEAD, FI	123.6
PUMPING WASER LEVEL, FI	345.5
TOTAL HEAD, FT	469.1
CAPACITY, GPM	557.
GPM PER FT DRAWDOWN	23.4
ACRE FI PUMPED IN 24 HRS	2.466
KW INPUT TO MOTOR	106.3
HP INPUL TO MOTOR	142.5
MOTOR LOAD(%)	103.8
MEASURED SPEED OF PUMP. RPM	1775.0
KWH PER ACRE FI	1035.
OVERALL PLANT EFFICIENCY(%)	46.4
CUSTOMER'S METER.GPM	
DOGI SMEN O MEIER OPW	553

W. S. FRANKEN DISTRICT MANAGER

## V. TER WELL DRILLERS REPOL.

(Section: 7076, 7077, 7078, Water Code)

8

#### STATE OF CALIFORNIA

No Not Fill In No 100589 State Well No. 25/2W-5K1

Formation: Description: O ft. 4 7 55 133 151 165 175 242 248	690	151 165 175 242	Bi Bi Bi Bi Bi Bi Bi Bi	pth of completed well 690  it of material, and structure. lack adobe nite caleche rown clay rown sandy clay and ravel and and gravel rown sandy clay rown sandy clay ravel
Formation: Description: O ft. 4 7 55 133 151 165 175 242 248	ribe by	151 165 175 1242	Bi Bi Bi Bi Bi Bi Bi Bi	lack adobe hite caleche rown clay rown sandy clay and ravel and and gravel rown sandy clay
133 151 165 175 242 248		55 133 151 165 175 242	B. B. Will Br. Br. Br. See Br. Br. Br. Br. Br. Br. Br. Br.	lack adobe hite caleche rown clay rown sandy clay and ravel and and gravel rown sandy clay ravel
133 151 165 175 242 248		7 55 133 151 165 175 242	Will Br	nite caleche rown clay rown sandy clay and ravel and and gravel rown sandy clay ravel
55 133 151 165 175 242 248		55 133 151 165 175 242	Briggs Sa Briggs Gri	rown clay rown sandy clay and ravel and and gravel rown sandy clay ravel
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248				ravel streaks
		248.		rown sandy clay
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				ose gravel with clay
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360		548		lean coarse sand and
		-		ravel with streaks of
		-		emented gravel
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600		618	1.0	oose coarse sand-grave
		,		nd boulders
618		622		ight clay-gravel and
			bo	oulders
622		667		lean coarse sand-grave
667		600		nd boulders
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-		,		id boulders
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				- 11
				* * * *
Work started	.Tar	7. 76	19	64 Completed Mar. 31 19 6
		N. Salasa	Jack at	
				: urisdiction and this report is true to the best
my knowledge	and be	elief.		
NAME KII	_			
Address 32	229	1 Du	nla	p Blvd.
		EG F - TO Y		NO SERVICE AND DO THE PROPERTY OF THE PERSON
	/	2	17	and wanted
[SIGNED]	16	del	160	Well Driller
License Ivo.				Dated April 5 , 19 6
N A A	335 360 548 570 600 618 622 667 Vell DRILL This well usy knowledge NAME KI address 3	335 360 548 570 600 618 622 667 Well Driller's This well was driver by knowledge and by MAME KIRKL address 3229 Yuc Signed 168 icense No. 168 icense No. 168 icense No. 168	335 360  360 548  548 570  570 600  600 618  618 622  622 667  667 690  Work started Jan 16  Well Driller's STATE: This well was drilled undersy knowledge and belief.  WAME KIRKLAND  Address 32291 Dua  Yucaipa  Signed   168847  Inda 7-88 see Quin A sero	335 360 50 50 10 10 10 10 10 10 10 10 10 10 10 10 10

#10 WELL

This is Harold's Note.

Can't find till that

it was done

if was derive

IN" STREAM -12 FETT TO THE 205 330 Boules + 20 (14473.)) FED 72 NET 400-(12") 22 MAGES MON W 20 Ft (12") " FED 71 DUTTON 644 670 690'

HAS

TRIPLICATE STATE OF CALIFORNIA Owner's Copy WELL COMPLETION REPOR Page 1 of 1 Refer to Instruction Pamphlet STATE WELL NO./STATION NO. 469733 Owner's Well No. Date Work Began 4/23/97 8/97 Ended 7/3/97 403 LATITUDE Local Permit Agency San 04219701 Permit No. -Permit Date - GEOLOGIC LOG VERTICAL HORIZONTAL
DEPTH TO FIRST WATER 347 ORIENTATION ( ) \_(Ft.) BELOW SURFACE DEPTH FROM 92399 DESCRIPTION to Ft Describe material, grain size, color, etc. WELL LOCATION SAND & CBAY 50 Address YUCAIPA 50 1180 course sand & clay County SAN BERNARDINO 180: 210 COARSE SAND & CLAY 210 350 CLAY APN Book Township 25 Range ZW 350: 940 COARSE GRAVEL, SAND & SOME CLAY Section 960 940 SAND, GRAVEL & SMALL BOCKS Latitude Longitude\_ DEG. MIN. SEC. DEG. MIN. SEC. 960:1720 X ACTIVITY (=) LOCATION SKETCH - NORTH NEW WELL MODIFICATION/REPAIR Deepen WELL PARKEL Other (Specify) 16 TH DEC - 3 1997 DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG", PLANNED USE(S) (∠) MONITORING WATER SUPPLY Domestic X Public Irrigation \_ Industrial "TEST WELL" CATHODIC PROTEC TION OTHER (Specify) Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE. FLUID WATER DRILLING REVERSE ROTARE WATER LEVEL & YIELD OF COMPLETED WELL DEPTH OF STATOLY (Ft.) & DATE MEASURED PUMP 6/18/97 WATER LEVEL ESTIMATED YIELD (GPM) & TEST TYPE TEST LENGTH 51 (Hrs.) TOTAL DRAWDOWN 76 TOTAL DEPTH OF BORING 1720TOTAL DEPTH OF COMPLETED WELL 1710 (Feet) \* May not be representative of a well's long-term yield. CASING(S) ANNULAR MATERIAL DEPTH DEPTH BORE-FROM SURFACE FROM SURFACE TYPE ( ) HOLE GAUGE OR WALL THICKNESS INTERNAL SLOT SIZE DIA. SCREEN CON-DUCTOR FILL PIPE MATERIAL / BEN-DIAMETER IF ANY (Inches) (Inches) FILTER PACK GRADE MENT TONITE FILL Ft. (Inches) to (TYPE/SIZE) (×) (4) (1) 36 0 50 STEEL 30 3/8 300 X 705 0 26 STEEL 16 5/16 300 1710 4x10 .09009 705 1205 26 X 16 STEEL 5/16 1205 1210 24 STEEL 16x12 5/16 24 1210 1690 STEEL 12 5/16 090 1690 1710 24 STEEL 5/16 ATTACHMENTS (∠) CERTIFICATION STATEMENT I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. LAYNE CHRISTENSEN COMPANY Geologic Log NAME (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED) Well Construction Diagram Geophysical Log(s) 11001 ETIWANDA AVE. **FONTANA** 92337 CA Soil/Water Chemical Analyses ADDRESS-11-269-1 aleec 510011

WELL DRILLER/AUTHORIZED REPRESENTATIVE

ATTACH ADDITIONAL INFORMATION. IF IT EXISTS.

		-40	1	7 (	Short	1-1	1.											
TRIPLICATE			1	-	1/2/V -	457	OF CAL	IFOR	NIA	-	- DWR US	SEON	LY -	DON	OT FILL IN -			
Owner's Copy WELL COMPLET									V REPOS		1.1		1-1	1				
Page 1 of 1	age of Refer to Instruction											STATE	WELL I	NO./STA	TION NO.			
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Date Work began . , Ended								alt	h		LATITUD	E		L	ONGITUDE			
Local Permit Agency 301 20101										-	111	1 1	APN/TE	I I	1111			
Permit No				ogi	C LOG —	nit Date	,, -		10	5	- WELL	OWNE		I OTHE				
ORIENTATION (Z)	X.			J		ANGLE	/coroses	NI	ame \			100 10 1						
ORIENTATION (2) VERTICAL HORIZONTAL ANGLE (SPECIFY) DEPTH TO FIRST WATER (Ft.) BELOW SURFACE								1000	E-10 - 100									
DEPTH FROM SURFACE	DEPTH FROM							17	UCAT PAddress	114	3 1/1		CA	1	92399			
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960;1720	CLA		GKA	VEL	& SMALL	ROCKS	Sec.	Latitude NORTH Longitude										
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12.0	A CO	00	-1		2 1997				9		200.1	10			Acceptation 1 (1)			
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1	5.00	-	744.5	_	757	- 34					1971				_ CATHODIC PROTEC			
+ 1		_	10.00		7		7-9	Illi	ustrate or Describ	e Distan	ce of Well from	n Landr	narks	-	TION _ OTHER (Specify)			
1			-	-			4	such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.										
1		-	_	_		_		DRIL	LING REVER	CE D	TADD		t	IATE				
		-		_				MET	WATER I			OF	FLUID	ATE	D WITT T			
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TOTAL DEPTH OF E	BORING	172	0	(Fe	et)			TEO	T LENGTH 51	nus	(GPM) &	TEST T	YPE					
TOTAL DEPTH OF C				17	10 (Feet)			1	lay not be represe		) TOTAL DRA	WDOW		(	=t.)			
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DEPTH FROM SURFACE	BORE-				(	CASING(S)				DEPTH		ANNULAR MA			MATERIAL			
PROM SUMPACE	HOLE DIA.		YPE (2		MATERIAL	INTERNAL	GAUG	E	SLOT SIZE	FROI	M SURFACE	-	1 4 9 11 11	TY	PE			
Ft. to Ft.	(Inches)	BLANK	SCREEN CON-	FILL PIPE	MATERIAL/ GRADE	DIAMETER (Inches)	OR WA	LL	IF ANY	-	do neco	CE- MENT	BEN- TONITE	FILL	FILTER PACK			
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ATTACH	MENTS	(=	) —		Take made	antand is		_ (	CERTIFICAT	ION !	TATEMEN	IT —						
- Geologic L	100				I, the under	AYNE CH	RISTE	VSFI	Y COMPANY	te and	accurate to	the bes	t of m	y know	ledge and belief.			
- Well Cons		agram			MARKE	ON, FIRM, OR C												
Geophysic					1100	1 ETIWA	NDA A	VE.	on rainteu)		FONTANA	1	1	CA	92337			
Soil/Wate	r Chemical	Anal	yses		ADDRESS		-	-	104		CITY			STATE	ZIP			
Other		-77			1 4	Ja Gra	JO.	1	CHL.		w()	11-5	69	7	*			
ATTACH ADDITIONAL IN	-					DRILLER/AUTHO						ATE SIGN		1	510011 C-S7 LICENSE NUMBER			
WR 188 REV. 7-90   (7)	0-1	IF.	ADDIT	ION	AL SPACE IS.	NEEDED, U	SE NEXT	COL	NSECUTIVELY	NUMB			. 1-		10 11			

San Bernardino County Department of Public Health DIVISION OF ENVIRONMENTAL HEALTH SERVICES 385 North Arrowhead Avenue, San Bernardino, CA 92415-0160

387-4646 4666 mike Ford

Permit Number 1998080117  Expiration 8-25-99  FF  FA  SN		PERMIT RECEIVED AUG 3 3 1983	Amount \$ 3 Receipt Numb	ber 14039 The Christons	
1. OWNER: Name.  Mailing Address.  City Yucaira, ca. 92399  Site Address  City Yucaira  Telephone Number (909) 796-19	Zip 92399	Items 6 through 10 to 5. ANNULAR SEAL Furnished by: Condi	Owner Fuctor Dia. 30 rial Concu	Seal Depth Seal Depth Contractor Y35 in., Wall	for all other we 30 c 1
2. WELL DRILLER: LayNe Christer Business Name  Sept 1998		7. CASING INSTAL  Steel  From (ft.)	LED:	Other Dia. (in.)	Wall (Gag
3. WELL USE (check):  Community  Horizontal  Monitoring  Public Water Supply  TYPE OF WORK (check):	☐ Test☐ Dairy☐ Other	Gravel Pack: 5 From 300'  8', PERFORATIONS From 390'	(if applicable):	90' ft.	40' LBN
Reconstruction  RECTION MAP - DO NOT FILL IN  SC  YUCATPA	Destruction  ale: 1 inch = 1/4 mile	10. LOCATION INFOR	to 30 RMATION: 30 649 N/S Range	20 11. -E6 9-D4 2w_E/W S	
ARIZONA AVE.	AVE E")	(c) Latitude and (Pack 3) Lat: Long:  (d) Solid or Liquic	Longitude Pare 7)  Observation of the control of th	-II = -ory	" N/S
SW 1/4 SE	1/4	Seal Cap Check Valve Electricals Slab Tag Building & Safety	-		

25/2W- 4L

File Or	iginal wit	h DWR		and dampid	io diis io		State of Ca		ased to comp	lete, save,				
D	1							ion Rep	ort		Di	WR Use Or	nly – Do	Not Fill In
Page	s Well N	_	1/1			Re	fer to instruction	n Pamphlet	200		St	Id IfaW at	Imbos/E	ite Number
			27/2006	Dal	- 107		o. e05463	36		Li	1 1	I N	mber/S	ite Number
			San Bernardin	O Departme	e vvork	Ended 1/2	29/200/	_			Latitude			Longitude
Permit	Number,	2006	111150	Permit E	ate 1	1/29/06	illai risali	1		1	1	APN/	TRS/Oti	her.
		-		logic Log	7 17 10				- '	-	34/ 1			THE STATE OF THE S
0	rientatio	п (9)		orizontal	OAn	ale Spe	cify				Wel	1 Owner	-	
Drillin	g Method	Revers	e Circulation Rota	ry		g Fluid Be		- Name						-
	h from S			De	scriptio	n	-		g Address ,					
O Fee	t to 40	reet	Top soil, sar	escribe materia	I, grain s	ize, color, e	ic	City_I	'ucaipa					Zip <u>92399</u>
40	70		Sand and gr					-				Locatio	п	
70	130		Sand, grave		clay		_		ss <u>32419</u>					
130	150	-	Sand and cla		ciay.			City Y	ucaipa			Co	unty_S	San Bernardino
150	195	5	Sand, clay a			-	_	Latitud	Deq.	Min	Dais	N Longit	ude _	w
195	230	)	Fine sand ar					Datum	Deu.	Decimal	Sec.		Dac	Dec. Min. Sec.
230	275	5	Fine sand, c		vel			APN B	look <u>0301</u>	Page	132		_ Doc	ol 85
275	309	)	Fine sand, a					Towns	hip 2S	Rang	e 2 W			ion 4
309	340	)	Black sand a					1		tion Ske			Secil	
340	390	)-1	Consolidated					(Sketch	h must be draw	n by hand a	fter form is	printed.)	(O) N	Activity lew Well
390	425		Sand and gr	avel.				1=	1	North	-		ON	Modification/Repair
425	450	)	Sand, gravel	and some	clay.				Av	Enue	D			O Deepen O Other
450	480		Sand.				0.1	11			-	70 Y	OD	Destrov
480	515		Cemented sa	and.				71	Vi		1	\$ N	T.	Describe procedures and materials under "GEOLOGIC LOG"
515	540		Sand and gra	avel.				71	_5		1	-	10	Planned Uses
540	575	_	Sand, gravel						15 S		- 1	14th	10 V	Vater Supply
575	605		Consolidated						- Aye	nue 1	E			Domestic Public
605	640		Sand and gra					- Mest		00		East as		Imigation Industrial
640	685		Sand, gravel		clay.			71	1	B	1			Cathodic Protection
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715	760		Sand.					]	1		1	)	Oi	njection
760	795		Sand and gra										ON	Monitoring
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813	845		Sand and gra						I INCA	TUCKY	27	-	OS	Sparging
845 881	910		Cemented sa		7.77			1		South				est Well /apor Extraction
910	964		Coarse sand		d clay.				oescribe distance and attach a map, accurate and com		vads, building Il paper if ner	s, lences, cassary.	00	Other
964	1,03	20	Coarse sand Gravel, coars						Level and	ibitath!	of Com	mints of t		
1030 -	1,09	_	1						to first water		JI COM	pieten v		
1090	1,12		Gravel, sand Granite, mos		_			Depth t	to Static				_ (Fee	et below surface)
	Depth of E	_	1120			F			Level 320		(Fee	et) Date	Measi	ured 01/29/2007
15.7					_	Feet			ted Yield * ength 16.0		(GP	M) Test	Type !	Constant Rate
I otal L	epth of t	Comple	eted Well 1100			Feet			ot be repres		of a wo	urs) Tota	Drawo	down 66 (Feet)
				Cas	ings					I	or a we			
	h from rface	Borel		Mate		Wall	Outside	Screen	Slot Size	Dept	h from	Aunu	lar Ma	ite/lal
	to Feet	(Inch				Thicknes (Inches)		Type	if Any (Inches)		riace to Feet	Fi	H	Description
0	50	42	Conductor	Low Carbon	Steel	.3125	j30		(missies)	0	50	Cement		110.5 sack
0	410	26	Blank	Low Carbon		.3125	16			0	300	Cement	_	10.5 sack
410	1,090	26	Screen	Low Carbon		.3125	16	Louver	0.050	300	1,100	Filter Pa	ck	Tacna 8x20
1,090	1,100	26	Blank	Low Carbon	Steel	.3125	16							
	t.													
		Adda	-h	1			_			<u> </u>	-			
	Geologic		hments		1.000	ne at a ve feet	J - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Certificat	ion Stat	tement			
			on Diagram		Name	Lavne C	a, certify the	at this repo n Compan	π is comple V	te and a	ocurate f	to the bes	t of my	y knowledge and belief
百	Geophys	sical Lo	g(s)	1		Person	Firm or Corpo	ration	2011					
	Soll/Wat		mical Analyses	i		)	da Avenu Aodress	- (	_ Fon	tana City	,		DA State	92337
	Other	matter to	Nastas		Signe		としてに	-			5-8-20		51001	Zip 1
	fitional Information REV. 1/200		II EXISIS.		IP A Medica	C-57 LI	censed Water	Well Contractor	Date of the		Date S			cense Number

23111

WELL Lo. 14

San Bernardino County Department of Public Health DIVISION OF ENVIRONMENTAL HEALTH SERVICES

385 North Arrowhead Avenue - 2nd Floor, San Bernardino, CA 92415-0160 WP 337/ DO NOT FILL IN
Permit Number 2006 11 1/50 \* Deeds Mesiter Expiration \_05-29-07 WELL PERMIT 11-29-06 Preside o.K Hadeb Dif Amo-mt S Receipt Number 59738 Paid by LA-YINE CHTUS TELLEN Owner's Well No. 1. OWNER: Name Items 6 through 9 to be estimated for new wells, exact for all other wells 5. ANNUALAR SEAL: Seal Depth 50 Malling Address Furnished by: Owner & Contractor
Driven Conductor Dia. 30 in., Wall (Gage) . 375
Sealing Material 10.54auk . Thickness 6 in. Yuca:pa zip 92399 Site Address 32419 Ave E DEPTH OF WELL (feet): city Yucaipa zp 92399 Proposed 100 Existing DIAMETER OF BORE (in.): 26 Telephone Number (909) 790-1901 CASING INSTALLED: 2. WELL DHILLER: Layne Christensen Company Steel Plastic Other From (ft.) To (ft.) 11-27-2006 Wall (Gage) 2-27-2006 Start Date 3. WELL USE (check): Gravel Pack Yes No From 300 to 1100 ft. ☐ Agricultural ☐ Horizonial ☐ Test Cathodic Ind/Domestic ☐ Monitoring/Observation Dairy Other PERFORATIONS (if applicable): ☑ Community/PWS/City to 1/00 ft. 4. TYPE OF WORK (check): SEALED ZONES (if applicable): M New ☐ Reconstruction · ☐ Destruction From SECTION MAP - DO NOT FILL IN Scale 1 Inch - X mile 10. LOCATION INFORMATION YUGAIPA BLYD (a) Assessor's Parcel No. 0301132850000 (b) Consulting Firm & Project Number: MW | 150 NE S (c) Latitude and Longitude (If Known) Lono: 北 (d) Township: Tier Z NS Range 2 EW Section 4 Map Into 76# 849 04 AVE DO NOT FILL IN Seal Cap \_\_ Sid II Check Valve KENTUCIKY Electricals Slab Tag . Building & Safety Notified

The second second	
	o-so conductor
235-255 very rough	50'-80' waise sand and fine gravel
ALL 01 10" 258-120 Novel	WO TOT WINNING MANAGE
AC 21'11"	104-113 gray clay (lags) & Last grand
RC 27'3' 10 350'0" 25 (2011"	- The control ( well ( control ) charles charles 700/
10.5200	
RC 17'1" 11.371'7" 6513	1 32 133 Dand (CAMAI) along lange ale
116'1' 21'7" 21'6"	135-148 sticky brown clay and & gravel Slough drilling
MG 17'3" 12.393'2" 25 173'2"	148-173 sticky brown clay some sand of fine gravel
0 133.4 21.8	173-175 sand & lotte class
1 31'7" 13. 414'10" 0/6 #2	175-180 sand & gravel witch class atombe
1. 154'11' 21'7" 21'9" 14. 436'5" static 273	- 100 pucky project Class & course sand
3 110 01	- 100 190 Well which is have and did
21'74 15 453'6	- 12 ( Look May) \$114 & cheen it amen
3. 198'2" 198'8"	200 215 coarse sand & lower clay some grand
21'7' 16 479'8"	215-25 sticky Lower clay & and & grand.
4. 219'3" 21'8	and and house willing & look class
21'7" 17. 501'4"	239 250 sucky alwij sand & gracel (hammented)
· 5 241'4"	250 - EBLOUNE Dand of love clay
6,263'2" 21'6"	258-280 coarse sand of fine yard little cla;
21'7" 19 544'5"	283-308 coarse sand & gravel very loose clay
t. 285 4"	= 300 330 DUCKU CAU & LANIU AMAN
21'6" 30.565'10"	338-341 VERY sticky clay some sond & gravel. 341-346 sticky clay & course sand.
8.306'10" 21'7" - 21'7" 21,586 5	341-346 Suchy day & codine sand
9 328 5' 21' 7'	346-353 sand & small fragmented navel, little clay
21'7' 22.608'0"	353-370 warse sand very liniform & clay some gravel.
10 350'0 22' 1"	392-ADDRING still the same sand of gravel (40%)
	All the state of t

sticky loose clay sand of grave 445 470 loade clay of loanse sand (80%) 470-473 strky day sand & gavel 173-481 coule shird & grabel love clay 481-485 very tight sticky clay & ware band. 485-494 elle & course sand Vagi loose & stick; 494-545 crace sand progrested bravel some clay 545-547 coarse sand marel (pageted) sticky clay. 547-560 coarse sand gravel little loose day a lot of wery sugged white gunste 50-566 coars sand brill gard with day very weigh disting way hight 54-573 tily clay course sand and fragmenter 573-583 love still clay soone gard & jand 583 - 180 conce sorted Some your (fine) love ticky clay +84. 590 cross sand yout gravels tight striky class. 500 -508 course uniform Board and love lay fine fragmented gravels 608-648 could unform good sticky day little privel 5:3-673 cur's Egrid unijohn tille of the clay

TLX: 62933889 TWX: 510-601-5891

Los Angeles, Ca.

90004

OWNER \_

## Water Well Redevelopers, Inc.

(714) 996-1462 (714) 779-2425

WELL LOCATION 1/2 mile West of Oak Glen Rd.,

on Davies Ranch Rd.,

San Bernardino, Ca.

1365-B DYNAMICS STREET ANAHEIM, CALIFORNIA 92806

#### VIDEOLOG FIELD REPORT

WELL NO	6	TECHNICIAN BC UNIT NO. 1 DATE 4-1-88
WELL HISTO		
Casing:	6" 0' to 142'+	Perforations:25' to 142'+
		(Per VIDEOLOG)
Drilled .	1979 By Jack Jon	nes Type C-Tool Perf. Type Drilled Holes
Pump:	Type DWT Column 4" x 13	30' Bowls 4" x 8' Depth of Intake 138'
Remarks	s	Sophi of India
VIDEOLOG I	INFORMATION	
SWL_		ility Date4-1-88
Camera .		mat VHS Speed SP Make TDK
Videolog	X Revideo Reruns	PC Log to Dickinson Tage to Dickinson
REMARKS		PC Log to Dickinson Tape to Dickinson
8" steel of The highly	casing is visible from 0'	to 5', where a straight reduction to 6" PVC casing exist
	coots entering through per	
see /4 , 0	aterial can be seen enteri 36' and 100' to 200'. (Al era more rapidly ascends).	ing through perforations, when disturbed by the camera, so note excessive material being drawn into well bore
Dark stain	ns can be seen on casing a	djacent to where bowls setting 130' to 135'.
The casing	g appears clean and drille	ed perforations open throughout the survey (i.e., 5' to 1
Casing, re	eduction, joints and perfo	erations all appear clean and in normal condition.
The entran	nce of organics along with	specific capacity loss would indicate a coagulation

DUPLICATE Retain this copy

### WATER WELL DRILLERS REPORT

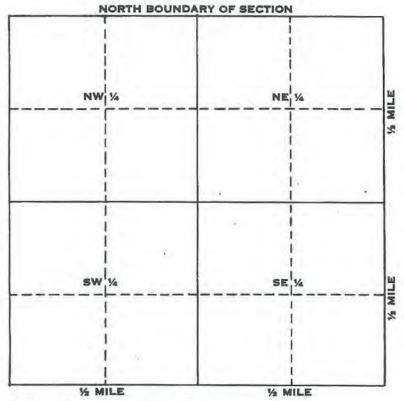
(Sections 7079, 7080, 7081, 7082, Water Code)

## THE RESOURCES AGENCY OF CALIFORNIA

Do Not Fill In

32912

(1) OWN	JER:	11-99	77.5		(11) WELL LOC:		_
100	42261	Valley			(11) WELL LOG:		
Name					Total depth 638 ft. Depth of completed well	638	ft.
Addres					Formation: Describe by color, character, size of material, and structure	23.4	- 11
					O ft. to	128	ft.
		F WELL:			Brown clay with sand and gravel		
County San			Owner's number,		128	190	
				R 2W 50c, 11	Loose gravel, seme brewn clay		
			F betwe	en 5th & 6th	190	284	
The Control of the Control	- Yucai				Brown clay, gravel and boulders		0 1
		RK (check	):-		284	386	PPW
New Well			ditioning [	Destroying [	Gravel and boulders, some brown	clay	660
		erial and proced			386	414	4.14
(4) PROP	POSED U	SE (check)	: (	5) EQUIPMENT:	Light brown clay with gravel emb	bebbe	
Domestic	Industri	al Munic		Rotary	414	430	
Irrigation	_ Test W	ell 🗌 O		Cable 🔻	Loose rough gravel		-
			- 1	Other	430	475	199
(6) CASI	NG INST	ALLED:			Hard tight gravel with trace of		lav av
STEEL	-1	OTHER:	If g	gravel packed	475	512	7/1
SINGLE	DOUBLE				Brown and gray clay with gravel		ed Ac
1	1	1 000	Diameter		512	563	10
From	То	or	of	From To	Rough gravel some g clay	-	has.
fe.		am. Wall	Bore	ft. ft.	563	613	prince
	14 16				Tough brown clay		Mare
6	38 16	5/16			613	619	- 10
					Gravel, some brown clay		100
Size of shoe or w		12x1" B1			619	638	_
Describe joint	All jo	ints but	t weld		Tough brown clay		
(7) PERF	ORATION	NS OR SCI					
Type of perforati	on or name of so	reen	Mills				
		Perf.	Rows				
From	To	per	per	Size			
ft.	ft.	tom	ft.	in. x in.	Bob lierrossr		
350	563	8	1	25 x 7/16"			_
613	625	8	1	23 x 7/16"			
							_
				Landa and T			-
		V		1			
(8) CONS	TRUCTION	ON:		1			
		ON:	0 To v	what depth 40 ft.			
Was a surface san	itary seal provid	ed? Yes N	o To v	what depth 40 ft.  If yes, note depth of strata			
Was a surface san	itary seal provid	ed? Yes N		nat depth It.			=
Was a surface san Were any strata se From	itary seal provid	ed? Yes N lution? Yes ft.	No 🏗	If yes, note depth of strats	Work started Jan. 14 67, Completed Mar. 2	1 . 196	7
Was a surface san Were any strata se From From	itary seal provid caled against poll ft. to	ed? Yes N lution? Yes ft.		If yes, note depth of strats	Work started Jan. 14 67, Completed Mar. 2 WELL DRILLER'S STATEMENT:	1, 196	7
Was a surface san Were any strata so From From Method of sealing	itary seal provid saled against poll fs. to fs. to	ed? Yes Nution? Yes ft.	install ng and f	If yet, note depth of strata  ed between  erration	WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this repo		
Was a surface san Were any strata so From From Method of sealing (9) WATI	ft. to  Concre  ER LEVE	ed? Yes Nution? Yes ft. ft. ft. LS: Casi	No [X	If yet, note depth of strata  ed between  erration			_
Was a surface san Were any strata se From Method of sealing (9) WATI Depth at which	ft. to  ft. to  CONCE  ER LEVE	ed? Yes No	install ng and f	If yes, note depth of strata  ed between  ermation  8 ft.	WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this repo		_
Were any strata so From From Method of sealing	itary seal provides aled against poll ft. to ft. to CONCY  ER LEVE! Water was first inforce perforating	ed? Yes K N lution? Yes ft. ft. ft.  St. Grout LS: Casi found, if known g, if known	install ng and f	If yes, note depth of strats  ed between  erms tion  8 ft.  8 ft.	WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this repo of my knowledge and belief.	ort is true	
Was a surface san Were any strata so From Method of sealing (9) WATI Depth at which standing level be	itary seal provides  fs. to  ft. to  CONCE  ER LEVE  Water was first  ifore perforating	ed? Yes Note Note of the state	installing and f	od between  oras tion  8 ft. 8 ft.	WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this repo of my knowledge and belief.  NAME KIRKLAND WELL SERVICE  (Person, firm, or corporation) (Typed or po	ort is true	_
Was a surface san Fere any strata se From Method of sealing (9) WATI Depth at which tanding level be tanding level af (10) WEL	itary seal provides  fs. to  ft. to  CONCE  ER LEVE  Water was first  ifore perforating	ed? Yes Note Note of the fet.  ft.  ft.  ft.  ft.  ft.  ft.  ft.	installing and f	od between  oraction  it.  if yes, note depth of strata	WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report of my knowledge and belief.  NAME KIRKLAND WELL SERVICE  (Person, firm, or corporation) (Typed or p.	ort is true	_
Was a surface san Vere any strata so from  from  dethod of sealing  (9) WATI Depth at which tanding level be tanding level af  10) WEL	itary seal provides aled against polification for to CONCE ER LEVE: Water was first inforce perforating ter perforating L TESTS:	ed? Yes No Nutrion? Yes 1 ft. ft. ft. ft. Casi found, if known s, if known and developing No 1 if	install ng and f	If yet, note depth of strats  ed between  ermation  8 ft.  8 ft.  8 ft.	WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report of my knowledge and belief.  NAME KIRKLAND WELL SERVICE  (Person, firm, or corporation) (Typed or produced by the service of the	ort is true	
Was a surface san Were any strata so From Method of sealing (9) WATI Depth at which itsanding level be itsanding level af (10) WEL	itary seal provide saled against polific to ft. to CONCY  ER LEVE water was first infore perforating ter perforating L TEST'S: side? Yes   gal./min.	ft.  ft.  ft.  ft.  ft.  ft.  ft.  ft.	installing and f	If yet, note depth of strats  ed between  ermation  8 ft.  8 ft.  8 ft.  by Chaper	WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report of my knowledge and belief.  NAME KIRKLAND WELL SERVICE  (Person, firm, or corporation) (Typed or post of the corporation) (Typed or post of the corporation) (Typed or post of the corporation) (Well Driller)	ort is true	_
Vas a surface san Vere any atrata so From  Section  Secti	itary seal provide saled against polific to ft. to CONCY  ER LEVE! Water was first infore perforating ter perforating L TESTS: side? Yes   gal./min.	ft.  ft.  ft.  ft.  ft.  ft.  ft.  ft.	install ng and f 30 30 30 be made yu, by whom? It. drawdown a	If yes, note depth of strats  ed between  eraction  8 fc.  8 fc.  by Chaper  ofter hrs.  Yes   No	WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report of my knowledge and belief.  NAME KIRKLAND WELL SERVICE  (Person, firm, or corporation) (Typed or produced by the service of the	ort is true	

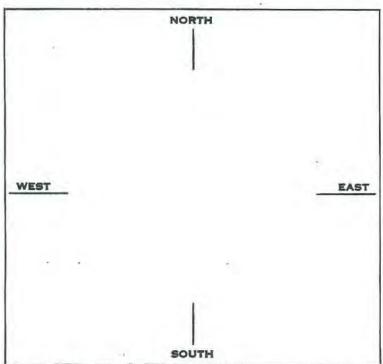


Township 28 N/S

Range F

Section No. 11

A. Location of well in sectionized areas. Sketch roads, railroads, streams, or other features as necessary.



B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

## YUCAIPA WATER COMPANY NO. 1 LOG OF WELL NO. 2 S.R. No. 36-01850

LOCATION: Avenue F, between Fifth and Sixth Streets  $NW_4^1$  of  $NE_4^1$ , Sect. 11, T2S, R2W, SBR:M

DRILLED BY: Unknown

YEAR: 1921

From To Material Clay & Gravel	
O 155' Clay & Gravel	
155' 172' Gravel No cuts	
172' 202' Clay & Gravel	
202' 240' Gravel	
240' 260' Boulders 512 cuts between	2251 & 2801
260' 289' Gravel	
289' 300' Clay & Gravel	
300' 315' Gravel 152 cuts	N.
315' 360' Clay & Gravel	
360' 378' Gravel llu cuts	
378' 398' Clay & Gravel	
398' 464' Gravel 320 cuts between	1 3981 & 4381
top of Starter	
Cuts are about 1/2' wide x	4" long,
and are made 8 per foot.	1

Standard Rig

## 5 /2W-36W DEPARTMENT OF PUBLIC HEALTH

(3) Number or Name Date drilled Date drilled Date drilled Jan. 24, 1946 Residential Size of lot Distance to: Sewer Sewage disposal Abandoned well. Nearest property line Condition Pit depth (if smy) Floor (material) Drainage (6) Well Depth Diameter Kind Height above floor. Distance to highest perforations Surface sealed (yet or mo) Second casing depth Second casing depth Second casing diameter Annular seal (depth)  (8) Impervious Strata: Thickness Penetrated Depth to Day Dyn. Depth Capacity, g.p.m. Capacity, g.p.m. Capacity, g.p.m. Discharge location Discharge to Cont. Discharge to Mains Discharg	Collected by	*** ( ****** ************ ** ******** **	Date 15 June 62
Date drilled   Gan. 24, 1946   Residential	(1) Number of Name	#5	
(4) Location: Neighborhood. Size of lot. Distance to: Sewer. Sewage disposal Abandoned well. Nearest property line (5) Housing: Type Condition. Pit depth (if sny) Floor (material) Drainage. (6) Well Depth (7) Casing: Depth Height above floor. Distance to highest perforations. Surface sealed (yet or no) Second casing dameter. Annular seal (depth) Second casing dameter. Annular seal (depth) (8) Impervious Strata: Thickness. Penetrated (Depth to. (9) Water Levels: Surface. Depth to Static. When Pumping. (1) Pump: Make. Type. D. W. Turbine Capacity, g.p.m. Lubrication. Discharge location. Discharge location. Discharge location. Discharge location. Discharge to. Mains  Control. Control. Discharge to. Mone Cespool or septic tank Metal Cesspool Metal Cesspool or septic tank Metal Concrete  Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop Concrete Jesop C			
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Nearest property line   Condition   Good   Good   None   Pit depth (if eny)   Concrete   Ploor (material)   Concrete   Yes   Drainage   Yes   So8'			
(5) Housing: Type Condition Condition Pit depth (If any) Floor (material) Drainage Yes (6) Well Depth So8 (7) Casing: Depth Diameter Life to 465 depth Kind Height above floor Surface sealed (yer or mo) Second casing dameter Annular seal (depth)  (8) Impervious Strata: {Thickness. Penetrated {Depth to Static When Pumping.  (9) Water Levels: Surface Capacity, g.p.m. Capacity, g.p.m. Type Capacity, g.p.m. Auxiliary power Control Discharge location Discharge location Discharge location Discharge location Discharge location Discharge location Discharge to  Monne Concrete Depth Soon Concrete Depth Soon Concrete Discharge location None Concrete Discharge location None Concrete Depth of 465 depth Steel-lo ga Double  4 "  Ves Steel-lo ga Double  4 "  Ves Steel-lo ga Double  4 "  Ves Steel-lo ga Double  A "  Depth Steel-lo ga Double  A "  Double  A "  Double  A "  Double A "  A "  Double A Steel-lo ga Double  A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A Steel-lo ga Double  A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A "  Double A Bowler Double Dou		erty line	
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Floor (material) Drainage Yes  (6) Well Depth  (7) Casing: Depth Diameter.  Elian to 465' Diameter.  Elian to 465' depth  Elian to 465'		None	
Drainage (6) Well Depth  (7) Casing: Depth		Concrete	V and
(7) Casing: Depth		Yes	
Diameter Rind Steel-10 ga Double  Height above floor. Distance to highest perforations Surface sealed (yes or no) Yes Gravel pack (yes or no) No Second casing depth Second casing diameter. Annular seal (depth)  (8) Impervious Strata: {Thickness. Penetrated Depth to.  (9) Water Levels: Surface. 251.9 Depth to Static. When Pumping.  (0) Pump: Make. Layne & Bowler Type. D.W. Turbine Capacity, g.p.m. 750 ' Lubrication 750 ' Lubrication 750 ' Discharge location. Above Ground Discharge to. Mains  1) Prequency of Use. Cont.			
Diameter Rind Steel-10 ga Double  Height above floor. Distance to highest perforations Surface sealed (yes or no) Yes Gravel pack (yes or no) No Second casing depth Second casing diameter. Annular seal (depth)  (8) Impervious Strata: {Thickness. Penetrated Depth to.  (9) Water Levels: Surface. 251.9 Depth to Static. When Pumping.  (0) Pump: Make. Layne & Bowler Type. D.W. Turbine Capacity, g.p.m. 750 ' Lubrication 750 ' Lubrication 750 ' Discharge location. Above Ground Discharge to. Mains  1) Prequency of Use. Cont.	(7) Carles Deal	1651	
Kind Height above floor. Distance to highest perforations. Surface sealed (yes or mo) Second casing depth Second casing diameter. Annular seal (dsptb)  (8) Impervious Strata: {Thickness. Penetrated Depth to.  (9) Water Levels: Surface. Depth to Static. When Pumping.  (0) Pump: Make. Type. Capacity, g.p.m. Capacity, g.p.m. Capacity, g.p.m. Dower. Auxiliary power. Control Discharge location Discharge to.  Men Steel-10 ga Double 4"  Yes  Yes  Yes  No  Yes  Yes  Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye			· · · · · · · · · · · · · · · · · · ·
Height above floor  Distance to highest perforations.  Surface sealed (yes or no)  Gravel pack (yes or no)  Second casing depth Second casing diameter.  Annular seal (depth)  (8) Impervious Strata: {Thickness. Penetrated } Depth to  (9) Water Levels: {Surface Depth to {Static When Pumping  0) Pump: Make  Type Capacity, g.p.m Lubrication Discharge location Discharge to  Above Ground  Discharge to  Lubricariors  Discharge to  Above Ground  Discharge to  Cont  Cont			
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Gravel pack (yes or no)			
Second casing depth Second casing diameter Annular seal (depth)  (8) Impervious Strata: {Thickness Penetrated } Depth to  (9) Water Levels: {Surface			
Second casing diameter. Annular seal (depth).  (8) Impervious Strata: {Thickness. Penetrated } Depth to.  (9) Water Levels: {Surface	Second casing depth		
Annular seal (depth)	Second casing diameter		
(8) Impervious Strata: { Thickness. Penetrated } Depth to  (9) Water Levels: { Surface. 251.9 } Depth to { Static. When Pumping. } D.W. Turbine   Type. D.W. Turbine   Type. Capacity, g.p.m. 750 '			
Penetrated Depth to  (9) Water Levels: Surface	1-7-7		
Depth to  Static When Pumping  Depth to  Very pump: Make  Type  Capacity, g.p.m.  Lubrication  Power  Auxiliary power  Control  Discharge location  Discharge to  Difference  Static  At a process and a power  Above Ground  Mains  Cont.  Difference of Use  Cont.	(8) Impervious Strata: (Thick	ness	
Depth to    Static   When Pumping	Penetrated Depth	to	
Depth to    Static   When Pumping	*		
When Pumping  O) Pump: Make Layne & Bowler Type D.W. Turbine Capacity, g.p.m. 750 ' Lubrication Oil Power N Gas Auxiliary power No Control Discharge location Above Ground Discharge to Mains  1) Prequency of Use Cont.		251.9	
O) Pump: Make Layne & Bowler Type D.W. Turbine Capacity, g.p.m. 750 ' Lubrication Oil Power N Gas Auxiliary power No Control Discharge location Above Ground Discharge to Mains  1) Frequency of Use Cont.			
Type D.W. Turbine  Capacity, g.p.m. 750'  Lubrication Oil  Power N Gas  Auxiliary power No  Control Discharge location Above Ground  Discharge to Mains  1) Frequency of Use Cont.	When Pun	nping	
Type D.W. Turbine  Capacity, g.p.m. 750'  Lubrication Oil  Power N Gas  Auxiliary power No  Control Discharge location Above Ground  Discharge to Mains  1) Frequency of Use Cont.	10) P W.L.	town a newley	
Capacity, g.p.m. 750 ' Lubrication Oil Power N Gas Auxiliary power NO Control Discharge location Above Ground Discharge to Mains  1) Frequency of Use Cont.	Tune	D W Turbino	
Lubrication Oil Power N Gas Auxiliary power No Control Discharge location Above Ground Discharge to Mains  1) Frequency of Use Cont.	Capacity	750'	,
Power N Gas Auxiliary power No Control Discharge location Above Ground Discharge to Mains  1) Frequency of Use Cont.	Lubrication 3	750	
Auxiliary power No  Control  Discharge location Above Ground  Discharge to Mains  1) Frequency of Use Cont.			
Control  Discharge location  Discharge to  Mains  1) Frequency of Use  Cont.			
Discharge location Above Ground Discharge to Mains  1) Frequency of Use Cont.			
Discharge to Mains  1) Frequency of Use Cont.			
1) Frequency of UseCont.	Discharge to		
2) Flood Hazard No	11) Frequency of Use	Cont.	
	12) Flood Hazard	No	
3) Remarks and Defects	13) Remarks and Defects		

15/2W-36N1

#### WELL RECORD

Well 5 Rec. #36 01853

Company	,	

-	SW 1/4 SW	. 1/4	Township_	18	Range.	2W	Section.	36
4				4				
	ed_Januar	- 10/16		PIT	Fulla V	Jolla P	obonto	
	ed							
Jepin	5001		Diameter_			Packed		
				CASING				
	16"			4651		Cours	10 88.	- double
Diameter.			Lengin	10)		u u	10 80	- double
Parforat	ed interval_		_					
er tor a .	ed milerval.							
				COLUMN				
	10"					Gauge.		
- 11	8"		" -	40'				
Tube dia	meter			Shaf	t diame	ter		
				DOW! C				
	olled Mar	nah 26		BOWLS		v Pump	Co-	
Date inst	Peerless	en zo,	Madal	10 MA	Iul Ic,	Social	no R582	83
	10"							
Size		Siuges		Leng	111		ode non_	
			DESIG	N PERFO	RMANC	E		
GPM	700	RPM_					HP	120
	675	RPM_	1760	_ TDH.	55	5	HP	
GPM	600	RPM_	1760	_ TDH.	59	4	HP	
				ENGINE				
	talledFel				Wilson	Engine	Service	
	t. Gas						Serial no	
Cu. in	1616	BBS_	7 x 7"	HP	1	25	RPM	880
				423				
	Th.	h	1059	GEAR	Dan	Pohost-		
	railed Fe					Roberts		50
Make	U.S.							30
	Spicer WL	11	-	Unive	rsals_			
Shaft		7 477		i handa		inon -	aidone has	d ahaft
Shaft	31 1 100	2 - AII	new shar	t bearings	, stra	iner si		
Shaft Notes:_	March 196			22.3 2.2				
Shaft Notes:_	March 196			ction.				
Shaft Notes:_				etion.				

REDEVELOPING 'IDEOLOGGING HOTOLOGGING

## Water Well Redevelopers, Ing 6189101

5583 PEBBLE BEACH LANE YORBA LINDA, CALIFORNIA 92686

#### VIDEOLOG FIELD REPORT

OWNER	WELL LOCATION Approximately
	34586 Cedar St.
	Yucaipa, Calif.
WELL NO5	DATE OF VIDEOLOG 12-5-83 BY B.J.C.
WELL HISTORY  Casing: 16" 0' to 508'	Perforations: 190' to 199', 220' to 227', 236' to 245', 254' to 355',
Drilled 1946 By Flula Wells	366' to 400'& 422' to 470'.  Type C-Tool Perf's Mills Knife.
Depth of Pump Setting: Column 350'  Remarks All out for service.	Bowls 10' Suction 10'
'RING SURVEY	-1
Standing Water Level174 ' Total Well Depth490 '	Depths Televised 0' to Present Bottom.  Water Conditions Good
VTK Beta SETTING 1 TAPE: On File POLAROID SUPPLEMENTS None.	CustomerDealerX None

#### REMARKS

Camera centering guide set at 14"0.D. during survey. No drag noted while camera descended.

Sample mills knife cuts are visible at 2'.

Casing and perforations appear clean and in normal condition from 174' (static) to 400'. Some perforation plugging and or restriction can be seen from 400'± to 470', end of casing.

Open hole from 470' to 490'(bottom).

Perforations on joint 328' and 433'.

Lost airline visible at 475' and 481'.







## San Bernardino Valley Municipal Water District

1350 SOUTH "E" STREET - P. O. BOX 5906 > SAN BERNARDINO, CALIFORNIA 92412 - (714) 824-2200 (714) 889-0433

September 9, 1976



Dear Sir:

On behalf of the SBVMWD I would like to thank you for your assistance this summer with our vertical control project.

All of our surveys were run to determine the mean sea elevation of the measuring point for each well. All of our work was done within third order limits.

The following are the wells surveyed and their elevation:

Well No. 4 2346.36 ft. Well No. 5 2561.98 ft. Well No. 7 2711.00 ft. Well No. 8 2364.18 ft. Well No. 11 Well No. 12 2387.92 ft. 2379.15 ft. Well No. 13 3180.95 ft. Well No. 14 3341.77 ft. Well No. 24 2434.71 ft. Well No. 33 3127.80 ft.

Thank you again.

Sincerely,

Robert Martin

Water Resources Aide

RM:as

Directors and Officer

15/2W-36R1

## STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

	WELL	DATA	(1)	Place and Owner	
--	------	------	-----	-----------------	--

(2)	Source of Information Data	on File					
	Collected by	Date 15 June 62					
(3)	Number or Name	#7					
***	Date drilled		50 '				
(4)	Location: Neighborhood	and the second second second					
,	Size of lot						
	Distance to: Sewer	No sewer in ar	ea				
	Sewage disposal	A Land College College Committee College Colle					
	Abandoned well Nearest property line						
151	Housing: Type						
(2)	Condition						
	Pit depth (if any)		1				
	Floor (material)						
161	Well Depth	695 '					
10)	wen wehm	444					
(7)	Casing: Depth	6651					
	Diameter						
	Kind						
- 00				-			
	Height above floor	4	- · · · · · · · · · · · · · · · · · · ·				
	Distance to highest perforations						
	Surface sealed (yes or no)						
	Gravel pack (yes or no)						
	Second casing depth						
	Second casing diameter						
	Annular seal (depth)						
	and the second second						
(8)	Impervious Strata: Thickness						
	Penetrated Depth to		des				
(9)	Water Levels:  Surface						
	Depth to Static						
	When Pumping						
10)	Pump: Make						
	Туре	Turbine-L.S.					
	Capacity, g.p.m.	450	‡				
		Oil					
	Power	N Gas					
	Auxiliary power						
	Control						
	Discharge location	Above ground	-				
	Discharge to	Wa in a					
		Malus	-17-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				
11)	Prequency of Use	Cont.					
12)	Flood Hazard	No					
13)	Remarks and Defects						

15/2W-361. #7

LOCATION: Cedar and Adams Streets
SEt of SEt, Sect. 36, T1S, R2W, SBE&M

DRILLED BY: E. J. Brockman, Drilling Contractor DATE: Oct. 18, 1950 R. 1, Box 150, Colton, Calif.

Depth			
From To	* 4	Material	
0 18' 18' 120'	4	Decomposed granite Sand and rock	boulders
120' 184'	2.0	Sand and clay with	some rock
184! 195!		Clay and rock	
1951 2231		Red clay	
2231 2981	2. 9	Sandy clay	2
2981 3151		Sand and gravel	
315! 328!		Sandy clay	
3281 3401		Sand and gravel	2
3401 3951 3951 4151		Sandy clay	
4151 4601		Rock and clay	
460! 475!		Sandy clay Rock and clay	
475		Sand	
514 5201		Sandy clay	
5201 5301		Cemented gravel	
5301 5401		Sandy clay	
5401 5451		Sand	
5451 5521		Granite ledge	
5521 5681		Sandy clay	
568' 580'		Sand	
5801 5841		Sandy clay	
E8).1 E801		Sand	
589' 594'	* -	Clay and rock	
594' 605'		Sandy clay	
605! 625!		Cemented gravel	
625! 635!		Clay and rock	
6351 6601		Soft sand clay	
6601 6881		Clay and rock	
6881 6951		Rock	

Hole was reamed to 20" diameter to a depth of 665' and 14" x 1" wall casing installed to 665'.

15/2N\_36R1

Well 7

#### WELL RECORD

Company\_\_\_\_\_

SE 1/4	SE 1/4	Township1	S Ran	ge_2 W	Section36			
Date drilled Oct.	1950		PIT By E.S.	. Brockma	an			
Depth 695	2330	Diameter 30	By	_ Packed	665'			
Deprii 033		Diameter		Packed				
		CA	SING					
Dinmeter 14				Gouge	1/4"			
"		"						
					*			
		co	LIMN					
Diameter 6				Gauge_	STD			
T. b. dia 2	1		Chatta di-		1			
Tube diameter_2	2		Shaff dia	me rer	2			
		В	OWLS					
Date installed 3	-25-57	_	By Re	oberts				
					no:			
Size 12	Stage	s 12	Length_	Suction 10 of 6				
			23,000					
		DESIGN						
					HP_ 79			
					HP			
GPM	RPM_		TDH		HP			
		EN	IGINE					
Date installed			Ву		-io-io-			
Туре	_ Make	Waukesha	Model _W	ak R-25A	Serial no. 1018788			
Cu. in. 1197	_ Bas	6 1/4 X 6½	HP 96		RPM900			
			BEAR					
			Ву					
			Serial no. <u>1101571</u> HP <u>110</u> Universals					
Snarr_Delte_		MILDI	Universal	5				
Notes: 1 CK 18	9 S Gas	Engine Sta	rter - S	erial -	1016352			
	-							

3/25/57

15/2W-36R1

LOCATION 8		/FII	Iley Water Conser	Vice W Co No.
OWNER		- Wel	ll No. 20 (ol	d) (new) No. 7
DESCRIPTION OF	M.P. Top of	casing.	7 7	ELEV. G. S. 2710
DATE	OBSERVER	DEPTH TO WATER	ELEVATION OF WATER	REMARKS
1950 11–03				
11-05	Hicks	316.7	2393.3	To too casing
1951		77.55		
3-03	Serber	317.1	2392.9	
4-04	Hicks	317.2	2392.8	To top casing
5-15	Serber	319.7	2395.3	
2052	3			<del>                                     </del>
1952 <i>k</i> -11	Hicks	325.7	2394.3	Now homek = 2 set 2-t
4-11	Edison Co.	325	2385	New heach plus-outlet pine
			2,707	12.07 BOOVE DOES 0288
1953				1
3-17	Serber	328.6	2381.4	
7055		1	-	
1955 3-28	USGS	201 6	2000 2	
8-9	Edison Co.	334.8	2375.2	
	tr	367.2	22/:2.8	
8-9 9-17	TISCS	497.7	227.2.3	Pumping 434 GPM
9-17	(:)(-)	アロンデ	5310	
1957				
4-2	Dibble	346.6	2363.4	2" pipe Fast side
1958		16		
4-28	Foster	466.6	2243.4	Pumping
1960			*	
3-9	Hanstad	383.7	2326.3	Idle
	110000	307.1	6750a3	+116
1961.				1
4=24	Stafford	14.0-6	2269.4	Pumping
		*		
-				
1763 .				
3-20	SECTO	383.7	232.2.3	
		1		
				144
	-	-	-	1
1945			2328	
2412			2345	
			1 2 2 2 2 2 2	

#### LOG OF WELL NO. 8 S.R. No. 36-01856

Hill Ranch LOCATION:

NW of SW sect. 25, Tls, R2W, SBE&M
DRILLED BY: E. J. Brockman YEAR: March

R. 1, Box 150 Colton, Calif. YEAR: March 3, 1951 completed

De	pth	ACCURATE AND
From	To	Material
0	41	Top Soil
101	501	Sand and rock
501	851	Sandy clay
50' 85'	1051	Sand and small gravel
105	1781	Sandy clay
1781	2221	Sand and coarse gravel
2221	2601	Hard clay
2601	2741	Sand and small gravel
2741	3001	Sandy clay
300	3061	Sand
3061	3/101	Clay and rock
3401	3511	Rock and Sand
3511	5151	Sandy clay
1,751	1,251	Sand
1.251	1781	Sand with streaks of clay
1781	5061	Hard clay

Hole was reamed to 16" to 363' and 10" x 3/16" casing installed. 10" casing was perforated with 3/16" x 4" slots 4 to the round every foot.

Hole was reamed to 10" from 363' to 506' and 6" x 1/8" casing installed. 6" casing was perforated all the way with 3/16" x 4" slots 4 to the round, one round every foot.

Hole was gravel packed with 3/8" gravel all the way.

Static water level 115

Well on the pump test pumped the following capacities:

from 143' - 162 " 166' - 279 " 178' - 342 GPM GPM GPM

Rotary Rig

WELL RECORD

25/2W-2PWell\_8 . Rec. #36 01997

Company\_\_\_\_\_

	Township	2 S Rang	ge_ 2 W	Section.	3	
*		PIT				
Date drilled 1959						
		CASING				
Diameter16"	_ Length		_ Gouge _	1.0 ga		
	_ " _		_ " _			
Perforated interval						
4		COLUMN				
Diameter8"	_ Length_	400	_ Gauge_	STD		
	- " -		- " -			
Tube diameter		Shaft dia	meter			
Dote installed March	18. 1963	BOWLS	ev Pirmn	Company		
Make						
Size 10" Stag						
150		ON PERFORMAN			1.4	
GPM450 RPM						
		TDH				
GPMRPN	-	TDH		НР		
		ENGINE				
Date installed 3-63 (						
Type Elect. Mak				Serial no.	125183	
Cu. in B &	S	HP60	)	1000		
		GE AR				
Date installed						
Make Mod						
Shaft		Universals				
Notes: Pump test J	ulv 25. 1	966				
Pump Head J						
	action	and the second of the second				

## S.R. No. 36-01804

LOCATION:

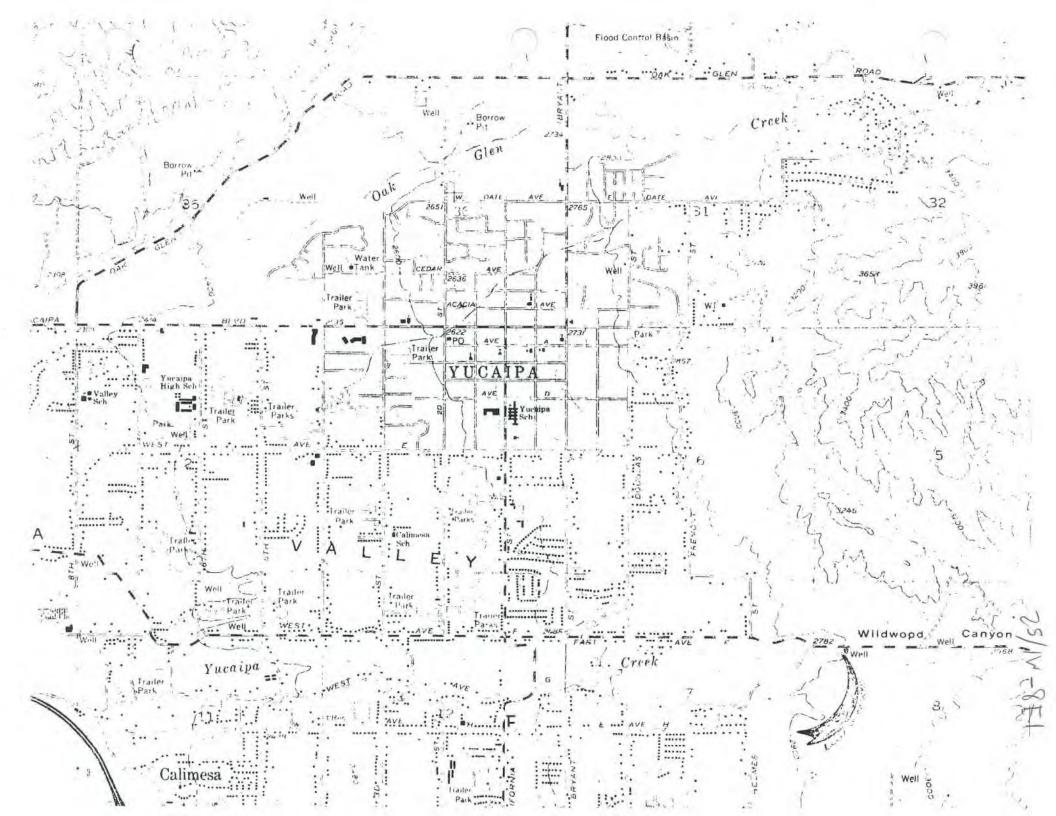
Wildwood Canyon NW2 of NW2, Sect. 8, T2S, R1W, SBB&M

DRILLED BY: Unknown

Unknown YEAR:

Dep	th	
From	To	Material Gravel size of a pea to 6" mixed with
0	. 851	sand & some clay to cement slightly not enough water to attract attention above 80'.
901	90° 129°	Sand & clay mixed not cemented but loose. Gravel size of a pea to 6" with sand and no clay.
1291	1451	Decomposed granite or soft schist becoming harder as well went down.

All 100 perforations between 50' and 129' below surface perforation 8" to 18 long and average width 5/8 of an inch.



25/IW-8El

#### Well\_Wildwood

#15

#### WELL RECORD

Compa	ny
COMPA	· y

NW_ 1/4 _ NI	M 1/4	Township	2 S	Range	1	W Section 8
			PI	r		
Date drilled	nown				own	
10			CASIN	IG		1./4
Diameter		Length_	143	-	Gauge.	1/4
Perforated interval	50	129				
- Interval		16.7				
			COLU			-3.25
Diameter 5		Length 1	.20	_	Gauge.	STD
	_					
Tube diameter 12			s	haft diame	eter	1
			BOW			
Date installed			В	у		no <sub>1</sub>
Size_8	Stages	_5	L	ength		Suction 10 ft.
		DESI	GN PEI	RFORMANO	F	
GPM						HP
						нР
GPM	RPM_			DH		HP
			ENGIN	NE		
Date installed			B	у		
Type Elec.	Make_	GE	M	odel 12 F	56715	Serial no. XCS 672174
Cu. in	B&S_		— н	P 7½		RPM
			GEA	R		
Date installed						- Cold
						_ HP
Shaft			U	niversals_		
Notes:						
					_	

#### TRIPLICATE Owner's Copy

e col Intent No.\_

# THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

well 15-1 tert well Do not fill in

No. 182243

(1) OWNER: Name_				(10) ****** * * * * * * * * * * * * * * *						
Address_			<del>-</del>	(12) WELL LOG: Total depth 15 ft. Depth of completed well 315						
City			no.	from ft. to ft. Formation (Describe by color, character, size or material)						
Control of the second s			Zip_	0 -102 ft Fine sand short streak of clay.						
(2) LOCATION OF WELL County San Bernardino	L (See instr	nctions):		102 - 149 ft Medium & comese sand, gravel mix.						
	Owner	's Well Number		149 - 315 ft Blue Granite (Decompose).						
Well address if different from above			•							
		Section	8							
Distance from cities, roads, railroads, fe										
Assessors Parcel	322-212-0	5								
		Transmin								
		and the second second second	OF WORK:							
		La Company	Deepening [							
		Reconstructi	on 🖸							
		Reconditioni	ng 🗆							
		Horizontal V	Vell 🗆							
		Destruction	(Describe	-						
		procedures is	i Item 12)	4						
		(4) PROF	OSED USE							
		Domestic	Ò							
		Irrigation								
•		Industrial		-						
		Test Well		7.7.						
5		Stock	â							
	*	Municipal	o o							
WELL LOCATION SKET	СН	Other								
5) EQUIPMENT:	(6) GRAVE									
Rotary Reverse			ea Gravel							
Cable  Air	Diameter of 1		Charles of the Contract of							
Other   Bucket	Packed from_									
7) CASING INSTALLED:	(8) PERFO		10_ 315 A							
iteel CX Plastic Concrete .	16.1			- 2						
	1	ration or size of	screen							
From To Dia. Gage or ft. ft. in. Wall	From ft.	To	Slot	- 2						
	It.	ft.	size	- 10 10 10						
0 316 0 1/8	80	295	.090							
	-	1		- 12.0						
O) TERRIT OFFI	1			- 12.						
9) WELL SEAL:		4								
Was surface sanitary seal provided? Ye		If yes, to dep	thft.							
Were strata sealed against pollution? Method of sealing	Yes 🗌 N	o [ Interval_	ft.							
10) WATER LEVELS:		-		Work started 14 19 89 Completed 8-23 19 89						
	62			WELL DRILLER'S STATEMENT:						
			ft.	This well was drilled under my jurisdiction and this report is true to the best of m						
				SIGNED TO COLOR						
tanding level after well completion		C. T. A. I. C. Co.		(Well Driller)						
tanding level after well completion  11) WELL TESTS:  Vas well test made? Yes \( \subseteq \) N	If yes, b	y whom?		( West Diffier)						
tanding level after well completion  11) WELL TESTS:  Vas well test made? Yes Now Yes Pump Now Yes	Bailer [	Air	lift 🗗	NAME SoCal Pump & Well Service, Inc.						
tanding level after well completion  11) WELL TESTS:  /as well test made? Yes \( \text{N} \)  ype of test Pump \( \text{Pump} \)  bepth to water at start of test	Bailer ft.	At end of t	estft	NAME SoCal Pump & Well Service, Inc. (Person, firm, or comparation) (Typed or printed)						
tanding level after well completion  11) WELL TESTS:  Vas well test made? Yes No	Bailer [	At end of t Water temp	estft	NAME SoCal Pump & Well Service, Inc.						

IF ADDITIONAL SPACE IS NEEDED. USE NEXT CONSECUTIVELY NUMBERED FORM

This is political politica

15/1W-33m1

#### WELL RECORD



BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

SB 1/4 -SI	1/4 Township	1 8 Range.	Section27				
		PIT					
Date drilled		By					
Depth 115	Diameter_		Packed				
		CASING					
Diameter8	Length_	1.1.5	Gauge .	12			
Perforated interval							
		COLUMN					
Diameter3			Gauge	ETD			
			n				
Tube diameter	1 1/4	Shaff diame	ter_3	/4			
		BOWLS					
Date installed		Ву					
Make Pourless	Model	6 L.A.	Serial	no			
Size6	Stages 12	Length		Suction			
	AVA. DO	de description de la constante					
12.7		N PERFORMANC		1.2			
GPM							
GPM	RPM	TDH	_	HP			
GPM	RPM	_ TDH		HP			
		ENGINE					
Date installed		Bv					
Туре	Make Waskesha	A Model TCK	136C	Serial no. 759040			
Cu. in 61	885 21v2 1/6	CYL HP 13 5		RPM: 1950			
	alle ale			A. 2700			
		GEAR					
Date installed		Ву					
Make Johnson	Model	Serial no.	7348	HP15			
Shaft Spicer	2646		27010				
Notes:							

Page] Owner's	s Copy L of _1 Well No rk Began	16					WEL	L COM Refer to I	nstruction	IOI n Pa	N REPOR	T		LATITU	STAT		NO. / ST.	ATION NO.
Local 1	Permit A	gency _8		B	lez	ma	rdino Cou	it Date	1th Se 4/13/	n1	Loss	_ [	1	11	1.1	APN/T	RS/OTH	L I I I
DEPTH	TION ( )	X_ VE	RTIC	AL	_	_ HO	DRIZONTAL	ANGLE	(SPECIFY)	Na Ma	ame ailing Addres	s	_ '	WELL	OWN	ER —		
Ft. t	50	Tmm4	- 1				alerial, grain size,		-	CIT			- W	ELL L	OCAT	ION -		ATE ZIP
-		excis	4	ng	W	1	, bored 6	" arou	d	Ci	ldressCar tyYuca1	08			/4 m	11e	east	Oak Gle
		exte	넌	ng	1	6"	casing ar	d fills	d	Co	ounty San 1	Berna	rdi	no est		,	1.4	
		by t	2.01		ie	D	DO DO	no pea	grave	To	wnship 15	Ra	ge nge .	1	_ Parce _ Section	on	33	
		Depti	1	£	6	mi	tary seal	50 *	_	I.a	titude	MIN.		NORTH			DEG.	MIN. SEC.
											L.O	CATIO		KETCH	-		TA	CTIVITY (
		-	_															FICATION/REPAIR
		1									1				D.	. 4	17	Deepen
		1											6	,-1/	R		Sa	X Other (Spe
		1				-						/	-	/	7		1	DESTROY (Descri
		1								ST	Su les	-31	41	1.10		ta	1000	ANNED US
				_	_					WE	00					EA	_	(三) MONITORING
											E E						WATE	R SUPPLY
		1									2 6							Domesti
	-	1	-	-	-	-			-			2-		+				Irrigation
										-		0-	/			-		Industria
-		1	_	_		_						so	ITU				-	_ CATHODIC PR
		1								811	ustrate or Descri ch as Roads, Bui	be Distan	ce of	Rivers P	to	marks	-	TION OTHER (Specif
											LEASE BE ACC	CURATE	& C	OMPLET	E.	_		
		1	=	-		-	_	_			THOD WATER	FEVE	100	VIELD	OF	FLUID .	reme	D. Miner
											TH OF STATIC							D WELL -
1		1	_	_						EST	MATED YIELD		(	GPM) &	TEST 1	YPE_		
		BORING _ COMPLET					2-74				T LENGTH						(	Ft.)
-			T		-			ASING(S)		76.	tay not be repre	remairve	0) 4	weii 3 10	_	_		10 - 10 - 10
FROM SI		BORE- HOLE	T	YPE					To as on		Section State		DEPT	H RFACE		ANNU		MATERIAL
Ft. to	Ft.	DIA. (Inches)	BLANK	SCREEN	CON.	I PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	OR WAI	L	SLOT SIZE	-	240	-	CE- MENT	BEN- TONITE	6.0	FILTER PAG
			100	S	-	Ē		(Mones)	THORNE	30	(Inches)	FI.	10	Ft.		(=)		(TYPE/SIZ
T T												0	1	50	X			N/A
- 1													1					
1			-	-	-							-	-					
													+					
	ATTACI	HMENTS	(=	()	-		Tone made	enter d	416. (1		CERTIFICA							
	_ Geologic	Log					11	rsigned, cer	nty P	nis r	Company	ete and	accu	rate to	the bes	t of my	know	ledge and bel
	_ Geophys		- Wrai				(PERSO	ON, FIRM, OR C	ORPORATION)	(TYPE	D OR PRINTED)			W. L.	, Value	7.5	3 3	ANIA T
	Soil/Wat	er Chemical	Ana	lyse	9			4T SOUF	n Arre	A CO	ead Ave.	Sa	n E	erna	rdin	o, C		
_	Other _			777			ADDRESS							CITY			STATE	ZIP

25/1W-ZL1

Do not fill in

#### THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES TER WELL DRILLERS REPORT

No. 15689

d Permit No. or Date	Other Well No. DZ S/O W - DZ/O
(1) OWNER: Name	(12) WELL LOG: Total depth 180 ft. Depth of completed well 180ft.
City. Zip	from it. to it. Formation (Describe by color, character, size or material)
	0 10 Brown DG & Firm
(2) LOCATION OF WELL (See instructions):	10 20 Brown DG & Firm
County San Bernadino Owner's Well Number W	20 40 firmenG brown
Well address if different from above	40 80 Gravel brown DG mix
Township Range Section	80 -100 rusty brown gravel water
Distance from cities, roads, railroads, fences, etc.	100 -140 brown DG firm
	140 150 black sand stone or rock
	150 160 brown green DG
	160 180 Warder DG brown
(3) TYPE OF WORK:	180 7 STOP
New Well □ Deepening □	The state of the s
Reconstruction	-11
Reconditioning	1 - 4 8 1/2
Horizontal Well	M - 12
Destruction [ (Describe destruction materials pho	110- 1110
destruction materials and procedures in Item VII	W 0
(4) PROPOSED VS6?	- C
Dumestic	A (1) (1) (1)
Irrigation	1 1 0
	W (2)
	4/9
Pen Well	All V- O
Stock	0 - 6/100
Municipal	
WELL LOCATION SKETCH Other	-50
(6) EQUIPMENT	<b></b>
Rotary   Reverse   No Size	
Cable   Air   Propeter of bore	9/11/2
Other D / Bucket D Ranked rom to	1112-
(8) PERFORATIONS:	-
Basel   Plastic   Concrete   Type of perforation or size of screep	9 -
From To Dia. Capacor From To C Sion	
A MAN	
VOLUMET I SEAL	
(9) WELL SEAL:  Was surface sanitary seal provided? Yes No   If yes, to depth   It.	
Were strata sealed against pollution? Yes No No Interval tt.	Work started 4-7 19-87 Completed 4-9 19-87
Method of sealing Steel & Coment	THE OWNER ASSAULT.
(10) WATER LEVELS:	WELL DRILLERS STATEMENT and this report is true to the best of my knowledge and belief
Depth of first water, if known	knowledge and belief
Standing level after well competition	Signed (Well Driller)
(11). WELL TESTS:	The Direct
Was well test made? Yes W NO Air lift &	NAME Ron Engeldinger (Person, hom. or computation) (Typed or printed)
Type of test Pump Depth to water at start of test t. At end of test t	B O BOY 250
Discharge 100 gal/min after hours Water temperature	C-
No El If yes, by whom?	Date of this report
Chemical analysis made? Yes No If yes, by whom?  Was electric log made? Yes No If yes, attach copy to this report	Livense No. 23 TURN NO PER FORM 43816 RED 7-76 SOM QUAD (1)T OS
WE SECTION OF THE TOTAL SPACE IS NEEDED. USE	NEXT CONSECUTIVELY NUMBERED FORM 41016 950 7-76 50M QUAD (UT OF

has soft santons seal philips feet

TRIPLICATE Owner's Copy

Notice of Intent No ...

THE RESOURCES AGENCY

#### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

			-	~	 1	
					-	
itate	Well	No				

Permit No. or Date		Other Well No
(1) OWNER: Name		(12) WELL LOG: Total depth 180_ft. Depth of completed well 180ft.
City.		by the same of the
	Zir.	0 10 Brown DG & Firm
(2) LOCATION OF WELL (See ins	tructions t:	10 20 Brown DG & Firm
CountySan_Bernadino_ Our	er's Well Number	20 40 firmeNG brown
Well address if different from above	remediate and a second	40 80 Gravel brown DG mix
TownshipRange		80 100 rusty brown gravel water
Distance from cities, mads, milmads, fences, etc		100 140 brown DG firm
		140 150 black sand stone or rock
		_150_160_brown/green_DG
		166 180 Harder DG brown
	(3) TYPE OF WORK:	-180 STOP
1	New Well 1 Deepening 11	
14	Beconstruction 11	4.,
À	Her mulitioning [ 1	10, 110
21	Horizontal Well L.I	E
0/	Destruction [7] (Describe	11111
1	destruction materials and procedures in Item 12)	
	(4) PROPOSED USE:	
3/	Domestii 11	
17		
1		
3.7	i Industrial 1	The state of the s
7 . 1	Line Man 2	
1	Stock	
11	Manie spad [1	
WELL LOCATION SKETCH	Cither []	- 1071 5
(5) EQUIPMENT: (6) GR/	IVEL PACK:	(La- 4)
Rolary   Heverse   Yes	No D Sires	18/1/20
Cable   Air & Diamieter	of bore	2/1) i
Other [] Bucket [] Packed for	tox(t	All A -
(7) CASING INSTALLED (8) PER	FORATIONS:	
Steel   Plastic   Congrete   Type of	erloration of size of screen	
From To Dia. Gage or From	n To Slot	
ft. ft in Wall ft	II. size	
100/20		· · · · · · · · · · · · · · · · · · ·
180 85		
(0) WELL SEAL		V
(9) WELL SEAL:  Was surface sanitary seal provided? Yes, N		
Α	n [] If yes, to depth	
Were strata sealed against pollution? Yes [] Method of sealing Steel & Coment	No. 1 Intervalit.	
(10) WATER LEVELS:		Work started 4-7 19-87 Completed 4-9 19-87
Depth of first water, if known 80		WELL DRILLER'S STATEMENT:
Standing level after well completion		This well was distled under my intialiction and this report is true to the best of my knowledge and techni-
(11) WELL TESTS:		Stisting
Was well test made? Yes No D II v	es, by whom?	(Well Duller)
	er Ll An int ix	NAME RON Engeldinger (Typed or printed)
Depth to water at start of testit.	At end of h 3 _ H	
Discharge 100 gal/min alterlums	Water bring cutting	P.O. Box 250
	es, by whome,	Hemet, Ca. Zip 92343
electric log made? Yes No 11 11 v	es, attach copy to this report	License No. 294625   Date of this report 4-16-87
	Carallana del characterio IIII del cara	on the barbard of the design of the state of

FROM : SDCAL PUMP & WELL DRILLING INC FAX NO. : 9093415031

Dec. 07 2000 09:40AM P2

			1			ETIO	N REPORT	r TI	1 1	1 1	1 1	TILL IN
ge 1 of 1			1	K	of in Insti				STATE WEL	NO 15	MEHTATE	NO .
oner's Well No.				WE11 #19)	No.	766	676	11111	111		11	T. I
ne Work Began -	9/28/99	9	+	nd 10/12	2/99	100	010	I.A.I.I.	IUL .		LUNC	TUTIE
Loral Permit Agen	. San	Bern	ardi	no County	EHS D	iv		1111	1.11	1	1 1	1111
Person No. 19	9910083	0		Periot D	nic 10/	22/99	Transfer and			TRAIDT	HEA	
HIENTATION ( = 1			arc L	OC -	CLE 15	weeren.	Name	WEI,I	OWNER	-		
	METHOL						Mailing Address		- 4		-	
DEPTH FROM SIMPAGE	METHOD		134.5	CUUTTON						-	`A	92399
*6. 30 *1	11	relie ,	materia	d grain stre	rator, en		Yucaipa				STATE	71P
				6 feet,		d well	Addies Fir/C	oldstein	OK ATHY	-		
				nd pumper		50	Can Yucai	va .				-
				nd slurr			County San F	ernardino				
			UK DE	IIIG SAVEA.	1				Parcel	303-	301_	78
			-				APX Book	1,66				70
							Township 18		Section		)	
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<del>-</del>		-/	. 6-	THE TRACKS STATE OF THE PERSON OF		-		ATION SKETCH		-		VITT (2) -
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-+-+		+	-11									HIASER MOITA
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1						1					Line.	rage (fle-trib)
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				LOCAL TON				1	Andic wee			restre frents
					- 17-41-		KEST	1	3	EAST		Alian Indust
							*	1	V	2		MONITORNO _
The second rest	Comments of a								4		CATACIDA	PROTECTION _
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						_				- 1		MUTCHION _
		_	-							- 1	varc	RETRACTION .
		1	-		_			SOUTH				PARGINU
							thereme in the other francis, thirds etc. in more may PLEASE H	Distant of Well from	E. val. Brabli	625	-	MER ISPECIFYI .
							Fritzs, Itters etc. mi	d attack is range to a	MPLET!	" 11		MAN INPECIPY
							moreomy PLEASE B	E. ALLEIGHTE CI				
			-							_	******	cerr
							WATES	LEVEL & ME	LD OF CO	MPLI	Date of	VELL
							WATES	LEVEL & ME	LD OF CO	MPLI	Date of	LEITI.
							WATES MEPTH TO FIRST W DEPTH OF STATIC	ATER (F	LD OF CO	MFACE	Date of	VELI.
	manifest of the sale of	ou ne e		*** - *****	(6 may)		WATES  IEPTH TO FIRST W  DEPTH OF STATIC  WATER LEVEL	K LEVEL & THE	LD OF CO	MI'LI MFACE		
WITH DEPTH OF	BOILING	ou ne o			n na) – v		WATES  IMPTH TO FIRST W  DEPTH OF STATIC  WATER LEVEL  ESTIMATED YIELD	(FLI & 11E	LD OF CO L) BELOW SU DATE MEASU IF A TEST TY	MI'LI MFACE MED		
TOTAL DEPTH OF							WATES  IEPTH TO FIRST W DEPTH OF STATIC WAYER LEVEL ESTIMATED VIELD YEST LENGTH	(FL) & TIE	LD OF CO	MPLI MFACE MED		
TOTAL DEPTH OF C				-r)		,	WATES  IEPTH TO FIRST W DEPTH OF STATIC WAYER LEVEL ESTIMATED VIELD YEST LENGTH	(FLI & 11E	LD OF CO	MPLI MFACE MED		
TOTAL DEPTH OF (	COMPLETE			(Feet)	CASING (S)		WATES  IEPTH TO FIRST W DEPTH OF STATIC WAYER LEVEL ESTIMATED VIELD YEST LENGTH	CLEVEL & THE	LD OF CO	ONI'LL ORFACE OED PE Pichl	(Fr )	
	BORE-	TYPE	(2)	(Feet)	CASING (5)		WATES  IEPTH TO FIRST W DEPTH OF STATIC WAYER LEVEL ESTIMATED VIELD YEST LENGTH	(FL) & TIE	LD OF CO DATE MEASU DATE MEASU DA TERT TY DAWDOWN_ Jong-term	ONI'LL ORFACE OED PE Pichl	_ (Fr:	TATERIAL
TOTAL DEPTH OF O	BORE-	TYPE	(2)	(Free)	INTERNAL	GAUGE	WATES  IMPTH TO FIRST W  DEPTH OF STATIC WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  * May not be repri	(FLIS (FINE CONTROL OF TOTAL O	LD OF CO	ONI'LL ORFACE OED PE Pichl	_ (Fr: ULAR A Y∀p	IATERIAL É
TOTAL DEPTH OF O	BORE-	TYPE	(2)	AFret)		To the second	WATES  IIEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SIFE  IF ANY	(FLIS (FINE CONTROL OF TOTAL O	LD OF CO	MI'LI PREACE  RED Pichl.  ANNI  BEN. TONITE	ULAR A	HATERIAL E
TOTAL DEPTH OF C	BORE- HOLE DIA.	TYPE	<u>.                                    </u>	(Free)	INTERNAL	GAUGE OR WAL	WATES  ILEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  * May not be reprint  SUCH SIFF  IF ANY	CLEVEL & THE	LD OF CO  DATE MEASU  DATE MEASU  DA FEAT TY  DAWDOWN  Interest  CE  LF.  MENT	MITLI PREACE PED Pichl. ANNI BEN.	ULAR A	HATERIAL E
TOTAL DEPTH OF C	BORE-	TYPE	(2)	(Free)	INTERNAL	GAUGE OR WAL	WATES  IIEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SIFE  IF ANY	CLEVEL & THE	LD OF CO	MI'LI PREACE  RED Pichl.  ANNI  BEN. TONITE	ULAR A	HATERIAL E FILTER PACE
TOTAL DEPTH OF C	BORE-	TYPE	(2)	(Free)	INTERNAL	GAUGE OR WAL	WATES  IIEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SIFE  IF ANY	CLEVEL & THE	LD OF CO	MI'LI PREACE  RED Pichl.  ANNI  BEN. TONITE	ULAR A	HATERIAL E
TOTAL DEPTH OF C	BORE-	TYPE	(2)	(Free)	INTERNAL	GAUGE OR WAL	WATES  IIEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SIFE  IF ANY	CLEVEL & THE  WATER	LD OF CO	MI'LI PREACE  RED Pichl.  ANNI  BEN. TONITE	ULAR A	HATERIAL E
TOTAL DEPTH OF C	BORE-	TYPE	(2)	(Free)	INTERNAL	GAUGE OR WAL	WATES  IIEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SIFE  IF ANY	CLEVEL & THE	LD OF CO	MI'LI PREACE  RED Pichl.  ANNI  BEN. TONITE	ULAR A	HATERIAL E
DEPTH FROM SURFACE	BORE-	TYPE	(2)	(Free)	INTERNAL	GAUGE OR WAL	WATES  IIEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SIFF  IF ANY	CLEVEL & THE	LD OF CO	MI'LI PREACE  RED Pichl.  ANNI  BEN. TONITE	ULAR A	HATERIAL E
DEPTH FROM SURFACE	BORE-	TYPE	(2)	(Free)	INTERNAL	GAUGE OR WAL	WATES  IIEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SIFF  IF ANY	CLEVEL & THE	LD OF CO	MI'LI PREACE  RED Pichl.  ANNI  BEN. TONITE	ULAR A	HATERIAL E FILTER PACE
DEPTH FROM SURFACE	BORE-	TYPE	(2)	MATERIAL / CRADE	INTERNAL DIAMETERI (LVIRIG)	GAUGE OR WAL THICKNE	WATES  ISEPTH TO FIRST W DEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  * Almy not be reprint  SUCHT SIFF  L. IF ANY SS	CLEVEL & THE  WATER	LD OF CO	MPLI PREACE PIED	ULAR 3	FILTER PACE (TYPE/SIZE)
TOTAL DEPTH OF C	BORE-HOLE DIA. (Impress 2	TYPE	(2)	MATERIAL / CRADE	INTERNAL DIAMETERI (LVIRIG)	GAUGE OR WAL THICKNE	WATES  ISEPTH TO FIRST W DEPTH TO FIRST W DEPTH TO FIRST W WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  * Almy not be reprint  SUCHT SIFF  L. IF ANY SS	CLEVEL & THE  WATER	LD OF CO	MPLI PREACE PIED	ULAR 3	FILTER PACE (TYPE/SIZE)
TOTAL DEPTH OF C	BORE-HOLE DIA. (Impress 2	TYPE	(2)	MATERIAL / CHADE	INTERNAL DIAMETER (LYDNAS)	GAUGE OR WAL THICKNE	WATES  ISEPTH TO FIRST W DEPTH OF STATES WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SUP IF ANY ISES  CERTIFICA  This report is compile	CLEVEL & THE	LD OF CO	MPLI PREACE PIED	ULAR 3	FILTER PACE (TYPE/SIZE)
TOTAL DEPTH OF C	BORE-HOLE DIA. (Impress 2	TYPE	(2)	MATERIAL / CHADE	INTERNAL DIAMETER (LYDNAS)	GAUGE OR WAL THICKNE	WATES  ISEPTH TO FIRST W DEPTH OF STATES WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy not be reprint  SUCHT SUP IF ANY ISES  CERTIFICA  This report is compile	CLEVEL & THE	LD OF CO	MPLI PREACE PIED	ULAR 3	FILTER PACK (TYPE/SIZE)
DEPTH OF COUNTY	BORE-HOLE DIA. (Impress 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TYPE S	ארד פער אינים ייי	I the und	INTERNAL DIAMETER (LYTHING)	GAUGE OR WAL THICKNE entity that I Imp & coholiation	WATES  ISEPTH TO FIRST W DEPTH OF STATES WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy Hot be TEIM  SLITT SIPE IF ANY SS (HOME)  CERTIFICA this report is comple  Well Drilli  Inne on founted	CLEVEL & THE MATER (FINAL DEPTH FROM SURFA  FL 10 F  TTION STATEM TO A STATEM THE AND ACCURATE TO THE STATEM THE AND ACCURATE TO THE STATEM THE AND ACCURATE TO THE AC	DATE MEASURE A LEST TY PAWDOWN long-term	MPLI PREACE PIED	ULAR 3	FILTER PACE (TYPE:SIZE)
DEPTH OF COUNTY	BORE-HOLE DIA. (Impress 2	TYPE S	ארד פער אינים ייי	I the und	INTERNAL DIAMETER (LYDNAS)	GAUGE OR WAL THICKNE entity that I Imp & coholiation	WATES  ISEPTH TO FIRST W DEPTH OF STATES WATER LEVEL  ESTIMATED VIELD  YEST LENGTH  Almy Hot be TEIM  SLITT SIPE IF ANY SS (HOME)  CERTIFICA this report is comple  Well Drilli  Inne on founted	CLEVEL & THE  ATER (FINAL DEPTH FROM SURFA  FL 10 F  ATTON STATEM THE AND ACCURATE TO THE ACCURATE TO	DATE MEASURE A LEST TY PAWDOWN long-term	MPLI PREACE PIED	ULAR 3	FILTER PACK (TYPE/SIZE)

15/2W-25G1

## Well 19 36-01105

## WELL RECORD

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT Company\_\_\_\_

Date drilled	Diameter	CASING 365		Packer Gauge	
Diameter	Length	CASING 365 COLUMN 300		Gauge	
Diameter	Length	CASING 365 COLUMN 300		Gauge	
Diameter  Tube diameter	Length	COLUMN 300		Gauge_	
Diameter  Tube diameter	_ Length	COLUMN 300		Gauge_	
Diameter Tube diameter	_ Length	COLUMN 300	_	Gauge_	
Tube diameter			_	-	
Date installed		_ Shaft			
Date installed			diamet	er	
Date installed		Callett J. No.			
		-	Coe		
wdkeromona	Madel Mad			Sarial -	
SizeStage	s	_ Length		beriai n	Suction
PM RPM	DESIGN	PERFORM	MANCE		
PM RPM RPM		_ TDH			HP
PMRPM		_ TDH			HP
PMRPM_		- TDH	_	_	HP
	E	NGINE			
ote installed ype_ElectMake		_			
		Model 1	2F3262	2	Serial no. 5777487
. in B&S.		HP	30		RPM 1770
ate installed		GEAR			
keModel		Ву			
ake Model					
		Universa	ls		
tes: Motor Rewind	1 64				

15/20-2561

Well 36-01165

### MONTHLY PRODUCTION RECORD

## SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

DATE	WATER METER	GPD	GPM	GAS METER	Cu. Ft.	OIL	MIN
J				3879		-	اي
F				HOHA			14
M				4034		12.73	3
A				4116		7. 10	13
M				4137		1436	8
7				4160		7	112.
				4176		3751	19.
A				4351			14
5				4274		89.87	18
C				4341		- 1	120
H				4404		10.30	20
D				4428		10,00	5-1/2
-	20001	M					1
							201.5
J				4444		3,59	3
F				4453		9,01	5.5
M				4468		4.37	4.5
A				4482		110-1	4,0
M				4494		82.64	12.0
77 77				4494		02.0	14
-				4558		87.95	17.5
A S				4608		0 1.15	7.5
				4676		86,70	12
4				7676			14
D				4715		9.52	8.5
				7733			8.5
- 2	OUGPM est.						
	242,000 GAL.	3.81 A.7.					

DUPLICATE

Temperatute of water

ginal, Duplicate and Triplicate with the DNAL WATER POLLUTION

#### WATER WELL DRILLERS REPORT

| Section: 1076, 7075, 7072, Water Cade

#### STATE OF CALIFORNIA

08-06-57 11112A F. 02
Do Not Fill In
NO 59344
State Well No 15/24-25 ROL

ty)ropriete earteri	Other well (to)
OWNER:	(11) WELL LOG:
e	Take draft 590 to Depth of completed web 590
Address	Parmy on Die vine by come observed use of material, and althounts.
Addition	058 coarse sand a gravel
	53 70 coarse sand & gravel
(2) LOCATION OF WELL:	70 104 coarse sand w streaks of
San demardine	hoovy gravel
1 5 3 Comp 8:	m4 149 coarse sand w/gravel
South 123 acors of SEt, section 29, 110	140 100 sand a gravel
lange 20, IN corner of Bryant and Cake	100 220 coarse send
Glen, nuckipa, Jalii.	220 240 coers: Sand 240 255 sand & gravel
	255 280 sand W/ some clay
(3) TYPE OF WORK (check):	280 290 sand & gravel
New well 25 Despering T Resemble state T Abandon T	290 300 sand : rock
New well to Deeperung _ Kasanar mans _	310 321 send & gr.ve1
the arangonment describe material and progedure in Item 11.	323 340 roc's 6 sand
(4) 18010322 032	340 375 sand rock
Domestic T Industrial Municipal K Rotary Cable	375 395 sned gravel, free
Ifrigation Test Well Cother Dug Well	305 41) send
	410 440 hard send 2 rock
(6) CASING INSTALLED: If grave packed	440 480 hard send & rock
SINGLE DOUBLE CON	480 500 coorse sand
fe es it Diam. Wall cf flote	-500 -555 - coarse sand
590 12 3/4" 1 18 5/8" 0 590	-555 578 coarse sand
	-578 -599 - coarse send
85/8" to 12 3/4"	590 Hard rock
ing quides	
pea '	
- be that . I take of any link	
Describe most MeTGEO	
(7) PERFORATIONS	CONFIDENTIAL - NOT
Type of perfective and mill cut	
Size of perfections 120 mesh here to 14 rows in	FOR PUBLIC RELEASE
From Server Serv	
8190 590 120 mrsh 14	
XIGO DOX DIANO	
(8) CONSTRUCTION:	MICROFILME
The confere manager and proceed XO Yo Z No To want days 150	·
Were the affects realed against population . The No. 11 res port defining firets	
From 6 U	weeks the second
	6/8 .62 July 20 6
Method of Scaling Rotary and slurry	4 - 6/8 - 62 - 11 July 20
(9) WATER LEVELS:	WELL PRILIER'S STATEMENT
A. C.	This were use denies under my arms at a and their report is true to the health have being and being
a level before perform as	C. Charles T
a level after perfersions 400 ft.	2 sted at to Act
700 101	Aud C. Box 1274
WELL TESTS:	Indio, Calif.
was test mede? Yet C No 11 74 by whem C.V. Pump	1 2 4
Yield 630 mai, faun with 340 te dege dobn after 24 her	SONED, Tenne
The state of the s	4 / 4 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 /

DUPLICATE ginal, Duplicate and Triplicate with the ONAL WATER POLLUTION

#### WATER WELL DRILLERS REPORT

WELL WAS # 0 ROL, ROZ & ROZ STATE OF CALIFORNIA

ROL BOARD No. 7

Do Not Fill In 59344 State Well No. 15/2W-25 ROI

15 OF 8-7-97 - 015/02W	- 25 RO25 St Other Well No
OWNER:	(11) WELL LOG:
	F00
Address	Total depth 590 ft. Depth of completed well 590
	Formation: Describe by color, character, size of material, and structure.  O 1: to 58 tcCoarse sand fr crayed
	Table Table
(2) LOCATION OF WELL:	Service Spile of Ki Soul
County Co	The said watterks of
R. F. D. or Street No.	104 149 coarse sand w/grayol
South 133 acers of SE2, section 25, 715	Source of the Williams
ange 2W. NW corner of Bryant and Cak	100 BERTOL
Glen, Yucaipa, Calif.	COAL AC BAILD
	LUCI SC BAILU
Was about the beautiful and the second	The state of the s
(3) TYPE OF WORK (check):	SCHOOL MY BUILD CI SV
New well Deepening Reconditioning Abandon	
If abandonment, describe material and procedure in Item 11.	The state of the s
(4) PROPOSED USE (check): (5) EQUIPMENT:	Desire to 11 Ve
Domestic   Industrial   Municipal   Rotary	TOTAL OF BAILE
Ifrigation Test Well Other Cable	775
Dug Well	The state of the s
(6) CASING INSTALLED: If gravel packed	
SINGI POURIE	11020 0000 00 1000
or Diameter from to	, and a salid of Tock
	Post State State
590 12 3/4" 3 18 5/8" 0 590	and the second section
85/8" to 12 5/4"	Proc
ing guides	- Competition
- 6 2-2-2-3	590= Hard rock
Type and size of shoe or well ring Size of gravel Dea	
Describe joint Welded slip joint Holtville	. Note for Alex
collars	(A)
(7) PERFORATIONS:	
Type of perforator used mill cut	CONFIDENTIAL NOT
Size of perforations 120 mesh., length, by 14 rows in.	FOR PUBLIC RELEASE
From to it Perf. per tow Rows per ft.	TOK FOBLIC RELEASE
8190 590 120 mcsh 14	
XXXXXXXXX	
	TATION OF THE PARTY OF THE PART
W W W W W W W W W W W W W W W W W W W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(a) containing	Sec. V. Dr. I Shert V.
(8) CONSTRUCTION:	MANG 1 11997
Was a surface maitary seal provided? X Yes No To what depth 150 ft.	MICROFILME
Were may strata scaled against pollution? Tes No If yes, note depth of strata	
From fc. to ft.	
* * * * * * * * * * * * * * * * * * *	50° 50°
Method of Sealing Rotary and slurry	F-1
(a) WATER PERF	
	WELL DRILLER'S STATEMENT:
er which water was first found ft.	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
g level before perforating ft.	NAME Coachella Valley Pump & Supply. Inc.
400 EE	Person hem to continue
WEIL TECTO	Address P. O. Box 1274
WELL TESTS:	Indio, Calif.
ump test made? Yes No 11 yes, by whom? C.V. Pump	1 11 112
gel./min. with ft. draw down after hrs.	Signed] L Vell Driller
emperature of water Was a chemical analysis made? Yes No 1	icense No. 161541
as electric log made of well? Yes No	Dated comment of the party of t

87028 6-87 SON QUIN A SPO

#20

OHNSTON PUMP DISTRIBUTORS
COMPLETE PUMPING EQUIPMENT

Licensed Contractors

Telephone EXpress 9-2192

P. O. BOX 1274 & INDIO, CALIF. 92201

SPRINKLER IRRIGATION SYSTEMS
WATER WELL DRILLING
FARRICATED STEEL PIPE

May 30, 1968

San Bernardino Valley Municipal Witer District L.D. Hook, Water Superintendent P.O. Box 458
Yucaipa, California 92399

Dear Mr. Hook:

I cannot find a copy of the report that was sent to the State on their forms, but below is the needed information as we have in our records. This information is the same as that reported.

Drilled for: E.J. Culligan Started: June8, 1962 finished: July 20, 1962

Legal description: South 133 acres of SE1, Sec. 25; T1S; R2W;

NW corner of Bryant and Oak Glen, Yucaipa, Calif.

Well Log:

0.	to	58*	Coarse sand & gravel
58"		70*	coarse sand & gravel
70		104	coarse sand w/streaks of heavy gravel
104		149	coarse sand w/gravel
149			sand & gravel
190		240	coarse sand
240		255	sand & gravel
255		280	sand w/some clay
280		290	sand & gravel
290		300	sand & rock
300		320	sand & gravel
		340	rocks & sand
		375	sand & rock
		395	sand & gravel
395		410	sand
410		480	hard sand & rock
480		590	coarse sand
590		597	hard rock
	58° 70490 190 250 250 200 375 410 480	58° 704 149 190 240 250 300 375 3910 480	58° 70° 70° 104 149 190 190 240 255 280 290 300 320 340 375 375 395 410 480 590

Casing record:

90' 12 3/4" OD X 1" wall casing

190' 590' perforations, mill cut, 120 mesh, 14 rows

Water standing level: 400'

diameter of drilled hole: 18 5/8"

Size of gravel: small pea

Sealed to 150°

Yours truly, Julia Manul Sea -

## State of California DEPARTMENT OF WATER RESOURCES Southern District

#### FACSIMILE TRANSMISSION COVER SHEET

	P RECIPIENT
	18 543-4600 Ext 22
Data Section Fax # 818	543-4604
770 Fairmort Ave. Glendale, Ca. 91203	
PAGES TO FOLLOW	APPROVAL
SUBJECT: ser our conversation	
COMMENTS:	

IF ALL PAGES SHOWN ARE NOT RECEIVED, PLEASE CALL: ATSS 8-667-4600 OR PUBLIC 818-543-4600

SOUTHERN DISTRICT FACSIMILE MACHINE PHONE NUMBERS ARE:
ATSS 8-667-46C4 OR PUBLIC 818-543-4604

#### THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

#### State Well No. O/S / OZW \_ 25ROI, S B&M

#### WELL INDEX

Location No.	County 36
Serial or Ventura No.	Areal Designation Y-0/-/6
Local or Riv. No.	Areal Designation 7-01-76  Areal Code No. 8 1-01-F6
	7 /
Bulletin 39-J No. Other No. Los No. 59344	Well Condition # 4
	Ref. Pt. Elev. 2762.0 ft.
	Effective Date
	Ground Elev. 2760.0 ft.
Data Available Filed Under	
Log 2 5050	Original Well Depth 0590 ft.
Water Analyses	
Water Levels	Casing: Dia. 1234 in., Length 0590 ft.
Prod. Records	Well Soundings Casing: Dia. 1234 in., Length 0590 ft. Perf. 190 to 590
Well Use 3	A quifer (c)
77 14 000	Aquifer (s)  Record: Begins 6/8/62, Ends

State of California The Resources Agency DEPARTMENT OF WATER RESOURCES

State Well No. 0/5 02W 25R 025B&M

		WELL	INDEX
Serial or Venture Local or Riv. No Bulletin 39-J No Other No. 2.44	a No	V.C.W.D	County S. Bernardino ( Areal Designation y 01 F6  Well Condition Ref. Pt. Elev. 2740
Nr. 20 Data Available		Filed Under	Effective date
Log		CONTROL OF ADDRODUS AND	Ground Elev.
Water Analyses	**** * ******	· consissione construction con	Original Well Depth 576
Water Levels	(e4.88) ***********	restriction of the second	Uriginal Well Depth
Prod. Records		************	Well Soundings Casing Dia. 12 in., Length
Well Use	*********** ** ** **	*************************	Perf
			Aquifer(s)
DWR 10 58 / Rev. 6/7	70)		Record: Begins, Ends

Well\_\_\_\_20

#### WELL RECORD

Rec. #36 02321

#### SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

Company\_\_\_\_

_SE_ 1/4S	SE 1/4 T	ownship_	18F	Range_	2W	_ Section	25
			PIT				
Date drilled 1962			Ву				
Depth576!	D	iameter_	12"	_	Packed_	No	
			CASING				
Diameter12"	1				Gauge	1	
"		11			"		
Perforated interva	1						
			COLUMN				
Diameter8"	L				Gauge_		
" 6"			501		11		
Tube diameter	21 "		Shaft	diome	er	1늘"	
			BOWLS				
Date installed A	pril 1966		Ву	Tur	ley Pum	p Co.	
Make Peerless	M	lodel	By 8 LB	Tur	Serial r	250120	)
Date installed Am Make <u>Peerless</u> Size 8"	M	lodel	By 8 LB	Tur	Serial r	250120	)
Make Peerless	M _ Stages	lodel 22	By 8 LB Length	Tur.	Serial r	250120	)
Make <u>Peerless</u> Size <u>8"</u>	M _ Stages	lodel 22 DESIG	By 8 LB Length	Tur.	Serial r	Suction_	O Strainer
MakePeerless Size8" GPM275	Stages	DE SIG	By 8 LB Length N PERFOR	MANCE 620	Serial r	Suction_3	Strainer 60
Make <u>Peerless</u> Size 8"  GPM <u>275</u> GPM	Stages M	22 DE SIG 1760	By 8 LB Length N PERFOR TDH	MANCE 620	Serial r	Suction_3	Strainer 60
Make <u>Peerless</u> Size 8"  GPM <u>275</u> GPM	Stages M	22 DE SIG 1760	By 8 LB Length N PERFOR TDH	MANCE 620	Serial r	Suction_3	Strainer 60
Make <u>Peerless</u> Size 8"  GPM <u>275</u> GPM	Stages M	22 DE SIG 1760	By 8 LB Length N PERFOR TDH	MANCE 620	Serial r	Suction_3	Strainer 60
MakePeerless Size8" GPM GPM GPM	RPM RPM RPM RPM	22 DE SIG 1760	By	Turi	Serial r	HP HP	Strainer 60
MakePeerless Size8"  GPM GPM  GPM Date installed1: TypeElects	RPMRPM	DE SIG 1760	By  8 LB  Length  N PERFOR  TDH  TDH  TDH  ENGINE  By  Model.	Turi	Serial r	HPHP	5trainer 60 383118
MakePeerless Size8"  GPMGPM GPM Date_installed1	RPMRPM	DE SIG 1760	By	Turi	Serial r	HPHP	5trainer 60 383118
MakePeerless Size8"  GPM GPM  GPM Date installed1: TypeElects	RPMRPM	DE SIG 1760	By  8 LB  Length  N PERFOR  TDH  TDH  TDH  ENGINE  By  Model	Turi	Serial r	HPHP	5trainer 60 383118
MakePeerless Size8"  GPM GPM GPM  Date installed1: TypeElect. Cu. in	RPM RPM 1-65 Make U. B&S	DE SIG 1760	By	MANCE 620 Turl	Serial r	HPHPSerial no.	5trainer 60 383118
MakePeerless Size8"  GPM GPM  GPM  Date installed1  TypeElect.  Cu. in	RPM RPM 1-65 Make U. B&S	DE SIG 1760	By	MANCE 620 Turl	Serial r	HPHPSerial no. RPM1	5 Strainer 60 8331187
MakePeerless Size8"  GPM GPM  GPM  Date installed1  TypeElect.  Cu. in  Date installed	RPM RPM 1-65 B&S Model	DE SIG 1760	By	MANCE 620 Turl	ey Pump	HPHP	5 Strainer 60 8331187
MakePeerless Size8"  GPM GPM  GPM  Date installed1  TypeElect.  Cu. in	RPM RPM 1-65 B&S Model	DE SIG 1760	By	MANCE 620 Turl	ey Pump	HPHP	5 Strainer 60 8331187
MakePeerless Size8"  GPM GPM  GPM  Date installed  TypeElect  Cu. in  Date installed  Shaft	RPM RPM 1-65 B&S Model	DE SIG 1760	By 8 LB Length N PERFOR TDH_ TDH_ TDH_ ENGINE By Model. HP GEAR By GEAR University	Turl 60 nosals_	Serial r	HPHP	5trainer 60 383118
MakePeerless Size8"  GPM GPM  GPM  Date installed1  TypeElect.  Cu. in  Date installed	RPM RPM 1-65 B&S Model	DE SIG 1760	By 8 LB Length N PERFOR TDH_ TDH_ TDH_ ENGINE By Model. HP GEAR By GEAR University	Turl 60 nosals_	Serial r	HPHP HP	55trainer 60 3831181
MakePeerless Size8"  GPM GPM  GPM  Date installed  TypeElect  Cu. in  Date installed  Shaft	RPM RPM 1-65 Make U. B&S Model	DE SIG 1760	By 8 LB Length SN PERFOR TDH TDH TDH ENGINE By Model HP GEAR By Serial Univers	Turi 60 nosals_	Serial r	HPHP	5 Strainer 60

QUINTUPLICATE RETAIN THIS COPY

#### WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Code)

25/2W-1182

No. 100 and	122021
State Well No	

THE RESOURCES AGENCY OF CALIFORNIA

(1) OWNER:	Metrict	(11) W	ELL	LOG:		
Name		Total depth	59		ft. Depth of completed well 600	
Address		Formation: L		y color, ch	paracter, size of material, and structure.	
			ft. to	245	fe.Hard bross gravelly	
(2) LOCATION OF WELL:		245		328	"Gray tight send &	The same of
count San Bernardine Owner's number, if any		328	"	430	"aone clay	
L.F. D. or Street No. 100 Stores cast of 5				470	"Rough gray graval	harldon
feet north of Ave. F - Tucain	En St 1000	430		456	"Brown clay with gra	
and the state of the state of			**	1,00	"embedded	
		456	16	532	" lough graval with	an oler
		500	**		"streete	
(3) TYPE OF WORK (check):		532	*1	540	"Brown clay withstr	aks of
New well Deepening Recondition	ing Abandon 🗆	540		210	Tavel	100
f abandonment, describe material and procedure in Item			45	563	"Oray and bream soft	- document
(4) PROPOSED USE (check):	(5) EQUIPMENT:	262	**	590	Frente	
Domestic   Industrial   Municipal	Rotary	- 563 - 590	-11	174	"Hard gray decempose	d greate
rrigation   Test Well   Other	Cable 🖈	370	**		Hard blue grant to	
- Test went - Other	Dug Well		10		gi-c	
(6) CASING INSTALLED:	If gravel packed		**		0.0	
INGLE DOUBLE			**		**	
	ameter from to f Bore ft. ft.	-				
\$66 · 590 ·16 ·5/16* ·		-	**			
11 14 11 11 14				_		
	н о					
	oteel				· ·	
escribe joint All joints butt sold	24946		w		(4)	-1
		-	- 44	_	D)	
7) PERFORATIONS:		_	**		n	
ype of perforator used Hills						
rom 20 ft. to 85 ft. 8 Perf. per	1		**		w.	
rompes ft. to Perf. per					W	
M			**		50	
			3463	-		
			**			
AV CONTENTION OF						
8) CONSTRUCTION:					11	
as a surface conferm out to the Table Table To the			_			
			**		at .	
ere any strata scaled against pollution? Yes No If yes.			0		u u	
rom ft. to Yes No If yes.	, note depth of strata		_			1176.0
rom ft. to ft.	, note depth of strats				и	177
rom ft. to ft.  Fing of concrete lethod of Sealing casing and format.	, note depth of strats	Work started		,2	u a	2 1968
rom ft. to ft.  Fing of concrete lethod of Sealing casing and format.	, note depth of strats	WELL DRI	LLER'S		" Completed Doc. 2	***
for any strata scaled against pollution? Yes No If yes, from ft. to ft.  Fing of concrete Many and format.  9) WATER LEVELS:  19th at which water was first found	, note depth of strats	WELL DRI	LLER'S	illed und	" Completed Doc.	***
From ft. to ft.  Fing of concrete  Method of Sealing casing and format  9) WATER LEVELS:  spth at which water was first found anding level before perforating	note depth of strata	WELL DRI This well my knowled	LLER'S	illed und belief.	Completed Doc. 2  EMENT:  er my jurisdiction and this report is a	***
	note depth of strata	WELL DRI This well my knowled NAME K	LLER':	illed und belief. Person, fire	Completed Comple	rue to the best o
for any strata scaled against pollution? Yes No. If yes, from ft. to ft.  Fing of concrete lethod of Scaling casting and format.  9) WATER LEVELS:  speth at which water was first found anding level before perforating and glevel after perforating.	anote depth of strata  lon  310 ft. 306 ft.	WELL DRI This well my knowled	LLER':	illed und belief. Person, fire	Completed Comple	rue to the best o
fere any strata scaled against pollution? Yes No. If yes, from ft. to ft.  Fing of concrete Method of Scaling coasing and format  9) WATER LEVELS:  10) WATER LEVELS:  10) WELL TESTS:	anote depth of strata  lon  310 ft. 306 ft.	WELL DRI This well my knowled NAME K	LLER':	illed und belief. ND Wi Person, fire	Completed Comple	rue to the best o
fere any strata scaled against pollution?  Yes No If yes.  From ft. to ft.  Fing of concrete Method of Scaling consing and format.  9) WATER LEVELS:  10 before perforating and green and	anote depth of strata  lon  310 ft. 306 ft.	WELL DRI This well my knowled NAME K	LLER'S was dr	illed und belief. ND Wi Person, fire	Completed Dec. 2  EMENT:  er my jurisdiction and this report is a second completed of the completed dec. 2  EMENT:  er my jurisdiction and this report is a second completed of the completed dec. 2  EMENT:	rue to the best of

## (Sections 7014, 1011, 2014, Water Could)

### THE RESOURCES AGENCY OF CALIFORNIA

700	1.661166
State Well No.	143028
Other Will No.	

4 and appropriate as about	Other Will No. Door Fee
, 11 OWNER:	(II) WELL LOG: TOPO - TAKE
10	Total death COO
Adress	Formation: Denumbe by color, character, use of material, and structure.
	0 has 245 h Bard bro a gravelly clay
(2) LOCATION OF WELL	
(2) LOCATION OF WELL:	215 " 329 " Gray tight and and arrayal
County San Formarilino Osner's number, if sny- (314)	come clare
A. F. D. of Street No. 100 ft. of 5th St1000 ft North	
of F St. Yucaipa.	328 " 430 " Rough gray, guard and
Zwenne F	boulders, some clay
7	Tan
A TURE OF WARE ALL ALL	#30 " 456 " Brown clay with gravel or -
(3) TYPE OF WORK (check):	090000
New well Deepening Reconditioning Abandon	456 " 532 " Rough gravel with feet along
If abanJonment, describe material and procedure in Item 11.	456 " 532 " Rough gravel with few elect
(4) PROPOSED USE (check): (5) EQUIPMENT:	** **
Domestic   Industrial   Municipal   Rotary	_532 " 550 " Proin clay with streets of
Irrigation   Test Well   Other   Cable	" gravel.
Dug Well	
(6) CASING INSTALLED: If gravel packed	540 - 563 - Gray and brown, soft
SINGLE DOUBLE Core Diameter from to	decomposed granite.
110m0 ft. to 556 ft. 611 Diam. 1 /11 Wall of Bore ft. ft.	
<u>566 590 11 5/16</u>	المتالية الم
	granite.
)	" 590 " Hard blue samita
	590 " Hard blue granite.
Type and size of shoe or well ring Bat. Stool-16" \$727879	
Drente joint All joints butt weld	
(7) PERFORATIONS:	
Type of perforator used Hills	
Size of perforations 21/2 in., leneth, by 7/16 in.	
From 3201. 10 585 ft. 8 Perf. per row 1 Bons our fe	
M	
	н н
(8) CONSTRUCTION:	
Vas a surface sanitary seal provided? Z Yes D No To what depth 20 ft.	
Were any strate staled against pollution? Tes No If yes, note depth of strate	и и .
From fs. to fs.	
" Ring of concrete between and	
Method of Scaling and formation	W-1 1
	- 10 Va 2 " 05. completed Pigg. 27 1965
(9) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth at which water was first found 31.0 fe.	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Standing level before prefarating 306 ft.	
elevel after perforating 30.5 fr.	NAME Kirkland Voll Sanvice (Person, hem, or corporation) (Typed or process)
0) WELL TESTS:	Address 32291 Dunlap Blyd, Yngaina, Calif.
Was a pump sees made! The Pi No. 1f yes, by whom?	
Yields. raf from with	[Sienes] N. A. Million
Temperature of water Was a chemical analysis model   Yes   No	1/ CV 12 Vell Deille
"as electric log made oil well?"   Yes   No	License No. 16.1.) C. Dated - 16:16

25/2W-11B2\_ Well\_24 36-02322

#### WELL RECORD

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

Company	
---------	--

NW 1/4 N	E 1/4 Townshi	p 25 Range 2	Section_//
Date drilledDec	1965	PIT By Kirkland	
Depth_ 590	Diamete		
. 217.0	Jidillo 10	r <u>dable Tool</u> Paci	(60
2.4		CASING	
Diameter 16	Length	590 Gaug	ge <u>\$</u>
Perforated interv	320 to 585	2½ by 7/16	
0		COLUMN	
Diameter8	Length	Gau	gestd
-			-
Tube diameter	3	Shaft diameter_	1-11/16
Date installed_Jun	a 66	BOWLS	
Make Johnston		By Roberts LLABC imp F Seri	JY-235h
Size14	Stages 12	Length	Suction To France
	•		_ 00011011 <u>10 16 k</u>
2000	DES	IGN PERFORMANCE	T
GPM_850 GPM_750	RPM 1/88	TDH_5-60	
GPM		TDH	
	111 111		HP
Second of S		ENGINE	
Date installed	une 66	By Robert	5
Type	Make	Model	_ Serial no
ou. In	885	HP150	RPM//60
		GEAR	
Date installed		Ву	
Make	Model	Serial no	HP
Shaft		Universals	
Notes: 1.00	64 -1-71		
Votes: 400 P-61 Pump con	trol valve in	stalled. Warric au	tomation to the
2nd. St. rese	rvoir. Well h	as 10 min. blow of	f time for heavy
	n ornanimand	for first 5-10 min	

427

Other Well No ..

INV	105205
State Well No	

#### THE RESOURCES AGENCY OF CALIFORNIA

(1) OWNER:		(11) WE	LL LOG:				- 12.01
Name		Total depth			epth of completed w	.11	314
Address					ize of material, and it		211
			ft. to	ft.			
		_0	" 15	**	10P Sc	11	
(2) LOCATION OF WELL:		-15	" 15	**	SAND .	+CI	AY
County , Owner's number, if a	iny—	-15	" 55	**	CIAV		
R. F. D. or Street No.		55.	" 116	NF.	SAND		
Heat they See.	r (t topics	110	" 130	**	SAND +	GR	AVEL
Colourses Collin	1 Calling	130	" i61		SAND Y		
	L V. II	161	"175		SAND	400	-13
		125	" /3 "		SAND	U Da	101
		18 7	110		~	+ C/	
(3) TYPE OF WORK (check):		210	. 151	.,	Rock		14
New well D Deepening Recondition	oning Abandon D	250	. 300	* "		. D.	P
If abandonment, describe material and procedure in It.		300	. 314		SAND		
(4) PROPOSED USE (check):		300	2/ /		DECONF	SED	C. RAIVI
	(1) EQUIPMENT:			**		_	
Domestic 📝 Industrial 🗌 Municipal 🗀		-	_				
Irrigation Test Well Other	Cable		41				
	Dug Well		40	"			314
(6) CASING INSTALLED:	If gravel packed	-	-10	**		1/	1)
SINGLE DOUBLE D		10	**		1	4	
From ft. to ft. Diam. Wall	Diameter from to of Bore ft. ft.	-	0	- 11	. 10		
"C" 3/4" 5/2 X 1/6"	124 00 114"		**		net		
		_	**		PER		
	- "			**			
			**	**			
			11	in .		-	
				16	25		
	Size of gravel: / L '-1			25	20		
Describe joint [ ',	Ĭ.		0010				
AND DEPOS AMERICA			10				
(7) PERFORATIONS:							
Type of rerforator used 110							
Size of perforations 1/4 in., let	neth, by in.	_	**	** .			
From ft. to ft. Perf.	per row Rows per ft.			**			
" 167" 314 " 4"				**		_	
				-			
v v v		-	.e.				
		-	**			_	
(8) CONSTRUCTION:			"	**			
Was a surface sanitary seal provided? TYes INo To w	hat depth fy' ft.		"	- 11			
Were any strata scaled against pollution? Yes No If				**			
Halicocc	yes, nace depth of strate		**	46			
				- 11			
W. I. I. Co. II.			.0	H			
Method of Sealing (11)1.1.1		Work started		15	Completes	1	
(9) WATER LEVELS:		WELL DRIL	LER'S STA	TEMENT			
					urisdiction and th	is rebort	t is true to the
Depth at which water was first found	ft.	my knowledg	e and belief.	-11	- white-standards and		
Standing level before perforating	ft.	NAME K	1, 1.	1:00			
Standing level after perforating .	ft.			firm, or cor	1		hed or printed)
(10) WELL PECTO		Address '/	145	1: 11	57: 1. 14.	11.11	11
(10) WELL TESTS:		5117	17500	Chank's	112 . C.	111	
Was a pump test made?   Yes   No If yes, by whom?			11	CON	* 5		
Yield: gal./min. with	ft. draw down after hre.	[SIGNED]A		X-17/5	Well Driller	A	
Temperature of warer Was a chemical and	lysis made?  Yes  No	License No	15/0	.26	_ Dated Fe	1	2'
* where we'll (1 Not IV No						-	19.1
20 A C C C C C C C C C C C C C C C C C C		B/646 E-81 66M	Britte ()) V ass	Alla	3 n Rece		DRH INE IN

MONITORING WELL NEXT TO WELL 21 Wall 27 A

STATE OF CALIFORNIA 25/2W-8F2 Montage Well

NOT WELL 27 THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES

al Permit No. or Date 07208923	Other Well No
(1) OWNER: Name_	(12) WELL LOG: Total depth207 ft. Depth of completed well 207 ft.
	from it. to ft. Formation (Describe by color, character, size or material)
City	0 -660 ft fine sand
(2) LOCATION OF WELL (See instructions):  County San Bernardino Owner's Well Number	60 - 150 ft medium & coarse sand, small gravel. 160 - 180 ft Blue Granite (Decompose).
Well address if different from above Wildwood Canyon	- The termination
Township 2 S Range 1 W Section 8	- 11.0
Distance from cities, roads, railroads, fences, etc.	- 0 %
Assessors Parcel #322-212-30	- 101
THE TAXABLE TO THE TAXABLE TO THE	- 1/4.0
	1 1
(3) TYPE OF WORK:	
New Well Deepening	12
Reconstruction	- 1
Reconditioning	1 - 6 6
Horizontal Well	1111- (5)
Destruction [ (Describe destruction materials and procedures in Rem 12)	12. 0
	- Co Colo
(4) PROPOSED USE.	(S) (S) (S) (S) (S)
Irrigation	
Industrial	
Test Well X	
Stock	175 - 1644
Municipal	4 -0/1/2
WELL LOCATION SKETCH Other	
(5) EQUIPMENT: (6) GRAVEL PACK:	A Same
Rotary Reverse   No   Size Pen Chavel	- 300
Cable   Air   Propeter of bore 121	6001
Other   Bucket   Packed from 20 to 207 ft	111111111111111111111111111111111111111
(7) CASING INSTALLED: (8) PERFORATIONS:	- B 8
Steel   Plastic C Concrete O Type of perferation or nize of screen	18 888
	- 10 27:
from To Dia. Gage-or From To Slot ft. ft. wall ft. ft. size	
	- 100
0 207 Sch49 160 207 .202	
17 Miles	-
(9) WELL SEAL:	
	-
Were strata sealed against pollution? Yes No Interval ft.  Method of sealing Bentonite	
(10) WATER LEVELS:	Work started 6-21 1989 Completed 6-23 1989
Depth of first water, if known 65 ft.	WELL DRILLER'S STATEMENT:
Standing level after well completion ft.	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
(11) WELL TESTS:	SIGNED SE CA CASS
Was well test made? Yes □ No.□ If yes, by whom?  Type of test Pump □ Bailer □ Air lift □	(Well Driller)
Show and Trumb C Daniel C Wit life KK	NAME SoCal Pump & Well Service, Inc.,
'h to water at start of test ft. At end of test ft  hours Water temperature	Address B85 W. Valley Blvd (Typed or printed)
	and the second s
Chemical analysis made? Yes No lf yes, by whom?	City Bloomington, California Zip 92316 License No.519836 Date of this report Nov 1, 1989
was electric log made? Yes Now If yes, attach copy to this report	License No.519836 Date of this report Nov 1, 1989

WECL TO

A DISTRICT

YUCWD

(Continued on reverse side)

SAN LANARDINO VA. WATER CONSERVA 14 West Citrus A rive - Redlands, C Should be Well 28 EIL LOG

fornia DAN

			, T	, R		
lled by Br	oclonan .		Date completed _			
iling method	Rotary					
et dispets - Ó	05 ፣	Size of casing and depth.		Gauge		(Double
a of wall	Trikacion					
when the state of the		, SWL before perforation	ng:	after peri	orating	
nek witter ne mintias tast	data: SWI.	PWL	Discharge		Hours run	
Commission Contraction	2341,2	Source of information			·	
		Dogree of financial				
forations						
	نکاری دید کیا باد					
Depth	Elev. Bot. of Stratum	Mate	rial		Thickness	
0-10		Top Soil		,	!_	
10-25			•		18	
23-50		Soft Clay	•		22	
		Sandy Rock			22	
50-72		Clay			83	<u> </u>
72-160-1		Sand		*	لذ	
69-191		Soft Clay			<u> </u>	
71-205		Sand, Gravel			1.3	
05-218		Clay			30	
8-256		Black sand			8	
10-270 56-35-35	. <del></del>	Soft Clay			62	
5 <del>-</del> 329		Sand and Rock			11	
9-1,08		Sandy Clay		2.高音	79	
8-420		Sand			and the first section in the section	12 (84) 11 (14)
20-4-90	<u> </u>	Clay and Faw Rocks			7:	
		Sand				
0-494	<del></del>	Sandy Cray			38	
77-532	<del></del>	Clay Rock	·		33	
32=555	9	Fine Sand			-34	
5-572 2-606		Clay			34	
=0.00					<u> </u>	· · · · · · · · · · · · · · · · · · ·
	<del></del>					
<del></del>						<u> </u>
					7.	
<del></del>		FIEV DE INE	11 374	1.2		·
		The state of the s				
	V .					
	ı •	_			· · · · ·	
	7		•	!		
<del></del>						

Whop filled out, please mail this form to San Bermardino Valley Water Conservation, District The Circum Ava. Redlands, Culifornia

Pumped 45 miners inches

Owner's  Owner's  Owner's  Date Word	of Well No Began	- inn	_	_	_		. Ended _u_	Refer to 10	°.766	ON REPO	RT DW9 L	STATE V		DISTAT	NOT FILL IN -
Permi	t No.	22720					Riv./3e	rvice A	gency	20 2000		A	PNTRS	OTHER	
ORIENTATI DEPTH SURF	ON (∠) FROM	DRILLIN METHO	ERTII IG D _	CAL	_		HORIZONTAL	ANGLE	_ (SPECIFY)	Name		OWNE	er —	£	92399
Ft lo	FI									Address Ptn	WELL I	OCATI	ox-	St	MIE ZIP
		grade. Cut off casing, gravel well up to								City Cal	13083				
	Install 2" tramie line ofd pumped in a 10 sack sand slurry mix, remove tramie and backfill hole.							100	Latitude DEG	Page Range 14 NORTH SEC DEATION SKETCH	_Section Long	211	16 DEG		
1											NORTH	2		MODIF	NEW WELL FICATION REPAIR Despen Other (Specify)
23.33	THE OF	BORING	EL.	· ·	0,0	_ F	ind			WATE DEPTH TO FIRST I DEPTH OF STATIC WATER LEVEL ESTIMATED YIELD TEST LENGTH	SOUTH  Distance of Well from Board attach a map Use addited a Map Use addited by the COM R LEVEL & YIELD WATER (FL) E	OF CO	OMPL OMPL URFACE URED	PLA: WATER CATHO  VAR	DESTROY (Describe Procedures and Material Procedures a
DEPTI FROM SUF		BORE- HOLE	T	YPE	( =	41		CASING (S)			DEPTH FROM SURFACE		ANN		MATERIAL
Ft to	Ft.	DIA. (Inches)	BLANK			FILL PIPE	MATERIAL GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNES		Ft. to Ft		BEN- TONITE		FILTER PACK (TYPE/SIZE)
	160 308		X	x			steel steel	3"	·250 ·250						
						1									
						H					1	1			
ATTACH ADD	Geologic Well Con Geophys Soil/Wate Other	istruction Di ical Log(s) er Chemical	agra Ana	m	-	ISTS	ADDRESS Supped		Collier ORPORATION OX 548	s report is comple	TION STATEMENT te and accurate to the Cal Pump and Riverside, C	best of	1, I 2517	nc.	ge and belief.

WELL # 2- N.J. SAN TERNAR

SAN TERNARDINO VALLEY WATER CONSERVATION - 1/2 West Citrus Avenue - Redlands,

District of fornia wilder

SHEET\_

297. 28 28 28/1W = 97-2

WELL LOG

itten			1	
		;	Section, T	71
7-	Nor.		Date completed Dog	. 1959
ted by Tre	Patame		. Hale trickly contained	
ing method	Rotary	Size of casing and dopth 8" & 6" 289	Gauge	(Caurie)
ni depth	24.	Size of casing and depth	Gungo-	(515;-0)
e of well		, SWL before perforating	ofter perforation	
uck water at.	500 A 100	PWL Discharge	Figure r	uı,
piction test	data: SWI -	PWL Discharge		
		Source of information		
orations -				
			4	
Depth	Elev. Bot. of	Material	Thickness	1
Depth	Stratum	*		1
C-2		Surface Soil	. 1 2	
2-25		Coarse pea gravel	25	_1_
25-30		Coarse Sand	5	
30-15		Gravel (small) and Sand	2.5	
1,5-70		Decemposed Granite (soft) and Bl	uo Shalo 25	
717-35		Fino Sand	-5	
85-200		Coarso sand and gravel with occa	sional 115	
02 1.00		rock		
200-215		Light colored decomposed granite	15	
215-289		Granite - broken	74	
227 201				
		Standing water level 35° prior to	casing and cleans	ng
- V		Casing:		
		8" Id 130		
		8" 00 130-160		
		6" OD 160-289		
			1	
		Pump Test January 1960		
				_'
		Static W/L 10 Ft.	*	
		100 GPM 80 Mt.		
		1 125 GPM 95 Ft.		
		150 GPM 113 Ft.		
	-	170 GPM 141 Ft.		
				-,
		Pump tosted about 3 weeks before o	oming in	
,				T.
•				
,				
,				V
,				
marks:		3/4	15'	

**Owner's Copy** 

of Intent No.

### THE RESOURCES AGENCY

Do not fill in

No. 093756

DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Permit No. or Date 11248101	-	DRILLERS REPURI	State Well No
(1) OWNER			Other Well No
(1) OWNER:		(12) WELL LOG: Total depth.	4 Park /
Address		from ft. to ft. Formation (Describ	e by color, character, size or material)
City	zip 92399		by color, character, size or material)
(2) LOCATION OF WELL (Se		-	
(2) LOCATION OF WELL (Se	Owner's Well Number	-	
Well address if different from above	t Ivy Aven ue and .	- 4	
Township 15 - 11	FIEROUC S	-	1/2
Distance from cities, roads, railroads, fences etc.	Assessors Parcel	- (	V
Distance from cities, roads, railmads, fences, etc	No. 320-181 0- 43	111	
		- 1	
		1 1	
Ĭ	(3) TYPE OF WORK		
1	New Well Deepening	16	
1		1	
1	Berne distante	- A	5
		- 61	)
110		G/10 - 1111	
	Destruction (Describe destruction materials and	110-111	0
IVY St. IXI	procedures in Item	V-0	Ra V
FI,	(4) PROPOSED USE	0/15	(2)
2 2	Domestic	-1/0	
		1-0	•
<u>ै</u>	( ) ) )	107 to 1/10	
a)	Test Well	11111-	
- M.	Stock	100 - 100	
CARTER STREE	Municipal	1-000	
WELL LOCATION SKETCH	Other community i	P	18
5) EQUIPMENT: (8)	GRAVED PACK:	R - 9	1 A 3
lotary   Reverse E Vag	No Size		D 4 DO 60
10.	ter of bore 24	-0/1) à	COCAIDE NO
ther Bucket Bucket	Strom 10	VIII -	DONN VALLE
7) CASING INSTALLED (8)	ERFORATIONS:	-	A METALIFIE TO
teel   Plastic   Concrete   Type	of pentilipon or size of screep	-	0.
From To Dia Gageor Fr	Tolke S OT When		Bar
ft. ft in. Wall	ft. Size		
1/1	0 010	V	
	01/10/0	1	
	all to		
9) WELL SEAL:	40	-	
as surface sanitary seal provided? Yes	No I If yes, to depth 50 ft.		
Vere strata sealed against pollution? Yes	No Interval ft.	1 - 12 - 12 - 12 - 12	
ethod of sealing 9 stack on	out mix	Work started 11/25/ 19 81	Completed 11/27 19 81
10) WATER LEVELS:		WELL DRILLER'S STATEMENT:	To It I I
epth of first water, if known	ft.	This well was willed today my judicioning	A ship advantage and the same
tanding level after well completion	ft.	knowledge and policif	ond this report is true to the best of my
11) WELL TESTS: 'as well test made? Yes No 11	one by orbinal	SIGNED U	Day Voll
	yes, by whom?	/ HEVITTU POTITION	Driller )
epth to water at start of testft.	At end of testft	2 14 60 14 60	
rgegal/min_afterhou	ž.	Address 591 South Ma Limit	
	yes, by whom?	City_ La Habra, Cali	f. 90631 Zip 90631
the about the same as a second	yes, attach copy to this report	License No. 306291-C574SC-610	La V

#### الرا شده الاستان والمدار و WATER WELL DRILLERS REPORT

Do Not Fill In

21869

REGIONAL WATER POLLUTION CONTROL BOARD No. (Insut appropriate number)

(Sections 7076, 7077, 7078, Water Code)

WIL # 33\_

State Well No	
Oshas Wall No	33 YUCWO

(1) OWNER:	(11) WELL LOG:
Name	Total denth ir. Depth of completed well
Address	Formation: Describe by color, character, size of material, and structure,
	U fr. to 20 fr. ROCK
	20 50 SATIN CLAY
(2) LOCATION OF WELL:	50 88 SANDY CLAY PEA GRAVEL
County Owner's number, if any-	E8 94 SANDY CLAY
R. P. D. or Street No.	94 97 ROCK
LVX ST. DEF BRYANT	97 148 SANDY CLAY ROCK
- LVY ST. OFF BRYANT	148 197 SANDY CLAY
	197 221 SANCY CLAY SMALL GRAV
	221 366 " SANDY CLAY ROCK
7/1/2012 12 12 12 12 12 12 12 12 12 12 12 12 1	_ 366 393 SANDY ROCK D G
(3) TYPE OF WORK (check):	393 455 D G CLAY
New well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐	455 465 D G SAND ROCK CLAY
If abandonment, describe material and procedure in Item 11.	_ 465 " 479 " D G GLAY
(4) PROPOSED USE (cbeck): (5) EQUIPMENT:	479 "- 456 " SAND ROCK D G
Domestic   Industrial   Municipal   Rotary	HARD
Indication M Test Well C Other Cable	
Irrigation   Test wen   Other   Dug Well	н н
(6) CASING INSTALLED: If gravel packed	- n
SINGLE DOUBLE Gage Or Diameter from to	
From ft. to ft. Diam. Wall of Bore ft. ft.	(I) (I)
0 475 12 4	* 1
	W
	4. 4.
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**
Type and size of shoe or well ring Size of gravel:	
Describe joint	W W
(7) PERFORATIONS:	. as
Type of perforator used MILLS	
Size of perforacions 3/8 in., length, by in.	*
From fr. in fr. Perf per tow Rows per ft.	0 10 10 10 10 10 10 10 10 10 10 10 10 10
<u>340</u> 460 5	
4	*
production of the second of th	
(8) CONSTRUCTION: NO SAN TRAI SFAL	
	" "
Was a surface senitary seal provided? Yes No To what depth 200 ft.	6 9
Were any strate sealed against pollution? Ø Yes 📋 No It yes, note depth of strata	
From 0 fr. to 200 fr.	
n i	* *
Method of Sealing WELD PIPE SOLID	Work started 19 , Completed 19
7/47 (1974) (1974) (1974)	WELL DRILLER'S STATEMENT:
(9) WATER LEVELS:	This well was drilled under my jurisdiction and this report is true to the bes
Depth at which water was first found 300 ft.	my knowledge and belief. ( & 1h.
Standing level before perforating 255 it.	NAME Row Nullene done
Standing level after perforating 245 ft	(Person, firm, or surperstude
	Address 25325 Fallender Biland
(10) WELL TESTS:	From Histor hotel
Was a pump test made? Yes Z No If yes, by whom?	20 Milit
Yield: gal./mio. with fr. draw down after hra.	[SIGNED] . O Well Driller.
Temperature of water Was a chemical analysis made? Yes No	License No. 231340 Dated 6/1 194
Was electric log made of well? ☐ Yes ☐ No	93087 3 54 5 M QU N S SPO DWR FORM NO. 246 (REV 3
Environment State Chi., The Time Time 1	Din Formito and they o

15/1W-zom1

DUPLICATE
Retain this copy

STATE OF CALIFORNIA
THE RESOURCES AGENCY

### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do Not Fill In

Nº 104927

State Well No.

233   251	MO M	NER:						(11) WELL LOG:						
Address  (2) LOCATION OF WELL:  (2) LOCATION OF WELL:  (3) Constitution of Market and Soft So. of center of Location and Soft Soft Soft Soft Soft Soft Soft Soft	Name							Total depth LUN ft. Depth of completed well LUN ft.						
(2) LOCATION OF WELL:    Committed   Commi	-													
Convey San Bernarding   Court's marker, if are 36   Brown Clay, gravel, boulders   155   Court San Bernarding   Court's marker, if are 36   Brown sandy clay, sharp gravel, few boulders   155   Court of the sandy clay, sharp gravel, few boulders   155   Court of the sandy clay, sharp gravel, few boulders   155   Court of the sandy clay, sharp gravel, few boulders   155   Court of the sandy clay, sharp gravel, few boulders   155   Court of the sandy clay, sharp gravel, few boulders   155   Court of the sandy clay, sharp gravel, few boulders   155   Court of the sandy clay, sharp gravel, few boulders   155   Court of the sandy clay with small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay, sand, small gravel embedded   155   Court of the sandy clay clay, sand, small gravel embedded   155   Court of the sandy clay clay, sand, small gravel embedded   155   Court of the sandy c														
San Pernardino Over method it and the control of th	(2) TO	ATION	J OF W	EII.										
Trombus francists action at 2501 So. 301 So. 30 So. of center of Ivy   155   233     Ive. 371   Fast of center of Jefferson St. Yun.   155   233     Ive. 371   Fast of center of Jefferson St. Yun.   155   233     Ive. 371   Fast of center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of Center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of Center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of Center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of Center of Jefferson St. Yun.   155   233   231     Ive. 371   Fast of Center of Jefferson St. Yun.   155   250   250   250     Ive. 371   Fast of Center of Jefferson St. Yun.   155   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250						trans 1	36							
Server material states are 360 So. of Center of Try   155 231							30							
Street   S							. P T							
Construction   Cons														
New Wall St. Despening   Reconditioning   Destroying   De						erson	St. Yuc.							
				(check)	):									
(8) CONSTRUCTION:  (9) WATER LEVELS:  (9) WATER LEVELS:  (1) Separation of fine fine fine fine fine fine fine fin			0-1-1-1				ng 🗀							
Domestic [ Industrial   Municipal [ Rotary   Cable   C	If destruction	on, describ	e material a	nd procedu				-21						
Properties   Cable   Other	(4) PRC	POSED	USE (	check):		(5) EQU	IPMENT:							
Color   Casing installed:   Steel: Other   Color   Casing installed:   Color   Casing installed:   Color   Casing installed:   Color   Casing installed:   Casing in						Rotary								
Second Comparison of the com	Irrigation	Tes	t Well	01	ther 🗌	Cable	1							
STEEL:  OTHER:  If gravel packed  From 10 of From 10 Office From 1						Other		430 440						
STEEL:  OTHER:  If gravel packed  OCOPIES TO  Copies To	(6) CAS	SING I	NSTALI	ED:				Blue decomposed granite						
From to Dism. Wall Bore ft. ft. General Manager From To Office test Manager From To Office To				10.	If	gravel pad	ked							
From to Dimerce of the first to Diam. Will bore for the first to Director Manager of the first to D				H:										
From To per per Size ft. ft. row ft. in. xin.    Perf.   Rows   From To per per   Size ft. ft. row ft. in. xin.   Perf.   Rows   From To per per per   Size ft. ft. row ft. in. xin.   Perf.   Rows   From To per per per   Size ft. ft. row ft. in. xin.   Perf.   Rows   File   Perf.   Perf.   Rows   File   Perf.   Perf.   Rows   File   Perf.   Perf.   Perf.   Rows   File   Perf.	SINGLE A	, 5002	11	,	1			Copies to:						
The state of the s		1 1		Gogo		2	1	Director umager						
O this or well ring: 12 x 3/4 x 12 size of circled:  Discribe innut  All joints butt weld  (2) PERFORATIONS OR SCREEN:  Type of perturation or name of circum  From To per fit. fit. row fit. in. xin.  251 260 6 3 cemters 5/16 x22 into annular space from 50 depth to surface.  (8) CONSTRUCTION:  We as varieties valitary and provided? Yes No E Hym, note depth of circum  From fr. to fit.  We as varieties valitary and provided? Yes No E Hym, note depth of circum  From fr. to fit.  We as varieties valitary and provided? Yes No E Hym, note depth of circum  From fr. to fit.  We as varieties valitary and provided? Yes No E Hym, note depth of circum  From fr. to fit.  We as varieties valitary and provided? Yes No E Hym, note depth of circum  From fr. to fit.  We as varieties valitary and provided? Yes No E Hym, note depth of circum  Well Drillers STATEMENT:  This well was defiled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (10) WELL TESTS:  Was pump true made? Yes No I fr. drawdows after was a chemical analysis made? Yes No I for the depth of the fit.  Was pump true made? Yes No I fr. drawdows after was a chemical analysis made? Yes No I fr. drawdows after was a chemical analysis made? Yes No I for the control of the fit.  Was pump true made? Yes No I fr. drawdows after was a chemical analysis made? Yes No I for the control of the fit.  Was pump true made? Yes No I fr. drawdows after was a chemical analysis made? Yes No I for the fit of the fit.  Was pump true made? Yes No I fr. drawdows after was a chemical analysis made? Yes No I for the fit of the fit.  Was pump true made? Yes No I for the fit of the fit.  Was pump true made? Yes No I for the fit of the fit.  Was pump true made? Yes No I for the fit.  Was pump true made? Yes No I for the fit.  Was pump true made? Yes No I for the fit.  Was pump true made? Yes No I for the fit.  Was pump true made? Yes No I for the fit.  Was pump true made? Yes No I for the fit.  Was pump true made? Yes No I for the			Diam		ALC: THE PARTY OF		fr.	General Marie						
To what we re well ring. 12 x 3/4 x 12 size of exerved:    Commoding Engine   Commoding E					Done	***		A A I O I I I I I I I I I I I I I I I I						
Superficiency   12 x 3/4 x   2   2   2   2   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   2   3   4   4   3   3   4   3   3   4   3   3	0	443	12"	4	-	-	-	Committee Engineer 112						
Constitution   Cons						-	-	Could be a second of the secon						
Describe ions:  All joints butt weld  (7) PERFORATIONS OR SCREEN:  Type of perforations or name of acreen  Perf.  From To per per per Size  260 430 6 112 centers 5/16 x22 into abmular space from 50 depth to  surface.  (8) CONSTRUCTION:  Was a surface aniltary seal provided? Yes No I To what depth  From fi. 10 ft.  Wore any acres asceled against pollution? Yes I No I If yes, note depth of strate  From fi. 10 ft.  Was a surface aniltary seal provided? Yes I No I If yes, note depth of strate  From fi. 10 ft.  Work any acres asceled against pollution? Yes I No I If yes, note depth of strate  From fi. 10 ft.  Work strated 12/18 19 75 . Completed 2/3 19 76  Well Distribution and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (10) WELL TESTS:  Was aum face with first found, if known 245 ft.  Standing level after perforation, and developing 245 ft.  Standing level after perforation, and developing 245 ft.  Management of the perforation and developing 245 ft.  Sinding level after perforation, and developing 245 ft.  Sinding level after perforation and developing 245 ft.  Sinding level after perforation and developing 245 ft.  Sinding level after perforation, and developing 245 ft.  Sinding level after perforation and developing 245 ft.  Sinding level after			17 7	111 - 1	28			C Auchor						
Describe joints  All joints but weld  (7) PERFORATIONS OR SCREEN:  Type of perforation or name of screen  Wills  From To per per per fit, in. x in.  251 260 6 3 cemters 5/16 x/2/2  260 430 6 112 cemters 5/16 x/2/2  260 430 6 112 cemters 5/16x/2  into annular space from 50 depth to surface.  (8) CONSTRUCTION:  Was auties valuery real provided? Yet \( \) No \( \) If yet, note depth of sterss from  fit to fit.  Prom fit to fit.  Wark started 12/18 is 75 . Completed 2/3 is 76  Well Drillers Statement  Well Drillers Statement  Standing level after perforating, if known 245 fit.  Standing level after perforating, if known 245 fit.  Standing level after perforating, if known 245 fit.  NAME Kirkland Well Service  Was sumpted and value yet of the perforating, if known 245 fit.  NAME Kirkland Well Service  (Verson, furn, or corporation) (Typed or priested)  Address 32291 Dmlap Rivd.  Was sumpted water Was a chemical analysis madel Yes \( \) No \( \)  To be in future  Was alchemical analysis madel Yes \( \) No \( \)  To be in future	wol shoe w							B / K 1035						
(7) PERFORATIONS OR SCREEN:  Type of petforation or name of screen  Petf. Rows  From To per per size in. x in.  251 260 6 3 centers 5/16 x/2\frac{1}{6}  260 430 6 112 centers 5/16 x/2\frac{1}{6}  270 6 20 4 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x	Denribe juint	A	11 joi	nts bu	rtt weld			A TOTAL TOTA						
From To per fit. fit. row fit. in. xin.  251 260 6 8 centers 5/16 x82\frac{1}{2}  260 430 6 112 centers 5/16x2\frac{1}{2}  260 412 centers 5/16x2\frac{1}{2}  260 412 centers 5/16x2\frac{1}{2}  260 412 centers 5/16x2\frac{1}{2}  260 412 center	(7) PER	FORA	TIONS	OR SCI	REEN:	(2)		T Shep Y.V.C.W.						
From To per per ft. ft. ft. row ft. in.xin.  251 260 6 3 centers 5/16 x/2	Type of perio	ration or nar	me of screen	1	HILLS			412						
From ft. ft. row ft. in. x in.  251 250 6 3 centers 5/16 x22   260 430 6 12 centers 5/16 x22   260 430 6 12 centers 5/16 x22   into annular space from 50 depth to surface.  (8) CONSTRUCTION:  Was a variace sanitary real provided? Yes No To what depth 50 ft.  Were any variate valied against pollution? Yes No E If yes, note depth of stesse from ft. to ft.  From ft. to ft.  (9) WATER LEVELS:  Depth at which water was first found, if known 245 ft.  Depth at which water was first found, if known 245 ft.  Standing level before perforating, if hnown 245 ft.  NAME Kirkland Well Service  (10) WELL TESTS:  Was pump test made? Yes No I If yes, by whom?  Was a chemical inalysis made? Yes No I If yes, by whom?  Was a chemical inalysis made? Yes No I If yes, attach copy  To be in future  To be in future  Size purposed  Into annular space from 50 depth to surface.  Into amnular space from 50 depth to surface.  Very any strate depth of stesses  Into amnular space from 50 depth to surface.  Well Drillers STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  Of my knowledge and belief.  NAME Kirkland Well Service  (Verson, firm, or corporation) (Typed or printed)  Address 32291 Dunlap Rivd.  Yucalpa, Ca. 92399.  License No. 168847 Dated Feb. 14 , 19.76				Dark	Rope			File						
251 260 6 3* centers 5/16 x2\frac{1}{4}  260 430 6 12* centers 5/16x2\frac{1}{4}  into annular space from 50' depth to surface.  (8) CONSTRUCTION:  Was a surface sunitary sell provided? Yet \( \) No \( \) To what depth \( \) If yet, note depth of stesses  From fi. to ft.  Were any strata valled against pollution? Yet \( \) No \( \) If yet, note depth of stesses  From fi. to ft.  Work started 12/18 19 75 . Completed 2/3 19 76  Well DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  Standing level after perforating, if honorn  Standing level after perforating and developing  (10) WELL TESTS:  Was pump test made? Yet \( \) No \( \) If yet, by whom?  **Standing level after perforating and developing to develop the first of the development of the first of the fir	From	1 7	To		4 600	-40-	Size	2001cd						
251 260 6 3* centers 5/16 x2\frac{1}{4}  260 430 6 12* centers 5/16x2\frac{1}{4}  into annular space from 50' depth to surface.  (8) CONSTRUCTION:  Was a surface sunitary sell provided? Yet \( \) No \( \) To what depth \( \) If yet, note depth of stesses  From fi. to ft.  Were any strata valled against pollution? Yet \( \) No \( \) If yet, note depth of stesses  From fi. to ft.  Work started 12/18 19 75 . Completed 2/3 19 76  Well DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  Standing level after perforating, if honorn  Standing level after perforating and developing  (10) WELL TESTS:  Was pump test made? Yet \( \) No \( \) If yet, by whom?  **Standing level after perforating and developing to develop the first of the development of the first of the fir				2.7	10000	ir	n. x in.	Date No						
into annular space from 50° depth to surface.  (8) CONSTRUCTION:  Was a surface sanitary seal provided? Yes \( \) No \( \) To what depth \( \) ft.  Were any variest scaled against pollution? Yes \( \) No \( \) If yes, note depth of stress from \( \) ft. to \( \) ft.  Work started 12/18 is 75. Completed 2/3 is 76 \( \)  Well Driller's STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  Address 32291 Dinlap Blvd.  Tucalpa, Ca. 92399.  Was pump test made? Yes \( \) No \( \) If yes, by whom?  Was electric log made of well? Yes \( \) No \( \) If yes, attach copy  To be in future	251	2	60	6	B* cent	ere 5/1	6 xx23							
into annular space from 50° depth to  surface.  (8) CONSTRUCTION:  Was a surface anitary seal provided? Yes No To what depth 50 ft.  Were any strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, pumped If yes, pumped Well Driller StrateMent:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  Address 32291 Dunlap Blvd.  Yes pump test made? Yes No I If yes, by whom?  Was pump test made? Yes No I If yes, by whom?  Was pump test made? Yes No I If yes, by whom?  Was pump test made? Yes No I If yes, by whom?  Was electric log made of well? Yes No I If yes, attach copy  To be in future		23	30	6										
(8) CONSTRUCTION:  Was a surface sanitary seal provided? Yes No To what depth 50 ft.  Were any strata scaled against pollution? Yes No If yes, note depth of strass From ft. to ft.  Were any strata scaled against pollution? Yes No If yes, note depth of strass from ft. to ft.  Were any strata scaled against pollution? Yes No If yes, note depth of strass from ft. to ft.  Work stratted 12/18 19 75 . Completed 2/3 19 76  WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  Address 32291 Dunlap Blvd.  Tucalpa, Ca. 92399.  Was pump test made? Yes No No If yes, by whom?  Sanding level of water Was a chemical analysis made? Yes No If yes, attach copy  To be in future  Supply and the first and form of the first and form of the first analysis made? Yes No If yes, attach copy  License No. 168847 Dated Feb. 14 19 76	200		30		112 000	-	102004	into annular space from 50' denth to						
(8) CONSTRUCTION:  Was a surface sanitary seal provided? Yes No To what depth 50 ft.  Were any strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata scaled against pollution? Yes No E If yes, note depth of strata from the strate of strate of strate strate of strate of strate strate of strate of strate strate strate of strate strate strate strate strate of strate s	-	_												
Were any strata scaled against pollution? Yet No 16.  No 16.  No 17.  No 16.  No 17.  No 16.					1	+		Duitaco.						
Were any strata scaled against pollution? Yet No 16.  No 16.  No 17.  No 16.  No 17.  No 16.			OTTON		1									
Were any strata scaled against pollution? Yet   No E If yes, note depth of steats  from ft. to ft.  Method of sealing 12 Sacks cement—sand mixes, pumped  Well Driller's STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  (10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  Was a chemical analysis made? Yes   No    Was alectric log made of well? Yes   No   If yes, attach copy  Well Didler  License No. 168847  Dated Fab. 14, 19 76	233			Y		Cen 7.15	50	A						
From fr. to fr.  brow fr. to fr.  Method of sealing 12 Sacks cement—sand mixe, pumped  Well Driller's STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  Address 32291 Dunlap Blvd.  Was pump test made? Yes No 1 If yes, by whom?  Was a chemical analysis made? Yes No 1 If yes, attach copy  Was a electric log made of well? Yes No 1 If yes, attach copy  To be in future	Was a surface	sanitary sea	provided?	Yes 7	No [] To			/-						
Method of sealing   12 Sacks coment—sand shire, pumped   Well Driller's Statement:	Were any stra	ta sealed aga	inst pollution	? Yes 🗌	No X	If yes, not	e depth of strata	/						
Method of sealing 12 Sacks coment—sand sixe, pumped  (9) WATER LEVELS:  Depth at which water was first found, if known 245 ft.  Standing level before perforating, if known 245 ft.  Standing level after perforating and developing 245 ft.  (10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  Was a chemical analysis made? Yes   No   If yes, attach copy  Well Driller's STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  Address 32291 Dunlap Blvd.  Yucaipa, Ca. 92399.  Well Driller's STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  Typed or printed)  Yucaipa, Ca. 92399.  Well Driller's STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  Typed or printed)  Turning the firm of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  (Typed or printed)  Turning the firm of my knowledge and belief.  NAME Kirkland Well Service  (Person, firm, or corporation) (Typed or printed)  (Person, firm, or corporation) (Typed or printed)  Turning the firm of my knowledge and belief.  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.	From	ft.	to	fr.				40/40 05 0/2 0/						
(9) WATER LEVELS:  Depth at which water was first found, if known  Standing level before perforating, if known  Standing level after perforating and developing  (10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  Fig. drawdown after gal./min. with  fig. drawdown after hes.  (SIGNED)  Was a chemical analysis made? Yes   No   If yes, attach copy  Was electric log made of well? Yes   No   If yes, attach copy  To be in future	From							Work started 12/18 19 75 , Completed 2/3 19 70						
(9) WATER LEVELS:  Depth at which water was first found, if known  Standing level before perforating, if known  Standing level after perforating and developing  Standing level after perforating and developing  (10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  Was pump test made? Yes   No   If yes, by whom?  Fig. drawdown after  erature of water  Was a chemical analysis made? Yes   No    Was electric log made of well? Yes   No   If yes, attach copy  To be in future	Method of sea	line 72	sacks	cener	it-sand	nixk, b	umped							
Depth at which water was first found, if known  Standing level before perforating, if known  Standing level after perforating and developing  (10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  If yes, by whom?  Standing level after perforating and developing  Was pump test made? Yes   No   If yes, by whom?  Standing level after perforating and developing  Address  32291 Dunlap Blvd.  Yucaipa, Ca. 92399.  Was pump test made? Yes   No   If yes, by whom?  Standing level after perforating and developing  Was pump test made? Yes   No   If yes, by whom?  Standing level before perforating, if known  (Person, firm, or corporation) (Typed or printed)  Address  32291 Dunlap Blvd.  Yucaipa, Ca. 92399.  (Well Driller)  Was a chemical analysis made? Yes   No    Was a chemical analysis made? Yes   No    Was alectric log made of well? Yes   No   If yes, attach copy  License No. 168847  Dated Feb. 14  19 76	(9) WA	TER L	EVELS:											
Standing level after perforating and developing 245 ft.  (10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  Tucalpa, Ca. 92399,  Fig. (Person, firm, or corporation) (Typed or printed)  Address 32291 Dunlap Blvd.  Yucalpa, Ca. 92399,  Fig. (Well Driller)  Was a chemical analysis made? Yes   No    Was a chemi	Depth at whi	ich water w	as first found	, if known	24	5 ft.								
Standing level after perferating and developing  (10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  Was pump test made? Yes   No   If yes, by whom?  Erature of water  Was a chemical analysis made? Yes   No    Was electric log made of well? Yes   No   If yes, attach copy  To be in future  Address 32291 Dunlap Blvd.  Yucaipa, Ca. 92399,  (Well Deiller)  (Well Deiller)  License No. 168847  Dated Feb. 14, 19.76	Standing leve	el before pe	eforating, if	Loren	24	5 fr.		NAME Kirkland Well Service						
(10) WELL TESTS:  Was pump test made? Yes   No   If yes, by whom?  Was pump test made? Yes   No   If yes, by whom?  Yucaipa, Ca. 92399.  Was a chemical analysis made? Yes   No    Was a chemical analysis made? Yes   No    Was a lectric log made of well? Yes   No   If yes, attach copy  To be in future  Address 32291 Dunlap Blvd.  Yucaipa, Ca. 92399.  (Well Driller)  (Well Driller)  License No. 168847 Dated Feb. 14 , 19 76	Standing leve	after perf	orating and	developing	24	5 fc.		(Person, firm, or corporation) (Typed or printed)						
Was pump test made? Yes No 1 If yes, by whom?  Yucaipa, Ca. 92399.  Exact the second of water	-		2000					Address 32291 Dunlap Blvd.						
erature of water   Was a chemical analysis made? Yes   No	,				If yes by whom?			Yucaipa, Ca. 92399.						
ecature of water Was a chemical analysis made? Yes No   No   Was a chemical analysis made? Yes No   No   No   No   No   No   No   No	Variable		012717		- 35.75.			12 11:00						
Was electric log made of well? Yes   No   16 yes, attach copy   License No. 168847   Dated Feb. 14 , 19 76	1.00			W										
To be in future							No LI	168847 Feb. 14 76						
	Was electric			~ .		reach copy	-/	License No. Dated Pops 14 , 19 10						
	/	10	ne TII	Turnie		TCH LOC	ATION OF	WELL ON REVERSE SIDE						

SE

1/2 MILE

1/2 MILE

Township		N/s
Range -	/	E/W
Section No	20	<u> </u>

A. Location of well in sectionized areas.

Sketch roads, railroads, streams, or other features as necessary.

1/2 MILE

		NORTH		
	-			
	<b>F</b> 1			,
WEST			ĸ	EAST
			-	-
		SOUTH	0	2

B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances. 15/1V-20M1

DUPLICATE Retain this copy

#### STATE OF CALIFORNIA THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do Not Fill In

Nº 104927 State Well No. Well 73

				21/4			Other Well No.
(1) OW	NER:						(11) WELL LOG:
Vame							Total depth 440 ft. Depth of completed well 440 ft.
Address							Formation: Describe by color, character, size of material, and structure  O fs. to 60 fs.
2) 100	ATION	OF W	FII.				Brown clay, gravel, boulders
	n Bern			Owner's number	e if any	36	60 155
Township Ray	nee and Secti	on T 15	3: R 1	W; Sec.			Brown sandy clay, sharp gravel, few boulders
Distance from	cities, roads.	railroads, ec	. 3601	So. of	center	of Tvy	155 233
					ferson S		Brown sandy clay with small gravel embedded
	E OF V				A MA MARIA	OLL LINE	233 251
	Deep			ditioning [	Destroyin	ig []	Brown clay, sand, small gravel-tight
				tre in Item 1	the second second		251 260
	POSED				(5) EQUI	IPMENT:	Brown clay, sand, small gravel-loose
	Indu				Rotary		260 430
	Test			ther	Cable	3	Brown tight clay, sand, small gravel
					Other		430 440
(6) CAS	ING IN	ISTATI	FD:				Blue decomposed granite
STE	EL:	OTHE		1:	f gravel pac	ked	
SINGLE A	BOUBL	LE -					Copies to:
			Gage	Diameter	Altra de	1 -	1 Directors Wandast
From	To		or Wall	of	From ft.	ft.	Constitution
ft.	ft.	Diam.	2555	Bore	It.	11.	The Assessment of the Assessme
0	443	12"	111	_	-		Anomey RECEIVED
-					-	-	
		7 - 2	110 00 4	28	1		Danston FF6 10
ise of shoe us				2 Size of grav			
Describe joint				itt weld	3		The American
	FORAT		OR SCI	REEN:	Sec. 1		Shop Y.V.C.W.D.
77-0. 741.0	1		5.7				File
From	To	.	Perf.	Rows		Size	Polin
fr.	ft		row	ft.		. x in.	Dato Rouled
251	2	50	6	B# cen	ters 5/10	5 xx21	
260	4:	30	6	112"cm	nters 5/	16x23	
200	-	74		1	21	1	into annular space from 50' depth to
	-						surface.
(0) CO	VETRI	CTION					1
	NSTRUC		-	No 🗆	To what depth	50 fc.	1
						X - V - V	
	ta sealed again			No 🗷	it yes, note	depth of strata	/
From	fi. i		ft.			-/	Work started 12/18 19 75 , Completed 2/3 19 76
From	12	sacks	cemer	nt-sand	mixa m	umped	WELL DRILLER'S STATEMENT:
Method of sea	ing				P P		This well was drilled under my jurisdiction and this report is true to the be
	TER LE			21	145	2	of my knowledge and belief.
	ich water was			- 2	45 11.		NAME Kirkland Well Service
	d before peri			2)	45 11.		NAME KIFKLAND WELL SETVICE  (Person, firm, or corporation) (Typed or printed)
C. T. N 2/15	alter perfo	11221	leveloping	4	4) h.		20004 2-1 21-1
	ELL TE	-					Address 32291 Dinlap Blvd.
Was pump ter	st made? Yes	1 D No		If yes, by whor	C. 3704		Yucaipa, Ca. 92399
1:	gal	./min. with		fe. drawd	own after	hrs.	[SIGNED] (Well Driller)
temperature	of water		Was a chemi	ical analysis ma	ade? Yes 🗌	No []	
Was electric !	log made of w	4			ateach copy	_/	License No. 168847 Dated Feb. 14 1976
	70	be in	Iuture	3		/	

SKETCH LOCATION OF WELL ON REVERSE SIDE

1/2 MILE

A. Location of well in sectionized areas.

Township	1'	N/s
Range :	:/	E/V
Section No	20	1

NORTH EAST

Sketch roads, railroads, streams, or other features as necessary.

1/2 MILE

B. Location of well in areas not sectionized. Sketch roads, railroads, streams, or other features as necessary. Indicate distances.

### DUPLICATE -

### 25/1W-17F1

## THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES

( Werl

Do not MI

ont No WATER WEL	L DRILLERS REPORT  State Well No. // / 2
(1) OWNER: Name_	(19) WELL TOC. 240
Address	(12) WELL LOG: Total depth of the Depth of completed well from ft. to ft. Formation (Describe by color, thatacter, size or meteral)
	from ft. to ft. Formation (Describe by color, (haracter, size or material)  0 - 10 Top soll
	10 - 13 Sant
(2) LOCATION OF WELL (See instructions):  County Owner's Well Number.	13 - 16 Bos
County Owner's Well Number Well siderent from above	1 - 33 Clay
28 - 1W 17	33 - 48 Sand & clay
Distance from cities, reads, railroads, fences, etc.	48 - 90 Bock
mit. Sui	50 - 75 Clay
	75 - 81 Book
	81 -96 Clay & rock
(3) TYPE OF W	
New Well Deepe	
Reconstruction	185 - 105 Crantto
Reconditioning	D 205 228 Sabis Class
Horizontal Well	238 265 Gransta
Destruction [] (Desc	ribe 263 272 QUAY
destruction materials procedures in Item 18	and land
/ // PROPOSED	use about 4 ft. depths at 358,380.
Januarial (4) PROPOSED	446 with querts, 461, 510, and
Irrigation C	19 Cumres fracture at 300 .
Industrial	0 07/2
Tost Well	0 100-
Street	6 7 - 3 2
// Municipal	
WELL LOCATION SKETCH Other	0 -3
(5) EQUIPMENT: (6) GRAVEL PACK:	(
Rotary & Reverse   Yes No No Size 5/16	27
Cable   Air   Danieter of bore to 413 ts	10", 413 to \$40 in 61"
Other D Bucket C Pauled from 50 No. 413	_ a
(7) CASING INSTALLED (8) PERFORATIONS:	1769 -
Steri D Plastic Concrete Type of pentilabun uraze of screep	9
	Slot
ft. ft. vall ft. s	Ferf, continued
	rows 193 - 253
113 133 12 6	
153 173 24	I 1/8" II 333
(9) WELL SEAL:	353 - 413.
Was aurface sanitary seal provided? Yes a No C If yes, to depth	ft
Were strata scaled against pollution? Yes . No. Interval.	ft
Method of sealon Coment growt	Work started van 22 19 80 Completed 73 9 0 19 19
(10) WATER LEVELS: Depth of first water, it known	WELL DRILLER'S STATEMENT:
Standing level after well completion 30	the This well was dealed under my purisduction and this report is true to the boot of my knowledge and belief
(11) WELL TESTS:	SHINED Donald B. Drunnell
Was well test made: Yes No E II yes, by whom? driller Type of test Pump Bailer C Air lift N	(Well Duller)
Depth water at start of the fit. At end of test	NAME AMERICAN DRILLING, INC.  (Person, bros, or corporation) (Typed or printed)
75 gal min atter bours Water temperature_	Address 104 W. Main
at the made? Yes " No I II to be about?	Caty Aguanga, CA Zip 92382

of Intent No.\_

#### THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

YVWD #40 No. 218802

_ mit	No. or	Date								Other Well No. Well # 3
(1) OW	NER:	Name					(12) V	VEI	I. LO	
Address		77111102					from ft.	to	ft. Fo	G: Total depth 349 ft. Depth of completed well. 34 fg
City						Zip 92320	0	-	13	Soft dirt.
(2) LOC	ATIO	N O	F WELL	. / Can last-	-V1		23	-	26	Fractured white rock
County	Rive	rsid	le	(See instruc	Well Number_		26	-	28	Brown clay
Well address	if differ	ent from	n above				28	14	35	Gray clay
Township	25		Range_	JW	Section	17	35	-	145	Fractured white rock with
Distance from	n cities,	mads, r	uilroads, fer			-7-7-7		14		water increasing at 60°, 100°,&
		Z						-		120
	-		7.				145	-	150	Very fractured
							150	-	162	Firm to hard white rock
			1		(3) TYPE	OF WORK:	162	-2		Fractured
						Deepening [		1/2	180	Firm to hard white rock w/ incre
			1		Reconstruction			-		in water
			1		Reconditionin		180	-	195	Firm to hard black rock
			1		Horizontal W		195		201	Firm to hard white rock
				4	Destruction [ destruction m	of the last and the last the l	207	V-	204	
					destruction n procedures in	naterials and Item 12)	204	-	209	A 4 1 100 V 104 L 104
			1		T .	OSED USE:	209	-	212	Firm to hard
		أيسر	Tim		Domestic	O'	212	_	11/00/00	Fractured w/ more water
	10	TRE	0.81		Irrigation		221	-	220	fairly hard granite
1	193		1		Industrial	1 D	225	-	23/4	Fractured
	1	EU	1		Test Well	D	GG.	-	2.54	Firm to hard gray granite, w/ increase in water
7	1		1		Stock		234	-	245	Light fracture
1				.2	Municipal	0				
	VELL 1	OCATI	ION SKET	CH NN.	Other	. D	255	_	255	Granite with increase in water
(5) EQUIPM				(6) CRAVEL	POZNATIVA POZNATIVA			-		Heavily fractured with water
Rotary D X	AT THE REAL PROPERTY.	Rev	erse 🗆	Yes 🗆 X No		5/16 x 4	260	_	264	Fairly hard
Cable [		Air	0	Diameter of bo		)/40 h	264	507	295	Fractured white rock w/ increase
Other []			ket 🗆	Packed from_	50 1	3/19 11.	cor		ol.o	in water
7) CASING	INSTAI	- 1117	442	(8) PERFOR	ATIONS.		295	-	349	Dark gray rock, fractured
iteel DX P			ncrete D	Type of perform		******	3			
From		1			C. Fac	1	-	-	_	
ft.	To C	Dia.	Cage or Wall	From ft.	To ft.	Slot	-	-		
0	349		5/8.18		-		-	-	-	
	Try	-	NO.10	9 99	3/19	6 rows		-		
						12 chts	52.7	÷		
9) WELL	SEAL					1 2 X . 2	20	_		
			vided? Yes	DX No D	If yes, to dept	h_50_ ft.		_		
Vere strata				44	□ vInterval_	ft.		-		
fethod of sea			ent gro		- X		Work start	ted	Dec	12 19 80 Completed Dac 10 19 80
10) WATE	RLE	VELS:					FU - 32 T 42 T 3 - 7	12777		STATEMENT:
Depth of first				40		ft.	This well	was a	rilled un	der my jurisdiction and this report is true to the hest of my
11) WELL			pletion	29	-	ft.	Knowienke	and	belief.	1 10 1
is well test			DY No	☐ If yes, by	whom? A-	477.00	SIGNED_	1.	-cm	Ovel Deller
ype of test		Pump	0	Bailer [	Air	THE CE	NAME_		AHERT	CAN DRILLING. INC.
Depth to wate	er at st	art of	test	_h.	At end of te	stft			(Perso	n, firm, or corporation) (Typed or printed)
-21	00+ca	1/min	after	hours	Water tempe	rahue	Address			. Main,
her _ i analy			□ No	DX If yes, by	whom?		City		Aguan	ga, CA 7ip 92302
etric lo	g made?	Yes	[] No	LX If yes, atta	ch copy to this	report	License No	3	24.684	Date of this report Dec. 22, 1930

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The state

15/2W-36ADI

#### TATE OF CALIFORNIA

THE RESOURCES AGENCY

Do not fill in

217102 No.

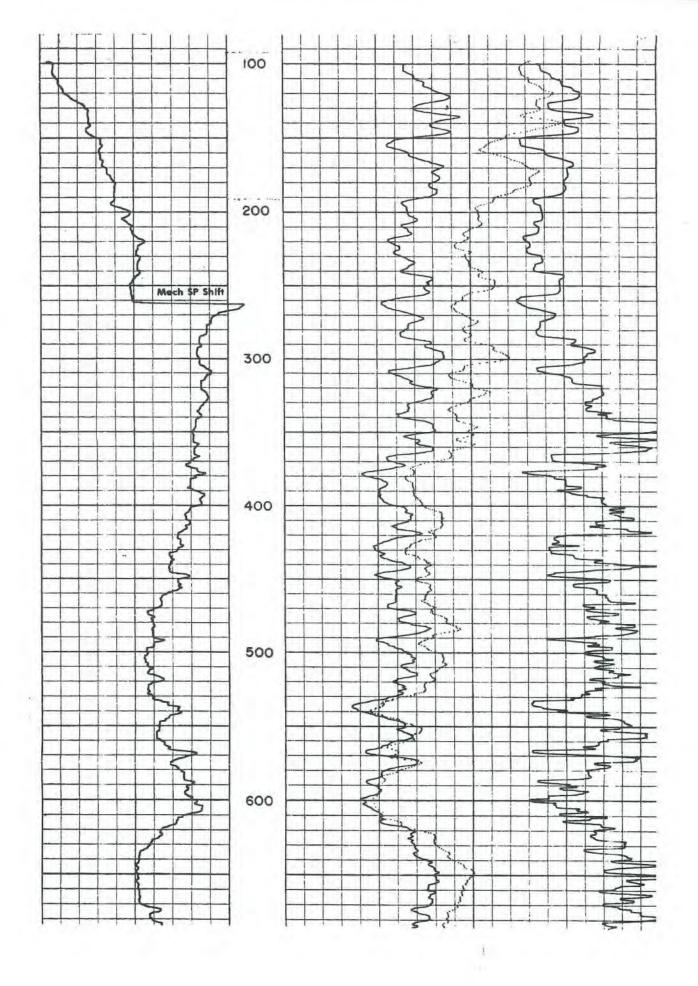
DEPARTMENT OF WATER RESOURCES 195450 WATER WELL DRILLERS REPORT 02098204

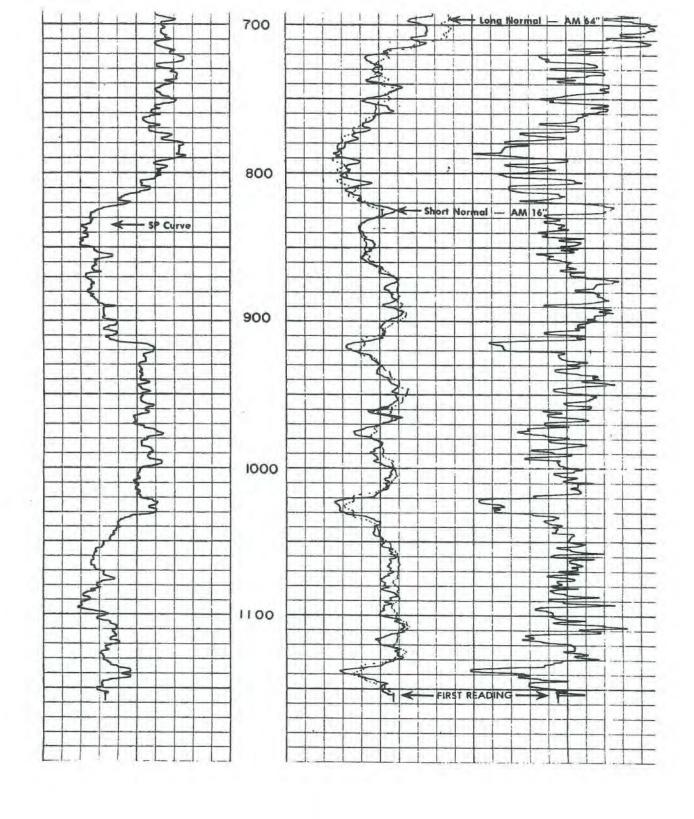
State Well No. mit No. or Date\_\_ Other Well No. HATENEDIATORICT (1) OWNER: Address ft. Formation (Describe by color, character, size or material) City San Bernardino, Cal WALL STREET, S Zip 92412 (2) LOCATION OF WELL (See instructions): County San Bernardino Owner's Well Number fine sand with large rock mix Weil address if different from above. fine sand with large rock Township 15 2W Bi\_e of hand. Distance from cities, roads, railroads, fences, etc. 110 medium & coarse sand mixed 65 110 120 Medium & coarse sand with small rock, mixed OnV Glen 180 Medium & coarse sand with (3) TYPE OF WORK: small gravel & short streaks New Well ( Deepening | of sandy clay Reconstruction 180 Medium & coarse sand with Reconditioning D small gravel Horizontal Well 360 Medium & Coarse sand, 590 ° Destruction (Describe destruction materials and procedures in Item 12) 380 Med. & coarse sand with short streak of brown clay (4) PROPOSED USE: 660 Decomposed granite Domestic O rrigation Industrial 0 1114 -Test Well 0 15 Stock O 200 110 0 Municipal WELL LOCATION SKETCH Other 0 (5) EQUIPMENT: (6) GRAVEL PACK: 5/16 x Rotary D Reverse C
Cable C Air C
Other C Bucket C Yes Or No [ 11/1-11:11 (7) CASING INSTALLED: 11.10 (8) PERFORATIONS: Steel [] Type score doss Louver Concrete D. Plastic [ From the state of To Dia. Gage or Wall From Slot Secure west 0 50 660 76 1/87 Std. (9) WELL SEAL: Was surface sanitary seal provided? Yes | No | If yes, to depth 50 ft.

Were strata sealed against pollution? Yes | No | Interval ft. No D Interval Method of sealing coment grout Work started Completed - 5/20/829 (10) WATER LEVELS: WELL DRILLER'S STATEMENT: Depth of first water, if know This well was deliled under my jurisdiction and this report to true to the best of my Standing level after well completion\_ (11) WELL TESTS: C.V. Pump Coachella Valley Pump & Supply, Inc. No [] If yes, by Pump D Air lift Depth to water at start of test a, Brit., ng/corporation) (Typed or printed) 1000 alter\_ 24 hours Water temperature P.O. Drawer QQQ al analysis made? Yes [ No [] 'If yes, by whom? Indio, Calif. lectric log made? No | If yes, attach copy to this report Yes Q DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

	VELENGINEERING SURVE	YS		O-200 omat.m	Office		RESISTIVITY		RUSSIAMCE Detail unve
W FII	DMPANY Mª CALLA BROS.  ELL #46  ELD YUGAIPA  ATE CALIFORNIA COUNTY SAN		Part of the Part o	ole	Equipment Data Pad Type Tool Position		RESIS	002	RISIN Bern
LOCA SEC	TWP RGE	OTHER SERVICES		Depth	Tool Type		rivity m³/m	NORMAI Tuck	
Date	3/16/88	G.L	100 F	Type Log E-200	Run No.		RESISTIVITY ohms. m²/m	SHORT N	LONG NORMAL
Run No. Depth—Driller Depth—Logger Btm Log Inter. Top Log Inter. Casing—Driller Casing—Logger	UNE  1155'  1154'  100'  36" € 50'  Not REMCHED		The state of the s			- © © ©	Depths	0	0
Bit Size Type Fluid in Hole Dens.   Visc. pH   Fluid Loss Source of Sample	WATER  WATER  N/A  N/F mi mi	ml ml	Additional Samples		H 4 4	(in the fa	SPONTANEOUS POTENTIAL millivoits	+	
Ra @ Meas. Temp.	22.0 @ 63 'F @ 'F @ 22.0 @ 63 'F @ 'F @ U/A @ 'F @ 'F @	'F @ 'F	Fold Here REMARKS Changes in Mud Type or	1	Viac.   Viac.   Fluid Loss   Fluid Loss   Fluid Loss   Gluon Temp.   Gluon Temp.	ă œ	NEOUS PC	61	_

15/2W-3691





#### County of San Bernardino - Environmental Public Works Agency ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

			WEL	L PER	MIT	Exp	piration_/-	
PLEASE	PRINT: Job #	5113		Well	446	) FA SN		
OWNER: Mailing Address	Name			6.	Items 6 through exact for all oth ANNULAR SEA Furnished by:	er wells. AL:  Owner	Depth	50 ft.
	Yucaipa			L	☐ Driven Condu ☐ Sealing Mater		12	age) , 253 ess 4 in.
DATE OF	714) 797 - WORK (approxim	nate):		7.	Proposed 80	DO Existin	The second second	
	ILLER (Check On		1/1/98	8.	CASING INSTA	LLED:	Other	
	☑ Contractor		la Bros.		From (ft.) O 500	To (ft.) 500 800	Dia. (in.) 250 16"	Wall (Gage) . 250 . 250 Det A
WELL US Commu	unity C	Industrial Test Other		9.	From O PERFORATION	to		
TYPE OF New	WORK (check):	truction ON MAP	□ Destruction		SEALED ZONE From 0	S (if applicable	so fi	
NW UCPLYP	*		E ST.	]	on section map.  (b) Township Section  (c) Assessor's	Parcel No	name(s) andlloc	-
ATE	AVE .	JEB AVE)	Younen	n	Fee Stam			Stamp
SW	7.	SE	1	R	ECEIPT NO.	111.81	1- 6.	FEB 1988

		100' North		1092
			12.	PLOT PLAN:
108				(a) In perspective to the sell site, sketch an label the following items: well lot property line other wells (include abendoned wells), sewage disposal systems (sewers, septic tanks, leachin fields, seepage pits, cesspools), lakes and pond water courses and animals or fowl kept.
				(b) Indicate the distance in feet, of any of the following which are within 200 ft. of the well site
West	r	Well Site		Other wells Sewers Septic tanks
				Leaching fields Seepage pits Cesspools
100'				Lakes and ponds Water courses Animals or fowl kept
				NONE OF THE ABOVE
13.	I har	we read this application and agree to comply with all laws regulating ires Workers' Compensation Insurance as a prerequisite to permit issu- I certify that in the performance of the work for which this permit to become subject to the Workers' Compensation laws of California	uance un nit is issue	less the applicant signs the following certificate:
		Owner's Signature		Date
		Contractor's Signature Till Frances		Date / / 15/88 Reg. No
		DISPOSITION OF PE	RMIT	
	1	(Do Not Fill In)		
4	App	roved subject to the following:		
	A	Notify the Department 100 100 A W 1714 to make an inspection of the following operations:	138	7-46-6 , twenty-four (24) hours in advance
		Prior to sealing of the annular space or filling of the conductor	or casing.	
		☐ Verify the depth of the conductor (outer) casing prior to furn		
		After installation of the surface protective slab and pumping		로 즐겁게 되었다. 이번 중에 보이는 것이 있다면 되었다. 그리고 있는 사람들이 있는 것이다.
		☐ During destruction of wells, prior to pouring the sealing mate		
	В.	Submit to the Department within thirty (30) days after completion	of work	_/
		Water Well Driller's Report Bacteriological	Analysis	Inorganic Chemical Analysis

#### TRIPLICATE Owner's Copy

## THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do not fill in

1) OWNER	Name					/10) 1	WETT 1	100
ddress	zanne_					from ft.	to ft.	LOG: Total depth 1154ft. Depth of completed well 150 f
City					Zip 92399		-	Formation (Describe by color, character, size or material)
2) LOCATIO	IN OF	WEIT	A DOLL		Zip	50	_	O Conductor  4 Sand, Gravel & Sm. & Med. Pool
County See Be	rnadd	ino	(See instru	ctions):  Well Number_	46	64		The same of Hear Rock
Vell address if diffe			- CAMILET	wen lammer		73	4 60	The state of the s
ownship 15		Range_	2W	Section	36	107	- 10	DESCRIPTION OF THE PROPERTY AND PROPERTY OF THE PROPERTY OF TH
Distance from cities	mads re	1		section	20	123	- 12	
50' E. c			ces, etc.			132	- 13	TABLE E MOCK
350° N.			n			140	- 15	
						1 40 Oct 10		
				(3) TYPE	OF WORK:	152	1.6	MANUAL MANUAL
				\$15 To 1000 NO. 7	Deepening [	166	20	THE WAREL & DEL ROC
				Reconstruction		205	- 20	The state of the s
				Reconditionin	-	208	- 27	THE PARTY OF THE P
				Horizontal V		272	- 27	A STATE OF S
				2.0	Describe	275	- 27	The state of the s
				destruction r procedures in	naterials and	282	- 28	
					OSED USE	292	- 29	10000
				Domestic	D	298	- 30	
				Irrigation	D'	302	-	
				Industrial		310	- 31	The Day of the
				Test Well	0	314	- 31	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM
				Stock		328	- 34	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
*				Municipal		342	- 35	
WELL	LOCATI	ON SKET	CH	Other	£	354	- 37	
) EQUIPMENT:			(6) GRAVE	7.000				
otary 🖅	Rev	erse 🗆			trauley 4x	372	39	The state of the s
able []	Air		Dinmeter of b		BIT	-120	- 41	The state of the s
ther 🗆	Buc	ket 🗆	Packed from_	0	1150 R	414	42	
) CASING INST	ALLED:		(8) PERFO	RATIONS:		426	- 44	
plastic	Co	nurete 🔲	R.M.Hed	mental d	ouver	448	45	
From To	Dia.	Gage or	From	То	Slot	450	47	
ft. ft.	in.	Wall	ft.	ft.	size	470	- 55	
0 340	146	.250	1			553	- 58	
340 800	15	250	340	800	060	586	- 59	
800 1130	16	312	800	1130	060	596	- 60	
) WELL SEA	20	1944	000	2000	000	604	- 61	3 Fine Sand, & Sm. Cravel
as surface sanitary	seal pro	vided? Yes	No 🗆	If yes, to dep	th 50 ft.	613	- 63	
ere strata sealed	against	pollution?	Yes 🗆 N	or Interval	ft.	636	- 64	
ethod of sealing	3211	Conduc	tor Come	ated in	O" Bore	Work star	rted 2	4 Boulders -3 19 88 Completed 4 1 19 88
0) WATER L		13 65	84 91011	71		WELL	DRILLE	R'S STATEMENT:
opth of first water anding level after			TA TA	71	ft.	This well	was drille	ed under my jurisdiction and this report is true to the hors of m
1) WELL TE		Pietion		ON!	ft.	- Annie Reingt	and beli	0
as well test made	Ye	s N	If yes, b	y whom? McC	alla Bros	SIGNEDS	-	(Well Driller)
	Pum	*	C JABatter [	MI Air	lift []	NAME_	McCa	11a Bros. Division of Lavne Western
		tost IS	1.12.	At end of	test321_ft	100000	(	Person, firm, or corporation) (Typed or printed)
opth to water at			2000	1. 1				and a second sec
epth to water at	gal/min	after_	A Adulis	Water temp		Address	3132	W. 17th St. a Ana, CA Zip 92703

15/2W-36G1

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## TRIPLICATE Owner's Copy

STATE OF CALIFORNIA THE RESOURCES AGENCY

#### DEPARTMENT OF WATER RESOURCES

Do not fill in

277299 WATER WELL DRILLERS REPORT No.

Local Permit No. or Date	State Well No
(1) OWNER: Name	(12) WELL LOG: Total depth 1154 ft. Completed depth 1150 ft
Address	
City ZIP	the state of the state of the state of material)
AND THE RESERVE TO SERVE THE PROPERTY OF THE P	CONTINUED FROM FORM# 158791
(2) LOCATION OF WELL (See instructions):	611 283 6 1 6
County Owner's Well Number	644 - 651 Sand, Sm. & Med. Gravel, Rocks
Well address if different from above	651 - 657 Boulders
Township Range Section	657 - 682 Sand
Distance from cities, roads, railroads, fences, etc.	682 - 704 Sand, Gravel & Rock
	704 - 709 Sand, Sm. & Mad, Gravel
	709 - 732 Sand Sm. Grewel, Sandy Clay
	732 - 747 Gravel Rocks
(3) TYPE OF WORK:	747 - 752 Sand & Clay
New Well □ Deepening □	
Reconstruction	7/5 9/50 10 100 - 00
Reconditioning	7/7 / 400 0 / 00 0 0
	773 - 775 Small Boulders
	275 - 786 Sandy Clay, Sm. Gravel
Destruction (Describe destruction materials and pro-	
cedures in Item 12)	
(4) PROPOSED USE:	800 806 Large Boulders
Domestic	806 - 818 Course Sand Sw. Gravel & Clay
Irrigation _ N	828 - 833 Sand, Se. & Med. Gravel
Industrial	833 4 856 Gravel Sandy Clay
Test Well	854 - 894 Sand, Sm. Gravel & Rock
	894 397 Boulders
Municipal	897 - 921 Sm. & Med. Lrg. Gravel & Rock
Other \	921 - 927 Lrg. Boulders
WELL LOCATION SKETCH	927 - 939 Sand, Gravel & Rocks
(5) EQUIPMENT: GRAVEL RACK:	939 - 942 Boulders
	14
Rotary   Reverse   No   Size	- 11 111
Other Bucker Payded from	
Other Bucket Radged from (fr	966 - 975 Sm., Med. & Large Gravel & Rock
(7) CASING INSTALLED: (8) PERFORATIONS	975 - 987 Sand, Sm. & Med. Gravel
Steel   Plastic   Soncrete   Type of perforation or size of section	987 - 992 Fine Sand & Sandy Clay
	992 - 1021 Sand, Sm. & Med. Gravel & Rocks
From To Dia. Gage or Dong To Slot	1021 - 1044 Fine Sand & Sandy Clay
tt. II wall & size	1044 - 1060 Fine Sand & Sm. Gravel
	1060 - 1064 Boulders
ON 10	1064 - 1085 Fine Sand & Small Gravel
	1085 - 1092 Sm. Boulders & Rocks
(9) WELL SEAL:	1092 - 1098 Sand, Sm. & Med. Fravel & Rocks
Was surface sanitary seal provided? Yes □ No □ If yes, to depthft.	
Were strata sealed against pollution? Yes □ No □ Intervalft.	
Method of sealing	20020020
(10) WATER LEVELS: STATE:	Work started 19 Completed 19
Depth of first water, if known	WELL DRILLER'S STATEMENT:
Standing level of the well was also in	This well was drilled under my jurisdiction and this report is true to the
7.	best of my knowledge and belief.
(11) WELL TESTS:  Was well test made? Yes— No DEL 314 by whom?	Signed
Was well test made? Yes No DDC 14 by whom? 15	(Well Driller)
Depth to water at start of test	NAME McCalla Bros. Div. of Layne-Western Co.
Discharge gal/min after hours Water temperature	(Person, firm, or corporation) (Typed or printed) Address
Chemical analysis made? Yes No If yes, by whose?	Cit
Was electric log made Yes □ No □ If yes, attack copy to this report	I towns and
OWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE N	License No Date of this report

#### TRIPLICATE Owner's Copy

STATE OF CALIFORNIA
THE RESOURCES AGENCY

WATER WELL DRILLERS REPORT

Do not fill in

Local Permit No. or Date	State Well No
(1) OWNER	
Address	(12) WELL LOG: Total depth 1154 ft. Completed depth 1150 ft.
CityZIP	from ft. to ft. Formation (Describe by color, character, size or material)
	CONTINUED FROM FORM 277299
(2) LOCATION OF WELL (See instructions):	1100 1100
County Owner's Well Number Well address if different from above	1189 - 1110 Send 1180 - 1118 Drilling (hard) Lrs. Roulders
Township Range Section	The Pour of the Party of the Pour of the Pour of the Party of the Part
Distance from cities, roads, railroads, fences, etc.	1118 - 1126 Lrg. Boulder Steel (hard) drill:
The state of the s	1135 - 1150 Sand, Gravel & Clay
	1150 - 1154 Bedrock T.D.
	- 10
(3) TYPE OF WORK:	- 1
New Well Deepening	- \\
Reconstruction	
Reconditioning	
Horizontal Well	1
Destruction (Describ destruction materials and	000
cedures in Item 12)	
(4) PROPOSED US	V- 62 000
Domestic	18 - 418 - 418 - A18
Irrigation	A H OSU
Industrial	0 0-10
Test Well	1/0
Municipal	2000
Other	1000
WELL LOCATION SKETCH	0 -60
5) EQUIPMENT: (A) GRAVEL RACK	Q-0
Rotary   Reverse   No V Size	) - (A)(S)
Cable Air Dametes of bore	- (A)/V &
Other Bucket Racked from	
7) CASING INSTALLED: (B) PERPORATIONS:	<del>-</del>
teel   Plastic   Soncrete   Type of perforation or size of green	
From To Dia Gage or Room To Slot ft. ft. Wall	
ft. ft. wall to size	
1000	
2/1/0	
N WITH AT I	
9) WELL SEAL:	
Vas surface sanitary seal provided? Yes  No  If yes, to depth	.ft
Vere strata sealed against pollution? Yes No Interval	ft
10) WATER LEVELS:	Work started 19 Completed 19
enth of first water if known	WELL DRILLER'S STATEMENT:
anding level after well completion	This well was drilled under my jurisdiction and this report is true to the
11) WELL TESTS:	best of my knowledge and belief.
Vas well test made? Yes No I If yes, by whom?	Signed(Well Driller)
ype of test Pump Air Bailer Air lift Air lift	NAME McCalla Bros. Division of Lavne Western
Depth to water at start of test fig. 17 A ALent of test	ft. NAME McCalle Bros. Division of Layne Western (Person, firm, or corporation) (Typed or printed)
bischarge mal/min after tation	
Discharge gal/min after Water temperature	City ZIP

## QUADRUPLICATE Use of comply with scal requirements

88 (REV. 7-76)

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### STATE OF CALIFORNIA THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

No. 157622

Do not fill in

No. or Date 12809	WATER WELL D	RILLERS REPORT State Well No. 25/2W-1/3-1
(1) OWNER: Name	Howey	(12) WELL LOG: Total depthft. Depth of completed wellft
Address_		from it. to ft. Formation (Describe by color, character, size or material)
City Redlands, CA	zip_ 92373	0-20-soft sandy topsoil to sandy& Gray
(2) LOCATION OF WELL (See inst	ructions ) :	20-40 colored gravel & sand some bould
	r's Well Number	40-60 colored gravel & sand
Well address if different from above		60-80 colored gravel & sand (pit drop
TownshipRange_	Section	80-100 colored gravel & some grey cla
Distance from cities, roads, railroads, fences, etc.	Section	
react rough rainfaids, lences, etc.		100-120 firm grey clay & sand
		120-140 brown clay & sand (hard)
		140-160 brown clay & sand stone
	1	160-180 brown clay sand stone
	(3) TYPE OF WORK:	180-200 hard clayish ((brown) sandstone
	New Welk Deepening	2002220 Hard brown claysh sandstone
	Reconstruction	220-240 hard sandstone & clay
	Reconditioning	240-260 hard sandstone some clay
	Horizontal Well	280 200 hard Sandstone some Clay
	Destruction (Describe	260-880 hard sand stone some clay
	destruction materials and	280-300 hard sand stone some caay
	procedures in Item 12	- a all
1	(4) PROPOSED USE?	(G) (S) (D) 5
	Domestic XX	1 8 91-
	1rrigation [	2/2 /2 ( E)
	Industrial	(OF 75)
( )	Test Well	1110-
	Stock	1111 - 1(6) 3
-	11 17	
WELL LOCATION SKETCH	Municipal	A -6 // 6
X = 1 = 1 = 1	NOther O	-2.
	11 01/11	(C)
(1/	No Size	(a) 1/2
Cable   Air X Dangeter of	bore	(0/1/)-
Other   Bucket   Packed from	to to	11.11.2
(7) CASING INSTALLED: (8) PERF	DRATIONS:	100 -
Steel & Plastic Concrete O Type of per	forathe or size of screen	(a)
Fam Ta Di Civil Ta	Maria I A Service	
ft. ft. Dia. Gage or From	To Slot	
0 300 300	100 0 1/8	
100	0/1/8	
	0/3/10	The state of the s
(9) WELL SEAL:	-:7	- 14/
Was surface sanitary seal provided? Yes No [	If yes, to depth 20 ft.	
AUT - CONTRACT OF THE STATE OF	No □ Intervalft.	-
Method of sealing driven steel	3.0	West stand
(10) WATER LEVELS:		
Depth of first water, if known 18	0 ft.	WELL DRILLER'S STATEMENT:
Standing level after well completion	ft.	This well was drilled under my jurisdiction and this report is true to the best of mi knowledge and belief.
(11) WELL TESTS:		SIGNED
	by whom?JJWP	(Well Driller)
test Pump   Bailer	Air lift	NAME Jack Jones Wells & Pumps
to water at start of testft.	At end of testft	(Person, firm, or corporation) (Typed or printed)
10+gal/min afterhours	Water temperature	AddressP.O. Box 2031
analysis made? Yes - No A If yes,	by whom?	City Hemet, CA 9:2343
lectric log made? Yes [] No N 11 ves	award and to sty	1 426011   1111   1111   1750 OF

IF ADDITIONAL SPACE IS NEEDED. USE NEXT CONSECUTIVELY NUMBERED FORM

### hey trag

ORIGINAL File with DWR

#### STATE OF CALIFORNIA

THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

Votice of Intent No 243716  Local Permit No. or Date 016174 025/02W-2	4 LOT 5 State Well No D25/02W -24L0/
1) OWNER: Name	(12) WELL LOG: Total depth 1230 ft. Completed depth 1180 ft.
ddres	from ft. to ft Formation (Describe by color, character, size or material)
Yucaipa, Cf zrp 92399	0 - 30 Sand & gravel
2) I OCATION OF WELL (See instructions).	30 - 32 Silty clay and sand
2) LOCATION OF WELL (See instructions): 20 Riverside (See instructions): 48	32 - 63 Sand & gravel
Cii	63 - 115 Silty clay and sand
36 311	
	115 - 129 Sand and gravel 129 - 137 Silty Clay with sand
Distance from cities roads, railmads fences, etc.	137 - 150 Sand and gravel
	150 - 162 Sirty clax
Telephone Control	162 - 188 Sand gravel 188 - 201 Sand gravel and cobbles
(3) TYPE OF WORK	
New Well K Deepening	
Reconstruction	
Reconditioning	
Horizontal Well	258 - 286 Sand Gravel and cobbles
Destruction (Describe destruction materials and pro-	286 - 32Y Sifty Bray with sand
cedures in item 12)	32 338 Sand and grave!
(4) PROPOSED USE	338 371 Solty claywith sand
Domestic	371 - 385 Silty (No Areenish)
	205 - CANO Sand and Gravel
Irrigation S	414 A 491 Sand gravel (rough)
Industrial Company	43 CAL 1300 Sand allo di avel
Test Well	Add (2) 2442 Sand, didaet and still
Municipal XX	Sept Tradital didect and state city
	Sand and gravet
WELL LOCATION SKETCH	674 - Silty clay with sand
EQUIPMENT CRAVEL NICK	698 - CDI Sand and gravel
Rotary AX Reverse - You X No 2 State CAN'S	757 Silty clay with sand
Cable II Air II Respetshot bore	770 Sand and gravel
Orlan C Ru boy C Restard from al 1180 for	Silty clay
	0783 - 825 Sand and gravel
CEANNO INSTALLED (b) PERPORATIONS  (cc) A Playle (cc) Playle (cc) Playle (cc) (cc) (cc) (cc) (cc) (cc) (cc) (cc	825 - 860 Silty clay with interbedded
lect A Plastic Type of perform from or size of service	- sand layers
From To Cage or Wall	860 - 875 Silty clay, more sand
	875 - 1132 Silty clay with interbedded
0 380 6 5/8 5/16 380 (800 060	- sand layers
870 930 " " 930 (180 060	1132 - 1161 Sand & gravel with silty cla
160   1180   "   "	1161 - 1230 Silty clay with sand
9) WELL SEAL	-
Was surface sanitary real provided? Yes & No 🗆 If yes to depth	
Nerv strate scaled against pollution? Yes 🔲 No 🗀 Interval	-
Arched of scaling CONCrete grout	Work started 2-12 19 90 Completed 3-9 19 90
10) WATER LEVELS:	WELL DRULLER'S STATEMENT.
Depth of first water if knownft.	This well was drilled under my jurisdiction and this report is true in the
Randing level after well completion	best of my knowledge and helve.
11) WELL TESTS:	Signed Gary S. Hall, Jr.
Was well :our made? I no D No D II yes by whom?  Type of test Pump D Railer D Archife D	:Well Driller
	NAME Howard Pumo . Inc .  (Person, firm, of corporation; (1) ped or printed:
Depth to water at at at lest	Address
PROPERTY WAS CONTRACTED TO THE PROPERTY OF THE	- P () RAY 1249
Chemical analysis made? Yes . No . If yes by whom?	Ligary No Barstow, CA Date of this report 92312-1245

WM #48

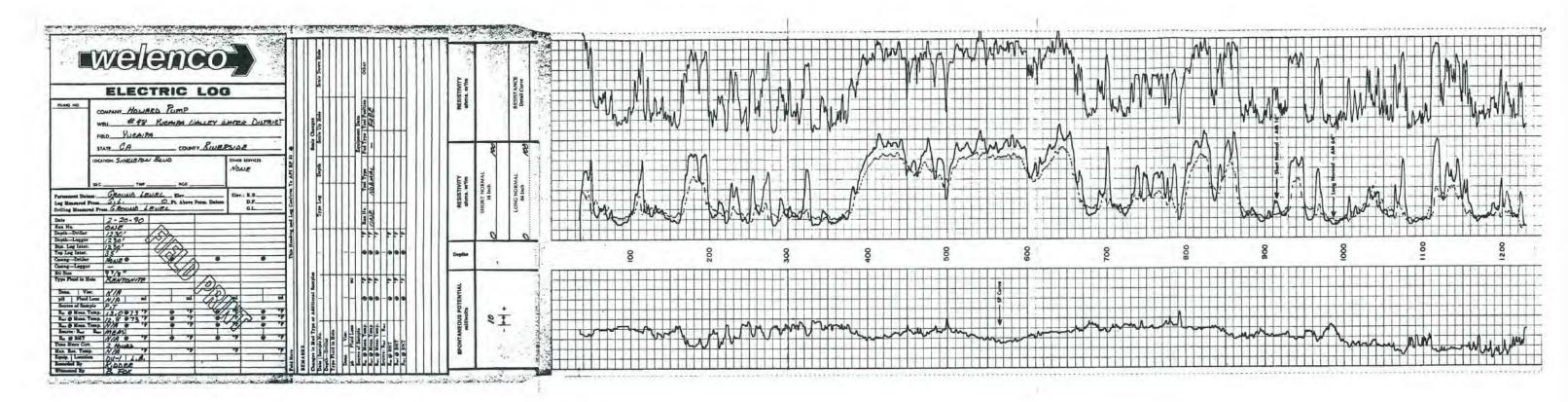
#### TRIPLICATE Owner's Copy

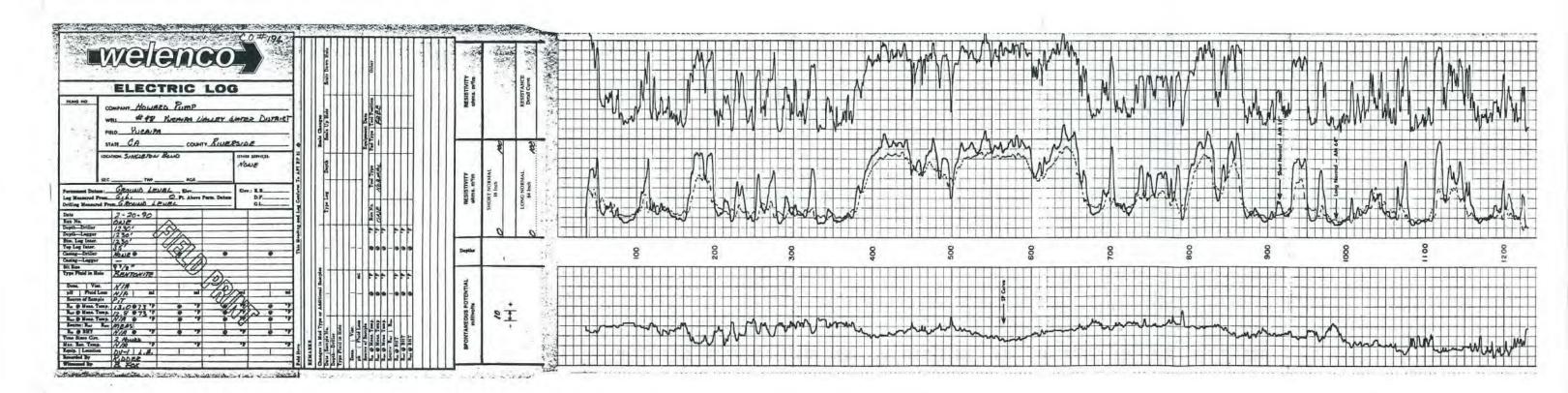
### STATE OF CALIFORNIA THE RESOURCES AGENCY

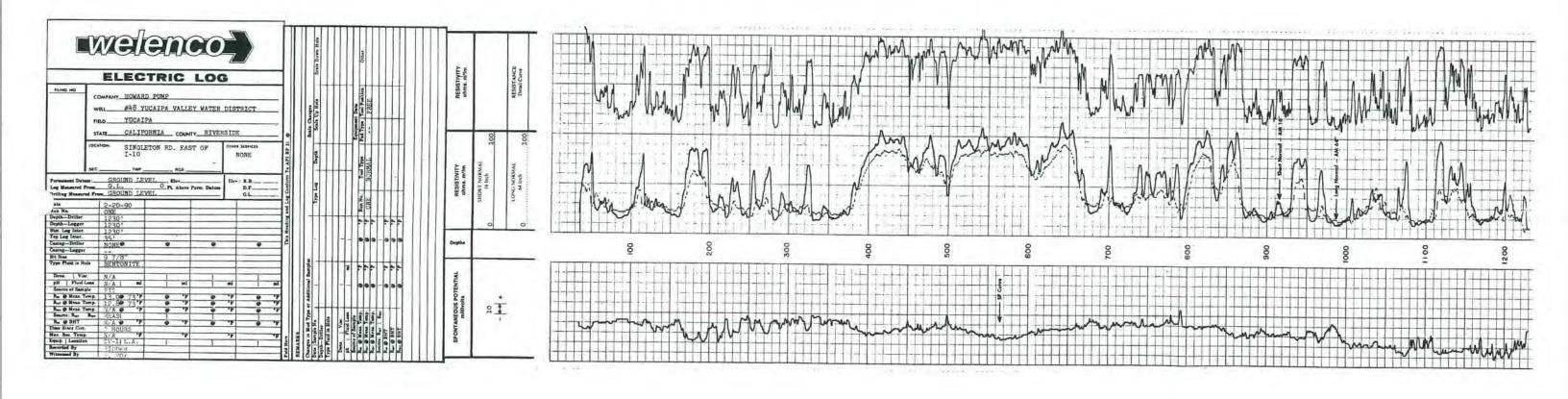
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

(1) OWNER. Name Address. Yucaipa, CA  (2) LOCATION OF WELL (See instructions):  (2) LOCATION OF WELL (See instructions):  (3) Sand & gravel  (3) Owner in the filterent from above. Singleton Road  (3) County Singleton Road  (4) Expression Singleton Road  (5) Sand & gravel  (6) Sand & gravel  (7) Sand & gravel  (8) Sand & gravel  (8) Sand & gravel  (9) Well address different from above. Singleton Road  (8) Sand & gravel  (9) Sand & gravel  (10) Sand & gravel  (11) Well LOG: Total depth 1230. It completed depth 1180  (12) Well LOG: Total depth 1230. It completed depth 1180  (13) County Will Sand  (14) Sand & gravel  (15) Sand & gravel  (15) Sand & gravel  (15) Sand and gravel  (16) Sand and gravel  (17) Sand and gravel  (18) Sand and gravel  (18) Sand and gravel  (18) Sand and gravel  (19) Well Location seerch  (10) Sand and gravel  (10) Well Location seerch  (10) Sand and gravel  (11) Sand and gravel  (12) Well Location seerch  (13) Type Of WORK  (14) PROPOSED USD  (15) Sand and gravel  (16) Sand and gravel  (17) CASION SEETCH  (18) Well Location seerch  (18) Sand and gravel  (19) Well Location seerch  (19) Well Location seerch  (10) Well Location seerch  (10) Well Location seerch  (11) Dia Gage or Road  (12) Well Location seerch  (13) Sand and gravel  (14) Sand and gravel  (15) Sand and gravel  (16) Sand and gravel  (17) CASION SEETCH  (18) Sand and gravel  (18) Sand and gravel  (19) Well Location seerch  (10) Well Sand Sand and gravel  (10) Well Sand Sand Sand and gravel  (10) Well Sand Sand Sand Sand Sand Sand Sand Sand	Notice of Intent No. 243716	25/2W - 741	2			State Well No.
Address   Vucaipa   CA   Zip   92399	Local Permit No. or Date	03/01/19				
Address   Vucaipa   CA   Zip   92399	(1) OWNER: Name		(12) WI	ELL	LOG: Total	I depth 1230 ft. Completed depth 1180 ft.
City   TUCE   TOC   TO	Address		10000			
30 - 32   SILTY clay and sand   County Everstde   County Everstd	City Tucalpa, CA	ZIP 92399		_		
Courty   Rivers   1   Courty   Rivers     Courty   Rivers     Courty   Rivers	(2) LOCATION OF WELL (See instru	untions)		-		
Well address if different from above Singleton Road  Township 2S Range 2N Section 24 115 129 Sand and grave!  Distance from cities, mads, railroads, fences, etc. 129 137 150 Sand and grave!  137 - 150 Sand and grave!  150 - 162 St. ty clay with sand  150 162 St. ty clay with sand  150 162 St. ty clay with sand  150 162 St. ty clay with sand grave!  162 - 188 Sand and grave!  162 - 188 Sand and grave!  163 TYPE OF WORK  New Well 2N Despening 201 224 SIL'y clay with sand cobbles  164 Sand, grave! and cobbles  165 Section St. ty clay with sand grave!  166 Section St. ty clay with sand grave!  167 Section St. ty clay with sand grave!  168 Sand and grave!  170 Section St. ty clay with sand grave!  170 Section St. ty clay with sand grave!  170 Cable Air 20 Section St. ty clay with sand grave!  170 Cable Air 20 Section St. ty clay with sand grave!  170 Cable Air 20 Section St. ty clay with sand grave!  170 Cable Air 20 Section St. ty clay with sand grave!  170 Cable Air 20 Section St. ty clay with sand grave!  170 Cable Backs and grave!  171 Section St. ty clay with sand grave!  172 Cable Backs and grave!  173 Section St. ty clay with sand grave!  174 Section St. ty clay with sand grave!  175 Cable Backs and grave!  176 Disp. Gage or ty clay with sand grave!  177 Cable Backs and grave!  178 Section St. ty clay with interbedde sand grave!  179 Cable Backs and grave!  170 Cable Backs and grave!  170 Cable Backs and grave!  171 Section St. ty clay with interbedde sand grave!  170 Cable Backs and grave!  171 Section St. ty clay with interbedde sand grave!  171 Section St. ty clay with interbedde sand grave!  170 WELL LOCATION St. ty clay with sand grave!  170 Well Library and grave!  170 Cable Backs and grave!  170 Cabl	Divancido	40		_		
Distance from cities, roads, railroads, fences, etc.   115 - 129   Sand and grave	Wall address of Jeff and I Singl	eton Road		_		
129   137   511ty Clay with Sand   137   150   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505   505	2S 2N		_			
137   150   Sand and grave    150   162   Shity clay   150   162   Shity clay   150   162   Shity clay   162   183   Shity sand grave    162   Shity clay with sand   162   Shity c	1					
150   162   SFLY Clay   162   188   3nd and grave   162   188   201   3nd and cobbles   224   243   3nd and carve   and cobbles   258   258   311   212   212   212   212   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213   213	Distance from cities, roads, railroads, fences, etc.	-	-			
162			_	-		
188 - 201   Sahd dravel and cobbles   201 - 224   311ty clay with sand cobbles   224 - 243   364   364   364   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   365   3				-		
New Well   Depening   201   224   51fty clay with sand cobbles   224   224   243   53md, graye   and cobbles   243   558   51fty clay with sand   265   265   266   53md, draye   and cobbles   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265   265		Calcaram was a survey				
Reconstruction Reconditioning Herizontal Well Destruction   Describe destruction materials and pro- cedures in Item 12)    Destruction   Describe   Describe   Destruction   Describe   De				_		
Reconditioning   Herizontal Well   Destruction   Chescribe   Destruction   Chescribe   Destruction   Chescribe   Destruction   Chescribe   Destruction   Chescribe   Destruction   Destruction   Describe   Destruction   Describe   Destruction   Describe   Destruction   Describe   Descr		New Well Deepening		_		
Horizontal Well Destruction   Describe destruction materials and procedures in Rem 12)  (4) PROPOSED USE Domestic Irrigation   1414   451   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511   511	II a la l	Reconstruction		-/		
Destruction   Describe destruction materials and procedures in them 12)  (4) PROPOSED USE: Domestic   Domestic		Reconditioning		1		
destruction materials and procedures in them 12)   (4) PROPOSED USE   338   321   311		Horizontal Well		-		Sand Gravel and cobbles
Code				1-		
A   PROPOSED USE   371   - 185   Silty Clay   Greenish		cedures in Item 12)		(		
Domestic Irrigation   385 - 114   Sand and grave		(4) PROPOSED USP		7		
Irrigation   Industrial		(()	1	-	7	
Industrial Test Well Test		-	4	-		Sand and gravel
Test Well  Municipal  Well LOCATION SKETCH  Sold 548 Sand gravel and silty clay  Sand and gravel  674 698 Silty clay with sand  698 711 Sand and gravel  757 Silty clay with sand  698 711 Sand and gravel  758 Silty clay with sand  759 770 Sand and gravel  750 783 Silty clay  770 Sand and gravel  770 783 Silty clay  783 825 Sand and gravel  784 825 Sand and gravel  785 825 Sand and gravel  785 825 Sand and gravel  786 Silty clay with interbedde  787 825 Silty clay with interbedde  885 860 Silty clay			414	A	X	Sand and gravel (rough)
WELL LOCATION SKETCH		1111		7-1,	508	Sand and gravel
WELL LOCATION SKETCH  Sequence of the provide of the				0)	548	Sand, gravel and silt
WELL LOCATION SKETCH  WELL LOCATION SKETCH  (5) EQUIPMENT Rotary XX Reverse Rotary Rotar		. / / 19	545	~_		Sand, gravel and silty clay
WELL LOCATION SKETCH  SEQUIPMENT  Rotary IX  Reverse			562	-0	567A	
Second   S	WELL LOCATION SKETCH	(hearthe)	674	-/	699	Silty clay with sand
Rotary XX Reverse   Revers	(5) EQUIPMENT CR.	AVBLAICK NO	698	~	911	
Cable   Air   Campete of bore   26   Air   Campete of bore   27   Air   Campete of bore   28   Air   Ca	Rotary XX Reverse I Yas W	X No X Size X X 8	133	(4)	757	
Other   Bucks   Racked from   0   1180   783   Silty clay	1 1 1	//	357	V	770	
Type of best of the last concrete   Type of best concrete   Type	- 11		OKC	-		
Steel BU   Plastic   Concrete   Type of perforations   Steel BU   Plastic   Concrete   Type of perforations   Type of type		24	783	-		
From To Dia Gage or Wall  1	(7) CASING INSTALLED: (8) PER	PORATIONS	825	-		The state of the s
From ft   The   Dia   Gage or   Gage or   The   Siot   Size   Silty clay with interbedde   Size   Silty clay with sand   Silty clay with s	Steel AM Plastic   Concrete   Type of	perforation or size of street		-		
Size	From To Dia Gage or Reco	To Slot	860	-	875	
Sand layers	ft. ft fn Wall			-		Silty clay with interhedded
Response	0 380 46 5/8 5/16 38	060	1500	-	12.00	sand lavers
1160	870 930 " " 93	V1.11.	1132	-	1161	
(9) WELL SEAL:  Was surface sanitary seal provided? Yes XX No   If yes, to depth   50   ft    Were strata sealed against pollution? Yes   No   Interval   ft    Method of sealing   Concrete grout   Work started   2-12   19-90   Completed   3-9   19-90    Work started   2-12   19-90   Completed   3-9   19-90    Work started   2-12   19-90   Completed   3-9   19-90    Well DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  Well DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  Signed   Gary S. Hall Jr    Well Driller)  NAME   Howard Pump   Inc    (Person, firml, of corporation) (Typed or printed)		1000		-	17.5	
Were strate sealed against pollution? Yes  \  No  \	(9) WELL SEAL:			-		Oriol Cral Mich Sant
Work started   2-12 19 90 Completed   3-9 19 90	Was surface sanitary seal provided? Yes 🗱 No 🗆	If yes, to depth 50 ft		-		
WELL DRILLER'S STATEMENT:   Depth of first water, if known	Were strata sealed against pollution? Yes 🔲 No 🛭	Intervalft		-		
WATER LEVELS:   Depth of first water, if known	Method of sealing concrete grout		Work starte	·db·	2-12	19 90 Completed 3-9 19 90
Depth of first water, if known	(10) WATER LEVELS:				LER'S ST	
The strong to	Depth of first water, if known	fi				17-5-14-21-0 P.
Comparison of test	Standing level after well completion	fi	hest of mu	know	ritica under r ledge and beli	my jurisdiction and this report is true to the
Was well test made? Yes No If yes, by whom? Signed Well Driller)  Type of test Pump Bailer Air lift Depth to water at start of test If At end of test If Discharge gal/min after bours Water temperature Address	(11) WELL TESTS:					
Type of test Pump Bailer Air lift Depth to water at start of test fi Al end of test fi Pussed Pump Inc (Person, firm), or corporation) (Typed or printed)  Discharge gal/min after bours Water temperature Address	Was well test made? Yes □ No □ If yes.		Signed		atry 3.	
Dischargegal/min_afterbours Water temperature Address		The second secon	NAME	-	loward Pr	mo Inc
Declark gal/unit after Bours Water temperature   Addition			Address		(Person,	tirm, or corporation) (Typed or printed)
D D Roy 1240		Water temperature		F	.O. Box	1249
		No. of the Control of	A STATE OF THE PARTY OF THE PAR	9	A - TO 1/17/2	CA Date of this report 92312_1240







25/2W-3J1

## DUPLICATE Driller's Copy

STATE OF CALIFORNIA

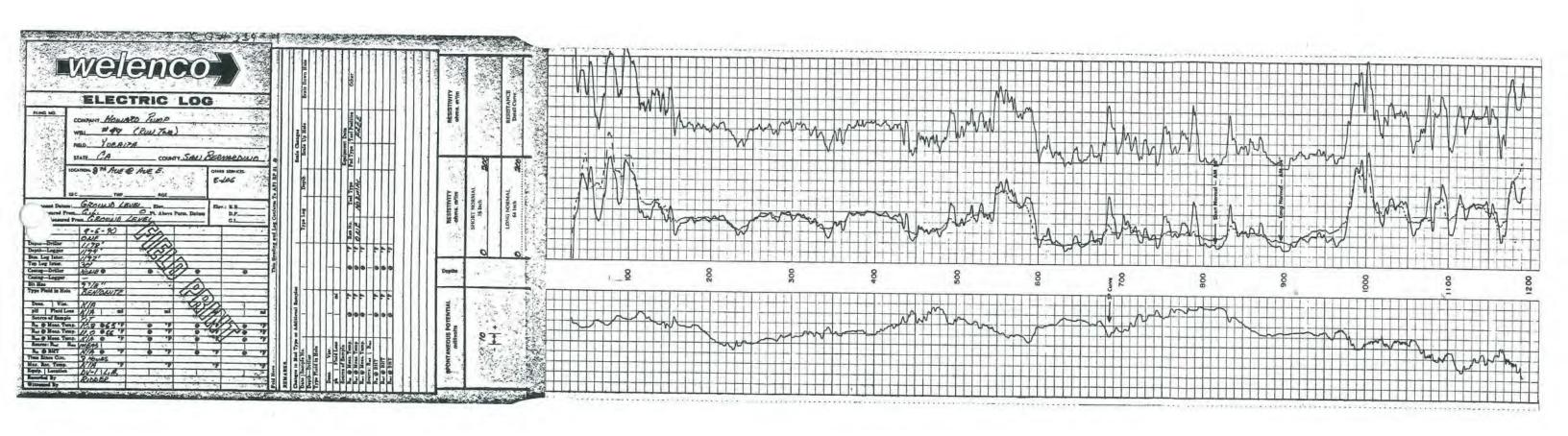
THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT Do not fill in

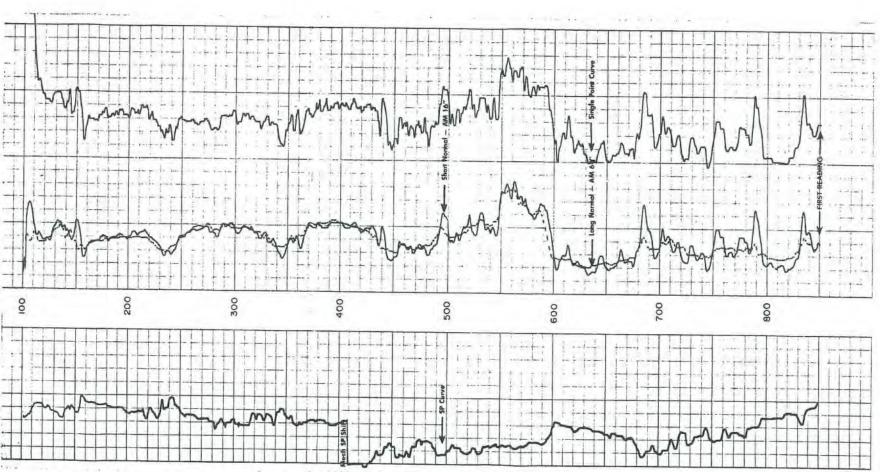
Notice of Intent No. 243729  Local Permit No. or Date	State Well No
(I) OWNER: Name	(12) WELL LOG: Total depth ft. Completed depth ft
Address	
City Yucaipa, Ca 92399 ZIP	total (Coortide by Color, Character, size of material)
(2) LOCATION OF WELL (See instructions):	0' - 390' 7.5hr Sand and gravel % cobbl
County San Bernardino Owner's Well Number #49	390' - 439' 22hr Drlg slowed down
Well address if different from above	- 539 432 EZ:II DITQ STOWEG COWN
Township 2S Range 2M Section 3	439' - 459' 22hr Sand 2 gravel 3 cobbles
Distance from cities, roads, railroads, fences, etc.	- y/some clay
Parcel # 318-051-43	453' - \$470, 22hr Sand's prayel w/some co
1 01 001 # 310-051-43	and sift
1815	470' - 473' 22 hr Sand 3 gravel w/some cl
(3) TYPE OF WORK:	
New Well □ Deepening □	478' - 490' 18hr Fine to med sand 3 silt
Reconstruction 50M	
Reconditioning SIT -	490 - 520 13hr Hed to course sand 5 si
Horizontal Well	
Destruction (Describe	529 - 535 Looks Like chipped rock
destruction materials and pro- cedures in Item 12)	sharp cobbles
(4) PROPOSED USE:	535 - 515 Med to course sand w/coobles
Domestic CM Ti	and silt
Irrigation	515 - 527 Sand & Gravel Wanne clay
Industrial	
Test Well	1 5.7; - 700 Sand 3 graval w/some cobbles
Municipal	1503' - 78 sili
Other	700 - 765 Med to course sand
WELL LOCATION SKETCH (Describe)	9 - 10 2
100	755 - 345 Hed to course sanda gravel
Boton XX	(2.25)
Rotary 1 Reverse Yes No Size  Cable Air Duameter of bore	© 854 TO
Other Bucket Racked from to th	854 - 935 Sand Gravel and cilts
	354 935 Sand, Gravel and silts
) CASING INSTALLED: (8) PERFORATIONS	935 - 1198 Med to course send
eel Plastic Gondrete Type of perforation or size of acceen	935 1198 Med to course sand
rom To Dia Gage or From To Slot	-
it it in Wall oft oft size	
520 570 480 622 570 570 570 800	
1122	
938 938	
) WELL SEAL:	
astural sanital Red provided? Yes KK No 🗆 If yes, to depth <u>50</u> ft	
ere strata sealed against pollution? Yes 🗆 No 🗆 Intervalft	
ethod of sealing	Work started19Completed1910
0) WATER LEVELS:	WELL DRILLER'S STATEMENT:
epth of first water, if known	This well was drilled under my jurisdiction and this report is true to the
	best of my knowledge and belief
1) WELL TESTS:  as well test made? Yes \( \subseteq \text{No} \( \subseteq \text{If yes by whom?} \)	Signed Yark C
pe of test Pump A Pailes A At 150 C	Howard Dume (Well Driller)
epth to water at start of test ft ft	(Person firm or corporation) (Typed or printed)
	DO Day 4045
scharge gal/min after hours Water temperature	Address PO_3ox_1249
scharge gal/min after hours Water temperature nemical analysis made? Yex X No	City

# County of San Bernardino — Environmental Public Works Agency PRESITE BY DEHS. County of San Bernardino — Environmental Public Works Agency DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES 385 North Arrowhead Avenue, San Bernardino, CA 92415-0160

Permit Number Expiration	1-12-91	2/	WELL (Please			Amount \$	12-90 412.50 umber 04129	IN CK 19787 \$ 275-137.50 P # 1978)
Site Address	esscaipa. CA Well #49	Z			ANNULAR SEA Furnished by:	L:  Owner ductor Dia	Seal Dept Contract in., Wall	t for all other wells.  h 50 ft.  or  (Gage) in.
	R: Howard	797-5117 Pump, Inc.	-	_	ProposedDIAMETER OF	1000 BORE (in.):	Existing 28"	0
Date Start Date Complet	April 19 e May 1990	-			From (ft.)	Plastic  To (ft.) 650	Other  Dia. (in.)	Wail (Gage)
3. WELL USE (c. xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	ty Hori			8.	GRAVEL PACK From 50 PERFORATIONS From 650	toto	e):	
4. TYPE OF WO	☐ Reconst		☐ Destruction		SEALED ZONES	to	50 fr	
	B1 4 D	16	which will and	1	(b) Assess (c) Solid o	ship 2S on 3 sor's Parcel No or liquid waste	_N/S Range _ lo318=051= a disposal site w	e 2W E/W
SW 1	4	SE	ARIZONA St.		SealCheck ValveElectricalsSiab	DO NO		
		AUE F CAN	PROX.)		TagBuilding and Sa	fety Notified_		



	ELECT	TRIC L	.OG			Scale Down Hola		RESISTIVITY ohms. m*/m		RESISTANCE Detail Curve
FILING NO	COMPANY HOWARD	PUMP				Hole	Equipment Data Ped Type   Tool Position	RESIS		RESIS
	FIELD YUCAIPA					all a	A S S			
- 4	STATE CALIFOR	NIA COUNTY_	SAN BERN	ARDINO	e	Scale Changue Scale Up Hole	ed Type			-
	SECTWP	AVE E		ONE	To API RP 31	Depth	2	≿ E	1AL 200	AL. 200
Permanent Dai Log Manured willing Measure	From G.L.	0 Ft. Above Perm		D.F	Log Conform	Type Log	OHE NORMAL	RESISTIVITY ohms. m³/m	SHORT NORMAL 16 Inch	LONG NORMAL 64 Inch
in No.	ONE 854'	-			This Heading and					1
Depth-Logge	853'				1		100 to 100 to 100		0	0
Stm. Log Inter	. 850'				12				-	
					12			Depths		
Top Log Inter.					E 241 E			Depths		
Top Log Inter. Casing-Driller	NONE D		0		4111					
Top Log Inter. Casing—Driller Casing—Logge	NONE •				1					
Top Log Inter.	NONE •	•	-			372				_
Top Log Inter. Casing—Driller Caning—Logge Bit Size Type Fluid in 1	NONE 9 17 - 19 7/8" 10le BENTONITE	•				salqma	444 44 6			_
Top Log Inter. Casing—Driller Casing—Logge Bit Size Type Pluid in P	NONE 9 7/8" 97/8" BENTONITE					al Samples		TIAL		
Top Log Inter. Casing—Driller Casing—Logge Bit Size Type Fluid in 1 Dena.   Vi pH   Fluid	P NONE 9  9 7/8"  10le BENTONITE  10sc. N/A ml	e la				lional Bamples	966-966	ENTIAL		
Top Log Inter. Casing—Driller Casing—Logge Bit Sine Type Pluid in 1 Dena. Vi pH   Fluid Source of Sam	P NONE P  17 -  19 7/8"  10 BENTONITE  10 BENTONITE  10 BENTONITE  10 BENTONITE  10 BENTONITE  10 BENTONITE	l ml				dditional Samples		OTENTIAL		
Fop Log Inter. Caring—Driller Caring—Logge Bit Size Fype Fluid in 1  Dena. Vi pH   Fluid Source of San Ra @ Mona.  Ray Mona.	P NONE 9  17 -  18 -  19 7/8"  10 BENTONITE  10 BENTONITE				7 1	r Additional Bamples		S POTENTIAL olts		
Top Log Inter. Casing—Driller Caning—Logge Bit Sina Type Fluid in 3  Dena. Vi pH   Fluid Source of San Ran @ Mona. Ran @ Mona. Ran @ Mona.	P NONE 9  17 -  18 -  19 7/8"  10 BENTONITE  10 BENTONITE	ml	• "	m		8		DUS POTENTIAL	×3	
Tep Log Inter. Casing—Drille Caning—Logge Bit Siss Type Fluid in 1  Dena.   Vi pH   Fluid Source of San Ra @ Mona. Rat @ Mona. Source: Rat	NONE	ml		m		Type or		VEOUS POTENTIAL millivolts	×3	
Top Log Inter. Caning—Driller Caning—Logge Bit Size Type Fluid in 1  Dena.   Vi pH   Fluid Source of San Ra   Mona.	NONE	ml	m	m		Type or		TANEOUS POTENTIAL millivoits	× ]	· ·
Top Log Inter. Casing Drille Caning Logs Bit Sias Type Pluid in 1  Dena.   Vi pH   Fluid Source of San Ra @ Mena. Ras @ Mena. Source: Rat Ras @ BHT Time Since Cir	NONE	ml				Type or		ONTANEOUS POTENTIAL millivolts	× ]	-
Top Log Inter. Casing—Driller Casing—Logse Bit Siss Type Pluid in 1  Dena.   Vi pH   Fluid Source of San Ra @ Mona. Ras @ Mona. Ras @ Mona. Time Since Cir. Time Since Cir. Time Since Cir.	NONE	ml				Type or		SPONTANEOUS POTENTIAL milliholts	× ]	Ė
Top Log Inter. Casing—Drillet Casing—Logs Bit Sias Type Pluid in 1  Dens.   Vi pH   Fluid Source of Sas Ra @ Mens. Rac @ Mens. Source: Rat Ra @ BHT Time Since Cir	NONE	ml				Mud Type or de No. Her in Hole		SPONTANEOUS POTENTIAL millinglis	8	<u>.</u>



\$ 25/2W-101- Mores say changed to 25/2W-1K1 in 2003

THE RESOURCES AGENCY

Do not fill in

#### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

No. 341098

ice of Intent No. 249930	State Well No.
(1) OWNER: Name	(12) WELL LOG: Total depth ft. Completed depth ft.
Address	from ft. to ft. Formation (Describe by color, character, size or material)
City ZIP92399	0 - 5 Clay (brown silty)
(2) LOCATION OF WELL (See instructions):	-
County San Sernardino Owner's Well Number #50	5 - 80 Sand and gravel
Well address if different from above	
Township Range Section	30 - 270 Sand gravel & cobbles
Distance from cities, roads, railroads, fences, etc.	270 - 001 0 1
Dames 1 # 210 122 25	270 - 291 Sand, gravel soboulders
Parcel # 319-132-25	291 - 300 Silty say and asand
AN THRE OF WORK	- Sub- Strick State and assure
(3) TYPE OF WORK: New Well ** Deepening	300 - 334 Sand oravel and boulders
Reconstruction	- 0
Reconditioning	334 311 Silty clay and sand
Horizontal Well	- 11 0100
Destruction □ (Describe	34 - 372 Sand Sarafel and cobbles
destruction materials and pro- cedures in Item 12)	121 1/10 0
	3X2 383 Dank preen pock (hard)
(4) PROPOSED USE:	D - C A A A
Domestic Irrigation	338 - 420 Sand Travel and cobbles
Industrial	4 1 100
Test Well	420 - 430 Sand S gravel & cobbles
Municipal	123 - 450 Gradite
Other D	O Ken - SW MUNICE
WELL LOCATION SKETCH (Describe)	450 - Granite w/silts
(5) EQUIPMENT: ACK:	112-0
Rotary (No. 1) Size	(a)(b)
Cable Air Biameter of bore	9117) s
Other   Bucket   Racked from to fe	(())~-
	<u>~</u>
(7) CASING INSTALLED (8) PERFORATIONS.  Steel XX Plastic  Sonerete Type of perforation or size of series	7
From To Dia Gage or Rom To Slot ft. ft. Wall	
0 330 549 124 330 358 .080	
0 330 15 5/8 .134 550	
	-
(9) WELL SEAL:	
Was surface sanitary seal provided? Yes 🖫 No 🗆 If yes, to depth 201 ft.	-
Were strata sealed against pollution? Yes 🗌 No 🗌 Intervalft.	
Method of sealing Hole plug	Work started 4-9 19-32 Completed 34-13 19
(10) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth of first water, if known ft.	This well was drilled under my jurisdiction and this report is true to the
Standing level after well completionft.	best of my knowledge and belief.
(11) WELL TESTS: Was well test made? Yes \( \subseteq \text{No} \subseteq \text{If yes, by whom?} \)	Signed Gary Hall (Wall Driller)
Type of test Pump Bailer Air lift	NAME Howard Pump (Weller)
At end of test ft. At end of test ft.	(Person, firm, or corporation) (Typed or printed)
chargegai min afterhours Water temperature	Address PO 39x 1219  Gity 3arstov Ca ZIP 32244
hemical analysis made: Yes   No   If yes, by whom?	License No. 221211 Date of this report
	NEXT CONSECUTIVELY NUMBERED FORM

#### STATE OF CALIFORNIA

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

No. 341098

Votice of Intent No. 249930		Other Well No.
		(12) WELL LOG: Total depth / ft. Completed depth _ ft.
(1) OWNER: Name		[1] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
Address	ZIP 92399	from ft. to ft. Formation (Describe by color, character, size or material)
City		0 - 5 Clay (brown silty)
(2) LOCATION OF WELL (See inst	ructions):	5 - 80 Sand and gravel
County San Sernardino Ow	ner's Well Number	5 - 00 Sand and graver
Well address if different from above Township Range	Province	80 - 270 Sand gravel & cobbles
Distance from cities, roads, railroads, fences, et		- ^
Distance from cities, foads, famoads, fences, et		270 - 291 Sand, gravel poulders
Parcel # 319-132-2	5	- ~ ~
		291 - 300 Silty slay and asand
	(3) TYPE OF WORK:	
	New Well Deepening	300 - 334 Sand gravel and boulders
	Reconstruction	334 31 Silty chay and sand
	Reconditioning	334 341 Silty clay and sand
	Horizontal Well	341 - 372 Sand Sarevel and cobbles
	Destruction (Describe destruction materials and pro-	The sale and constant
	cedures in Item 12)	3XX 388 Dark preen pock (hard)
	(4) PROPOSED USE:	Y- 6. V/V
	Domestic	388 - 420 Sand - dravel and cobbles
	Irrigation	A D VOSTO
	Industrial 🔲	420) - 430 Sand Gravel & cobbles
	Test Well	100
	Municipel	430 - 450 Graphite
	9 ber	
WELL LOCATION SKETCH	(Bescribe)	450 - Granite W/silts
	HAVBURICK:	
Rotary & Reverse		-(U)(S)
Cable   Air   Pian	etes of bore	(C)(V) -
Other   Bucket Rocks	rd from	
IN CACINIC INCOMALLED	ED POOL TIONS	9 -
Steel XX Plastic   Concrete   Type	of perforation or size of ecseep	
From To Dia Gage or R	To C Slot	
ft. ft (m) Wall	Size Ville	
0 330 6 5/8 134 3	30 .080	
0 330 0 370 1131	CHIO.	
	N. T	
(9) WELL SEAL:		
	If yes, to depthft.	
The state of the s		Work started 4 9 19 00 Completed 24 13 19 9
Method of sealing Hole olug		Work started 19 19 90 Completed 34.13 19 9 WELL DRILLER'S STATEMENT:
(10) WATER LEVELS:  Depth of first water, if known	ft.	
Standing level after well completion	ft.	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
(11) WELL TESTS:		C U-11
	es by whom?	Signed Gary Hall Howard Pump (Wdl.Duller)
Type of test Pump  Bui	ler 🗀 Air lift 🗆	INAME
Depth to water at start of test ft.	At end of test ft.	(Person, firm, or corporation) (Typed or printed) Address 90 30x 1240
Discharge gal/min after hours Chemical analysis made? Yes □ No □ . If y	Water temperature res, by whom?	City Sarstow Ca ZIP 12311
- 11. 11. 11. 11. 11. 11. 11. 11. 11. 11	es, attach copy to this report	License No. 281214 Date of this report
	ONAL SPACE IS NEEDED, USE	NEXT CONSECUTIVELY NUMBERED FORM

STATE OF CALIFORNIA

ORIGINAL Te with DWR	DEPARTMENT OF W WATER WELL DE	ATER RESOURCES	No. 341098
Local Permit No. or Date	-025/020-0		State Well No. Other Well No.
(1) OWNER: Name			oth 481 ft. Completed depth 350 ft.
Address	*		Describe by color, character, size or material)
City	ZIP 22399	0 - 5 Clay	(brown silty)
(2) LOCATION OF WELL (See	instructions):	5 - 80 Sand	and gravel
County San Bernardino	Owner's Well Number #50	5 - 00 30110	allo di avei
Township Range	200_Section	80 - 270 Sand	gravel & cobbles
Distance from cities, roads, railroads, fence			<b>A</b> :
		270 - 291 Sand.	grave & boulders
Parcel # 319-132	2-25	291 - 300 Silty	May and sand
	Total and an entre	- 300 SILLY	Sas and same
# changed 3128/03 plate in K 01 K001	(3) TYPE OF WORK: New WellX Deepening	300 - 334 Sand	gravel and boulders
# Changea	Reconstruction	- 1	
3128103	Reconditioning	334 - 341 Silty	clay and sand
plate in K	Harizontal Well	3/11 272 / Cand	& gravel and cobbles
1 4001	Destruction (Describe destruction materials and pro-	24/1-215 2010	
OIROU	cedures in Item 12)	372 388 Dark-	Green rock (shard)
99	(4) PROPOSED USE	V- (C	0,00
00	Domestic		-gravel and cobbles
7 22	Irrigation [Industrial	F .	& gravel & cobbles
	Test Well	42001-430 34110	a disaset a copplex
	Municipal	420 - 450 Grani	ite
	(Describe)	10)	
WELL LOCATION SKETCH	(Describe)	13450 - 481 Gra	nite w/silts
(S) EQUIPMENT:	GL CRAVEL PACK		
Rotary & Reverse	Sed of NO FI	(2)// -	
Cable Air	Piagneter of borc	11 11	
Other   Bucket	~ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-	
(7) CASING INSTALLED:	(6) PERFORATIONS	7: -	
	Type of perforation or size of sentent	-	
From To Dia Gage or ft. ft. Wall	From To Slot		
	220 12 050 4 020		
0 330 5-5/8 134	0/1/10	1000 A	
	120		
(9) WELL SEAL:		-	
Was surface sanitary seal provided? Yes 🖾		fe	
Were strata scaled against pollution? Yes C Method of sealing Hole (		Work started 4-9	19 90 Completed 4 13 19 91
(10) WATER LEVELS:		. WELL DRILLER'S STA	
Depth of first water, if known		This well was Lilled under m	y jurisdiction and this report is true to the
Standing level after well completion		it. best of my knowledge and belie	J.
(11) WELL TESTS:		Signed Gary Hall	(Well Driller)
Was woll test made? Yes ☐ No ☐	Bailer Air life	NAME Howard P	ump (Well Driller)
ATT TA		- IV.	( a manufacture of the property of the propert

gal/min after ..

Chemical analysis made? Yes . No . If yes, by whom? \_

Yes 闪

Address

At end of test \_

Water temperature .

ZIP - 92311

Date of this report \_

(Person, firm, or corporation) (Typed or printed)
BOX 1249

SAW -2901

### ORIGINAL File with DWR

### STATE OF CALIFORNIA THE RESOURCES AGENCY

### DEPARTMENT OF WATER RESOURCES

Do not fill in

WATER WELL DRILLERS REPORT No. 341364

Local Permit No. or Date 04129021	State Well No
(I) OWNER: Name	2) WELL LOG: Total depth ft. Completed depth
	trom II to It F
ZIP 92300	from ft. to ft. Formation (Describe by color, character, size or mater  0 - 18 Clay
(2) LOCATION OF WELL (See instructions):	U 10 Clay
County San Bernarding Owner's Well Number #51	18 - 45 Sand Gravel and Citt
Well address if different from above	18 - 45 Sand, Gravel and Cobbles
Township Range Section	45 -65 Clay w/sand
Distance from cities, roads, railroads, fences, etc.	45 -65 Clay w/sand
	65 -84 Sand grave and cobbles
	55 -84 Sand, gravel and cobbles
	84 -110 Clay Sand
(3) TYPE OF WORK:	- ^ \/
New Well   Deepening	110 -291 Sand, gravel and cobbles
Reconstruction	-/>
Reconditioning	291 Clay w/Sand and gravel
Horizontal Well	
Destruction ☐ (Describe destruction materials and pr	298 -345 Sand and Gravel
cedures in Item 12)	1017 1110
(4) PROPOSED USE	345 360 Sand and graval w/ clay
Domestic	
Irrigation	Sand and gravel and cobbles
Industrial	The state of the s
Test Well	482 - Ago Sand and gravel (green)
Municipal	
Other	5ând and gravel
WELL LOCATION SKETCH (Describe)	
EQUIPMENT: JOH GRAVEL MICK:	
Rotary   Reverse   Yes   No   Size	of rock. very hard DRIG
- SemeteNot bore	(610) 683 Very hard Rock Chips
Other Bucket Racked from	No sand or clay (granite)
CASING INSTALLED: (8) PERFORATIONS	- Bu Said or Clay (granite)
el Plastic Onnerete Types of perforation or size of senses	- 683 T D
rom To Dia Gage or Room To	-
the call of the ca	
wall size	
1111	-
WELL SEAL:	
s surface sanitary seal provided? Yes 🗆 No 🖂 If yes, to depthft.	
re strata sealed against pollution? Yes No Interval ft.	
hod of sealing II.	
) WATER LEVELS:	Work started 4-23 19 90 Completed 19
th of first water, if known	WELL DRILLER'S STATEMENT:
ding level after well completionft.	This well was drilled under my jurisdiction and this report is true to the
) WELL TESTS:	best of my knowledge and belief.
WELL IESIS:	Stand 1
well test made? Yes No If yes, by whom?	Signed
well test made? Yes No If yes, by whom?	444-II P-01-4
well test made? Yes No If yes, by whom?	(W-II P-dL-)
well test made? Yes No If yes, by whom?	(Well Driller)

15/2W-24C

#### TRIPLICATE Owner's Copy

#### STATE OF CALIFORNIA THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT Do not fill in

No. 341364

Notice of Intent No. 243729  Local Permit No. or Date 04129021				1900	Well No Well No	
(1) OWNER: Name		2) WELI	L LOG:	Total depth	ft. Completed de	epth ft.
Address	34 M. T. C.	from ft. to			by color, character, s	
City	ZIP 92399	η -		Clay	by colon, character, a	ize in materialy
(2) LOCATION OF WELL (See instructions	.).		10	Stay	-	
County San Bernardino Owner's We		13 -	45	Sand Gra	vel and Coph	lae
Well address if different from above Kadota	& Bryant	-	72	23/13, 010	VEL GILL GUIL	11:25
10 0 11		45 -	55	Clay w/sa	nd	
	Section 24	45	02	CIGA W. 20		
Distance from cities, roads, railroads, fences, etc.		55 -	84	Cand and	AND CODE	156
- Tribani		-	U-F	Soillie yra	The same	162
302-311-04		84 -	110	clayloga	nd	
	TOTAL CONTRACTOR	34	112	TITA 14 24	15.1	
1 1707 0	YPE OF WORK:	110 -	291	Band Kan	vel and cobb	1.00
1600	Well Deepening []	110	~	James 119	AGI BULL TOUR	Tes
	nstruction	291 €	25	212	and amous	1
T T T T T T T T T T T T T T T T T T T	nditioning	291 7	4	LIN MASS	nd and grave	1
1 27/303	tontal Well	201 -	345	Sand and	2	
Destr	uction (Describe	100	363	2930 330	ravel	
	res in Item 12)	1.10	367	11110	~ (D)	ur.c
(4)	PROPOSED USE	34/	1	Sand and	Perella 1 Cl	ау
Dome	((/	200	J. SAL	110	(A)	
Irriga	ation _ N	(351) -	388	Sau Sou	gravel and c	obbles
Indu		10/1	0	(3/2)		
Test	1111-	43807-	100	Sanit San	gravel (grae	7)
Muni	A \\/	6/1/10		>		
Othe	11	1101 -	2500	Jigd and	gravel	
WELL LOCATION SKETCH	gibe)	-	2			7-1
	A D Ame	V600 -			gravel w/sha	
(5) EQUIPMENT: (6) CRAVBLE	CK: AND AME	r. (4-		of rock.	very hard D	SLG
Rotary K Reverse C Yes No	Rancho	20/13	2			
Cable   Air   Biameters of born	O STATE CAN	(2/2)) =	683		Rock CHips	
Other Bucket Racked from	O GEXX 618			no sand o	r clay (gra	nite)
(7) CASING INSTALLED: (8) PERFORAT	Tione O	5 -		4.2		
Steel KK Plastic   Sonerete   Type of perform	1 Color to act to act		533	TD		
	out at size of creed	25				
From To Dia Gage or Roma	To Slot size	-				
0 230 12" . 230	111					
590 610	√590> ~.080					
330 010	1.7.					
(9) WELL SEAL:	~					
Was surface sanitary seal provided? Yes No I If yes,	to depth 50 ft.					
	,					
30" conductor coment	ed in place		1000	46	0 101	1 9
(10) WATER LEVELS		Work started_	H I ED'C		Completed	19
(10) WATER LEVELS: Depth of first water, if known 82.1		WELL DR	ILLER'S	STATEMEN"	1:	
Standing level after well completion 90.1		This well was	drilled und	der my jurisdicti	on and this report	is true to the
	n.	best of my kno	Gary H			
(11) WELL TESTS:  Va. well test made? Yes   X No   If yes, by who	" HPI	Signed	out y I		Deflect	
ype of test Pump X Bailer		NAME	,19,00		Driller)	
Depth to water at start of test 84e 1 A	t end of test 90.1	0	.D. 30%	rouling or torpor	fion) (Typed or printed town, Ca 923)	2 4234
The state of the s	aler temperature	Attities	. J. 50X	1203 9213		2-1269
Chemical analysis made? Yes No 🗗 If yes, by who		City		14	ZIP	-22-91
Was electric log made Yes D. No D. If yes, attach o	opy to this report	License No	2319	14 I	Date of this report	- J1



15:07

02/05/99

Yucaipa Valley Water District

12770 Second Street . P. O. Box 730 . Yucaipa, California 92399-0730 (909) 797-5117 • E-mail: yvwd@eee.org

Yucaipa Val. W.D.

#### FAX COVER SHEET YVWD ENGINEERING FAX NO.: 909-797-5937

Date: 02-05-99	Number of Pages Including Cover 6
To: MR. TONG  Ges Sciences	
FAX NO.: (907) 9720 - 0403	
FROM: B. Auten)	
REGARDING: Well = 53 (YUW Ray - Asked Me to	Sound you
E-Los & Deilles	2

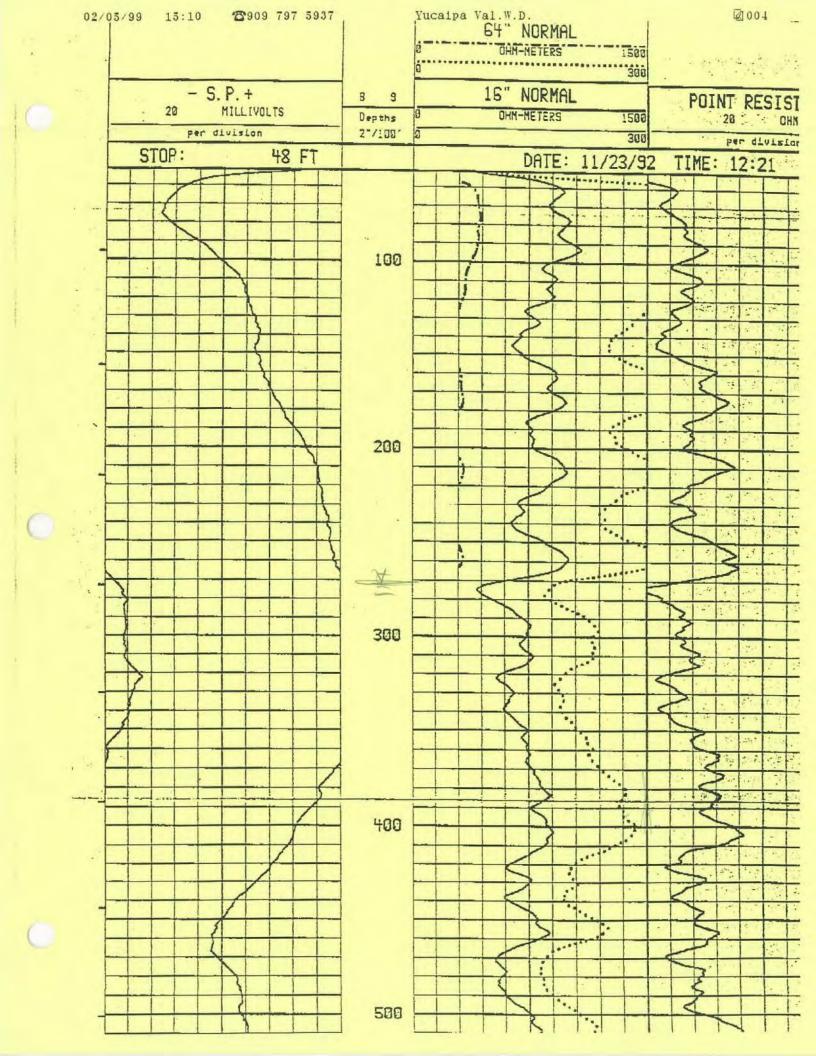
Carefully account for the number of pages faxed to you. If there are any missing or illegible pages, please notify the sender immediately.

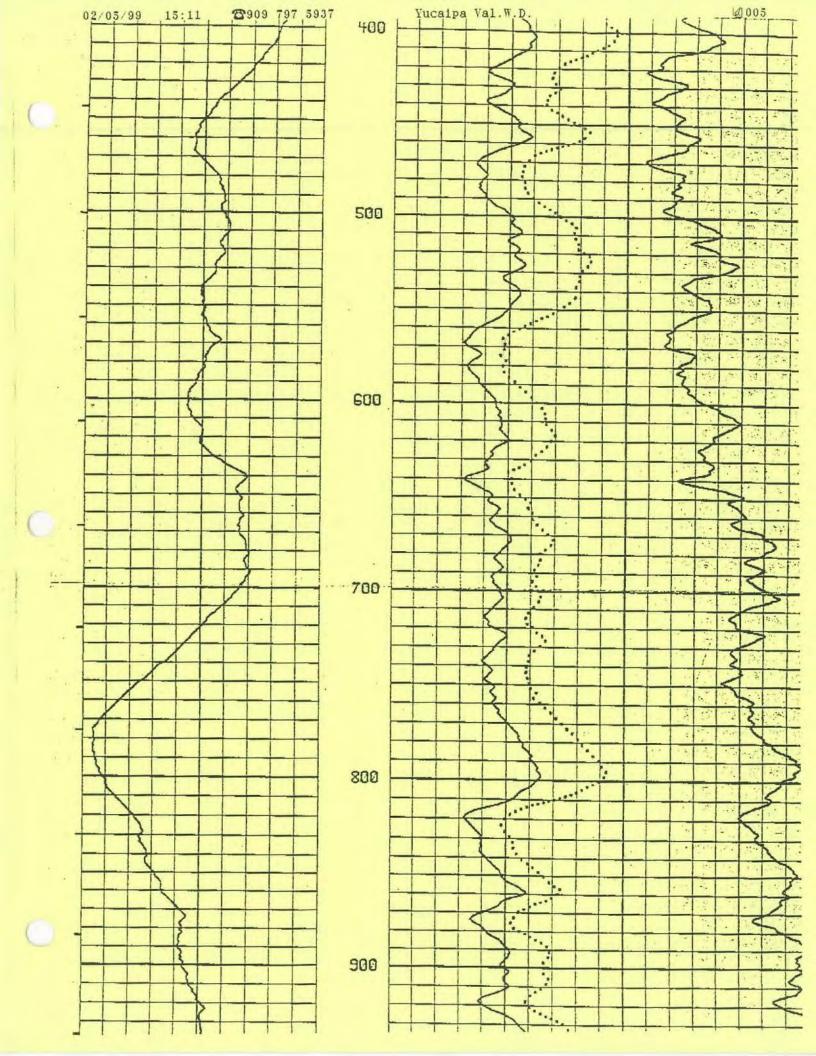
Directors and Officers

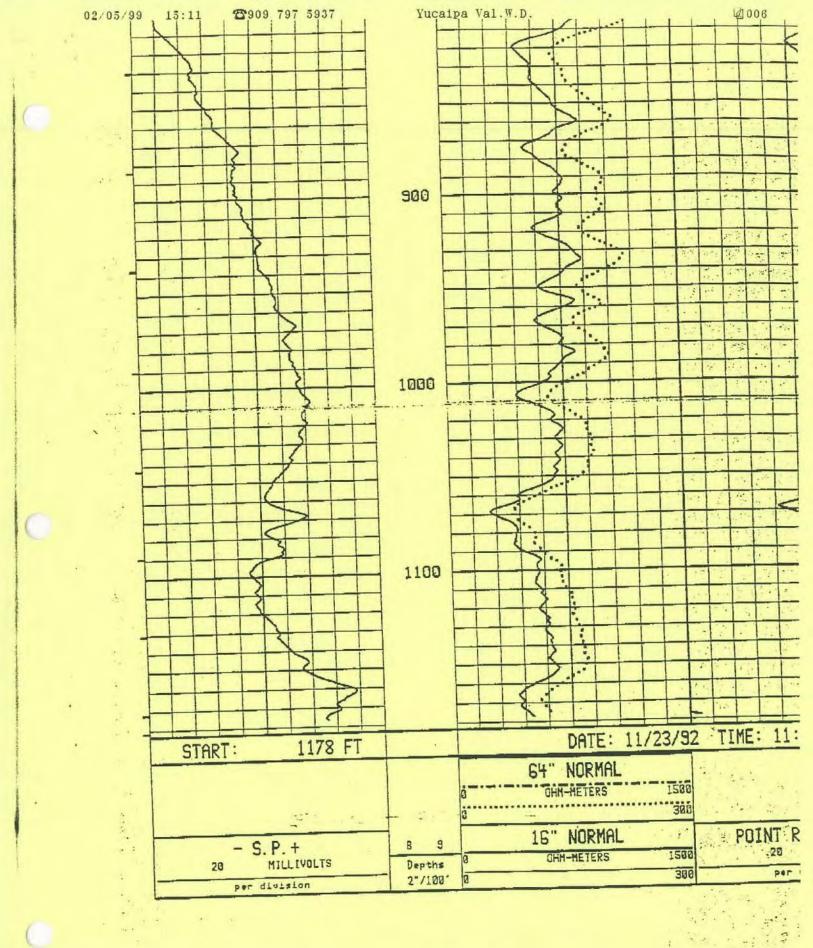
					To the second second
	TRIPLICATE	STATE OF CALL	FORNIA	DWR US	E ONLY - DO NOT FILL IN
	Owner's Copy	WELL COMPLET			til til
-	Page 1 of 1	Refer to Instruction	Pamphlet	-	STATE WELL NO. STATION NO.
- Ale	Owner's Well No. 11-10-92	No. A	77777		
	Date Work Began 11-10-92	Ended 1-30-93		LATITUDE	LONGITUDE
	Level Permit Agency San Bernar	finded 1-30-93 dino Environment Heal	th		
1	Local Permit Access San Bernar	Permit Date		- [	APN/TRS/OTHER
	GEOLOGIC				
				WELL C	WSER
	CHIENTATION (∠) X VERTICAL HOR	TONTAL (SPECIFY)	Name		
-			Mailing Address		
_	SURFACE DE	SCRIPTION	CITY	- 1	
	oft. 10 50 TOP SOIL	erial, grain size, color, etc.		TO THE LO	Road, between Sunnyside
1	50 60 FINE SAND AND	GRAVE!	Address	in Caty of	Road, Desween Sunnyside
		SE SAND, GRAVEL	City	THE COLY OF	rucarpa
9	110 150 FINE & COARSE		County	Bernardino	
		SE SAND, GRAVEL	APAL Book 303	Page 51	Parcel 45
-	250 .290 FINE SAND GRAV	PROPERTY AND ADDRESS OF THE PROPERTY OF THE PR	Township 15	- 74	Section 5
_			Latitude	NORTH	Longitude west
		Editor Control of the	DEG.	MIN. SEC.	DEGL MINL SEC.
-	440 490 SAND, GRAVEL,			NORTH -	
	490 : 500 DECOMPOSED GRA		SAN BEENE ER	E CONTROL D	_ NEW WELL
1		NITE, SAND, GRAVEL	7 700	- Career	
	520 640 SAND, GRAVEL, C		1	/	Deepen Other (Specify)
- 1	640 : 680 : SAND, GRAVEL, R		1	/ /	— Other (Specify)
b	680 :710 :SAND, GRAVEL, C		1/		
	710 740 SAND, GRAVEL,		Y	/	DESTROY (Describe Procedures and Materials
	740 ; 800 ; GRAYEL, ROCK, G	RANITE, BOULDERS			PLANNED USE(S) -
	800 840 SAND, GRAVEL, RU	CK,CLAY	NES /		(2)
I	840 860 CEMENTED BAND,	GRAVEL, ROCK	5 / /		- MONITORING
•	860 : 1030 : SAND, SRAVEL, SM	ALL & LARGE ROCK, CLAY	1//	1225 = -	WATER SUPPLY
	1030 . 1140 . SAND, GRAVEL, CL	AY, VOULDERS	1 60	-	ts Domestic
	1140 1210 SAND, GRAVEL, C	LAY	1 5		Peblic
11	1210 1220 CEMENTED SAND.	GRAVEL GRANITE	4	DAK GLEN EL	_ Irrigation
1			1 1		Industrial
			1 1		TEST WEUL"
			-	sоитн	CATHODIC PROTECTION
1			such as Roads, Buti	or Distance of Well from	
			PLEASE BE ACC	TRATE & COMPLETE	
1			DRILLING Rever	se	Water
			METHOD WATER	LEVEL & FIELD	OF COMPLETED WELL
			DEPTH OF STATIC	331'	TE MEASURED 1-4-93
	_		ESTIMATED YIELD	1750 (FP.) & D.	Test Type Constant
	TOTAL DEPTH OF BORING 1225	u	24	(GPM) &	TEST TYPE CONSTANT
	TOTAL DEPTH OF BORING 97	(Feet)		(Hrs.) TOTAL DRA	
	The track of the fact that the	1-31-1	July not be repres	Committee of a seem 3 ton	K-10/11 TIEM.
	DEPTH BORE-	CASING(S)		DEPTH	ANNULAR MATERIAL
	FROM SURFACE HOLE TYPE (L)	MATERIAL INTERNAL GAUG	E SLOT SIZE	FROM SURFACE	TYPE
	1,000				CE- BEN- MENT TONITE FILL FILTER PACK
	1,000	GRADE DIAMETER OR WA			
	Ft. to Ft. Unchea)	GHADE (Inches) THICKNE	ESS (Inches)	Ft. to Ft.	
	Ft. to Ft. 00-50 40"	M.S. 30" 5/16	ESS (Inches)	0 50	(Z) (Z) (Z) (ME/SIZE)
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	Ft. to Ft. Onches   10	M.S. 30" 5/16 M.S. 16" 5/16	OSO  CERTIFICA  this report is completed.	0 50 970 970 970 1225	X 12 valley  X Natural
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	Pt. 10 Ft. Onches) ### ### ### ### #### ###############	M.S. 30" 5/16 M.S. 16" 5/16 M.	OSO  CERTIFICA  this report is completed.	0 50 970 970 970 1225	The best of my knowledge and belief.
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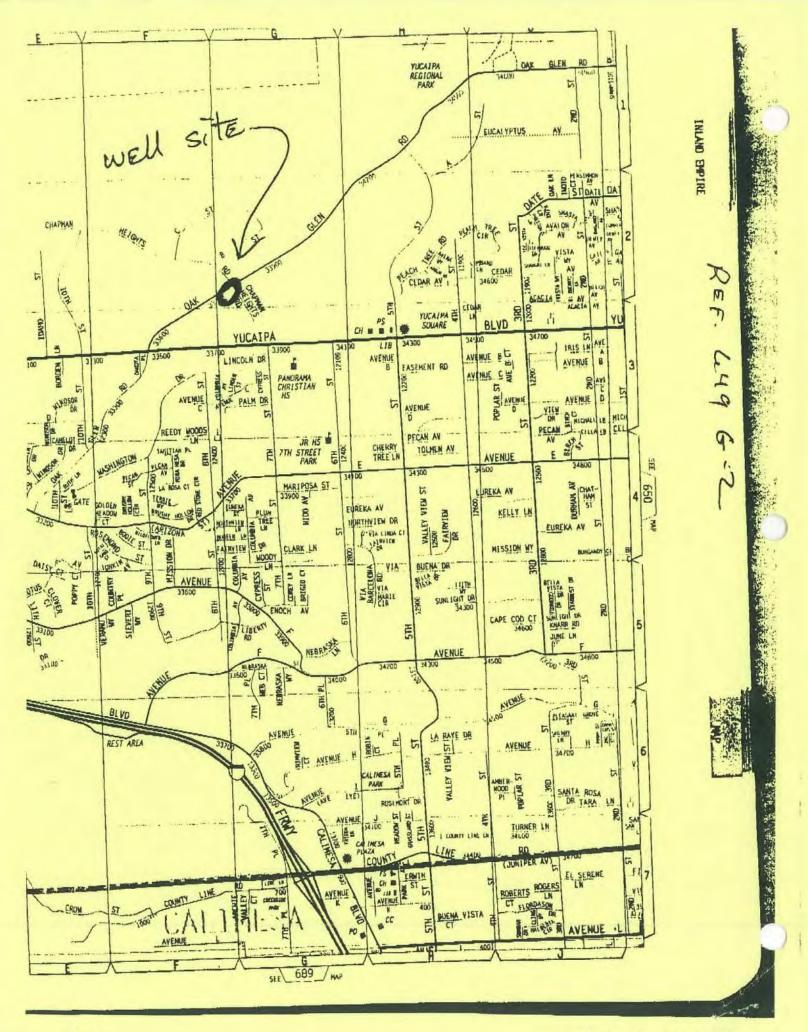
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Recorded By	-		Logger on bottom	e End Circulation	Rm @ BHT	1-	Rmc P Heas, Temp.		Rm e Heas, Temp.	Source of Sample	pH   Fluid Loss	-	Tupe Fluid in Hole	BIT SIZE	Casing orditer	rop Log Interval	9tm Log Interval	Depth-Logger	Depth-Driller	Run Na.	Date		Perhament datum GROUND LEVEL Log Heasured From GROUND LEV	T 130	IELL OCAT	MA:THE	PA PALI	A BRO	VE S		LIN		1 100 1 1 1			The Term	7	
RIDDER	L-14 L. R.	N∕R °¢	11: 59	11/22 21:00	N/R B N/R OF	HEAS N/A	HAU B NA OF	16. 8 0 70 of	16.8 @ 70 °F	PIT	NZA NZA CC	NZA NZA	WATER	17.5	50'		1178	1180'	1180	DNE	11/23/92		D LEVEL	. Alex	Tup.	SOUTH OF	TON	SAN	YUCAIPA		#53	NY MCCALLA				CO		
		9			d de		9 . 0		40 e		cc					0							Above Perm. Datum		Rge.	BRYAN		BERNARDINO	1			BRUS. DR	1	2	R	4		
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15/2W-35H3 DO NOT FILL DWR USE DNLY STATE OF CALIFORNIA ORIGINAL 15 10 12 W 13 K 14 10 10 13 STATE WELL NO STATION NO. WELL COMPLETION REPORT File with DWR Refer to Instruction Pamphlet Page 1 of 1 No. 748842 Owner's Well No. \_55 LATITUDE 7-28-01 \_ Ended \_\_ " Work Began \_ 1-22-01 al Permit Agency San Bernardino County Dept. of Public Health APN/TRE/OTHER \_ Permit Date \_\_ 1-18-01 Pennit No. 2001 010028 WELL OWNER GEOLOGIC LOG Nune. X VERTICAL \_\_\_\_ HORIZONTAL ANGLE ORIENTATION (=) DRILLING Reverse Cir. Mailing Address FLUID Polybore 92399 DEPTH FROM SURFACE DESCRIPTION CIT Address to mile South Oak Glen Rd 100 East of Describe material, grain size, color, etc. Top Soil Rock 0 50 City Yucaipa 100 Sand & Gravel 50 -County San Bernardino Sand, Gravel, & Rock 180 100 APN Book 0303 Page 151 Purcel . Sand, Clay, & Granite 200 180 Section 35 Township 15 Range 2W Sand, Gravel, & Granite 200 230 Longitude DEG. WEST Latitude DEG MIN SEC. 250 Sand, Hard MIM SEC. 230 ACTIVITY (=) - LOCATION SKETCH Sand & Gravel 270 250 X NEW WELL 290 Hard Sand 270 Oak Gler MODIFICATION/REPAIR Sand, Gravel, & Rock 380 290 \_\_\_ Despen \_\_\_ Other (Epsetly) Sand & small Gravel 430 380 Sand & Gravel 480 430 DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG") 490 Sand 480 Rard Sand & Gravel 550 490 PLANNED USES (=) Sand & Gravel 630 550 WATER SUPPLY \_ Domestie \_X Public Hard Sand & Gravel 630 700 impation \_\_\_ Industrial 700 770 Sand & Gravel SAST MEST DUBOTINOM 870 Gravel & Rocks 770 TEST WELL Sand & Gravel Granite 870 950 CATHODIC PROTECTION × 950 1000 Sand & Gravel HEAT EXCHANGE DIRECT PUSH 1700 Hard Sand & Gravel 1050 RUSCIEN 1070 Granite & Rocks yeaipa Blvd 50 VAPOR EXTRACTION SPARGING REMEDIATION Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Alters, etc. and attach a map, Vas additional paper if necessary. PLEASE BE ACCURATE & COMPLETE. OTHER (SPECIFY) WATER LEVEL & MELD OF COMPLETED WELL DEPTH TO FIRST WATER \_\_\_\_ 232 (FL) BELOW GURFACE DEPTH OF STATIC \_(FL) & DATE MEASURED \_6-18-01 ESTIMATED VIELD . 1500 (GPM) & TEST TYPE CONSTANT TEST LENGTH 24 (Hrs.) TOTAL DRAWDOWN 144 TOTAL DEPTH OF BORING \_ 1070 (Feet) \* May not be representative of a well's long-term yield. TOTAL DEPTH OF COMPLETED WELL 1050 ANNULAR MATERIAL DEPTH FROM SURFACE CASING (5) PROM SURFACE TYPE HOLE DIA TYPE ( =) SLOT SIZE CE-MENT BEN. BAUGE INTERNAL FILTER PACK DUCTOR. FILL PIPE SCHEEN MATERIAL / TONITE FILL OR WALL DIAMETER GRADE 10 (inches) (2) 12 (Inches) (=) FL. Id Ft. 50 × 0 30 5/16 53 GradeB 50 42 0 6x16 Tacna 1070 5/16 50 CopperBearing 16 26 460 Sand & Grave 5/16 050 .16 FulFlo 1030 26 16 5/16 1050 CopperBearing 1030 26 × Sch 40 A53 GradeB 459 26 CERTIFICATION STATEMENT I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. ATTACHMENTS (=) Geologic Log Bakersfield Well & Pump Co. Well Construction Diagram CA 93308 Geophysical Log(s)

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

PRESENTATIVE

ADD MESS

SollWater Chemical Analysis

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

Other \_

DAY'D IN HEY, 11-07

Bakersfield

8-6-01

DATE STONED :

449537

LET UCERSE NUMBER

5/2W-35 ORIGINAL STATE OF CALIFORNIA File with DWR WELL COMPLETION REPORT Page 1 of 2 Refer to Instruction Pamphlet No. 788723 Owner's Well No. Date Work Began 1-18-01 7-30-02 LATITUDE LONGITUDE . Ended \_ San Bernardino Environmental Health Services Local Permit Agency Permit No. 2001010029 APN TRE OTHER 1-18-01 Permit Date\_ GEOLOGIC LOG -WELL OWNER X VERTICAL \_\_\_\_ HOHIZONTAL CEL MOITATION ( =) ANGLE Name\_ DRILLING
METHOD Reverse Circulation Fluid Poly Bore Mailing Address . DUPTH FROM DESCRIPTION -Yucaipa 92399 CITY Describe material, grain size, volor, etc. ta fi WELL LOCATION sand & gravel 40 1 130 Address 100' South of Oak Glen Rd. 250' West Chapman 140 130 coarse gravel, sand, rock (in Yucaipa 140 160 sand, gravel, & rock County San Bernardino 170 1.60 sand APN Book 0303 Page 131 Parcel 66 180 170 gravel, sand, & rock Township 15 Range 2W Section 35 180 190 sand and small gravel DEG MIN SEC Longitude WEST DEG MIN 190 200 sand, some short cut gravel - ACTIVITY (∠) LOCATION SKETCH 210 200 sand, little clay, & gravel X NEW WELL 210 230 sand with clay and small gravel MODIFICATION REPAIR 230 240 sand and gravel Deepen \_ Other (Specify) 250 240 sand and small gravel 250 260 sand, gravel, and different colors DESTROY (Describe 260 270 sand, gravel, & granite Procedures and Materials Under "GEULOGIC LOG 270 280 sand, gravel, sharp cuttings PLANNED USES (2) 280 290 sand and gravel WATER SUPPLY \_ Domestic \_ 290 300 sand and large gravel Irrigation \_\_\_\_ Industrial 300 310 sand and mediam sharp MONITORING 320 310 sand and gravel TEST WELL X 320 330 sand and gravel (fine sharp) CATHODIC PROTECTION 330 390 HEAT EXCHANGE sand and gravel DIRECT PUSH 390 410 sand and mediam gravel INJECTION 420 410 gravel and rock VAPOR EXTRACTION 420 440 sand and gravel SPARGING 440 450 - SOUTH large gravel and different colors REMEDIATION Illustrate or Describe Distance of Well from Boack, Buildings, Femres fluors of modultach many Use additional paper if necessary PLEASE BE ACCURATE & COMPLETE. OTHER (SPECIFY) 450 470 sand and gravel 470 480 granite and gravel WATER LEVEL & YIELD OF COMPLETED WELL 480 490 sand and hard gravel DEPTH TO FIRST WATER 259 (FL) BELOW SURFACE 490 500 sand, gravel and little clay DEPTH OF STATIC WATER LEVEL 259 520 500 sand and hard gravel \_ (FI) 8 DATE MEASURED \_\_ 2-29-01 540 520 sand and mediam gravel ESTIMATED VIELD . 100 (GPM) & TEST TYPE Air Life 900 \_ Tiet TOTAL DEPTH OF BORING TEST LENGTH 3 (HIS.) TOTAL DRAWDOWN N/A (Ft.) BOTAL DESTIL OF COMPLETED WELL N/A FOR \* May not be representative of a well's long-term yield. CASING (S) ANNULAR MATERIAL DEPTH FROM SURFACE PORE-FROM SURFACE TYPE ( = ) HOLE DIA. TYPE CON-DUCTOR FILL PIPE GAUGE OR WALL THICKNESS SCREEN INTERNAL SLOT SIZE MATERIAL / CF-BEN. DIAMETER FILTER PACK MENT TONITE GRADE FILL (Inches) (Inches) to Ft (TYPE/SIZE) (=) (=) 50 42 0 A53 Grade B 30 5/16 50 n 100 0 17% PVC 5 Sch.40 650 100 650 175 PVC 5 Sch.40 040 650 900 ATTACHMENTS (±) CERTIFICATION STATEMENT I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. Geologic Log Well Construction Diagram

Bakersfield Well & Pump Co.

IF INSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

TO EXISTS

Bakersfield CA. 93308

CHY STATE 7/P

B-10-02 446537

WIT DRILLER/AUTORIZED REPRESENTATIVE DATE SIGNED FOR MINNER

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

. \_\_\_ Geophysical Log(s)
- \_\_ Soil/Water Chemical Analyses

ATTACTL ADDITIONAL INFORMATION, IF IT EXISTS

#### ORICINAL File with DWR

#### STATE OF LABIFORALY

#### WELL COMPLETION REPORT

age 2 of 5	reduct to rancing man trendent.
Dwner's Well No57	No. 78872

Date Work Began 1-18-02 Ended 7-30-02 Local Permit Agency San Bernardino Environmental Health services Perunt No. 2001010029 Permit Date \_\_\_\_1-18-02

STATE WELL	NO STATION NO
11111	
LATITUDE	LONGITUDE
111111	111111

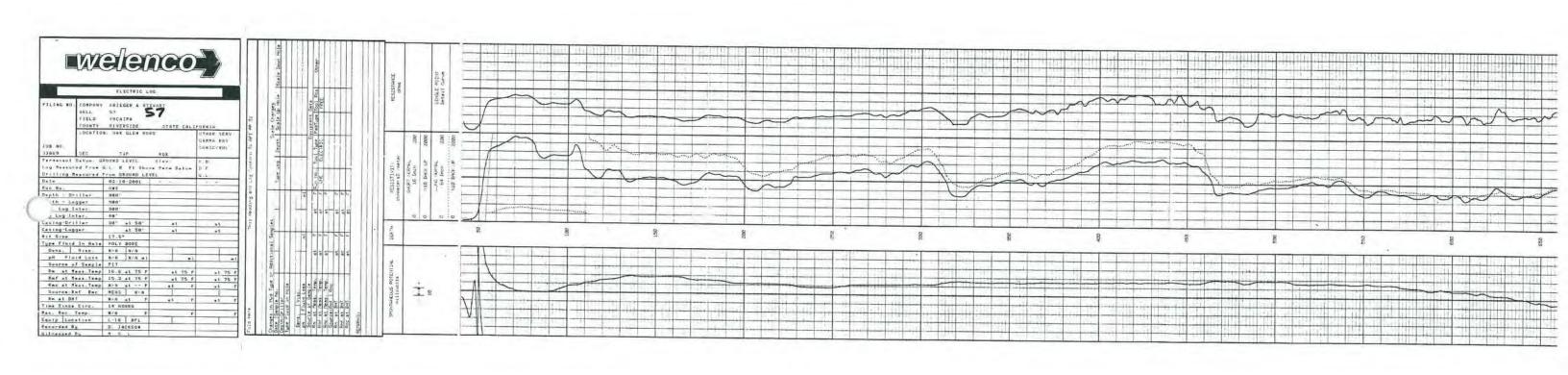
	GEOLOGIC LOG		WE1.1	OWNER -	
ODENTATION ( =	DRILLING Reverse Circulation LUID Poly Bore  DESCRIPTION	Name Mailing Address _	Yucaipa		CA 92399
11 to 11.	Describe material, grain size, color, etc.	CITY			CA. 92399 STATE ZIF
540 550	rock	Address	WELL !	LOCATION —	
550 560	sand, gravel, and little clay	City			
560 570	some white gravel and clay	County			
570 580	white gravel and granite	APN Book			
580 600	brown clay and white gravel	Township			
600 610	sand and fine gravel	Latitude DEG MR	MORTH	Lamoitude	ı west
610 630	granite and brwn clay	DEG MI	SEC	· · · · · · · · · · · · · · · · · · ·	
630 640	clay and mediam gravel	1.00.7	TION SKETCH		ACTIVITY (Z) —
640 650	gravel and little clay				MODIFICATION REPAIR
650 670	gravel and black & green clay	1			Deepen
670 680	gravel and small cuttings				Other (Specify)
680 690	gray clay				DESTROY (Describe
690 700	gravel				Procedures and Materials Under GEOLOGIC LOG
700 710	clay brown green gravel			(	PLANNED USES (2)
710 720	brown clay				WATER SUPPLY
720 730	sand, gravel & sharp cuttings				Daniestic Public Industria
730 740	gravel and sand	WEST		EAST	MONITORING
740 750	sand and gravel & clay	S .		m.	TEST WELL
750 760	granite				CATHODIC PROTECTION
760 770	sand and clay				HEAT EXCHANGE
770 780	sand gravel and smallcuttings				DIRECT PUSH
780 800	granite				VAPOR EXTRACTION
800   840	gravel and sand				SPARGING
840 860	mediam cuttings, sand & gravel	Illustems on Describe Di	- SOUTH	Louds Ruilden	REMEDIATION
860 870	coarse large granite cut.	Teners Bures of and necessary PLUASE BE	attach a may Use ach	ditional paper of	OTHER (SPECIFY)
870 880	granite and some gravel			LICCO LAS	
880 900	granite		LEVEL & YIEL		
		DEPTH TO FIRST WAT	TER (FI.)	BELOW SURFACE	
		DEPTH OF STATIC	(Et ) e Da	TE MEASURED	
1	40				
TOTAL DEPTH OF	F BORING(Feet)				
	The state of the s				_ (Ft)
	F BORING(Feet) FOODPLETED WELL Feet-	DEPTH OF STATIC WATER LEVEL ESTIMATED YIELD * TEST LENGTH * May not by represe	(GPM) (GPM) (Hrs.) TOTAL DRA	& TEST TYPE	

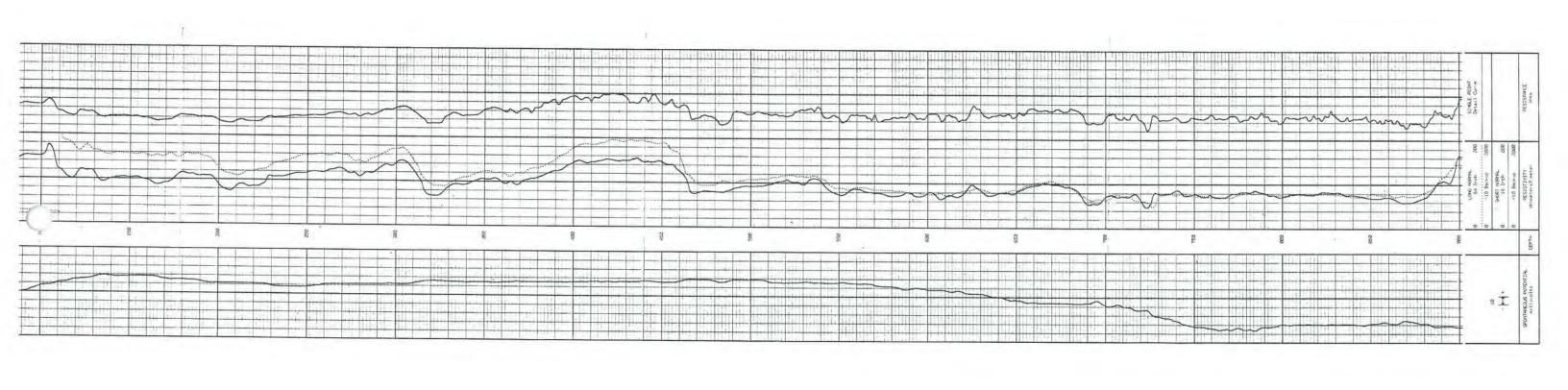
DEPTH	BONE			_			ASING (8)			DEPT		ANNULAR MATERIAL							
FROM SURFACE	BOLLE	1	YPE				1	61.67		FROM	A SUF	RFACE			TYP	JE .			
Ft to Ft	DIA.	BLANK	SCREEN	DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	Fi	to	F1.	CE- MENT (×)	BEN- TONITE	FILL (≤)	FILTER PACE (TYPE/SIZE)			
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4	IMENTS										1								

ATTACHMENTS (2)	I, the undersigned, certify that this report is complete and accur		nowledge and belief.
Well Construction Diagram	NAME Bakersfield Well & Pump Co.  (PERSON FIRM OR CORPORATION) (TYPED OR PRINTED)		
— Geophysical Log(s) — SniMV.iter Chemical Analyses	1212 ruipvale Avg.	Bakersfield	CA. 93308
Other	ADDRESS / / /	CUA	STATE 71P
ALLACH ADDITIONAL INFORMATION IF IT EXISTS	Signed Tell V SAMM_	8-10-02	440537

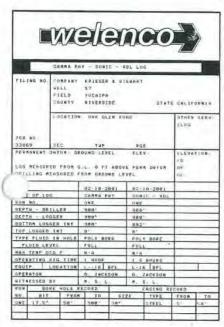
age 1	DWR	Ner57					WELL	Hefer to	Instruction	ON REPO	RT	DWR	11	1.1	1	NOT FILE IN
ocal	rk Bega Permit .	in _825 Agency	5-02 Sa	n_	Ber	naro	. Ended	9-20-02 nmental F	78	8719		L-J-1	UDE			LONGITUDE
Peri	ult No.	2002				ocu	C LOG Pern	iii Date	8-29-02						RATOLAR	M
ORIENTA	TION (=		VEAT				IORIZONTAL		(RPECHY)	Name_		- WELL	LOW	NER ·		
	FACE	METI	100	_	Aba		Well DESCRIPTION	FLUID		Mailing Addre				- 4		
FL.	la FL.			exe i	ribe	mal	erial, grain *	ize, color, e	tr.	Yucaipa			a the a	Winds and		1 92399 TATE ZIP
	650	1	11	_	-		1144		-	Address 100	South	of Oak	LOCA	110N- Rd. 2	50' W	est Chapman
	1	1	men				-14	-		City Yugain						
	-	-			-					APN Book D			Das	- June	66	-
	-	1	-	_	_					Township 15	R	ingo 2W	See	tion	35	
	1	1	_			-			-	Latitude bea,	MIN	NORTH		rgitude		MIN SEC
		-									OCATIO	N SKETCH	-		_	MIN. SEC CTIVITY (2) NEW WELL
TAL DE	PTII OF	BOBING:	55	50		(Fee				Illustrate or Describe Fators, Bircon, etc. a province of the	CAPIA  Ubstart and allock and all	THI THE POWER HOLD WATER & COM. L. & TIELLI) 59 (FL) & DAT  (GPM) &	WIR, Building   PLATE.  OF ( BELOW:  E MEAS TEST 1	inhings, april if	P1/WATE	DRIPPO OTHER ISPACION OTHER (SPECIFY)
			T	***	Jar					May not be repr	cscutative	of a well's lan	ng-lest	y yleld.	_ (F1.)	
DEPT TOM SUF		HOLE DIA. (Indiva)			15		MATERIAL /	INTERNAL	GAUGE	SLOT SIZE	FROM	EPTH SURFACE		ANN	ULAR	MATERIAL.
F1. by	FI,		ELMK	SCP	DLCTOR	15	GRADE	(Inches)	OR WALL THICKNESS	IF ANY	rı.	in Fi.	(E)	TONITE		FILTER PACK (TYPE/SIZE)
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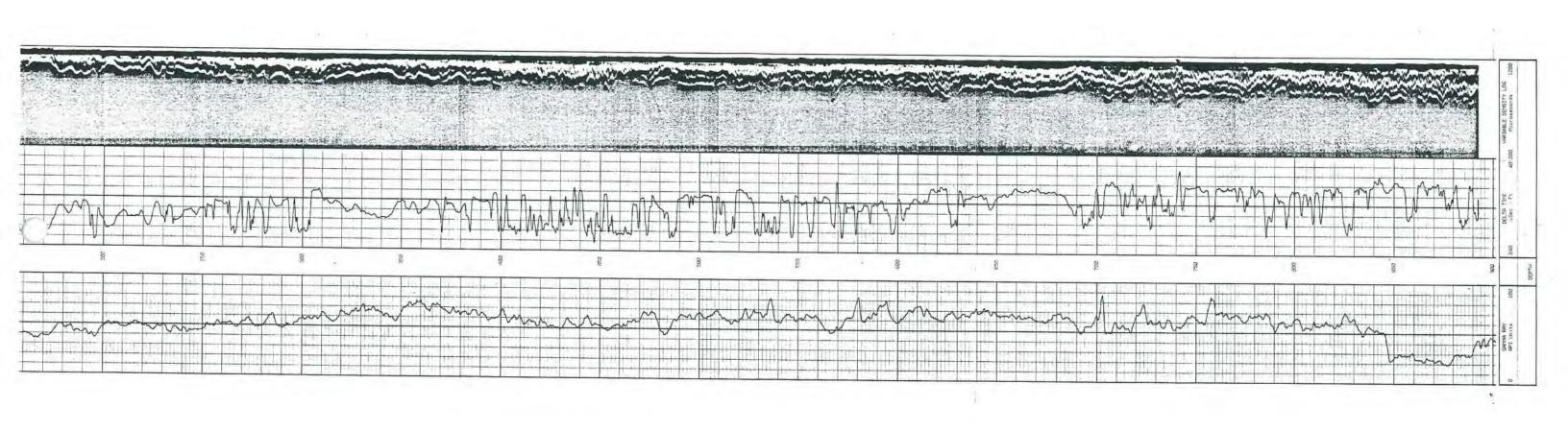




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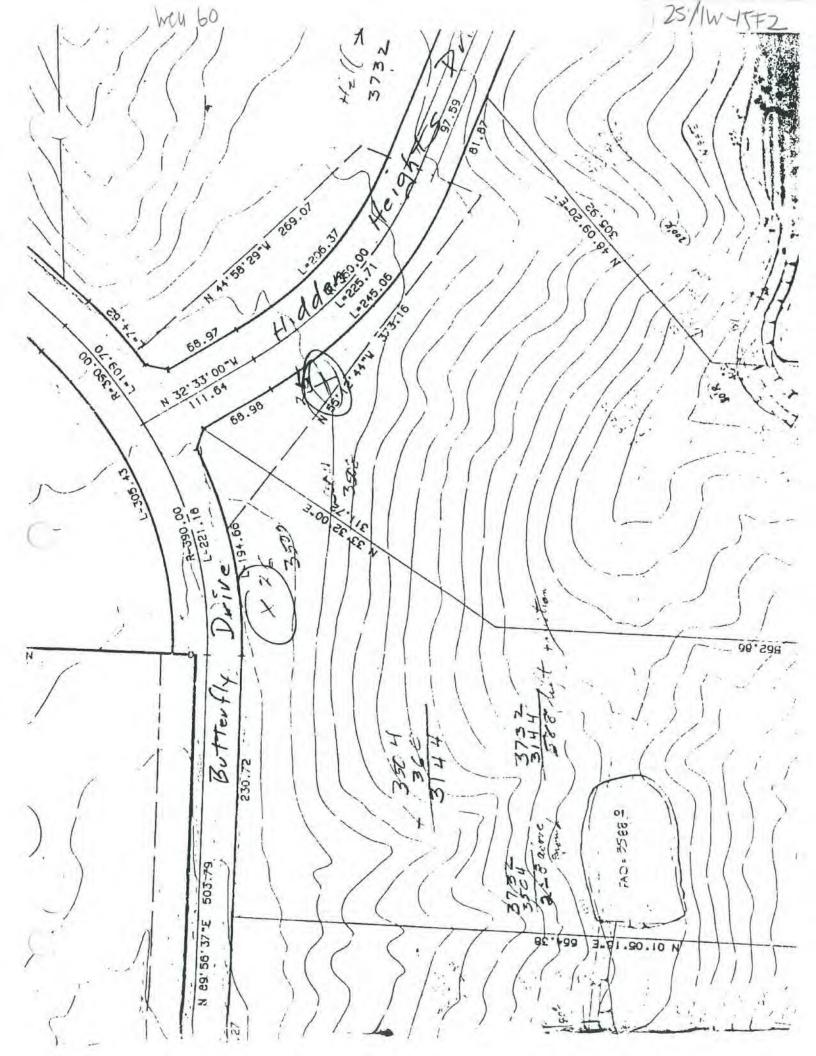
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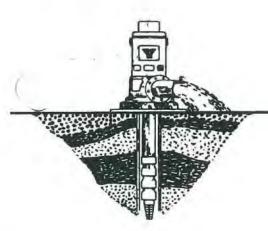
STATE OF CALIFORNIA
THE RESOURCES AGE

THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

Do not fill in

WATER WELL DRILLERS REPORT No. 253147 Notice of Intent No. Local Permit No. or Date \_014773 State Well No. 025-01W-15F0 Other Well No (1) OWNER: Name\_ (12) WELL LOG: Total depth 0 ft. Completed depth 462 ft. Address \_ from ft. 0 to 462 Formation (Describe by color, character, size or material) City ZIP 90004 (2) LOCATION OF WELL (See instructions): 0-20 - FIRM BROWN DIRT W-60 20-251 - FIRM BLUE DG County RIVERSIDE 25-115' - PIRH BROWN DG Owner's Well Number #26 Well address if different from above OFF WILDWOOD CYN. RD. 115-140 BROKEN UP BLUE GRANITE/LITTLE WATER 25 Range IW Section 15F02 140-180 - BROKEN UP BLACK GRANITE/WHITE QUARTZ Distance from cities, roads, railroads, fences, etc. \_ 180-260 BROKEN UP BLUE GRANITE 260-280 BLUE & GREEN GRAWETE/LITTLE WATER 280-340 - HARD BLUE GRANITE 340-360 HARD BLACK GRANLTER (3) TYPE OF WORK: 360-380 BROKEN UP BLUE-GREEN GRANITE/WATER New Well CK Deepening 380-400 - BROKEN UP BLUE & WHITE GRANITE/WATER 400- 420' BROKEN OR BIJUE-GREEN GRANITE/WATER Reconstruction 420-440 PROKEN UP BLUE, GREEN, WHITE GRANITE/WI Reconditioning Horizontal Well 140-462 HARD BLUE GRANITE Destruction (Describe destruction materials and procedures in Item 12) William (4) PROPOSED USA Domestic Irrigation Industrial Test Well Municipal WELL LOCATION SKETCH (Bonythe) (5) EQUIPMENT: Retary [] Reverse JC NOV Cable [] IX Other [] (7) CASING INSTALLED Steel [X Plantic [] From Cage or ft. Wall Size: 0 18 189 .060 399 0120 (9) WELL SEAL: Was surface sanitary seal provided? Yes CK No C If yes, to depth\_ Were strata scaled against pollution? Yes 🗌 No 🍱 Interval. Method of scaling STEEL CASING & CEMENT (10) WATER LEVELS: Work started 11-29 19\_ 88 Completed\_ Depth of first water, if known \_ WELL DRILLER'S STATEMENT: Standing level after well completion . This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belight (11) WELL TESTS: Was well test made? Yes [X No [] Signed If yes, by whom? \_ Type of test Pump 140 DRIVER Depth to water at start of test . Baller [ (Well Driller) Air lift KX SAM CRUM WATER WELL DRILLING Discharge 500 gal/min after NAME At end of test . Water temperature 1803 MARYVALE IN (Typed or printed) hemical analysis made? Yes 🔲 Address . No [ If yes, by whom? . Vas electric log made HEMET, City \_ Yes [] No 1 If yes, attach copy to this report ZIP 92344 License No. \_534298 T WR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM Date of this report \_\_\_ 12-13-88





## Deep Well Turbine Specialists

January 16, 1989

Los Angeles, Ca. 90004

SUBJECT: Well test information:

Dear Mr.

Please find enclosed test reports on Wells # 25, and # 26, tested on January 12th., and 13th., 1989.

Well # 25 - I would suggest a pump setting of 300 feet at 150 GPM. Pressure above ground would determine the horse-power of the pump.

Well # 26 - I would suggest a pump setting of 300 feet at 550 GPM maximum in order to stay away from the air being produced from cascading water. I believe the well is capable of producing 800 GPM on a daily basis, 24 hours a day. Pressure above ground would determine the horse-power of the pump.

If you have any questions, please feel free to call me.

Robert W. Miller

RWM/gf



\_ce of Intent No. .

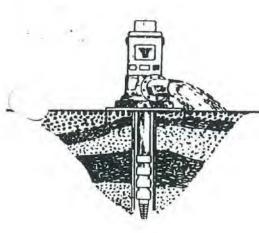
#### STATE OF CALIFORNIA THE RESOURCES AGENCY

#### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do not fill in

P6 78155

Local Permit No or Date 014770		Other Well No.
(1) OWNER: Name		(12) WELL LOG: Total depth 480 ft. Completed depth 410 ft.
Address		
City LOS ANGELES, CA	, 7H 90004	from ft. 0 to 480 Formation (Describe by color, character, size or material)
	/	0-40' - SOFT BROWN DG
(2) LOCATION OF WELL (See instri		40-120 FIRM BROWN DG
	er's Well Number #25	120-180' FIRM BLUE DG
Well address it different from above OFF W	ILDWOOD CYR RD	180-240' HARD BLUE DG
Township 2S Bange 1W		
Distance from cities, roads, railroads, fences, etc.		260-320' BROKEN-UP ROUE & GREEN DG/WATE
		320-340' BLUE & DROWN DG MIX
		340-380' BROKEN UP BLUE DG/BHITE OUARTZ
		- & MORE WATER
	(3) TYPE OF WORK:	380-486' BROKEN-UF BLUE & GREEN DG WITH
	New Well & Deepening	- LOFS OF WATER
,	Reconstruction	-/-
\ \S	Reconditioning	<u> </u>
17	Horizontal Well	- \ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Destruction (Describe destruction materials and pro-	1 10
S	cedures in Item 12)	13 1110
1 5	(4) PROPOSED USE	
	Domestie	
	Irrigation	- HO OF H
1	Industrial (	(\$\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{
1	Test Well	100-1
,	Municipal E)	4/1/2 (6,2)
	Other 1	DO (8/1)*
WELL LOCATION SKEIGH	(Mongille) COMMERCIAL	(6/2)
(5) EQUIPMENT	AVNUSACK:	N
K.Z.	X NOT STORY	
(1/1)	Not bure 120	
I Man	from 50 462 (A)	
	(	
(7) CASING INSTALLED (8) PEI	POUNTIONS C	
Strel DOX Plastic   1 Kontrolo   1 True of	Surfaction or size of Solary	
From To Dia Gage or Dia	1018	-
II II Wall K	C(C) \size	-
0 480 85/8 180 11	9 .060	
39	99 482 .0120	
	120	*
(9) WELL SEAL:	The second section is	
Was surface sanitary seal provided? Yes X No	the state of the s	
Were strata scaled against pollution? Yes [] No [		
Methodol scaling STEEL, CASING & CI	EMENT	Work started 12-8 19 88 Completed 12-14 19 88
(10) WATER LEVELS:		WELL DRILLER'S STATEMENT:
Depth of first water, if known 260	143	This well was drilled under my jurisdiction and this report is true to the
Standing level after well-completion	1431	best of my knowledge and belief
(11) WELL TESTS:		Signed
	by whom? DRILLER	(Well Deller)
h in water at start of test _ 143h	At end of test It	NAME SAM CRUM WATER WELL DELLLING
Tu harge 475 gal/min after 2 hours	Water temperature	Address 1803 MARYVALE PANT (Typed or printed)
V	by whom?	Caty HEMET, CA. 20 92344
10 10 10 10 10 10 10 10 10 10 10 10 10 1	attach copy to this report	License No 534298 Date of this report
DWR IAR (REV. 12 Be) IF ADDITION	IAL SPACE IS NEEDED, USE	NEXT CONSECUTIVELY NUMBERED FORM



# Deep Well Turbine Specialists

January 16, 1989

Los Angeles, Ca. 90004

SUBJECT: Well test information:

Dear Mr. Dickinson;

Please find enclosed test reports on Wells # 25, and # 26, tested on January 12th., and 13th., 1989.

Well # 25 - I would suggest a pump setting of 300 feet at 150 GPM. Pressure above ground would determine the horse-power of the pump.

Well # 26 - I would suggest a pump setting of 300 feet at 550 GPM maximum in order to stay away from the air being produced from cascading water. I believe the well is capable of producing 800 GPM on a daily basis, 24 hours a day. Pressure above ground would determine the horse-power of the pump.

If you have any questions, please feel free to call me.

Robert W. Miller

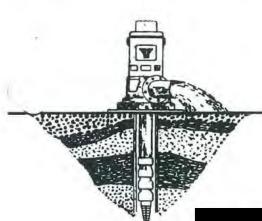
RWM/gf



# Deep Well Turbine Specialists

### FIELD TEST REPORT

Owner:			Well No		
	Goulds	Ser. No Ser. No RPM _3500	We	II Dia. 8"	Depth 462
		Ser. No	-	Frame	
	25	RPM 3500	Volts _400	Amps	Cycle
		Meter No.	Kh	C.T. Rati	0
Engine Mfr.	Generator				
EST DATE	ES:	1/12/89			
Pressure	Airline, Static	109	104		
Readings	Airline, Pumping				
n Lbs.	Discharge Head				
Airline Length	- Feet	395	395		
Airline Static	Pressure - Feet				
	TATIC WATER LEVEL	144	155		
Airline Length	ı – Feet				
Airline Pumpl	ng Pressure - Feet				
	PUMPING LEVEL	201	252		
Discharge He	ad - Feet				
	TOTAL HEAD-Feet	Ø	ø		
	Pumping Level - Feet	201	252		
	Static Level - Feet	144	155		
	DRAWDOWN	57	9.7		
Flow	Pitot				
Reading	Orifice				
	Other				
CAPACITY	GPM	185 .	155		
	Miners Inches				
GPM Per Foo		3.24	1.70		
METER DATA	A: Revs/Sec				
KW Input					
HP Input					
BHP Input to	Pump € % Motor	eff.		-	
PUMP RPM					
LOAD Volts					
LOAD Amps					
Water Horsepo					
Pump Efficier					
Overall Effic					
KWH per Acre	e Foot				
Pump Setti	-	395 ft.	395 ft.		
Column Siz	e: 3"			Discharge dia, 4	" meter



# Deep Well Turbine Specialists

Well # 25

1/12/89

SWL - standing	water level	144 ft.
9:30 A:M	100 GPM	109 PSI 144 ft. p/L
10:30 A:M	200 GPM	108 PSI 145 ft.
11:30 A:M	220 GPM	106 PSI 149 ft.
12:30 P:M	220 GPM	106 PSI 149 ft.
1:30 P:M	220 GPM	104 PSI 155 ft.
2:30 P:M	200 GPM	94 PSI 179 ft.
3:30 P:M	190 GPM	88 PSI 192 ft.
4:30 P:M	185 GPM	84 PSI 201 ft.

# 1/13/89

SWL - standing	water level	155 ft.
8:30 A:M	220 GPM	104 PSI 155 ft. p/L
9:30 A:M	185 GPM	84 PSI 201 ft.
10:30 A:M	177 GPM	76 PSI 219 ft.
11:30 A:M	170 GPM	72 PSI 229 ft.
12:30 P:M	165 GPM	70 PSI 233 ft.
1:30 P:M	165 GPM	66 PSI 243 ft.
2:30 P:M	165 GPM	62 PSI 252 ft.
4:00 P:M	165 GPM	62 PSI 252 ft.

tice of latent No. Well #6

### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

	_		4	-	- 1
No.	$\mathbf{c}$	~ /	L A	~	A .
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TWO L. Z.	u	1.0	P 449		
	-				•

1.5	144	12	0	2 13	23/19
State Well N	0.	- 10			4.00
Other Well ?	No.	3.			. 3
4			4	+.	
and the same	-			U/1 00	

al Permit No, or Date UGU 1702	Other Well No.
OWNER: Name	(12) WELL LOC: 360 360
The segment of angels, or less	(12) WELL LOG: Total depth 360 t Depth of completed well 360 ft.
Los Angeles, Ca. 90057	from ft. to 'ft. Formation (Describe by color, character, size or material)
	145 - 168 White Quartz, & black rock
(2) ISCABOTABLE (See instructions): County Owner's Well Number Well address if different from above Township To	168 _ 200 DG
Owner's Well Number	200 - 210 Fractured granite & DG
well address it different from above	210 - 230 DG
Distance from cities, roads, railroads, fences, etc.	230 - 258 (Fractured granite & DG
Distance from cities, roads, railroads, fences, etc	
The state of the s	258 - 265 Extract DG 265 - 280 a Suffer-lots of white-clay
A CONTROL OF THE RESIDENCE OF THE SECOND STATES OF	
Parties and the first of the second of the s	280 - 360 Granite & DG
(3) TIPE OF WORK:	360 STOP
New Well D Deepening D	And the second s
Reconstruction	-//
Reconditioning	- Method of Destruction-
Horizontal Well	1 - 1 C D - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Destruction (Describe	tole filled in with earth & natural
destruction materials and procedures in Item 187	cuttings, as per County requirements.
(4) PROPOSED USE	The state of the s
Domestic Domestic	
Irrigation	11-11-1000
Industrial	(Q) (A) (A) (A)
Tol Well &	(1/0)
Land Andrews Control of the Control	All Co
Stock 1	10 - 110
Municipal A STATE OF	Service Control of the Control of th
WELL LOCATION SKETCH Other Other	
(5) EQUIPMENT:	
Rotary   Reverse   No   Size	
Cable SO 15 Sept. Air	Oll)
Other D Bucket D - Rucked from to	
(7) CASING INSTALLED (8) PERFORATIONS:	( )
Steel   Plustic   Concrete   Type of perforation or size of screen	
From To Dia Cige of From To Sich	The Configuration of the Confi
ft. ft in. Wall ft size	- negr
220	- 1 2 2 2
1 1111	- 100
(9) WELL SEAL	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Was surface sanitary seal provided? Yes □ . No □ If yes, to depth ft.  Were strata, sealed against pollution? Yes □ . No ☑ Interval ft.	
Method of sealing	8-13 79 8-14 707
(10) WATER LEVELS:	Total State of the Completed 19 3.
(10) WATER LEVELS: Depth of first water, if known ft.	WELL DRILLER'S STATEMENT:
Standing level after well completion ft.	This well was drilled under my furiediction and this report is true to the best of my
(11) WELL TESTS SEEDER TO SEE	SIEVED JOSEPH W. Grammer
Was well test made? Yes   No M If yes, by whom?  Type of test Pump   Bailer   Air lift    Depth to water at start of test   ft At end of test   ft	Jack Jones Wells & Pumps
Air life	IVANIE.
5-6	P.O. (BOX 5203 oproporation) (Typed or printed)
The state of the s	Hemet. Ca. 92343
Chemical analysis made? Yes . No A If yes, by whom?	281601 9-19-79
"as electric log made? Yes O No If yes, attach copy to this report	License No Date of this report

ne of Intent No.

Well 5 V

Do not fill in

(10)	DEPARTMENT OF WATER RESOURCES (NO. U68631	
	WATER WELL DRILLERS REPORT State Well No.	
	Other Well No.	

eal Pennit No. or Date						
OWNER: Name_			(12) V	VELI	L LOG:	Total depth 200 ft. Depth of completed well 11.
1			from It.	ter		tion (Describe by color, character, size or material)
Los Angeles	CA.	7lp9005	0	~	50	Sealed Off
y	05.7+0/4.9/7		50	-	95	Fractured Granite & DG
LOCATION OF WELL	(See instruc	tions):	95	-		Hard Granite
intro-	Oak Glen	Piggah Peak Truc	Tr.	-		
Il address if different from above		The section	98	-		Broken Up
neliipRange_		Section	99	-	Hard	W.
ance from cities, mads, railmads, fer	nces, etc.		105	-	Broke	en Cranite
			115	-	148	Sait Broken (First Water)
			120	-	- //	15 GPM Hard White Rock
		Tes Type of Work	1	1	123	Broken Up
		(3) TYPE OF WORK		1		Gray Rock
		New Well Deepening			Hard	Black/Rock
		100000000000000000000000000000000000000	125	-	Maro	ten(Dp (More Water)
		1 122 122 122 122 122 122 122 122 122 1	127			Marie
	7.2	Section of the Party of the Par	3 38		Hard	ex Black (Browen up)
	/	Destruction [ (Describe destruction materials poliprocedures in Item 12)	135			
/ .	12.		138			(Brown) Fich
-11	120	(4) PROPOSED USFA	140		1200	SPM (V)
T	17,	Domestic	155	· -	Gre	DG & Questz (Firm to Soft)
1 6	e	Irrigation	160	1/	80 0	GPM ( S)
1 3	-	1111	163	7/2	Ligi	ht Gray Rock Almost Quartz (Firm
lat.			1110	(V)-	6	50 Ft.)
10 h		11	6 18	) -	60	ĞPN ♥
10		11	TR		TAL	rly Hard
	12	Municipal	200	ST	(N)	7
WELL LOCATION SK	ETCH	Other ()	0 20	1	0	
5) EQUIPMENT:	(B) GRAV	WALLY WILL	1	1/3		
ntary 🗆 Neverse 🖸	V640	No D Size	- 5	117	2	
able [] Air	Mushister of	hore	(1)	M.		
ther [] Bucket [	Jacker Burn	11 - S - 11 - 11 - 11 - 11 - 11 - 11 -	10	) -		
7) CASING INSTALLED:	(B) PERF	ORATIONS:	MD			
teel D Plastic  Concrete	Type of pe	rather or stee of severe	19		-	
1 - 1 - 1	7	To Slot	0		-	
from To Dia. Gage		It. (SIXI)			-	
0 200 6 .12		200 .18	8	- 0	-	
		01/11/2			-	
		0/11/1			+	
WALLE DE LE		Mar			-	
(9) WELL SEAL:	Yes M No.	☐ If yes, to depth	_ft,		#	
Was surface sanitary seat provided?	37	No XX Interval	ft.		-	200 700 700
Were strata sealed against pollu	ncrete &	Steel	Work	starte	ed KRRS	10-3-79 Completed 10-8 19 79
trictin di mi minimi	AMA TRU		33/17	II D	OH LER'	S STATEMENT:
(10) WATER LEVELS:	115		ft. This	mall a	car drilla	under my jurisdiction and this report is true to the best of
Depth of first water, if known_	210	1	_ft. knot	cledge	and belief	Jack Jones Wells & Pumps
Standing level after well completion			Sign	NED_	11	1//
(11) WELL TESTS: Was well test made? Yes	No D If	s, by whom?			11/2.	al wellongy in
Type of test Pump	Baile	r 🗆 Air lift 📆	NA	ME_	May	Arean firm of corneration) (Typod or printed)
Depth to water at start of test_	tt.	At end of test	ft	lunar	P. 0.	Box 2 2031
Discharge 120 gal/min after.	hours	Water temperature		ress		Hemet Zip Ca. 9234
Chemical analysis made? Yes	-	es, by whom?	City	-	281	10-20-80
Was electric log made? Yes D		es, attach copy to this report	Lice	ense Ne		Date of this report 10-20-00
THE PROPERTY OF THE PARTY OF TH	The second secon					THE RESERVE OF THE PARTY OF THE

# Well 5 Vert

Participal Cyner's Copy

STATE OF CALIFORNIA

THE RESOURT I'S AGENCY

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

No. 074477

State Well No. -

of Intert No. Well #7:

Total depth 18Q, Depth of completed well 180 m. attom (Describe by color, character, size or material)  Broken rock & clay  Broken rock & some clay  Fractured rock (60-120 GPM)  Hard rock  STOF
Broken rock & clay  Broken rock & clay  Broken rock & some clay  Fractured rock (60-120 GPM)  Hard rock  STOF
Broken rock & some clay Fractured rock (60-120 GPM) Hard rock STOF
Fractured rock (60-120 GPM)  Hard rock  STOF  STOF  Sethod of Destruction-
Hard rock STOF
ethod of Destruction-
ethod of Destruction-
d in with earth & Natural
d in with earth & Natural
d in with earth & Natural
d in with earth & Natural as per County requirements.
d in with earth & Natural as per County requirements.
as per County requirements.
1 (7.1
1 11
3 (3)
1 31
1
Production of the second secon
THE STATE OF THE S
15 770
15 <sub>11</sub> -79————8–16—79
TATEMENT:
s my presidential and this report is true to the heat of my
(Well Driller)
es Vells & Pumps
en Wells & Pumps
hepyyz spriperation) (Typed or mated)
es Vells & Pumps *2031 (member) (Pred or punted)
*

#### THE RESOURCES AGENCY

### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

NI	-17	07	7 A	A-	7 E
INC		U	-4	4	1.0
16	100	The Control			0.4

	Cother Well No.
(1) OWNER: Name	(12) WELL LOG: Total death 240 Death of completed will 240
· · · · · · · · · · · · · · · · · · ·	. Deput of completed well Tr.
Colos Angeles, Ca. 90057	from ft. to ft. Formation (Describe by color, character, size or material)
The state of the s	18 - 29 Red Clay
(2) LOCATION OF WELL (See instructions):	79 III 1:120 III & henrole - rock
County San Dernardino Owner's Well Number	
Well address if different from above  Township  2S  Range  1W  Section  2	70 - 115 Soft brittle rock
Township C 25 Range Section 2	115 - 140 Darker-Broken rock
Distance from cities, roads, railroads, fences, etc.	140 - 145 Fractured black rock
中央各种的一个人的一种人的一种人的一种人的一种种种的	145 - 154 BIOR ROCK
資本を受力に行うには行う。大きたかのいるを記る主義を	154 Large fractured area
これは大変の大きっています。 これは、これには、それに、これには、これには、これには、	185 - 200 Soft black rock
(3) TYPE OF WORK.	200 A 210 Fractured rock
New Well Deepening	210 V 218 Black rock
Reconstruction	218 - 220 White Quartz
Reconditioning	220 - 230 Soft Rock
Horizontal Well	230\ - 231 White Quartz
Destruction (Describe	231 - 240 Granite & Gractured rock
destruction materials and	240 SPOP
procedures in Item 12	240 - 6 220
(4) PROPOSED DSE	7/10
Domestic	
Irrigation	Method of Destruction-
Industrial	102-
Tex Well . V . Of	Hole filled in with earth & natural
Stock	cuttings, as per County requirements.
Municipal Municipal	-6/10
WELL LOCATION SKETCH Other	The second second second
QUIPMENT: (8) CRAVEL PACK: (C)	
Rotary Reverse Reverse No No Sizes	A LANGE TO THE PARTY OF THE PAR
Cable Air X Distreter of bore	
Other Bucket Pucked from to	
(7) CASING INSTALLED: (8) PERFORATIONS:	
Steel De Plastic Concrete Type of periodation or size of screen	
From To Dia. Gage-or From To Slow	- /- /
ft st ft vin. Wall ft ft. size	- / /
	- / /
	- / /
dillo	- / /
(9) WELL SEAL:	- 0
Was surface sanitary seal provided? Yes : No Z If yes, to depth ft.	
Were strata sealed against pollution? Yes O No Interval ft.	0 10 70
Method of sealing	Work started 8-10 19 Completed 8-10 19 19
(10) WATER LEVELS:	WELL DRILLER'S STATEMENT:
Depth of first water, if knownft.	This well was drilled under my jurisdiction and this report is true to the best of mu-
Standing level after well completion ft.	And by Ul 6 DA
(11) WELL TESTS:	SICKED STATES
Was well test made? Yes No If yes, by whom?  Type of test Air lift Air lift Air lift Air lift Air lift Air lift	NAME Jack Jones Wells & Pumps
Depth to water at about of test ft At end of test ft	P.O. (Person, fundor corporation) (Typed or printed)
Discharge gal min after hours Water temperature	Address
Chemical analysis made? Yes . No . If yes, by whom?	City Hemet, Ca.
Was electric log made? Yes O No II If yes, attach copy to this report	License No. 281601 Date of this report 9-19-79

## STATES WELL 3

### WATER WELL DRILLERS REPORT

De Not Fall In

NOW YOUD 66

THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

Nº 48782

(I) OWNER:							(11) WELL LOG:
Name							Total depth 4.50 ft. Depth of completed well 550 ft.
Address							Formation: Describe by color, character, the of material, and structure
			AN	ANEIM	(0.	92803	
(2) LO	CATIO	N OF		- and		1	0-30 - OVETAURDEN
				Owser's number.	1 10r 7		30-156 FL . MEO. PK
				PUW.			156-157FT - CLAY
			A	cax. /2			157917951 - CHEO. RK.
				exace of		-	190-196 FT ALT. MED. & MARO RA.
						8 044 640	196-256 FT - MED. RA.
New Well				ditioning [	Destroy		256- 309 EFT - ALT, MED & NARD RK.
		100		ore in Item 11.			307'S.FT NOFT - CLAY
			(check)		-	IPMENT:	3/Q - 375 ET - ALT MED. SHAROKK
			☐ Munic		Rotary	[4]	325- 376 FT 56AY
Irrigation				ther 🗌	Cable		
					Other	H	376 - 497 FT. AY. MED. & HARAKK.
10 04	EINIC I	NETAL	I EY		Other		497-550FT - HARD KK.
(6) CA		INSTAL	LED:	-14		4.4	
	EEL: <		HER:		gravel pur	-CHI	EN 12'ATER PICKUPS (INITIAL FROMS)
BINGTE [	5 pon	Bra -		1			FROM - TO FLOW
	1	1	Gige	Diameter	1	T .	O - 180 FT - 1 GPM (SEALED OFE)
From	To		or	of	From	To	180-196 FL - 2 GAM
ft.	ft.	Diam.	Wall	Bore	ft.	ft.	196-310FT- 1 GPM
0	180	2"3	2. 570.	2:6"	0	180	310 - 315 KL 2 GPM
		ZALK.	PIRE	2"	150	506	315 - 430KG - 45PM
				1 t	506	5.50	430 - 460KI. 10 5PM
Size of shae o	or well rong:			Size of provet			480-512FC - 8 3PM
Describe poin	1 40	uel	En				512-550 FT - 17 GAM
			OR SCI				VETAL INVITIAL FLOW - 44 GPM
Type of perio	-	me of screen	12	10.5	TO. GA	AV PIPE	
			Perf.	Rows	-		NOTE: WHEN CAPPED, WELL WILL STOP
From		To	per	per	1 3	Size	WATER CHOERGROUND UNTIL THE PRESSO
ft.		ft.	row	ft.		x in.	AT GOLLAR LEVEL REACHES 14(4) PSI.
300	35	4.4	~	13	1/4"0	NAILLEO VALLE	
	1		Conce	TONE	2//	're 878'	* DURING DRILLING OPERATIONS AND
							SETER COMPLETION WELL WAS ACCOURD
		-					TO FACY UN-RESTRICTED FOR PSRIEDS OF
					1		
(8) CO	NETRI	CTION		-	-		WE TO YBURE & FLOW NEVER DROPPED
			71.00		-territoria		BELOW ZB JEM WARN CAPED, WALL
			Yn G- N		what depth		TEREN BACK TO MAXINUM PRESSURE
W 600 DAY 11.71			on? Yes 3			depth of strain	CUER . NIGHT.
-44	D. CO. LEGISLA			270	180	<u> </u>	
Press.	- fr	10	10.				Tork started 2 2 Completed 3 29 11 33
Method of av	hag						WILL DRILLER'S STATEMENT:
(9) WA	TER I	EVELS	: 500	E.NOT	6	- 16 14	This well was drilled under my jurisdiction and this report is true to the book of my knowledge and belief.
Depth at wh	ich water w	se frat four	d. if knows		10		, , , , , , , , , , , , , , , , , , , ,
Deeding lon	el before pe	efereting, .	. kaywa		ft		NAME FIGHSON DRILLING
femding leve	el after part	erating ar:	dredoping		- 11		(Person, firm, ar corporation) (Typed or printed)
(10) W	ELL T	ESTS:	566	NOTE		- *	Addrey 2300 3 OAK LA (PC: BOY 1028)
Vagar.	ot made? Y	. 2 N	· D I	f yes, by whom?	PICASO	LLINA	CRESTLINE, CALIF. 92325
Tide C		ol./min. wit		fs. drawdows	n efter	hrs.	[SIGNED] Years & Malan
Temperature .		-		al saslyns madel		No 🗗	(Vell Dollar)
Contract of the Contract of th							207101 8/2-
and the same of	10 1000	WINT TH	No CS	16 700, 21	iach copy		License No. 20769/ Dated 3, 30 , 1924

# WELL # 3

### WATER WELL DRILLERS REPORT (Sections 7079, 7000, 7001, 7002, Water Code)

### THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

De Net FM In

Nº 48782

	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
State Well No_	
Other Well No.	

-	_						
(I) OWNER:							(II) WELL LOGI
Name							Total depth 450 ft. Dopeh of completed well 550 ft.
Address							Farmation Deutsibe by color, character, step of material, and structure
		- **	A 41	AVEIR	. Ca.	97807	17. 70 ET 11.10 ft.
(2) LOC	CATIO	N OF W		144.11	- balla		0-30 · OVERBURDEN
		36 70		Owner's namb	er, il say . 7		30-15661 . 1750 . 181.
The Control of the					566.	,	156-157FT - CGAY
			_		\$ 175.11		157917957 MAD RK.
					arenses		
(1) TVE	PF OF	WORK	1check	1.4000	ood Cra	TOTAL OLLOW	- 90-196 FT ALT. IYED. & WARD RA.
New Well &		epening [		ditioning [			26-456 ET - MED. AK.
3 / 2 / 2 / 2	_	be material a				16 LJ	256-309 ET AGT. MED. & NARARK.
-				-		****	309 1 FT- 310 FT - 1-6A)
		D USE (		4	The state of the s	IPMENT:	310-375 EL - ALT MED. S'HAROKK.
	7 5 Table 18 5 Aug	lustrial [			Rotary	13	325 - 126 FT - GLAY
irrigation	[] 16	at Well	0	ther 🔲	Cable		376 427 FT. AUT. MED. J. HARD RK.
					Other		YYY- 550FT - HARD KK.
(6) CAS	SING I	NSTALL	ED:				
STE	EL C	OTHE	R:	=	f gravel par	test .	PAINTER PICKUPS ( NITIAL FACES)
SINGLE (	g pou	DLE D -					Cron To From
				100			O - IEC FT - LUPPY SEALED OFF
From	To		Gage	Diameter	From	To	185-195 EL - LGCM
ft.	ft.	Dum.	Wall	Bore	fe.	ft.	186-310KL- 1 GAM
0	180	2"50	500.	276	~ 5	180	210 - 315 KL - 2 5 PM
		EMAY.	2106	2"	150	506	315 - 43051 - 441114
		ZAAF.	220	11	506	550	430 - 48081 10 3001
Size of show or				Size of gen		1-2-2-	
			ALC: N	T. Size III Ere	***		
		TIONS O		PERM.			3/2-550F1-17 GPM
	the second second second	ac control of a control			sto cia	أدع والمال	GOTAL IVITIAL FLOR' - S'YGPM
Tipe of parisi	T	Tal at action	3 4	1	stores.	AV FIRE	// - C = 1./
			Perf.	Rows			SOTE: WHEN CAPPED, WELL WILL STORE
From ft.		To fr	per per	fi		Size . n in.	MATER CHOERGROUND UNITE THE BESSIN
	-			-		RILLED	ALSOSEAR LEVEL PEACHES LEST CSL
300	- 22	4.4	>	1.3	14	Auces	,
-		-4	A SCALL	TION S	Soon Sil	re 378	+ QUAING DRILLING GRERATIONS AND
-				-			SETER COMMERCION, WELL KAS ALLOWED
				-			TO FACY UN-RESTRICTED FOR FS. F. COS OF
				1			UP TO YBURS & FLOW NEVER DROPPED
(I) CON	NSTRU	CTION:					SCHOW 28 GPM WINEN CAPPED WELL
Was a surface		al provided?	1 0 C4 1	Vo D	To what depth	160 1	STORED BACK TO MAXINUM PRESSURE
Wore say strat	ta sealed ag	seast pollation	Y [4	No []	16 yes, note	depth of treats	OVER . NIGHT
ALL	576	PAZA	- 11 6	270	1501	e, r	
Pro	- 11	to	11				Work merted 2 25 1572 , Completed 3 29 19 37
Marked of mel	ling						WILL DRILLER'S STATEMENT
		EVELS:	500	e . vo		- 14 M	This well was drilled under my jurisdiction and this report is true to the best
		as best found,			le.	15.1	of my knowledge and belief.
		references, of			fi.		NAME PIERSON DRILLING
		fereting and d			li .		(Prison, firm, or corporation) (Typed or printed)
-		ESTS: -		400 5		- 14	Addrey 2300 3 OAK (N. PE. AOK 1028)
-					MISTOR.	24	
-		res ED No	1	I yes, by when		rece.a	THE STRING, CALIF. 92325
Yide &		d./mis. with		In drawd		hrs.	[SIGNED]
-		60				No 🗗	
The electric le	og made of	well? Yes []	Nu [3	1f yet.	strach copy		License No. 20769/ Dated 5 30 1923

NOW YUWD TRIPLICATE Owner's Copy WELL # 68

STATE OF . ALIFORNIA

Do not fill in

THE RESOURCES AGENCY 7 111 6 - 1982

Do not fill 20. 069416

stice of Intent No. 193717 mit Ve or Date 05068201 WATER WELL DRILLERS R

Carrier Control of the Control of th	The state of the s
OWNER: Name	(12) WELL LOG: Total expen 100 it. Depth of completed well in
Vidress_	from ft. to ft Formation (Describe by volor, character, size or material)
tos Angeles zip 90057	0 - 10 - rky overburden
	10 - 30 - decomposed granite
(2) LOCATION OF WELL (See instructions): 10	30 - 201 - med. hard rk
Well address of different from above In S.W. of N.W.	201 - 203 - clay
2S _ 1W 2	203 - 282 - alt. med. & hard rk
Approx. 1% al. 8.	282 _ 283 - clay
intersection of Oak Glen rd. & Wildwood Cyn.	283 - 344 - 61t. med. & hard rk
rd.	344 354 - unstable failt material
	354 380 -fract. med. rk
To the training of their	
Farmer Marie (3) TYPE OF WOR	
New Well & Deepening	Water Pick-ups (Initial Flows)
I licenstruction	8
Reconditioning	Trom - To Flow
14 mirontal Well	1 283 - 12 gpm (sealed off)
Destruction   (Describe	283 > - 344 \- 4 gpm /
destruction materials and procedures in Item 12)	344 - 350 - 55 gpm :
(4) PROPOSED USI	350 380 - 8 gpm
Domestic 1	¥ → 380 - 400 - 0
Irrigation (	Total initial flow - 67 gpm
Industrial	0 0000
Test Well	Note: When capped, well will store water under-
Stock	The state of the s
- /	wasahas 284 mgl
Munipidy	~ (C)
WELL LOCATION SKETCH (ther	
(5) EQUIPMENT: (6) GRAVES FACE:	** After completion, well was allowed to flow
Heverse D. Yes D. No. D. 23 Bear O to	unresticted for 72 hrs. During this time, flow
Cable   Air   Dameter of bore 22 - 28h to	dropped to 64 gpm. where it appeared to be
ther [] Bucket [; Parked fromtotototo	holding steady.
(7) CASING INSTALLED: (8) PARTIES AND STALLED PIPE	117.
steel B Plastic Conclused To Type of perforation or size of screen of	
From to Dia. Gage or From 9 To Slot	> -
ft. in Wall also 100 and	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
28h drilled boles	
11/1/11	
(9) WELL SEAL:	
Mas surface sonitary seal provided? Yes (17 No (1 II yes, to depth. 384)	M
Were strata scaled against pollution, Ves [] No [ Interval	h
Method of scaling Grout under pressure	Work started 5/10 19 82 Completed 5/21 19 82
(10) WATER LEVELS: See note *	WELL DRILLER'S STATEMENT:
Depth of first water, if known	It. This well was drilled under my periodiction and this report is true to the best of my
Standing level after well completion	11. knowledge and belief
(11) WELL TESTS: See hote Was well test myles. Yes X No D II see, he whom Pierson Dr.	Well Driller)
Vas well test made? Yes to No   If see, he whom defeated by type of test Flow Pump [] hader [] Air lift	TARREST PARTSON DELL'ALINE
Depth to want at start of test 1 At end of test 60 Water temperature Water temperature	
tical analysis made? Yes [2] No.   H. ves. by school?	City Crestline 92325
se electric log made? Yes [] No F If yes, attach copy to this report	License No. 304075 Date of this report 6/5/82
	1.

VWD#68

#### TRIPLICATE Owner's Copy

193717

lestric ha mide? Yes ?

No

### THE RESOURCES AGENCY

No. 069416

Do not fill in

DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Local Fermit No. or Date 05068201 State Well No. Other Well No. (12) WELL LOG: Total depth 400 ft. Depth of completed well. (1) OWNER: Name ft. Formation (Describe by color, character, size or material)

10 - rky overburden Los ingeles 90057 10 - decomposed granite (2) LOCATION OF WELL (See instructions): - med. hard rk 30 201 In Sawa Well Number 201 203 - clay Well address if different from above 203 282 - alt. hard rk Township\_ Approx. Ty mi. H. of 282 283 Distance from cities, reads, railroads, fences, etc. intersection of Oak Olen rd. & Mildwood Cyn. 283 -Vala alta med. & hard rk unstable fault material rd. 址 35h fract. med. rk 380 100 med. hard rk versing Humilaning (3) TYPE OF WORK: WELLS New Well & Deepening Pick-ups (Mitial Flows) - Water Reconstruction FLOW Reconditioning % gpm (sealed off) Henzontal Well 283 Destruction [ (Describe destruction materials and procedures in Item ) 344 TANK 100 (4) PROPOSED 380 DEL 3:5 IN FW. Domestic ... NO. Total initial flow of gos Irrigation/ Industrial Notw: When capped, well will store water under-ground until the pressure at collar level Led Mell reaches 20+ par. WELL LOCATION SKETCH Other \*\* After completion, well was allowed to flow (5) EQUIPMENT: Reverse [ D we unresticted for 72 hrs. During this time, flow dropped to 6h gpm. where It appeared to be Cable Air D bolding steady. Other Bucket D (7) CASING INSTALLED Sgalv. pipe Steel Plastic [ From Dia. D in. Wall ft. Û (9) WELL SEAL: Was surface sanitary seal provided? Yes - No - If yes, to depth 30 Were strata sealed against pollution? Yes No 5 No Interval Method of sealing 5/10 19 82 Work started Completed See note (10) WATER LEVELS: WELL DRILLER'S STATEMENT: Depth of first water, if known This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief Standing level after well completion (11) WELL TESTS: No | If yes, by whom Pierson Deill Yes Z Was well test made? Yes Type of test Plow Pump (Well Driller) Pierson Drilling Bailer [ Air lift [ NAME\_ Depth to water at start of test\_Die te 67 gal min after At end of test\_\_\_ P.O. Person, firm, or corporation) (Typed or printed) Water temperature. hours Crestline 92325 Lanalysis made? Yes 2 N. C If yes, by whom?\_ 6/5/82

IF ADDITIONAL SPACE IS NEEDED. USE NEXT CONSECUTIVELY NUMBERED FORM D. R 188 REY 7-761

It see, attach copy to this report

304075

Date of this report.

License No.

Name of Intent	No1	0583		
Local Pennit No	or Date_	_092	17802	

WATER WELL DRILLERS REPORT Other Well No.

OW	NER: N	CARRE					(12) WELL LOG: Total depth 520 to Depth of completed well 520_ft.		
sadress							from ft. in it. Fromution (Describe by color, character, size or material)		
The state of the s	e Ange	las			7	in 90057	0 5 - loose fractured rk.		
						1,,	5 - 47 - Ned. hard rk.		
(2) LOC	Son Do	Tdo.	WELL.	(See instruc	tions): Well Number #	1/2	_17 _ 19 - tough clay		
					Ranch		49 160 - Med. hard rk.		
							160 -196 - alt. med. and hard rk.		
					Section 2				
						L. N. of	_196200 - very hard rk.		
inters	ection	of	Mildwo	od Cyn.	ld. & Oak	Glen	200 -332 - alt. med. & hard rk.		
Rd.							332 -333 - tough clny		
							333 452 - Med. hard rk.		
					(3) TYPE	OF WORK:	152 166 - very hard rk.		
20	5	GN	F		New Well X	Deepening []	466 -520 - alt. med.hard & hard rk.		
	, , ,	200		1	Beconstruction				
1 52	Tr FE			200	Becombitions	ne (1	W Mater state une (Inditio) Flore)		
1 X					Horizontal W		* Water pick-ups (Initial Flows)		
1	F1 - 1		FRAN	1	Part of Contract of	-	TTOM TO TTOM		
1	20 3 65			1	Destruction E	interials and			
. \	Finite	1.00	. /-	••*	procedures in		333 - 390 - 35 G.P.M.		
	1		1		A COLUMN TO SECURE	OSED USE:	390 - 430 - 15 G.P.M.		
[	1	1			Damestic	. X	1137		
	1	/	CONK !	Strang.	Inigation		Total initial flow - 60 G.P.M.		
	1	/			industrial -	. , , Ц			
à.	1				Test Well	, п	Note - When copped, well will store water under-		
	1				Stock	E1	ground until the pressure at collar level		
1 /					Morn ipal	r.i			
	Today V	200112801	1121 1 17.2074		1	[]			
F 8211			ON SKETC		Other	1.1			
131 EQUI	PMENT: .		-151	(6) (111111)			** After completion, well was allowed to run un-		
Hotary D		Rev	ene D	The state of the s	El Sie		restricted for periods of up to 72 hrs. several		
tande []	N. Carlot	Air	ο.	Diameter of L	5 km 0	to 3335! -	times. During these periods, the flow dropped of		
Other O	Horiz	onte	D O	Packed from	2, 333	to 4551	from its initial flow of 60 G.P.M. to approx. 30		
TI CASIS	NG INSTAL	LLED;	16	(8) PERFOI	1711流流15	5-to-5201	G.P.M. within 12 hrs. and then held steady for		
Steel 00	Plastic [	Co	miete [1	Topal thers	td. galv	pipe	the remainder of the test.		
-	T		1		of To				
From	To	Dia.	Gage or Wall	From	ft.	Slot	-		
7.4	-	-				- 1. 1.			
_0_	3332		I.D.	-328-8	455_	3/16"	_ i		
	std.	galv	-		-drill	ed-holes_			
-	1				1				
(S) WE	LL SEAL	4				9 22 2 2 3			
Was surfac	e samlary	seal pro	wided? Ye	No [7]	Il yes, to de	1111.333-6-11.			
Were stra	ta scaled	Against	pollution?	Yes [] N	o . biterval_				
Method of	stable !	_Gro	ut und	er press	ure		Work stated 3/26 19 79 Completed B/27 _ 19 79		
(10) W	ATER LE	VELS	See	note -		#	* WELL DRILLER'S STATEMENT:		
Depth of	hest water	il kie	wn				Has well was didled maker was misdulen and this report is line to the liest of in		
Standing 1	evel after	sell con	apletion_;	35 7 7 5 5 5 C		!!	knowledge and light!		
	ELL TES		See n	ote -		H-X			
	test marke?		X N	a [7] Il ves. I Bailer [.	Plers	on Drilli	ing		
Type of te				It		1681	rierson priling		
	water at						Addres P.O. Box 1028		
			aller			10 - 10 - 159 <u>0</u>			
	analysis ma			**	is isleant		-1		
Cidecti	rie log mad				that it reque to ell				
WR 186	1 11EV. 7.7	G. 1	F ADDIT	IONAL SP	ACE IS NEE	EDED. USE	NEXT CONSECUTIVELY NUMBERED FORM 41419 350 7-76 50M GUAD (UT OSA		

Notice of Intent No.

10583

Well 4 Hatte OF CALIFORNIA NOW YVWD THE RESOURCES AGENCY WELL#69

Do not fill in

No.04281

### DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

State Well So

Terroit No. or Tane Uy217002		Other Well No.
(1) OWNER: Name		(12) WELL, LOG: Total depth 520 to Depth of completed well 520 u.
\$		home it to it. Compation (Describe by color, character, size or material)
Los Angeles		05 - loose fractured rk.
그렇게 있는 경기를 가는 것이 없는 바람이 되었다. 그리는 사람들은 사람들이 되었다면 하다면 없는 것이다.	The second of th	5 47 - Med. bard rk.
(2) LOCATION OF WELL (See instruction of the County, San Berdo, Owner's W.	ell Number 💆	_4749 = tough clay
Well address it deferent from above Old Oak Glen		49 160 - Med. hard rk.
그리고 아이들 것이 되는 그들은 그리고 있다면 아이들은 이 이 경험이다. 이번 그를 받는데 하는 것이다.		160 196 - Alt. med. and hard rk.
	Section 2	The same of the sa
Ostante from cities, reads, militads, femes, etc. Appro-	K. 13 M1. N. 01	_196200 - very hard rk.
intersection of Wildwood Cyn. Re	1. & Oak Preu	200 332 - alt. med. & hard rk.
Rd.		332 333 - tough clay
		333 152 - Med. hard rk.
	(3) TYPE OF WORK:	452 466 - very hard rk.
SENE	New Well X   Deepening [ ]	466 520 - alt. med.hard & hard rk.
	Reconstruction [1]	
1-455	Reconditioning [1	* Water pick-ups (Initial Flows)
\ *	Horzental Well 💢	From _ To Flow
VET STAN FRAM	Destruction 1.1. (Describe	0_ 333 - 3 G.P.M. (sealed off)
K.4.100	destruction materials and procedures in Hem 121	333 390 - 35 G.P.M.
	(4) PROPOSED USE:	390 130 - 15 G.P.M.
	Donnestie X	130 170 10 0 0 0
Same creations	Irrigation [1	Total initial flow - 60 G.P.M.
1/	Industrial . [1]	TOTAL THICIAL TION - OU U.F.M.
	Test Well [1]	National Management (1977) and the second control of the second co
· · · · · · · · · · · · · · · · · · ·	A CONTRACTOR OF THE CONTRACTOR	Note - When capped, well will store water under-
	3073	ground until the pressure at collar level
		reaches 30+ p.s.i.
	Other L)	
(6) GRANGE	4	** After completion, well was allowed to run un-
Robert M. Reverse [1] Yes [1] No. [		restricted for periods of up to 72 hrs. several
	"2's" 0 to 333's!	times. During these periods, the flow dropped of
Other A Horizontell Ct Parket from	2 333 to 4551	from its initial flow of 60 G.P.M. to approx. 30
		G.P.N. within 12 hrs. and then held steady for
Steel [7] Plastic [4] Concrete [4] Pypel & per [5]	d. gnlv. pipe	the remainder of the test.
From To Dia. Gage or From	To Slot	
ft. ft. 'in. Wall It.	It. size	
0_ 333 2" I.D. 328-8	455 3/16" _	
std. galv.	drilled holes	
(9) WELL SEAL:		A MINI C R. M. MIN
Was surface sanitary seal provided? Yes 20 No.11	Il yes, to depth 333-6 II.	
Were strita scaled against pollutions Ver II No.		
Method of scabout Grout under pressu	re	Work started 3/26 1979 Completed 11/27_19.79
(10) WATER LEVELS: See note -	*	WELL DRILLER'S STATEMENT
Depth of bist water, if known	· n	This well was dralled under my variedation and this report is time to the best of my
Standing level after well completion		Kum tedas met la het
Was well bet made? See Note	who **	No. St. Or. 15"
Two of lest Flow Pump to Bader !	"Fierson, Prilling	NIN Pierson Drilling
Depth to water at start of test fi	At end of test; It	Pierson Drilling
Discharge_ 30 galemin after . home	Water temperature 1590	Milli P.O.Rox 102C
t hemical analysis made? Yes Fl. So T II vess to		Crestlino . /m 92325 -
Was been log made? Yes [1] No Y H ves, arts		1 mm N 304075 . Date of this report 5/0/79
THE THE PER TOTAL SPACE	E IS NEEDED. USE N	TEXT CONSECUTIVELY NUMBERED FORM THE TO THE TOWN BURE THE CONSTRUCTION

.

### NOW YVWD WELL # 70

Owner's Copy

STATE OF CALIFORNIA THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES

No. 069452

WATER WELL DRILLERS REPORT

Do not fill in

Local Permit No. or Date 9/27860/	LL DRILLERS REPORT  State Well No  Other Well No
(I) OWNER: Name	(12) WELL LOG: Total depth 49 Gt. Depth of completed well 47 Gt.
Address	from ft. to ft. Formation (Describe by color, character, size or material)
City Los Angeles 7ing	0057 0 - 3 - overburden
	2 - 70 - 1 - 1
(2) LOCATION OF WELL (See instructions): Owner's Well Number	
Well address if different from above	1751
75	128-6-129-010
Section Section	129-272.6. alt. Wed. Than 1k-
Distance from cities, mads, milmads, fences, etc/2 The weste.	
portion of the swy of NW	
wwy, sec. 2	330-410-all Med-hard & hard rk
No. Contraction of the Contracti	410-458-1900 11
ratife - 1 Port (3) TYPE OF	WORK: 456 A 467 Fault 2000
Pisgon Peak (3) TYPE OF New Well of Dee Reconstruction	paning D 111 'M 11'-17 B
Reconstruction	Textogram. Fred grand IK.
Reconditioning	
7 2 /	Water Mackages (Initial Flows
Horizontal Well	-Ton Down
Destruction (De destruction materia	scribe Sound
procedures in Item	223-220 2600
(4) PROPOSEI	1 1 374 - X55 200 -
Domestic	456-987- 76 pm
V Oak Glen Irrigation	1467 - 480 CREAM
Red. Industrial	1 788 49h - All
Test Well	DESTITUTE WEST
Stock	Sext Indiot Flow - 43 gfm
Municipa	Notes when copped, well will
WELL LOCATION SKETCH Other	1 Store duter underground unt
(5) EQUIPMENT: (6) CANTED PACK:	De The stassail at collor leve
Rotary Reverse O No 2 Size	13 Respires 2141 PSI.
Cable   Air   Disputer of born	176
Other 2017. Bucket   Rubket from to	During drilling operation
(7) CASING INSTALLED (8) PERFORATOONS	
Steel Plastic Charlete Type of perforation or size of scree	Sand of fel complething well
From To Dia. Charle or From To ft. ft. Wall ft.	Sign restricted for periods of up
2 - 4 (2) - 4	ste le this, failed flow of
273 514. 272 476	16 45 spor drups to 42 spor in 1
get of pipe	les and 38 ypm after 214 hrs-th
Olist II	no further drop was noted.
(9) WELL SEAL:	A REPORT OF THE PROPERTY OF TH
Was surface sanitary seal provided? Yes No D If yes, to depth 2	73 ft
Were strata sealed against pollution? Yes [ ] Not Interval	
Method of sealing Grown under prosses	
(10) WATER LEVELS: See note	WELL DRILLER'S STATEMENT:
Depth of first water, if known	ft. This well was drilled under my jurisdiction and this report is true to the best of m
Standing level after well completion	ft. knowledge and belief
(11) WELL TESTS: Sue mile	5- SIGNED Tene P Helson
Was well test made? Yes No   If yes, by whom? 5- Type of test   Pump   Bailer   Air lift	(Well Driller)
<b>N</b>	I WANTE
Depth to water at start of testft. At end of test	(Person, firm, or corporation) (Typed or printed)
argo gal/min after hours Water temperatu	60° Address 1028
nical analysis made? Yes No If yes, by whom?	City Cresiline Zip 7202.5
is electric log made? Yes No lif yes, attach copy to this rep	ort License No. 304075 Date of this report 3/4/86

### YVWD # 71

TRIPLICATE Owner's Copy

#### STATE OF CALIFORNIA

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

No. 069445

Lacul Permit No. or Date 50 8 850/	Other Well No
(1) OWNER: Name	(10) WELL LOC. 445 445
Reserved	(12) WELL LOG: Total depth 443 ft. Depth of completed well 445 ft.
Address	from ft. to ft. Formation (Describe by color, character, size or material)
	90057 0-3-overburden
(2) LOCATION OF WELL (See instructions):	3-105 decomposed granite
County Jan Berdo Owner's Well Number_	12 105-291-011. Red. & Med Hard 1k-
Well address if different from above	291 - 294 - clax (fam 17)
Terriship 2 N Range / W Section	294-380-alt. Hyd thord rk
Distance from cities, roads, railroads, fences, etc. 14 5W 4 6	of NW4 380- 400 Xxed rk & unstable (font
	IW. 400-445- XXX 1/s.
WO.	- 1
April 1	Water Rich-ups (Initial Flows)
(3) TYPE O	
New Well &	
	7000
Reconstruction	274-380-X0CAN
Reconditioning	1380-400 Chilynn
Horizontal Well	8 4 4 4 6 5 8 pm
Destruction   destruction mat	(Describe 4) - 445th O GA
procedures in it	
Rd. destruction mat procedures in its (4) PROPOS Domestic Irrigation Industrial	SED DEEL 3 10
Domestic _	Wote When reapped well will.
1 Irrigation	1 state woter Dinders round
Industrial	The second of
Ten Well	3116
	V Carrel reaches 144)
Stock Stock	255.
Municipat	0/2
WELL LOCATION SKETCH Other	6 - 5
(8) EQUIPMENT: (6) GRAVECTOR:	All * After completion, Nell
Botary A Reverse   No   Size	was allowed to flow un.
Cable   Air   Thereter of ba -	5445 Quatricted for 77 hrs Dun
Other D Bucket D Packed from 10	some first 12 hrs. initial
(7) CASING INSTALLED	1 VED - 10000 6 50 800.
Stool Plastic   Concrete Type of Pertration or May of	creen of They no further drop
	7
From To Dia. Gage of From To ft. Wall ft.	(slee) was noted.
0 293 370 299 37	vione -
Salv A.p. 399, 98	
drike	oles -
(9) WELL SEAL	10.7
Was storface sanitary seal provided? Yes No   If yes, to depth	1. Z 73 ft
Were strata sealed against pollution? Yes   No   Interval_	ft ,
Method of sealing thou under pre	5500 Work started 3/10 19 83 Completed 3/3/ 19 83
(10) WATER LEVELS: See note	* WELL DRILLER'S STATEMENT:
Depth of first water, if known	ft. This well was drilled under my jurisdiction and this report is true to the best of my
Standing level after well completion	it. knowledge and belief
(11) WELL TESTS: See note	Sugned (Well Driller)
	D. C
Deptis, to, water at start of testft. At end of te	(Person, firm, or corporation) (Typed or printed)
	Address J. C. ISON JOLS
normical analysis made? Yes O No 1 If yes, by whom?	City Crestline Zip 92325
Was electric log made? Yes No. If yes, attach copy to this	700075 1/6/85
The state of the s	

# NOW YVWD. WELL # 72

TRIPLICATE
Owner's Copy

25/14-3+1 DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in

No. 322799

tice of Intent No Local Permit No. or Date			State Well No
(1) OWNER: Name	are or	(12) WELL	LOG: Total depth 500 ft. Completed depth 500 ft.
Address		from ft. O to5	00t. Formation (Describe by color, character, size or material)
City HANGELES, CA.	ZIP 90004	0-160' -	FIRM BROWN DG
(2) LOCATION OF WELL (See !-	antonia tili anno l	160-2004	BROKENUP BLUE GRANITE
(2) LOCATION OF WELL (See in County SAN BERNARDINO		200-280+	BROKENUP BLACK GRANITE
Well address if different from above OFF	ONE CIPM DO THE	280-360*	BROKENUP BLUE GRANITE WARER
Township 25 Range	1W 3	360-440+	BROKENUP BLUE & BLACK GRANTTE
Township Range	. ADD 3 MITTER OFF	440-460*	BROKENUP BLIBOGREEN GRANITE/WATER
Distance from cities, roads, railroads, fences, OAK GLEN RD. IN OAK GLEN		460-500°	BROKENUP BLACK & BONE GRANITE
USA GUER RIV. IN USA BELER		500' -	STOP
		-	11
	(3) TYPE OF WORK:	-	_ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1×		-	
	New Well  Deepening		V //
	Reconstruction	1	
74 9	Reconditioning		11 - 6
	Horizontal Well	1-	V 600
	Destruction (Describe destruction materials and pro-	101	2 (2)
CS-10	cedures in Item 12)	110	(0)
C	(4) PROPOSED USE:	h >> -	R 160
	Domestic	-	110 -418
i	Irrigation	1.0	0.000
1	Industrial	(2)	N; 4/9
	Test Well	269	× >
	Municipal	4/1/2	D(C)00
TAK GELES	Other	B10 -	-(8)U*
WELL LOCATION SKETCH	(Bescribe)	K _(	3/4
THE PROPERTY OF PROPERTY OF THE PARTY OF THE	105	·/>	2)
(5) EQUIPMENT:	GRAVEL BACK - CONTO	1	,
Rotary Reverse	Sin Sin 3X80	1011/2	
	tameter of bore	1011/2	June 5 2 452 2 1 5
Other Bucket	adjed from 500		
(7) CASING INSTALLED: (8	PERPORATIONS	1): -	TWO SATE RESIDENCE
Steel Plastic T Corcrete   T	ype of perforation or size of acpeter		
1 1 1	711 - VIA 77 -	1	19 - *
From To Dia Gage or ft. ft. ft. Wall	From Fo Stot		
	12 18/1		Tet
0 10 25/8" .250	306 600 .032	1	
0 500 5" 200	300 500 .032		The second secon
(9) WELL SEAL:	19	1 2	Manager and the second
	No ☐ If yes, to depthft	15"-	COLOR (1997) - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The state of the s	No X Intervalft		71. 11.
Method of sealing STARL & CONTRA		Work started_	19 90 Completed 313-90 19
(10) WATER LEVELS:	4		ILLER'S STATEMENT:
Depth of first water, if known 320	6	didam son	
	300	This well was	drilled under my jurisdiction and this report is true to the
Standing leverance wearonipiecton			The war being A
(11) WELL TESTS: Was well test made? Yes A No	If yes, by whom? DRILLER	Signed	(Well Driller)
Type of test Pump	Bailer Air lift	NAME SA	M CRUM WATER WELL DRILLING, INC.
Jepth to water at start of test ft.	At end of testf	18	03 MARYVALE LIN. (Typed or printed)
Dischargehor		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000 AS
Chemical analysis made? Yes O No	If yes, by whom?		534200
Was electric log made Yes 🗌 No 🗗	If yes, attach copy to this report	License No	534298 Date of this report

28 th

### County of San Bernardino - Environmental Public Works Agency ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

PLEASE PRI	NT:	New#72		PERMIT -341	Exp FF FA	iration 2	
Mailing Address	s Angeles	Zīp_900	04	exact for all 6. ANNULAR Furnished by ☐ Driven Co ☐ Sealing M 7. DEPTH OF	other wells.  SEAL:  Owner anductor Dia.  aterial	Seal Depth.  ☐ Contract in., Wall (Ga	ft. or age)in.
	311111111111111111111111111111111111111		/6/90	B. CASING IN:	OF BORE (in.): _	8	
		SAM CRUM WATE		From (ft.)		Other Dia, (in.)	Wall (Gage)
☐ Commun☐ Individua☐ Agricultu☐ Dairy	ity ☐ Hori	t nitoring	☐ Other	9. PERFORAT	totototo	ft	-
The second secon			1	From11. LOCATION	toto	-0C-6D	
NW	1/4	NE	\$60.3 \$60.3	(b) Assessor	r's Parcel No. 325 liquid waste dispo	osal site within	
	54	EC.					
sw	1/4	SE .	74		01 00027239 0 005 ENV HEALT 0 00090000	NAGEMENT - E 045 CHR 02 H SERV TOT P	ENO CO. .P.W.A. /20/90 15:01 F AIO: 110.61
	OWNER: Na Mailing Address  City Lo Phone No. (2 DATE OF W Start WELL DRIL Owner  WELL USE (1) Commun Individua Agricultu Dairy TYPE OF W XX New  NW	City Los Angeles  Phone No.(213) 463-1181  DATE OF WORK (approximate)  Start 3/1/90  WELL DRILLER (Check One)  Owner Contractor S  WELL USE (check):  Community Horical More Agricultural More Pub  TYPE OF WORK (check):  XX New Reconstr	OWNER: Name	OWNER: Name	Description   Destruction   Destruction   Destruction   Description   Description	Note   Note	DWNER: Name

Scale - 1 inch to 1/4 mile

	100' No	1				25/1 W-31	1
	i			12. P	LOT PLAN:		
o'				ot di	ther wells (include sposal systems (seeds, seepage pits,	abandoned well wers, septic tank	perty lines ls), sewage s, leaching
	-				ater courses and ani		and ponds
				(b	) Indicate the di	istance in feet, of within 200 ft. of the	
st	Well	Site			Other wells Sewers Septic tanks Leaching fields Seepage pits Cesspools		
r'						ds	
1			i	(c	) XX None of the of the well	ne above are within	n 200 feet
),		h an 100 fran			or the we	ii site.	
I ha	Scale - 1 inc ave read this application and agre uires Workers' Compensation ins I certify that in the performa to become subject to the Wor	ee to comply warrance as a pre-	requisite to permit issured for which this permi	ance unless t it is issued. I	the applicant signs t	the following certif	icate:
I ha	ave read this application and agre uires Workers' Compensation ins	ee to comply warrance as a pre-	requisite to permit issured for which this permi	ance unless t it is issued. I	the applicant signs t	the following certif	icate:
I ha	ave read this application and agreeines Workers' Compensation ins I certify that in the performa to become subject to the Wor	ee to comply was urance as a presence of the workers' Compensa	requisite to permit issurk for which this permit ition laws of California	it is issued, I	the applicant signs t shall not employ as	the following certif	icate: anner so as
requ	proved subject to the following:  Notify the Department,  Prior to sealing of the as  After installation of the  Submit to the Department wi	following operational surface protections thin thirty (30)	DISPOSITION OF PER (Do Not Fill In)  filling of the conductor ter) casing prior to furth tive slab and pumping endays after completion days after completion	Date.  Date.  RMIT  ar casing.  ther drilling a equipment.  rial.	the applicant signs to shall not employ as Date	the following certifing person in any many person in any many many feet. Reg. No	icate: anner so as 134
App A	proved subject to the following:  Notify the Department, to make an inspection of the  Prior to sealing of the as  Verify the depth of the  During destruction of we  Submit to the Department wi  Water Well Driller's Repo	following operational surface protection thirty (30) ort	DISPOSITION OF PER (Do Not Fill In)  filling of the conductor trive slab and pumping expuring the sealing mater days after completion  Bacteriological Aral Mineral	Date.  Date.  TMIT  Treating.  Ther drilling a equipment.  Trial.  Of work, a conalysis  Organic (	Date	Reg. NoReg. No	icate: anner so as 134 in advance
App A	proved subject to the following:  Notify the Department, to make an inspection of the  Prior to sealing of the as  Verify the depth of the  During destruction of we  Submit to the Department wi  Water Well Driller's Repo	following operational surface protection thirty (30) ort	DISPOSITION OF PER (Do Not Fill In)  Stions:  filling of the conductor ter) casing prior to furth tive slab and pumping expuring the sealing mater days after completion  Bacteriological And the completion of th	Date.  Date.  TMIT  Treating.  Ther drilling a equipment.  Trial.  Of work, a conalysis  Organic (	Date	Reg. NoReg. No	icate: anner so as 134

We ( # 18 NOW YVWD WELL # 73

TRIPLICATE
Owner's Copy 25/W-36)
DEPARTMENT OF WATER RESOURCES

THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do not fill in

No. 204467

Notice of Intent No W.	ATER WELL DI	RILLERS REP	ORT	
Permit No. or Date			Jin	her Well No
(1) OWNER: Name_		(12) WELL LO	G: Total denth 40	10ft, Depth of completed well 400ft
Address		from ft. to ft. F	omation (Describe by	color, character, size or material)
City Los Angeles, CA	Zip90057	0 - 20	Broken bro	
(2) LOCATION OF WELL (See instruction		20 - 60	Broken to	hard blue green ro
(2) LOCATION OF WELL (See instruction County San Bernadino Owner's Wel	l Number 18	60 - 80	Broken	blue green rock
Well address if different from above Wildwood	Cyan Rd.	80 -120	clay brown	white mim
Towards	Section	1200 -140	Blck gran	WHILE MILE
Distance from cities, roads, railroads, fences, etc.		140 -180	Broken un	blae/green
The state of the s		180 -200	Brodde	Dide/green
		200 -240	Bronw as di	een boke up
			water bro	
10	) TYPE OF WORK:			reen broken up
	w Well CK Deepening	280 /320	water-	green broken up
ter to be the last		320 0.340		rown broken up
, ,	econstruction	340 -400	Black gran	ite- STOP
1 12	conditioning	- 1/10	(G) A.	
	orizontal Well .	-1811	O Ma	
De	struction (Describe struction materials and poodures in Item 12%	11.0-	10)	(0)
	11.	- 6	(	612
201	PROPOSED USE	- 2/1/2		2)
De	omestic O	0-110	01	
In In	igation [	- It a	100	
(a) In	dustrial	107-0	11/2	
To The Tall	Well O	1110-	O .	
State De Day	ocal 6	10 - 2	1140	
_ · / / M	anicipal . d		7.9	* 1
WELL LOCATION SKETCH	her 🔘 🛭	· 62	<b>Y</b>	
(5) EQUIPMENT: (6) GRAVEL PA	CK: O'O	11:00		
Rotary   Reverse   No   No	Size of 1	W.		
Cable   Air   Ripheter of bore_	( 0	2////		
Other   Bucket   Packed from	0 00 0	4412		
(7) CASING INSTALLED: (8) PERFORATE	dale:	750		
	or size of screen	<del>9</del>		
1 1 1 1 1 1 1 1 1	1 1 1 100			
fr. To Dia. Gage-of From ft. Wall ft.	To slow			
0 400 0			<del></del>	
	18/10			
	Cillian .	-		4. 1
(9) WELL SEAL:	this .		1+0	
				-
	yes, to depth50_ft.	-		
Market de la companya	Interval ft.	-		
(10) WATER LEVELS:		Work started 1-		Completed 71-26 19 88
Depth of first water, if known 240	XXXXXX ft.	WELL DRILLER'		
Standing level after well completion 14		knowledge and belief	under my jurisdiction	and this report is true to the best of my
(11) WELL TESTS:	D	SIGNED	-	
Was well test made? Yes € No ☐ If yes, by will Type of test Pump r Reiler ☐		4	(Well Dr	iller)
Death to the second sec	MUNIC T		Jones WEll	
Distance 11.1 to 1	t end of testft	to the control of the late of the control of the co	BOX 250	n) (Typed or pfinted)
	Vater temperature		County of the Co	0.224.2
Ck-mical analysis made? Yes O No O If yes, by will electric log made? Yes O No O If yes, attach		License No. 4360		92343
electric log made? Yes No If yes, attach	cupy to this report	License No. To UU.	Date	of this report 3-18-88

WR 188 (REV. 7-76) ' IF ADDITIONAL SPACE IS NEEDED. USE NEXT CONSECUTIVELY NUMBERED FORM

## 25/IW-3AI NOW YVWD WELL # 74

### ORIGINAL

File with DWR

### STATE OF CALIFORNIA THE RESOURCES AGENCY

No. 1

Do not fill in No. 217126

'emit No. or Date 08158807

DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

	Other Well No
(1) OWNER: Name_	
Address	(12) WELL LOG: Total depth 0 ft. Depth of completed well 583
City Los Angeles, CA Zin 90004	Insu ft. to ft. Formation (Describe by color, character, size or material)
	0 - 18 - Fine sand & brown clay.
(2) LOCATION OF WELL (See instructions):  County San Bernardino Owner's Well Number 20	18 - 39 - Fine sand & shale.
Well address if different from above Parcel 325-011-08	39 - 78 - Fine sand & rock with shale mix.
Turrebia 20	78 - 129 - Fine & medium coarse sand with
Township 2SRange1WSection3	streaks of skale & granite.
Distance from cities, roads, railroads, fences, etc.	129 - 318 - Decomposed granite - blue in
	coldn
	318 - 583 \ Decomposed granite - solid
	Formation - blue green in color.
(3) TYPE OF WORK:	The Breen In Color.
New Well X Deepening	
Reconstruction	
Reconditioning	7 7 8
Horizontal Well	M (C)
	1611. 4/10)
Destruction [ (Describe destruction materials and procedures in Item 12)	110 100
	200
(4) PROPOSED USE:	(C. D. 10)
Domestic	-10
Irrigation	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Industrial	105-6 Ha
Tep Well D	
Stock	110 - 1000
Municipal	
WELL LOCATION SKETCH Other	4 167 /2v
(5) EQUIPMENT: (8) GRAVEN RACK:	2 731
Rotery C	ck (C) A
Cable [] Air M Directly of bore 125	CK (1) TO
Other   Bucket   Pakket From 50s to 583 ft	(1)
(7) CASING INSTALLED: (A) PERFORATIONS:	7///), -
1111	40 -
The state of the s	40 -
ft. ft. Cage of From To Slot	1
0 200 4 5 100	
0 200 8 5 8 .188 200 583 100	
- illa	
Oli:11	
(9) WELL SEAL:	
Was surface sanitary seal provided? Yes 10 No 11 yes, to depth 50 ft.	
Were strata sealed against pollution? Yes & No Interval 6.	
Method of sealing	Work started 19 Completed 10
(10) WATER LEVELS:	Completed
Depth of first water, if known	WELL DRILLER'S STATEMENT:
Standing level after well completion 232	This well was drilled under pry jurisdiction and this report is true to the best of me
(11) WELL TESTS:	SIGNED Will fleese
Was well test made? Yes X No I If yes, by whom?  Type of test Pump I Bailer   Air life	(Well Driller)
Depth to water at start of test	NAMEWilliam Steese - SoCal Pump & Well Service
Discharge	cor it con, itm, or corporation) (1yped or printed)
water temperature	Diameters of
al anglesis made? Ver en en en	
al analysis made? Yes   No   If yes, by whom?	City Bloomington, CA Zip 92316 Lifeense No. 510836 Date of this report 11/29/88

# Well # 16 |S/IW-34Q|

### NOW YUND WELL # 75

Do not fill in

DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

No. 193900

ermit No. or Date	State Well No.
/// //	Other Well No
(1) OWNER: Name	(12) WELL LOG: Total depth 420. Depth of completed well 420 ft
Address	from ft. to ft. Formation (Describe by color, character, size or material)
City_ Los Angeles, Ca. Zip 90057	0 - 20 Broke Up Brown DG
(2) LOCATION OF WELL 15	20 - 40 Broke Up blue/green rock
CountySan_Bernadino_Owner's Well Number	40 - 60 Hard blue/green rock
Well address if different from above	60 - 80 Broke Up Blue/green rock
Township Range Section	80 - 100 Hard blue/green rock
Distance from cities, mads, railmads, fences, etc.	100 - 120 Clay brown/white mix broke u
	120 - 140 Black gran. & blue/green mix
	140 - 160 Broke Up Blue/Green
	160 - 180 Brke Up Blue/ Green
(3) TYPE OF WORK:	180 2-200 Broke Up blue/green rock
New Well (X Deepening	
Reconstruction	and the state of
Reconditioning	010
l lorizontal Well	
Destruction [] (Describe	200
destruction materials and procedures in Item 12)	Water
(4) PROPOSED USE,	300 - 320 " " water
Domestic	-320 "water)
	340 360 " water
	Water
7 Tet Well	water
	420 hard black granite
	+ 10 - 10 1
WELL LOCATION SECTOR	4 Total Control
(5) EQUIPMENT: (6) GRAYED PACK:	4 4
Rotary   Revene   You   No   Size	110
Cable D Air Diameter of bore	- Chia
Other 17 Bustes 17 Acres	T ( ( ) -
(7) CASING INSTALLED: (8) PERFORATIONS:	- 77
C. Type in periodication of sicreen	7 5 -
From To Die Gage or From To Slot Size	
420 87) (E. Size	-
- 20 87	-
11/16/10	
(9) WELL SEAL:	-
	*
Was surface sanitary seal provided? Yes & No   If yes, to depth 50 ft.  Were strata sealed against pollution? Yes   No   Re Interval   ft.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Method of sealing Cement-Steel/10"	
(10) WATER LEVELS:	Work started 3-13 19 87 Completed 4-1 19 87
Depth of first water, if known 240 ft.	WELL DRILLER'S STATEMENT:
Standing level after well completion 145	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
(11) WELL TESTS:	SIGNED.
Was well test made? Yes 🕾 No □ If yes, by whom?	(Well Driller)
Doub to make at start of a second of the sec	NAME Ron Engeldinger (Typed or printed)
Discharge 1504/	Address P.O. Box 250 (Typed or printed)
The temperature	00040
	City Hemet Ca. Zip 92343
tric log made? Yes No By If yes, attach copy to this report	License No. 294625 Date of this report 4-16-878

\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In Well Completion Report of 1 Page 1 Refer to Instruction Pamphlet Owner's Well Number MW-4 State Well Number/Site Number No. e0107583 N W Date Work Began 11/18/2009 Date Work Ended 11/18/2009 Local Permit Agency Riverside County Department of Environmental Health APN/TRS/Other Permit Number WP 20441 Permit Date \_11/10/09 Geologic Log Well Owner Orientation O Vertical O Horizontal OAngle Name \_ Drilling Method Hollow Stem Auger Drilling Fluid Air Mailing Address Depth from Surface Description City Yucaipa State CA Describe material, grain size, color, etc Zip Feet Feet 4 0 Silty sand, fine to medium with gravel, light brown Well Location 9 4 Sand, fine to coarse with silt and gravel, brown Address San Timoteo Canyon Road Silty sand, fine with medium and clay, brown 9 27 County Riverside City Calimesa 27 46 Silty sand, fine to medium with clay, brown Latitude 33 N Longitude 117 46 54 Silty sand, fine, gray brown Datum NAD83 Decimal Lat. 33.987 54 82 Sandy silt, fine with clay, brown Decimal Long. 117.134 APN Book 413 Page 380 Parcel 004 Township 2S Range 2W Section 19 Location Sketch Activity (Sketch must be drawn by hand after form New Well North O Modification/Repair O Deepen O Other\_ O Destroy Describe procedures and mal under "GEOLOGIC LOG" Planned Uses O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring 9 O Remediation O Sparging O Test Well O Vapor Extraction llustrate or describe distance of well from roads, buildings, fences, ivers, etc. and attach a map. Use additional paper if necessary. O Other Water Level and Yield of Completed Well Depth to first water 60 (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring Feet Estimated Yield \* (GPM) Test Type Test Length (Hours) Total Drawdown Total Depth of Completed Well 80 Feet \*May not be representative of a well's long term yield. Casings Annular Material Depth from Borehole Wall Outside Slot Size Screen Depth from Material Type Surface Diameter Thickness Diameter Fill Type if Any Surface Description Feet to Feet (Inches) (Inches) (Inches) Feet to Feet (Inches) Blank 65 10 PVC Sch. 40 4 51 Cement seal 65 80 10 Screen PVC Sch. 40 4 Milled Slots 0.020 51 55 Bentonite seal 55 80 Filter Pack sand Attachments **Certification Statement** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name Jav J. Martin for C.H.J., Incorporated, Vice President, CEG 1529 ☐ Geologic Log ☐ Well Construction Diagram

Attach additional information, if it exists DWR 188 REV, 1/2006

Other\_

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Colton

CA

766402

3/18/2010

Date Signed

92324

C-57 License Number

Person, Firm or Corporation

C-57 Licensed Water Well Contractor

Cooley Drive

2000E

1355 E.

### MONITORING WELL NO. MW-4

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 33.987°-117.134°

Logged by: VJR

Groundwater First Encountered (ft): 60.0

			90.	SAM	IPLES	TOC	E (%)	.WT.	0
DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	SAMPLE NO.	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
		(SM) Silty Sand, fine to medium, gravel, light brown	Native	X		4 4 4			SPT
- 5 -	-	(SP-SM) Sand, fine to coarse with silt, gravel, brown	-	X		5 7 10			SPT
- 10 -	-	(SM) Silty Sand, fine with medium, clay, brown		X		5 8 13			SPT
- 15 -				X		6 9 13			SPT
- 20 -				X		6 10 18			SPT
25 -		(SM) Silty Sand, fine to medium, clay, brown							
25 - 25 - 30 -		(SM) Sitty Sand, time to medium, clay, brown		X		9 15 19			SPT

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No.

Enclosure B-4a

09631-8

### MONITORING WELL NO. MW-4

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 33.987°-117.134°

Logged by: VJR

Groundwater First Encountered (ft): 60.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	SAMPLE NO.	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
DE	EDC TCC		SA	DR	BU	J.B.	FIE	DR (pc	LA
- 40 -			-	X		10 20 26			SPT
45 -		(SM) Silty Sand, fine, gray brown							
50 -				X		8 14 28			SPT
55 -		(ML) Sandy Silt, fine with clay, brown							
60 -			Groundwate	er		9 16 24			SPT
65 -									

C.H.J.

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-4b

### MONITORING WELL NO. MW-4

Date Drilled: 11/18/09

Client:

Equipment: B-61 Hollow-Stem Auger

Driving Weight / Drop: 140 lbs./30 in.

Coordinates: 33.987°-117.134°

Logged by: VJR

Groundwater First Encountered (ft): 60.0

DEPTH (ft)	GRAPHIC	VISUAL CLASSIFICATION	8	SAMPLE NO.	DRIVE	BULK	BLOWS/FOO (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD
		7 m - 7	· · · · ·		×		45 50/3"			SPT
75 -										
80.							14 27 46			SPT
85 -		END OF BORING  REFUSAL AT 81.5', NO BEDROCK NO FILL, SLIGHT CAVING PERCHED LAYER OF GROUNDWATER ENCOUNTERED AT 60.0'		Refusal			46			
90 -										
95 -										
100 -										

WELLS - SAN TIMOTEO & LIVE OAK CANYONS RIVERSIDE COUNTY, CALIFORNIA

Job No. 09631-8 Enclosure B-4c

hen 107

"The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In a Well Completion Report Page 1 of 2 Owner's Well Number No. e0115380 N W te Work Began 07/29/2010 Date Work Ended 8/4/2010 al Permit Agency San Bernardino Department of Public Health Permit Number 7010070342 Permit Date 7/23/10 Geologic Log 是或wared by the second Well Owner Orientation @ Vertical O Horizontal OAngle Specify. Drilling Fluid Fresh Water Drilling Method Reverse Rotary Depth from Surface : Describe material, grain size, color, etc Mailing Address **经投资。** City State CA. 35 90 Sand Gravel Well Location 90 120 Sand Clay Address San Timoteo Canyon Road 120 200 Sand Gravel County San Bernardino City Yucaipa 200 250 Sand Gravel Clay Latitude N Longitude 250 310 Sand Gravel Min. 310 340 Decimal Lat. Decimal Long. Sand Gravel Clay APN Book 0175 Page 221 Parcel 06 340 417 Sand Gravel Township 25 Range 3W Section 4 Location Sketch Activity (Sketch must be drawn by hand after form is printed.) New Well North O Modification/Repair O Deepen O Other\_ Destroy Describe procedures and under "GEOLOGIC LOG Planned Uses BARTON O Water Supply ☐ Domestic ☐ Public City ☐ Irrigation ☐ Industrial O Cathodic Protection 5 miles O Dewatering O Heat Exchange O Injection 空稿 合作 Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction 42 O Other Water Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static (Feet) Date Measured Water Level Total Depth of Boring 417 Feet Estimated Yield.\* -(GPM) Test Type Test Length \_ (Hours) Total Drawdown A Total Depth of Completed Well 415 12 Feet \*May not be representative of a well's long term yield. Casings Annular Material Diameter Type Depth from Wall Outside Slot Size Depth from Screen Material Surface Thickness Dismeter If Any Surface Type Description (Inches) Feet to Feel (Inches) (Inches) (Inches) Feet to Fee 35 Low Carbon Steel .250 0 Filter Pack 8x16 Midcal 20 225 .214 340 17.5 Blank PVC Sch. 80 5 225 230 FIII Sand 340 360 17.5 PVC Sch. 80 .214 0.050 Screen 5 230 250 Bentonite Seal 17.5 Blank 1 PVC Sch. 80 n 285 .214 5 250 255 Fill Sand 285 305 17.5 Screen PVC Sch. 80 .214 0.050 Filter Pack 5 255 310 8x16 Gravel 17.7 Blank PVC Sch. 80 .214 120 310 5 315 Fill Sand Attachments 的於使物 Certification Statement I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name Bakersfield Well & Pump Co. ☐ Geologic Log ☐ Well Construction Diagram Person, Firm or Corporation Geophysical Log(s) 7212 Fruitvale Ave Bakersfield 93308 ☐ Soll/Water Chemical Analyses Other . 8/20/2010 440537 C-57 Licensed Water Well Contractor tach additional information, if it exists. Date Signed C-57 License Number

VR 188 REV. 1/2006

ermit Number 70	of 2 per	Department Permit Date	of Public I	Refer to No. 8/4/20 lealth	<b>e011538</b> 010	on Repo	_[		Statitude	tto Well Numb	
	Geolo			地域語	間處明和數	<b>科科的</b>	<b>明明,郭明</b>	<b>进制组织</b>	# Wel	Owner :	<b>在1000年的日本中的</b>
Orientation Drilling Method 'Re			OAngle	Specify		Name.					At .
Denth from Sur	and the second	Descr	Drilling Fluid	Fresn	water	Mailing	Address .				
Feet to Fee	ace t Des	scribe material, g	rain size, coi	or, etc		City.				State	CA. Zip 92399
35 90	Sand Gravel					域等的產品		And the	Well	Location	<b>在原理的</b> 直接上现实表现
90 120	Sand Clay						San Tim				THE PARTY OF THE P
120 200	Sand Gravel						caipa				y San Bernardino
200 250	Sand Gravel	Clay				Latitude			ac	N Longitude	
250 310	Sand Gravel					11	Deg.	Min.	Sec.		Deg. Min. Sec.
310 340	Sand Gravel	Clay				Datum_		Decima			Decimal Long.
340 417	Sand Gravel					The second second	ok_0175	_ Pag	e 221	F	Parcel 06
						Townsh	ip <u>2S</u> Locat		e <u>3W</u>		Section 4
Total Depth of Bo	ring 417					Mutuals or de Press be av Press be av Water L Depth to Water L Estimate Test Lei	o first water o Static evel ed Yield *	Yleid	(Fee	pleted We	pe(Feet)
	<b>新的比较级的特殊</b>	Casin	gs	海南縣	智能論語	<b>新沙田</b> 加州	<b>建筑建设</b>	20.000	7900	Annular	Material
	Borehole Diameter Type	Materia	i V	Vall	Outside	Screen	Slot Size	Dept	th from		22.00
Lagt in Loof	(IIICHES)	- E	(in	ches)	(inches)	Туре	if Any (Inches)	Feet	rface to Feet	Fill	Description
120 140	17.5 Screen	PVC Sch. 80	.21	4	5		0.050	315	330	Bentonite	Seal
		100		-	-		-	330	335	Fill	Sand
	# . %	-		-			-	335	415	Filter Pack	8x16 Midcal
	The second							-	1		-
	75 M.C.							-			
	Attachments	CHARLES CONTRACTOR	STEKETA W	ASSESSED FOR	100 4500	(图字(A) ************************************	Cortificati	on Sta	tement	Contractor	
Geologic L Well Cons Geophysic	og truction Diagram al Log(s) Chemical Analyses		, the under Name <u>Bak</u> 7212 Fru	ersfiel erson, Fi	certify the d Well 8 m or Corpor Ave	at this report	t is comple	e and a	ccurate	CA State	f my knowledge and belief

## Appendix 3-B

Monitoring Forms and Protocols

#### WATER-LEVEL MEASUREMENT FIELD FORM

Date (YYYY/MM/DD):	Site ID:
Well Type: Production / Monitoring / Private	Measuring Agency/Entity:
Well Pumping?	Is Water Level Static?
Method of Water Level Measurement (see below):	Site Status (see below):
Measuring Equipment ID:	Measuring Point Elevation (ft NAVD88):

#### **WATER LEVEL DATA**

	,		,	
Time of Measurement				
Measurement (feet)				
Tape Correction (feet)				
Water Level below MP (feet)				
Measuring Point Correction				
Water Level below Land Surface				
Water Elevation (ft NAVD88)				

Measured by: Comments:\*

Site Status: D = dry; O = obstructed; P = pumping; R = recently pumped and recovering; NP = nearby pumping; V = foreign substance; WD = well destroyed; SW = surface water effects; Z = other; S = Static

Method of Water Level Measurement: A = airline; B = analog; C = calibrated airline; E = estimated; G = pressure gauge; H = calibrated pressure gage; M = manometer; R = reported; S = steel tape; T = electric tape; V = calibrated electric tape; Z = other.

NOTES:

<sup>\*</sup>Comments should include quality concerns and changes that affect the representativeness of the measurements (e.g., changes in MP elevation, ownership, well operations, access to measure DTW, etc.)

#### Measuring Protocol:

- 1 Check circuitry of electrical tape before lowering the probe into the well by dipping probe into tap water.
- 2 Make all readings using the same indicator for consistency (light intensity or sound).
- Lower electrode probe slowly into the well until the indicator shows that the circuit is closed and contact with the water surface is made. Place the nail of the index finger on the insulated wire at the MP (Measuring Point) and read the depth-to-water.
- Record time of measurement. Record depth to water in the row "Measurement (feet)". If the tape has been repaired and spliced or has a calibration correction, subtract the "Tape Correction" value from the "Measurement" value and record the difference in the row "Water Level below MP".
- Pull the tape up and make a check measurement by repeating steps 3-4. Record the check measurement in column 2. If check measurement does not agree with the original measurement within 0.02 foot, continue to make measurements until the reason of lack of agreement is determined or the results are shown to be reliable. If more than 2 measurements are made, use best judgment to select measurement most representative of field conditions.
- 6 Disinfect and rinse that part of tape that was submerged below water. Dry tape and rewind.

#### Format instructions and notes:

Site ID: Well identified or State Well No.

MP: measuring point

ft NAVD88: feet above the National Vertical Datum of 1988.

Measuring Equipment ID: serial number or identifier of measuring equipment

2021/08/21

### **WELL PRODUCTION RECORD**

Date	Time	Well ID	Totalizer Reading (Gallons)	Instantaneous Pumping Rate (GPM)	Estimated Pumping Rate (GPM)	Model and Make of Totalizer

### **WATER QUALITY FIELD FORM**

Date (YYYY/MM/DE	<b>)</b> ):			Site ID:						
Well Type: Product	ion / Monitoring / Privat	e		Measuring Agency/Entity:						
Well Pumping? If so, how long?				Is Initial Water Level	Static?					
Method of Well Pur	ging (see below):			Site Status (see belo	w):					
Purging Equipment	ID:			Water Quality Meter	ID:					
				,						
Purge Volume Calc	ulation:			-						
[A] Total depth of w	ell casing (ft bls):			[C] Well Casing Insid	e Diameter (inches):					
[B] Static depth to w	ater, if not pumping (ft	bls):		[D] Length of Water (	Column, [A] - [B] (ft):					
Purge Volume (3 Ca	asing Volumes), ([D] * π	:/4 * ([C]/12) <sup>2</sup> ) * 3 =								
WATER QUALITY PARAMETERS										
Time	Purge Rate	Temperature (°C)	рН	Conductivity	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)			
Measured by:			Comments:*							

Page 1 of 2

### WATER QUALITY FIELD FORM

\*Comments should include quality concerns and changes that affect the representativeness of the measurements (e.g., changes in pump placement, ownership, well operations, access to sampling port, etc.)

Site Status: D = dry; O = obstructed; P = pumping; R = recently pumped and recovering; NP = nearby pumping; V = foreign substance; WD = well destroyed; SW = surface water effects; Z = other; S = Static

Method of Well Purging: B = bailer; D = dedicated submersible pump; P = portable submersible pump; T = dedicated turbine pump; S = peristaltic pump.

#### NOTES:

#### Purging and Sampling Protocol:

- If the well has a dedicated pump and it is operating, ensure that it has been operating consistently and at least three (3) casing volumes have been pumped. If not, note pumping rate and time to purge 3 casing volumes before collecting representative samples. Measure and record water quality parameters through purging process.
- If the well does not have a dedicate pump, then use purging equipment (e.g., portable submersible pump, bailer) to purge well. If using a portable submersible pump, lower pump to depth (consistent with previous smapling events) that ensures pump will not draw water level down to intake and, if possible, is positioned above the top of the well screen.
- Ensure that portable purging equipment is properly decontaminated prior to use. Any decontamination must be documented (e.g., material used to decontaminate equipment, rinsing method, containment of waste, waste disposal).
- Measure and/or record purge rate periodically. Collect purge sample to measure parameters periodically. Parameters should stablize (within 10% of previous three readings) before collecting the water quality sample.
- Use the appropriate sample containers provided by the analytical laboratory. Sample containers shoud be labeled prior to sample collection. The sample label should include: Sample ID (often well ID), sample date and time of collection, sampling personnel, preservative used (if any), and the analytical method to be used on the sample.
- All samples should be preserved as soon as possible in an ice chest containing ice. The samples should be chilled and maintained at 4 °C.

Page 2 of 2

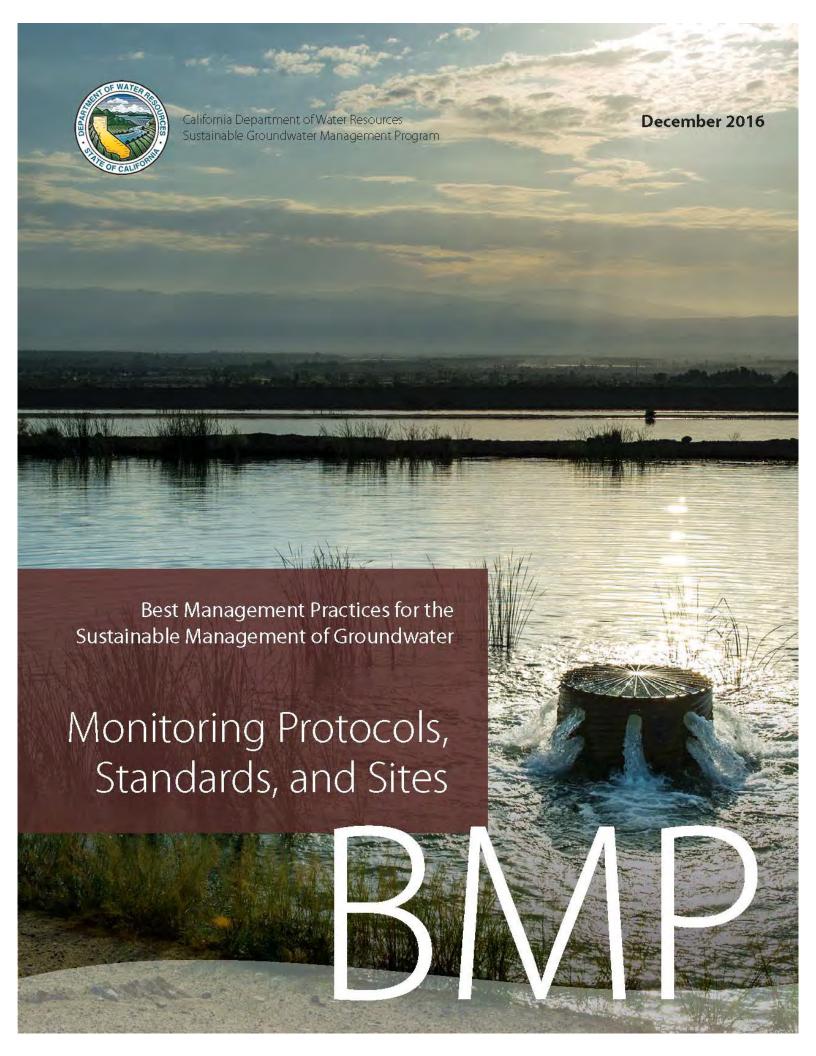
7 The Chain-of-Custory form should be filled out as the sample is collected and preserved.

Format instructions and notes:

Site ID: Well identifier or State Well No.

ft bls: feet below land surface

Purging Equipment ID/description: serial number or identifier of measuring equipment



### State of California Edmund G. Brown Jr., Governor

### California Natural Resources Agency John Laird, Secretary for Natural Resources

### Department of Water Resources Mark W. Cowin, Director

#### Carl A. Torgersen, Chief Deputy Director

Office of the Chief Counsel
Spencer Kenner
Ed Wilson
Government and Community Liaison
Anecita S. Agustinez
Office of Workforce Equality
Stephanie Varrelman
Public Affairs Office
Government and Community Liaison
Anecita S. Agustinez

Policy Advisor
Waiman Yip
Kasey Schimke, Ass't Dir.

Deputy Directors

Gary Bardini Integrated Water Management

William Croyle Statewide Emergency Preparedness and Security

Mark Anderson State Water Project

John Pacheco (Acting) California Energy Resources Scheduling

Kathie Kishaba Business Operations
Taryn Ravazzini Special Initiatives

Division of Integrated Regional Water Management

Arthur Hinojosa Jr., Chief

Prepared under the direction of:

**David Gutierrez**, Sustainable Groundwater Management Program Manager **Rich Juricich**, Sustainable Groundwater Management Branch

Prepared by:

Trevor Joseph, BMP Project Manager

Timothy Godwin
Dan McManus
Mark Nordberg
Heather Shannon
Steven Springhorn

With assistance from:

DWR Region Office Staff

# Groundwater Monitoring Protocols, Standards, and Sites Best Management Practice

### 1. OBJECTIVE

The objective of this *Best Management Practice* (BMP) is to assist in the development of Monitoring Protocols. The California Department of Water Resources (the Department or DWR) has developed this document as part of the obligation in the Technical Assistance chapter (Chapter 7) of the Sustainable Groundwater Management Act (SGMA) to support the long-term sustainability of California's groundwater *basins*. Information provided in this BMP provides technical assistance to Groundwater Sustainability Agencies (GSAs) and other stakeholders to aid in the establishment of consistent data collection processes and procedures. In addition, this BMP can be used by GSAs to adopt a set of sampling and measuring procedures that will yield similar data regardless of the monitoring personnel. Finally, this BMP identifies available resources to support the development of monitoring protocols.

This BMP includes the following sections:

- 1. <u>Objective</u>. A brief description of how and where monitoring protocols are required under SGMA and the overall objective of this BMP.
- 2. <u>Use and Limitations</u>. A brief description of the use and limitations of this BMP.
- 3. <u>Monitoring Protocol Fundamentals</u>. A description of the general approach and background of groundwater monitoring protocols.
- 4. <u>Relationship of Monitoring Protocols to other BMPs</u>. A description of how this BMP is connected with other BMPS.
- 5. <u>Technical Assistance</u>. Technical content providing guidance for regulatory sections.
- 6. <u>Key Definitions.</u> Descriptions of definitions identified in the GSP Regulations or SGMA.
- 7. <u>Related Materials</u>. References and other materials that provide supporting information related to the development of Groundwater Monitoring Protocols.

### 2. USE AND LIMITATIONS

BMPs developed by the Department provide technical guidance to GSAs and other stakeholders. Practices described in these BMPs do not replace the GSP Regulations, nor do they create new requirements or obligations for GSAs or other stakeholders. In addition, using this BMP to develop a GSP does not equate to an approval determination by the Department. All references to GSP Regulations relate to Title 23 of the California Code of Regulations (CCR), Division 2, Chapter 1.5, and Subchapter 2. All references to SGMA relate to California Water Code sections in Division 6, Part 2.74.

### 3. MONITORING PROTOCOL FUNDAMENTALS

Establishing data collection protocols that are based on best available scientific methods is essential. Protocols that can be applied consistently across all basins will likely yield comparable data. Consistency of data collection methods reduces uncertainty in the comparison of data and facilitates more accurate communication within basins as well as between basins.

Basic minimum technical standards of accuracy lead to quality data that will better support implementation of GSPs.

### 4. RELATIONSHIP OF MONITORING PROTOCOL TO OTHER BMPS

Groundwater monitoring is a fundamental component of SGMA, as each GSP must include a sufficient network of data that demonstrates measured progress toward the achievement of the sustainability goal for each basin. For this reason, a standard set of protocols need to be developed and utilized.

It is important that data is developed in a manner consistent with the basin setting, planning, and projects/management actions steps identified on **Figure 1** and the GSP Regulations. The inclusion of monitoring protocols in the GSP Regulations also emphasizes the importance of quality empirical data to support GSPs and provide comparable information from basin to basin.

**Figure 1** provides a logical progression for the development of a GSP and illustrates how monitoring protocols are linked to other related BMPs. This figure also shows the context of the BMPs as they relate to various steps to sustainability as outlined in the GSP Regulations. The monitoring protocol BMP is part of the Monitoring step identified in **Figure 1**.

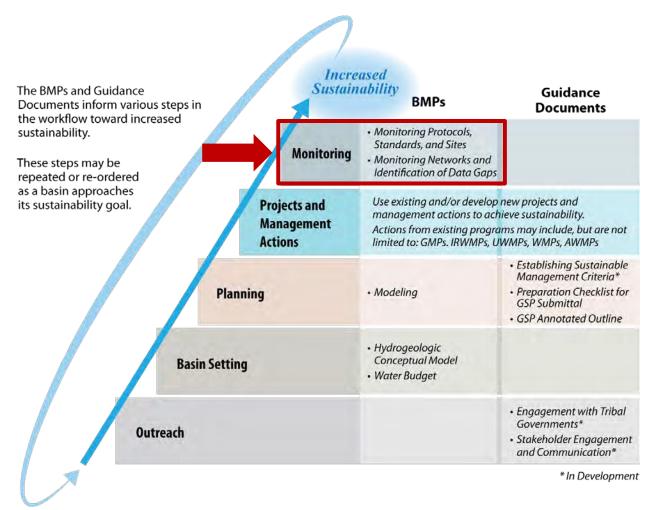


Figure 1 – Logical Progression of Basin Activities Needed to Increase Basin Sustainability

### 5. TECHNICAL ASSISTANCE

23 CCR §352.2. Monitoring Protocols. Each Plan shall include monitoring protocols adopted by the Agency for data collection and management, as follows:

- (a) Monitoring protocols shall be developed according to best management practices.
- (b) The Agency may rely on monitoring protocols included as part of the best management practices developed by the Department, or may adopt similar monitoring protocols that will yield comparable data.
- (c) Monitoring protocols shall be reviewed at least every five years as part of the periodic evaluation of the Plan, and modified as necessary.

The GSP Regulations specifically call out the need to utilize protocols identified in this BMP, or develop similar protocols. The following technical protocols provide guidance based upon existing professional standards and are commonly adopted in various groundwater-related programs. They provide clear techniques that yield quality data for use in the various components of the GSP. They can be further elaborated on by individual GSAs in the form of standard operating procedures which reflect specific local requirements and conditions. While many methodologies are suggested in this BMP, it should be understood that qualified professional judgment should be used to meet the specific monitoring needs.

The following BMPs may be incorporated into a GSP's monitoring protocols section for collecting groundwater elevation data. A GSP that adopts protocols that deviate from these BMPs must demonstrate that they will yield comparable data.

#### PROTOCOLS FOR ESTABLISHING A MONITORING PROGRAM

The protocol for establishment of a monitoring program should be evaluated in conjunction with the *Monitoring Network and Identification of Data Gaps* BMP and other BMPs. Monitoring protocols must take into consideration the *Hydrogeologic Conceptual Model, Water Budget, and Modeling* BMPs when considering the data needs to meet GSP objectives and the sustainability goal.

It is suggested that each GSP incorporate the Data Quality Objective (DQO) process following the U.S. EPA *Guidance on Systematic Planning Using the Data Quality Objectives Process* (EPA, 2006). Although strict adherence to this method is not required, it does provide a robust approach to consider and assures that data is collected with a specific purpose in mind, and efforts for monitoring are as efficient as possible to achieve the objectives of the GSP and compliance with the GSP Regulations.

The DQO process presents a method that can be applied directly to the sustainability criteria quantitative requirements through the following steps.

- 1. State the problem Define sustainability indicators and planning considerations of the GSP and sustainability goal.
- 2. Identify the goal Describe the quantitative measurable objectives and minimum thresholds for each of the sustainability indicators.
- 3. Identify the inputs Describe the data necessary to evaluate the sustainability indicators and other GSP requirements (i.e. water budget).
- 4. Define the boundaries of the study This is commonly the extent of the Bulletin 118 groundwater basin or subbasin, unless multiple GSPs are prepared for a given basin. In that case, evaluation of the coordination plan and specifically how the monitoring will be comparable and meet the sustainability goals for the entire basin.
- 5. Develop an analytical approach Determine how the quantitative sustainability indicators will be evaluated (i.e. are special analytical methods required that have specific data needs).
- 6. Specify performance or acceptance criteria Determine what quality the data must have to achieve the objective and provide some assurance that the analysis is accurate and reliable.
- 7. Develop a plan for obtaining data Once the objectives are known determine how these data should be collected. Existing data sources should be used to the greatest extent possible.

These steps of the DQO process should be used to guide GSAs to develop the most efficient monitoring process to meet the measurable objectives of the GSP and the sustainability goal. The DQO process is an iterative process and should be evaluated regularly to improve monitoring efficiencies and meet changing planning and project needs. Following the DQO process, GSAs should also include a data quality control and quality assurance plan to guide the collection of data.

Many monitoring programs already exist as part of ongoing groundwater management or other programs. To the extent possible, the use of existing monitoring data and programs should be utilized to meet the needs for characterization, historical record documentation, and continued monitoring for the SGMA program. However, an evaluation of the existing monitoring data should be performed to assure the data being collected meets the DQOs, regulatory requirements, and data collection protocol described in this BMP. While this BMP provides guidance for collection of various

regulatory based requirements, there is flexibility among the various methodologies available to meet the DQOs based upon professional judgment (local conditions or project needs).

At a minimum, for each monitoring site, the following information or procedure should be collected and documented:

- Long-term access agreements. Access agreements should include year-round site access to allow for increased monitoring frequency.
- A unique identifier that includes a general written description of the site location, date established, access instructions and point of contact (if necessary), type of information to be collected, latitude, longitude, and elevation. Each monitoring location should also track all modifications to the site in a modification log.

#### PROTOCOLS FOR MEASURING GROUNDWATER LEVELS

This section presents considerations for the methodology of collection of groundwater level data such that it meets the requirements of the GSP Regulations and the DQOs of the specific GSP. Groundwater levels are a fundamental measure of the status of groundwater conditions within a basin. In many cases, relationships of the sustainability indicators may be able to be correlated with groundwater levels. The quality of this data must consider the specific aquifer being monitored and the methodology for collecting these levels.

The following considerations for groundwater level measuring protocols should ensure the following:

- Groundwater level data are taken from the correct location, well ID, and screen interval depth
- Groundwater level data are accurate and reproducible
- Groundwater level data represent conditions that inform appropriate basin management DQOs
- All salient information is recorded to correct, if necessary, and compare data
- Data are handled in a way that ensures data integrity

### **General Well Monitoring Information**

The following presents considerations for collection of water level data that include regulatory required components as well as those which are recommended.

- Groundwater elevation data will form the basis of basin-wide water-table and piezometric maps, and should approximate conditions at a discrete period in time. Therefore, all groundwater levels in a basin should be collected within as short a time as possible, preferably within a 1 to 2 week period.
- Depth to groundwater must be measured relative to an established Reference Point (RP) on the well casing. The RP is usually identified with a permanent marker, paint spot, or a notch in the lip of the well casing. By convention in open casing monitoring wells, the RP reference point is located on the north side of the well casing. If no mark is apparent, the person performing the measurement should measure the depth to groundwater from the north side of the top of the well casing.
- The elevation of the RP of each well must be surveyed to the North American Vertical Datum of 1988 (NAVD88), or a local datum that can be converted to NAVD88. The elevation of the RP must be accurate to within 0.5 foot. It is preferable for the RP elevation to be accurate to 0.1 foot or less. Survey grade global navigation satellite system (GNSS) global positioning system (GPS) equipment can achieve similar vertical accuracy when corrected. Guidance for use of GPS can be found at USGS <a href="http://water.usgs.gov/osw/gps/">http://water.usgs.gov/osw/gps/</a>. Hand-held GPS units likely will not produce reliable vertical elevation measurement accurate enough for the casing elevation consistent with the DQOs and regulatory requirements.
- The sampler should remove the appropriate cap, lid, or plug that covers the monitoring access point listening for pressure release. If a release is observed, the measurement should follow a period of time to allow the water level to equilibrate.
- Depth to groundwater must be measured to an accuracy of 0.1 foot below the RP. It is preferable to measure depth to groundwater to an accuracy of 0.01 foot. Air lines and acoustic sounders may not provide the required accuracy of 0.1 foot.
- The water level meter should be decontaminated after measuring each well.

Where existing wells do not meet the base standard as described in the GSP Regulations or the considerations provided above, new monitoring wells may need to be constructed to meet the DQOs of the GSP. The design, installation, and documentation of new monitoring wells must consider the following:

- Construction consistent with California Well Standards as described in Bulletins 74-81 and 74-90, and local permitting agency standards of practice.
- Logging of borehole cuttings under the supervision of a California Professional Geologist and described consistent with the Unified Soil Classification System methods according to ASTM standard D2487-11.
- Written criteria for logging of borehole cuttings for comparison to known geologic formations, principal aquifers and aquitards/aquicludes, or specific marker beds to aid in consistent stratigraphic correlation within and across basins.
- Geophysical surveys of boreholes to aid in consistency of logging practices.
   Methodologies should include resistivity, spontaneous potential, spectral
   gamma, or other methods as appropriate for the conditions. Selection of
   geophysical methods should be based upon the opinion of a professional
   geologist or professional engineer, and address the DQOs for the specific
   borehole and characterization needs.
- Prepare and submit State well completion reports according to the requirements
  of §13752. Well completion report documentation should include geophysical
  logs, detailed geologic log, and formation identification as attachments. An
  example well completion as-built log is illustrated in Figure 2. DWR well
  completion reports can be filed directly at the Online System for Well
  Completion Reports (OSWCR) <a href="http://water.ca.gov/oswcr/index.cfm">http://water.ca.gov/oswcr/index.cfm</a>.

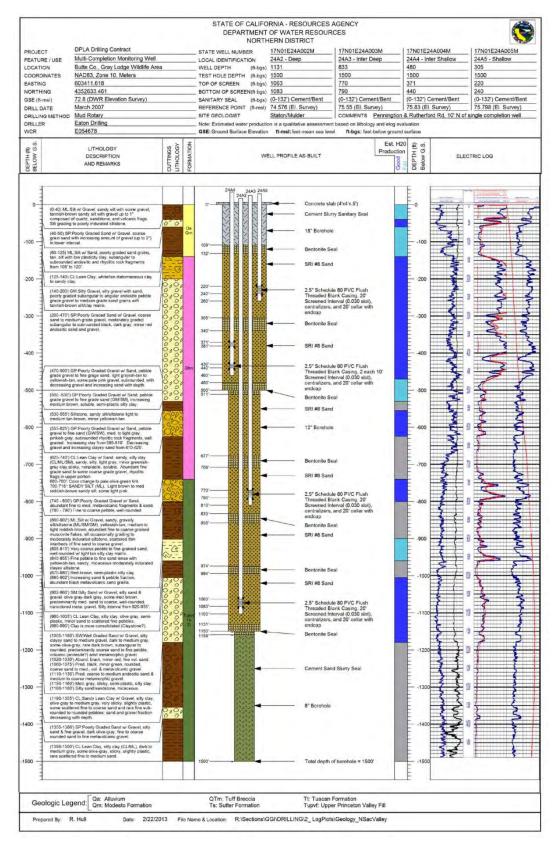


Figure 2 – Example As-Built Multi-Completion Monitoring Well Log

## **Measuring Groundwater Levels**

Well construction, anticipated groundwater level, groundwater level measuring equipment, field conditions, and well operations should be considered prior collection of the groundwater level measurement. The USGS *Groundwater Technical Procedures* (Cunningham and Schalk, 2011) provide a thorough set of procedures which can be used to establish specific Standard Operating Procedures (SOPs) for a local agency. **Figure 3** illustrates a typical groundwater level measuring event and simultaneous pressure transducer download.



Figure 3 - Collection of Water Level Measurement and Pressure Transducer Download

The following points provide a general approach for collecting groundwater level measurements:

- Measure depth to water in the well using procedures appropriate for the measuring device. Equipment must be operated and maintained in accordance with manufacturer's instructions. Groundwater levels should be measured to the nearest 0.01 foot relative to the RP.
- For measuring wells that are under pressure, allow a period of time for the groundwater levels to stabilize. In these cases, multiple measurements should be collected to ensure the well has reached equilibrium such that no significant changes in water level are observed. Every effort should be made to ensure that a representative stable depth to groundwater is recorded. If a well does not stabilize, the quality of the value should be appropriately qualified as a

questionable measurement. In the event that a well is artesian, site specific procedures should be developed to collect accurate information and be protective of safety conditions associated with a pressurized well. In many cases, an extension pipe may be adequate to stabilize head in the well. Record the dimension of the extension and document measurements and configuration.

• The sampler should calculate the groundwater elevation as:

$$GWE = RPE - DTW$$

Where:

GWE = Groundwater Elevation RPE = Reference Point Elevation DTW = Depth to Water

The sampler must ensure that all measurements are in consistent units of feet, tenths of feet, and hundredths of feet. Measurements and RPEs should not be recorded in feet and inches.

## **Recording Groundwater Levels**

- The sampler should record the well identifier, date, time (24-hour format), RPE, height of RP above or below ground surface, DTW, GWE, and comments regarding any factors that may influence the depth to water readings such as weather, nearby irrigation, flooding, potential for tidal influence, or well condition. If there is a questionable measurement or the measurement cannot be obtained, it should be noted. An example of a field sheet with the required information is shown in **Figure 4**. It includes questionable measurement and no measurement codes that should be noted. This field sheet is provided as an example. Standardized field forms should be used for all data collection. The aforementioned USGS *Groundwater Technical Procedures* offers a number of example forms.
- The sampler should replace any well caps or plugs, and lock any well buildings or covers.
- All data should be entered into the GSA data management system (DMS) as soon as possible. Care should be taken to avoid data entry mistakes and the entries should be checked by a second person for compliance with the DQOs.

# STATE OF CALIFORNA THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES

### **WELL DATA**

5	STATE WELL NUMBER					COUNTY		REFERENCE POINT ELEV.	MEASURING AGENC
									DWR
NO MEASUREMENT  D. Measurement discontinued  Pumping Pump house locked The street in casing T							QUESTIONABLE MEASUREMENT  0. Caved or deepened  1. Pumping  2. Nearby pump operating  3. Casing leaky or wet  4. Pumped recently  5. Air or pressure gauge measurement  6. Other  7. Recharge operation at or nearby well  8. Oil in casing		
DATE	N	Q	TAPE AT	TAPE AT	RP to WS	OBSR VR		COMMEN	TS
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Figure 4 – Example of Water Level Well Data Field Collection Form

### **Pressure Transducers**

Groundwater levels and/or calculated groundwater elevations may be recorded using pressure transducers equipped with data loggers installed in monitoring wells. When installing pressure transducers, care must be exercised to ensure that the data recorded by the transducers is confirmed with hand measurements.

The following general protocols must be followed when installing a pressure transducer in a monitoring well:

- The sampler must use an electronic sounder or chalked steel tape and follow the protocols listed above to measure the groundwater level and calculate the groundwater elevation in the monitoring well to properly program and reference the installation. It is recommended that transducers record measured groundwater level to conserve data capacity; groundwater elevations can be calculated at a later time after downloading.
- The sampler must note the well identifier, the associated transducer serial number, transducer range, transducer accuracy, and cable serial number.
- Transducers must be able to record groundwater levels with an accuracy of at least 0.1 foot. Professional judgment should be exercised to ensure that the data being collected is meeting the DQO and that the instrument is capable. Consideration of the battery life, data storage capacity, range of groundwater level fluctuations, and natural pressure drift of the transducers should be included in the evaluation.
- The sampler must note whether the pressure transducer uses a vented or nonvented cable for barometric compensation. Vented cables are preferred, but nonvented units provide accurate data if properly corrected for natural barometric pressure changes. This requires the consistent logging of barometric pressures to coincide with measurement intervals.
- Follow manufacturer specifications for installation, calibration, data logging intervals, battery life, correction procedure (if non-vented cables used), and anticipated life expectancy to assure that DQOs are being met for the GSP.
- Secure the cable to the well head with a well dock or another reliable method. Mark the cable at the elevation of the reference point with tape or an indelible marker. This will allow estimates of future cable slippage.
- The transducer data should periodically be checked against hand measured groundwater levels to monitor electronic drift or cable movement. This should happen during routine site visits, at least annually or as necessary to maintain data integrity.

• The data should be downloaded as necessary to ensure no data is lost and entered into the basin's DMS following the QA/QC program established for the GSP. Data collected with non-vented data logger cables should be corrected for atmospheric barometric pressure changes, as appropriate. After the sampler is confident that the transducer data have been safely downloaded and stored, the data should be deleted from the data logger to ensure that adequate data logger memory remains.

## PROTOCOLS FOR SAMPLING GROUNDWATER QUALITY

The following protocols can be incorporated into a GSP's monitoring protocols for collecting groundwater quality data. More detailed sampling procedures and protocols are included in the standards and guidance documents listed at the end of this BMP. A GSP that adopts protocols that deviate from these BMPs must demonstrate that the adopted protocols will yield comparable data.

In general, the use of existing water quality data within the basin should be done to the greatest extent possible if it achieves the DQOs for the GSP. In some cases it may be necessary to collect additional water quality data to support monitoring programs or evaluate specific projects. The USGS *National Field Manual for the Collection of Water Quality Data* (Wilde, 2005) should be used to guide the collection of reliable data. **Figure 5** illustrates a typical groundwater quality sampling setup.



Figure 5 – Typical Groundwater Quality Sampling Event

All analyses should be performed by a laboratory certified under the State Environmental Laboratory Accreditation Program. The specific analytical methods are beyond the scope of this BMP, but should be commiserate with other programs evaluating water quality within the basin for comparative purposes.

## Groundwater quality sampling protocols should ensure that:

- Groundwater quality data are taken from the correct location
- Groundwater quality data are accurate and reproducible
- Groundwater quality data represent conditions that inform appropriate basin management and are consistent with the DQOs
- All salient information is recorded to normalize, if necessary, and compare data
- Data are handled in a way that ensures data integrity

The following points are general guidance in addition to the techniques presented in the previously mentioned USGS *National Field Manual for the Collection of Water Quality Data*.

## Standardized protocols include the following:

- Prior to sampling, the sampler must contact the laboratory to schedule laboratory time, obtain appropriate sample containers, and clarify any sample holding times or sample preservation requirements.
- Each well used for groundwater quality monitoring must have a unique identifier. This identifier must appear on the well housing or the well casing to avoid confusion.
- In the case of wells with dedicated pumps, samples should be collected at or near the wellhead. Samples should not be collected from storage tanks, at the end of long pipe runs, or after any water treatment.
- The sampler should clean the sampling port and/or sampling equipment and the sampling port and/or sampling equipment must be free of any contaminants. The sampler must decontaminate sampling equipment between sampling locations or wells to avoid cross-contamination between samples.
- The groundwater elevation in the well should be measured following appropriate protocols described above in the groundwater level measuring protocols.
- For any well not equipped with low-flow or passive sampling equipment, an adequate volume of water should be purged from the well to ensure that the groundwater sample is representative of ambient groundwater and not stagnant water in the well casing. Purging three well casing volumes is generally

considered adequate. Professional judgment should be used to determine the proper configuration of the sampling equipment with respect to well construction such that a representative ambient groundwater sample is collected. If pumping causes a well to be evacuated (go dry), document the condition and allow well to recover to within 90% of original level prior to sampling. Professional judgment should be exercised as to whether the sample will meet the DQOs and adjusted as necessary.

- Field parameters of pH, electrical conductivity, and temperature should be collected for each sample. Field parameters should be evaluated during the purging of the well and should stabilize prior to sampling. Measurements of pH should only be measured in the field, lab pH analysis are typically unachievable due to short hold times. Other parameters, such as oxidation-reduction potential (ORP), dissolved oxygen (DO) (in situ measurements preferable), or turbidity, may also be useful for meeting DQOs of GSP and assessing purge conditions. All field instruments should be calibrated daily and evaluated for drift throughout the day.
- Sample containers should be labeled prior to sample collection. The sample label must include: sample ID (often well ID), sample date and time, sample personnel, sample location, preservative used, and analytes and analytical method.
- Samples should be collected under laminar flow conditions. This may require reducing pumping rates prior to sample collection.
- Samples should be collected according to appropriate standards such as those listed in the *Standard Methods for the Examination of Water and Wastewater*, USGS *National Field Manual for the Collection of Water Quality Data*, or other appropriate guidance. The specific sample collection procedure should reflect the type of analysis to be performed and DQOs.
- All samples requiring preservation must be preserved as soon as practically
  possible, ideally at the time of sample collection. Ensure that samples are
  appropriately filtered as recommended for the specific analyte. Entrained solids
  can be dissolved by preservative leading to inconsistent results of dissolve
  analytes. Specifically, samples to be analyzed for metals should be field-filtered
  prior to preservation; do not collect an unfiltered sample in a preserved
  container.
- Samples should be chilled and maintained at 4 °C to prevent degradation of the sample. The laboratory's Quality Assurance Management Plan should detail appropriate chilling and shipping requirements.

- Samples must be shipped under chain of custody documentation to the appropriate laboratory promptly to avoid violating holding time restrictions.
- Instruct the laboratory to use reporting limits that are equal to or less than the applicable DQOs or regional water quality objectives/screening levels.

## Special protocols for low-flow sampling equipment

In addition to the protocols listed above, sampling using low-flow sample equipment should adopt the following protocols derived from EPA's Low-flow (minimal drawdown) ground-water sampling procedures (Puls and Barcelona, 1996). These protocols apply to low-flow sampling equipment that generally pumps between 0.1 and 0.5 liters per minute. These protocols are not intended for bailers.

## Special protocols for passive sampling equipment

In addition to the protocols listed above, passive diffusion samplers should follow protocols set forth in <u>USGS Fact Sheet 088-00</u>.

#### PROTOCOLS FOR MONITORING SEAWATER INTRUSION

Monitoring seawater intrusion requires analysis of the chloride concentrations within groundwater of each principal aquifer subject to seawater intrusion. While no significant standardized approach exists, the methodologies described above for degraded water quality can be applied for the collection of groundwater samples. In addition to the protocol described above, the following protocols should be followed:

- Water quality samples should be collected and analyzed at least semi-annually. Samples will be analyzed for dissolved chloride at a minimum. It may be beneficial to include analyses of iodide and bromide to aid in determination of salinity source. More frequent sampling may be necessary to meet DQOs of GSP. The development of surrogate measures of chloride concentration may facilitate cost-effective means to monitor more frequently to observe the range of conditions and variability of the flow dynamics controlling seawater intrusion.
- Groundwater levels will be collected at a frequency adequate to characterize changes in head in the vicinity of the leading edge of degraded water quality in each principal aquifer. Frequency may need to be increased in areas of known preferential pathways, groundwater pumping, or efficacy evaluation of mitigation projects.
- The use of geophysical surveys, electrical resistivity, or other methods may provide for identification of preferential pathways and optimize monitoring well placement and evaluation of the seawater intrusion front. Professional judgment

should be exercised to determine the appropriate methodology and whether the DQOs for the GSP would be met.

#### PROTOCOLS FOR MEASURING STREAMFLOW

Monitoring of streamflow is necessary for incorporation into water budget analysis and for use in evaluation of stream depletions associated with groundwater extractions. The use of existing monitoring locations should be incorporated to the greatest extent possible. Many of these streamflow monitoring locations currently follow the protocol described below.

Establishment of new streamflow discharge sites should consider the existing network and the objectives of the new location. Professional judgment should be used to determine the appropriate permitting that may be necessary for the installation of any monitoring locations along surface water bodies. Regular frequent access will be necessary to these sites for the development of ratings curves and maintenance of equipment.

To establish a new streamflow monitoring station special consideration must be made in the field to select an appropriate location for measuring discharge. Once a site is selected, development of a relationship of stream stage to discharge will be necessary to provide continuous estimates of streamflow. Several measurements of discharge at a variety of stream stages will be necessary to develop the ratings curve correlating stage to discharge. The use of Acoustic Doppler Current Profilers (ADCPs) can provide accurate estimates of discharge in the correct settings. Professional judgment must be exercised to determine the appropriate methodology. Following development of the ratings curve a simple stilling well and pressure transducer with data logger can be used to evaluate stage on a frequent basis. A simple stilling well and staff gage is illustrated in **Figure 6**.

Streamflow measurements should be collected, analyzed, and reported in accordance with the procedures outlined in USGS Water Supply Paper 2175, *Volume 1. – Measurement of Stage Discharge* and *Volume 2. – Computation of Discharge*. This methodology is currently being used by both the USGS and DWR for existing streamflow monitoring throughout the State.



Figure 6 – Simple Stilling Well and Staff Gage Setup

#### PROTOCOLS FOR MEASURING SUBSIDENCE

Evaluating and monitoring inelastic land subsidence can utilize multiple data sources to evaluate the specific conditions and associated causes. To the extent possible, the use of existing data should be utilized. Subsidence can be estimated from numerous techniques, they include: level surveying tied to known stable benchmarks or benchmarks located outside the area being studied for possible subsidence; installing and tracking changes in borehole extensometers; obtaining data from continuous GPS (CGPS) locations, static GPS surveys or Real-Time-Kinematic (RTK) surveys; or analyzing Interferometric Synthetic Aperture Radar (InSAR) data. No standard procedures exist for collecting data from the potential subsidence monitoring approaches. However, an approach may include:

- Identification of land subsidence conditions.
  - o Evaluate existing regional long-term leveling surveys of regional infrastructure, i.e. roadways, railroads, canals, and levees.
  - o Inspect existing county and State well records where collapse has been noted for well repairs or replacement.
  - Determine if significant fine-grained layers are present such that the potential for collapse of the units could occur should there be significant depressurization of the aquifer system.

- o Inspect geologic logs and the hydrogeologic conceptual model to aid in identification of specific units of concern.
- Collect regional remote-sensing information such as InSAR, commonly provided by USGS and NASA. Data availability is currently limited, but future resources are being developed.
- Monitor regions of suspected subsidence where potential exists.
  - o Establish CGPS network to evaluate changes in land surface elevation.
  - o Establish leveling surveys transects to observe changes in land surface elevation.
  - Establish extensometer network to observe land subsidence. An example
    of a typical extensometer design is illustrated in Figure 7. There are a
    variety of extensometer designs and they should be selected based on the
    specific DQOs.

Various standards and guidance documents for collecting data include:

- Leveling surveys must follow surveying standards set out in the California Department of Transportation's Caltrans Surveys Manual.
- GPS surveys must follow surveying standards set out in the California Department of Transportation's Caltrans Surveys Manual.
- USGS has been performing subsidence surveys within several areas of California. These studies are sound examples for appropriate methods and should be utilized to the extent possible and where available:
  - o <a href="http://ca.water.usgs.gov/land-subsidence/california-subsidence-measuring.html">http://ca.water.usgs.gov/land-subsidence/california-subsidence-measuring.html</a>
- Instruments installed in borehole extensometers must follow the manufacturer's instructions for installation, care, and calibration.
- Availability of InSAR data is improving and will increase as programs are developed. This method requires expertise in analysis of the raw data and will likely be made available as an interpretative report for specific regions.

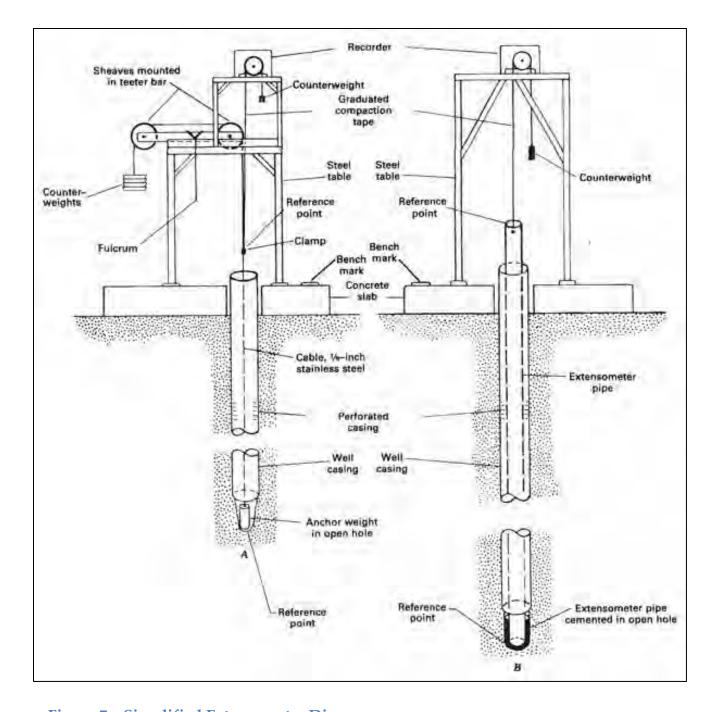


Figure 7 – Simplified Extensometer Diagram

### 6. KEY DEFINITIONS

The key definitions and sections related to Groundwater Monitoring Protocols, Standards, and Sites outlined in applicable SGMA code and regulations are provided below for reference.

## Groundwater Sustainability Plan Regulations (California Code of Regulations §351)

- §351(h) "Best available science" refers to the use of sufficient and credible information and data, specific to the decision being made and the time frame available for making that decision, that is consistent with scientific and engineering professional standards of practice.
- §351(i) "Best management practice" refers to a practice, or combination of practices, that are designed to achieve sustainable groundwater management and have been determined to be technologically and economically effective, practicable, and based on best available science.

## **Monitoring Protocols Reference**

## §352.2. Monitoring Protocols

Each Plan shall include monitoring protocols adopted by the Agency for data collection and management, as follows:

- (a) Monitoring protocols shall be developed according to best management practices.
- (b) The Agency may rely on monitoring protocols included as part of the best management practices developed by the Department, or may adopt similar monitoring protocols that will yield comparable data.
- (c) Monitoring protocols shall be reviewed at least every five years as part of the periodic evaluation of the Plan, and modified as necessary.

#### **SGMA Reference**

#### §10727.2. Required Plan Elements

(f) Monitoring protocols that are designed to detect changes in groundwater levels, groundwater quality, inelastic surface subsidence for basins for which subsidence has been identified as a potential problem, and flow and quality of surface water that directly affect groundwater levels or quality or are caused by groundwater extraction in the basin. The monitoring protocols shall be designed to generate information that promotes efficient and effective groundwater management.

### 7. RELATED MATERIALS

#### **CASE STUDIES**

Luhdorff & Scalmanini Consulting Engineers, J.W. Borchers, M. Carpenter. 2014. *Land Subsidence from Groundwater Use in California*. Full Report of Findings prepared for California Water Foundation. April 2014. 151 p. <a href="http://ca.water.usgs.gov/land-subsidence/california-subsidence-cause-effect.html">http://ca.water.usgs.gov/land-subsidence/california-subsidence-cause-effect.html</a>

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#### **STANDARDS**

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#### **GUIDANCE**

Barcelona, M.J., J.P. Gibb, J.A. Helfrich, and E.E.Graske. 1985. *Practical Guide for Ground-Water Sampling*. Illinois State Water Survey, Champaign, Illinois, 103 pages. <a href="https://www.orau.org/ptp/PTP%20Library/library/epa/samplings/pracgw.pdf">www.orau.org/ptp/PTP%20Library/library/epa/samplings/pracgw.pdf</a>

Buchanan, T.J., and W.P. Somers, 1969. *Discharge measurements at gaging stations; techniques of water-resources investigations of the United States Geologic Survey chapter A8*, Washington D.C. <a href="http://pubs.usgs.gov/twri/twri3a8/html/pdf.html">http://pubs.usgs.gov/twri/twri3a8/html/pdf.html</a>

Cunningham, W.L., and Schalk, C.W., comps., 2011, *Groundwater technical procedures of the U.S. Geological Survey*: U.S. Geological Survey Techniques and Methods 1–A1. <a href="https://pubs.usgs.gov/tm/1a1/pdf/tm1-a1.pdf">https://pubs.usgs.gov/tm/1a1/pdf/tm1-a1.pdf</a>

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### **ONLINE RESOURCES**

Online System for Well Completion Reports (OSWCR). California Department of Water Resources. <a href="http://water.ca.gov/oswcr/index.cfm">http://water.ca.gov/oswcr/index.cfm</a>

Measuring Land Subsidence web page. U.S. Geological Survey. http://ca.water.usgs.gov/land\_subsidence/california-subsidence-measuring.html

USGS Global Positioning Application and Practice web page. U.S. Geological Survey. <a href="http://water.usgs.gov/osw/gps/">http://water.usgs.gov/osw/gps/</a>

# California Statewide Groundwater Elevation Monitoring (CASGEM) Program

# Procedures for Monitoring Entity Reporting

December 2010

Department of Water Resources (DWR) will use the internet as the primary communication tool to notify interested parties and groundwater Monitoring Entities of the status of the CASGEM program on an ongoing basis. Information will be posted at the following website: <a href="http://www.water.ca.gov/groundwater/casgem">http://www.water.ca.gov/groundwater/casgem</a>

In addition to the above-referenced website, DWR will distribute information via email. In order to be placed on the CASGEM contact list, please register your contact information at the following website: <a href="http://www.water.ca.gov/groundwater/casgem/register/">http://www.water.ca.gov/groundwater/casgem/register/</a>

For questions about the Reporting Procedures, or other technical issues, please contact:

DWR Headquarters Mary Scruggs 901 P Street Sacramento, CA 95814 (916) 654-1324 mscruggs@water.ca.gov

Northern Region Office Kelly Staton 2440 Main Street Red Bluff, CA 96080 530-529-7344 staton@water.ca.gov

North Central Region Office Chris Bonds 3500 Industrial Avenue West Sacramento, CA 95691 (916) 376-9657 cbonds@water.ca.gov South Central Region Office Dane Mathis 3374 Shields Avenue Fresno, CA 93726 (559) 230-3354 dmathis@water.ca.gov

Southern Region Office Tim Ross 770 Fairmont Avenue Suite 102 Glendale, CA 91203 (818) 500-1645 x278 tross@water.ca.gov



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## INTRODUCTION TO CASGEM PROGRAM

In November 2009 Part 2.11 (Groundwater Monitoring) was added to Division 6 of the Water Code by Senate Bill 6 (7th Extraordinary Session) (SB 6), a copy of which is included in the Appendix. (All statutory references in this document are to the Water Code.) The new law directs that groundwater elevations in all basins and subbasins in California be regularly and systematically monitored, preferably by local entities, with the goal of demonstrating seasonal and long-term trends in groundwater elevations. The Department of Water Resources (DWR) is directed to make the resulting information readily and widely available.

DWR developed the California Statewide Groundwater Elevation Monitoring (CASGEM) program in accordance with SB 6 to establish a permanent, locally-managed system to monitor groundwater elevation in California's alluvial groundwater basins and subbasins identified in DWR Bulletin 118. The CASGEM program will rely and build on the many, established local long-term groundwater monitoring and management programs. DWR's role is to coordinate information collected locally through the CASGEM program and to maintain the collected groundwater elevation data in a readily and widely available public database. DWR will also continue measuring its current network of groundwater monitoring wells as funding allows.

The goals of the CASGEM program are to:

- Establish procedures for notification and data reporting by prospective Monitoring Entities (this document)
- Verify local Monitoring Entities in accordance with the Water Code
- Develop an interface for local entities to enter data into a database compatible with DWR's Water Data Library
- Maintain the database and make it easily accessible to the public and local entities for use in water supply planning and management

If no local entities volunteer to monitor groundwater elevations in a basin or part of a basin, DWR may be required to develop a monitoring program for that part. If DWR takes over monitoring of a basin, certain entities in the basin may not be eligible for water grants or loans administered by the state.

During August and September 2010, DWR held 10 workshops throughout the state in cooperation with Association of California Water Agencies (ACWA) to introduce the CASGEM program and explain the purpose and process of the program to local agencies and stakeholders. A copy of the DWR presentation is available on the CASGEM website (http://www.water.ca.gov/groundwater/casgem). A summary of

Frequently Asked Questions (FAQs), primarily from the workshops, is provided in on the CASGEM website.

DWR's main role is to administer the CASGEM program through providing public outreach; creating and maintaining the CASGEM website and online data submittal system; and, supporting local entities through the process of becoming a Monitoring Entity and preparing Monitoring Plans. DWR will use the CASGEM website to provide up-to-date information on the program. The website will also be the access point for the online notification and data submittal systems.

Staff from the DWR regional offices will be available to assist potential Monitoring Entities with the online notification submittal process. After receiving notification from prospective Monitoring Entities, DWR will review them for completeness, verify the authority of the applying entity under Section 10927, and check for overlapping monitoring areas. DWR will advise each party on the status of their notification within three months of submittal and will work with entities to address any deficiencies in their submittals.

DWR encourages local agencies and groups to collaborate to determine who will serve as the Monitoring Entity for the area. However, if more than one party seeks to become the Monitoring Entity for the same area and overlapping monitoring area issues cannot be resolved locally, DWR will make a final determination of the Monitoring Entity for the area. DWR's determinations will consider the order in which entities are identified in Section 10927 and other factors as described in the Water Code.

DWR will post the selection of each Monitoring Entity and its monitoring area on the CASGEM website and will notify each Monitoring Entity in writing. A map-based interface will be available for users to identify the Monitoring Entity for each basin in the state.

DWR will prepare the first status report on the CASGEM program for the Governor and Legislature by January 1, 2012. In this initial report, DWR will report on the extent of groundwater elevation monitoring within each basin. This report will include a statewide prioritization of basins based on water supply, water demand, and other factors identified in Section 10933. DWR will explore options for basins without identified monitoring, with a focus on identifying options for local monitoring. Future status reports on the CASGEM program will be prepared by DWR in years ending in 5 or 0.

## Purpose of Monitoring Entity Reporting Procedures

The purpose of these procedures is to introduce the CASGEM program and its components as the framework for implementing SB 6, with particular emphasis on the initial step of establishing Monitoring Entities for each Bulletin 118 basin in the state.

A summary of the requirements of local entities to comply with the CASGEM program is presented in Table 1.

## Table 1. Quick Guide for Local Entities

- Determine whether you qualify as a potential Monitoring Entity (see "Requirements to become Monitoring Entity" on pages 9-13)
- Identify the basins within your area (see Bulletin 118)
- Collaborate with other local entities to identify and choose the prospective Monitoring Entity (or Entities) for your area
- Submit Monitoring Entity notification to DWR through CASGEM website (<a href="http://www.water.ca.gov/groundwater/casgem">http://www.water.ca.gov/groundwater/casgem</a>) on or before January 1, 2011
- DWR will review the notification and advise the prospective Monitoring Entity of the status of the notification within 3 months of submittal
- Work with staff of the DWR regional office to address any deficiencies in the submittal
- If more than one party seeks to become the Monitoring Entity for the same area, work with staff of the DWR regional office to resolve
- Check the CASGEM website for a listing of the selected Monitoring Entities
- Develop and submit a Monitoring Plan to DWR through the CASGEM website
- Staff from the DWR regional office are available to assist with the Monitoring Plan and to recommend changes
- Submit monitoring data to DWR through the CASGEM website on or before January 1, 2012

## **CASGEM SCHEDULE**

Schedule		DWR.	Activities	Local Entity Activities	
2010	July- September	ACWA/DV	NR Workshops	Collaborate to identify	
	October- December	•Solic	dures and Guidelines it Comments edures and Guidelines	prospective Monitoring Entities	
		Notification Sy	stem ready online	Prospective Monitoring Entities submit notifications to DWR	
2011	January 1, 2011			Monitoring Entity notifications due to DWR on or before 1/1/2011	
	January- March	Review and designation of Monitoring Entities	Review Monitoring Plans and provide	Monitoring Entities develop and submit Monitoring Plans to DWR	
	April-June		recommendations		
	July- September				
	October- December	Preparation of first	t CASGEM status report	Groundwater elevation monitoring begins and continues	
2012	January 1, 2012	The second secon	CASGEM status report and Legislature	First CASGEM data submittals due to DWR on or before 1/1/2012	

A timetable for implementing the CASGEM schedule is shown above.

## **MONITORING ENTITIES**

The CASGEM program establishes the framework for collaboration between local monitoring parties and DWR to collect groundwater elevation data throughout the state's 515 basins as defined in Bulletin 118. A Monitoring Entity is a local agency or group that voluntarily takes responsibility for conducting or coordinating groundwater elevation monitoring and reporting for all or part of a groundwater basin.

To determine if you are within a Bulletin 118 basin, please refer to maps and descriptions in Bulletin 118, available online at: <a href="http://www.water.ca.gov/groundwater/bulletin118/gwbasin\_maps\_descriptions.cfm">http://www.water.ca.gov/groundwater/bulletin118/gwbasin\_maps\_descriptions.cfm</a>. Geographic Information System (GIS) shapefiles of the basins are also available at this website. DWR can assist in identifying other potential local monitoring parties in each basin.

## ROLES AND RESPONSIBILITIES OF MONITORING ENTITIES

Through the CASGEM program, local entities with appropriate authority may notify DWR of their intent to be a Monitoring Entity. Monitoring Entities will have specific responsibilities, including:

- Coordinate with DWR to establish a Monitoring Plan
- Conduct or coordinate the regular and systematic monitoring of groundwater elevations as specified in the Monitoring Plan
- Submit monitoring data to DWR in a timely manner

A Monitoring Entity can perform monitoring for any number of basins or portions thereof, but no area can have more than one Monitoring Entity. While the Monitoring Entity is responsible for compiling the data and submitting it to DWR for a particular area, the actual measurements can be taken by any number of agencies that would work under the direction of the Monitoring Entity. (Cooperating agencies would submit data to the Monitoring Entity, not to DWR.) Thus, assuming there are no overlapping areas or gaps in basin coverage for a given area, there are three possible basic scenarios, illustrated in Figure 1:

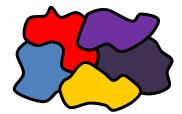
- A single Monitoring Entity that collects and reports groundwater elevation data for the entire basin (Scenario A);
- Multiple Monitoring Entities that collect and report groundwater elevation data for their portion of the basin (Scenario B); or

• An umbrella Monitoring Entity that coordinates and reports groundwater elevation data collected by multiple agencies within the basin (Scenario C).

Scenario A. One Monitoring
Entity collects and reports
data for entire basin



Scenario B.
One basin, several
Monitoring Entities
collecting and
submitting data



Scenario C.
One basin, one Monitoring
Entity coordinating and
submitting data collected
by several agencies

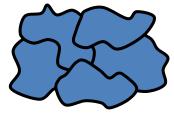


Figure 1. Illustration of possible Monitoring Entity scenarios for a monitored basin.

DWR currently monitors water elevations in about 4,000 wells statewide and cooperates with local and federal agencies to monitor roughly an additional 6,000 wells. DWR plans to continue monitoring groundwater elevations, contingent upon available funding. In some basins DWR currently does most, if not all, of the water-elevation monitoring. In these basins, a local entity still needs to notify DWR of their intent to become the Monitoring Entity. The Monitoring Entity must determine which DWR wells will be included in their CASGEM monitoring network. As long as DWR continues its monitoring program, the department will transmit its groundwater elevation data to the CASGEM system. However, if DWR is unable to continue monitoring for any reason, the Monitoring Entity will be required to re-evaluate its monitoring network to determine which wells to retain in its monitoring network.

## REQUIREMENTS TO BECOME MONITORING ENTITY

Section 10927 of the Water Code defines the types of entities that may assume responsibility for monitoring and reporting groundwater elevations as part of the CASGEM program.

A summary list of eligible entities, in order of priority, and notification requirements for each entity is provided below:

1. A watermaster or water management engineer appointed by a court or pursuant to statute to administer a final judgment determining rights to groundwater [Section 10927(a)].

## **Notification Requirements:**

- Name of Agency
- Agency Contact Name
- Address
- Telephone Number
- Email Address
- Any other relevant contact information
- Authority (as listed in Section 10927)
- Name and number of basin to be monitored (from Bulletin 118)
- Map and shapefile showing area to be monitored (Shapefiles do not need to be submitted by the initial January 1, 2011 notification date; Regional Offices can provide assistance to potential Monitoring Entities with shapefiles.)
- Statement that the entity will comply with the requirements of Water Code Part 2.11
- Additional information deemed necessary by DWR to identify monitoring area or qualifications of the Monitoring Entity
- 2. A **groundwater management agency** with statutory authority to manage groundwater pursuant to its principal act that is monitoring groundwater elevations in all or a part of a groundwater basin on or before January 1, 2010 [Section 10927(b)(1)].

- Name of Agency
- Agency Contact Name
- Address
- Telephone Number
- Email Address
- Any other relevant contact information
- Authority (as listed in Section 10927)

- Name and number of basin to be monitored (from Bulletin 118)
- Map and shapefile showing area to be monitored (Shapefiles do not need to be submitted by the initial January 1, 2011 notification date; Regional Offices can provide assistance to potential Monitoring Entities with shapefiles.)
- Statement that the entity will comply with the requirements of Water Code Part 2.11
- Additional information deemed necessary by DWR to identify monitoring area or qualifications of the Monitoring Entity
- 3. A water replenishment district established pursuant to Water Code Division 18 (commencing with Section 60000). This part does not expand or otherwise affect the authority of a water replenishment district relating to monitoring elevations [Section 10927(b)(2)].

- Name of Agency
- Agency Contact Name
- Address
- Telephone Number
- Email Address
- Any other relevant contact information
- Authority (as listed in Section 10927)
- Name and number of basin to be monitored (from Bulletin 118)
- Map and shapefile showing area to be monitored (Shapefiles do not need to be submitted by the initial January 1, 2011 notification date; Regional Offices can provide assistance to potential Monitoring Entities with shapefiles.)
- Statement that the entity will comply with the requirements of Water Code Part 2.11
- Additional information deemed necessary by DWR to identify monitoring area or qualifications of the Monitoring Entity
- 4. A local agency that is managing all or part of a groundwater basin pursuant to Water Code Part 2.75 (commencing with Section 10750) and that was monitoring groundwater elevations in all or part of a groundwater basin on or before January 1, 2010, or a local agency or county that is managing all or part of a groundwater basin pursuant to any other legally enforceable groundwater management plan with provisions that are substantively similar to those described in that part and that was monitoring groundwater elevations in all or a part of a groundwater basin on or before January 1, 2010 [Section 10927(c)].

- Name of Agency
- Agency Contact Name
- Address
- Telephone Number
- Email Address
- Any other relevant contact information
- Authority (as listed in Section 10927)
- Name and number of basin to be monitored (from Bulletin 118)
- Map and shapefile showing area to be monitored (Shapefiles do not need to be submitted by the initial January 1, 2011 notification date; Regional Offices can provide assistance to potential Monitoring Entities with shapefiles.)
- Statement that the entity will comply with the requirements of Water Code Part 2.11
- Copy of current groundwater management plan
- Statement describing the ability or qualifications of the entity to conduct the groundwater monitoring functions required
- Additional information deemed necessary by DWR to identify monitoring area or qualifications of the Monitoring Entity
- 5. A local agency that is managing all or part of a groundwater basin pursuant to an integrated regional water management plan prepared pursuant to Water Code Part 2.2 (commencing with Section 10530) that includes a groundwater management component that complies with the requirements of Section 10753.7 [Section 10927(d)].

- Name of Agency
- Agency Contact Name
- Address
- Telephone Number
- Email Address
- Any other relevant contact information
- Authority (as listed in Section 10927)
- Name and number of basin to be monitored (from Bulletin 118)
- Map and shapefile showing area to be monitored (Shapefiles do not need to be submitted by the initial January 1, 2011 notification date; Regional Offices can provide assistance to potential Monitoring Entities with shapefiles.)
- Statement that the entity will comply with the requirements of Water Code Part 2.11
- Copy of current groundwater component of integrated regional water management plan
- Statement describing the ability or qualifications of the entity to conduct the groundwater monitoring functions required

- Additional information deemed necessary by DWR to identify monitoring area or qualifications of the Monitoring Entity
- 6. A **county** that is not managing all or a part of a groundwater basin pursuant to a legally enforceable groundwater management plan with provisions that are substantively similar to those described in Water Code Part 2.75 (commencing with Section 10750) [Section 10927(e)].

- Name of County
- County Contact Name
- Address
- Telephone Number
- Email Address
- Any other relevant contact information
- Authority (as listed in Section 10927)
- Name and number of basin to be monitored (from Bulletin 118)
- Map and shapefile showing area to be monitored (Shapefiles do not need to be submitted by the initial January 1, 2011 notification date; Regional Offices can provide assistance to potential Monitoring Entities with shapefiles.)
- Statement that the entity will comply with the requirements of Water Code Part 2.11
- Statement describing the ability or qualifications of the entity to conduct the groundwater monitoring functions required
- Additional information deemed necessary by DWR to identify monitoring area or qualifications of the Monitoring Entity
- 7. A **voluntary cooperative groundwater monitoring association** formed pursuant to Section 10935 [Section 10927(f)]. As described in the Water Code Section 10935, the voluntary associations may be established by contract, a joint powers agreement, a memorandum of agreement, or other form of agreement deemed acceptable by DWR, so long as it contains: the names of the participants; the boundaries of the area covered by the agreement; the name or names of the parties responsible for meeting the requirements; the method of recovering the costs associated with meeting the requirements; and other provisions that may be required by DWR. Entities seeking to form a voluntary association should notify DWR, which will work cooperatively with the interested parties to facilitate the formation of the association.

- Name of Association
- Association Contact Name
- Address
- Telephone Number
- Email Address
- Any other relevant contact information
- Authority (as listed in Section 10927)
- Name and number of basin to be monitored (from Bulletin 118)
- Map and shapefile showing area to be monitored (Shapefiles do not need to be submitted by the initial January 1, 2011 notification date; Regional Offices can provide assistance to potential Monitoring Entities with shapefiles.)
- Statement that the entity will comply with the requirements of Water Code Part 2.11
- Statement describing the ability or qualifications of the entity to conduct the groundwater monitoring functions required
- Statement of intent to meet the association formation requirements described in Section 10935
- Additional information deemed necessary by DWR to identify monitoring area or qualifications of the Monitoring Entity

Local agencies are encouraged to coordinate among themselves to determine the proposed Monitoring Entity or Entities that best suits their area. The resulting interested entity (or entities) should notify DWR of its intent to become a groundwater Monitoring Entity for one or more basins, or portions thereof by the January 1, 2011 deadline. Certain basic information is required for notification, including contact information and additional details depending on the authority of the entity desiring to monitor groundwater (Section 10928), as listed above. This notification information will be submitted to DWR using an online system that will be available by mid-December 2010.

## **MONITORING PLANS**

Monitoring Entities will each develop a Monitoring Plan that includes the following sections: Monitoring Sites and Timing, Field Methods, and Data Reporting. Monitoring Plans should be completed and submitted to DWR by summer 2011. Staff from the DWR regional offices will be available to assist Monitoring Entities with the development of Monitoring Plans, if needed. In determining what information should be reported to DWR, the department will defer to existing monitoring programs if those programs result in information that demonstrates seasonal (annual high and low groundwater elevations) and long-term trends in groundwater elevations. Staff from the DWR regional offices will assist Monitoring Entities to address any gaps in basin coverage

(see below) and other monitoring issues and may make recommendations for the location of additional wells. However, the department has no authority to require a Monitoring Entity to install additional wells unless funds are provided for that purpose. Once a Monitoring Plan is established with DWR, Monitoring Entities should notify DWR of any changes to the plan.

## DATA GAPS

A data gap refers to a basin or portion of a basin that is not included in any of the Monitoring Plans submitted to DWR. This is essentially an area that lacks the density of monitoring wells that would allow seasonal and long-term trends in groundwater elevations to be determined for the basin, subbasin, or a portion thereof. Among the 515 basins defined by Bulletin 118, data gaps may exist for a variety of reasons, including a lack of suitable monitoring wells, lack of groundwater use, access issues, and jurisdictional issues, among others.

If no local entity is able and/or willing to fill a data

gap, the department may be required to perform groundwater monitoring functions. If DWR performs this monitoring, local agencies and the county that have the authority under Section 10927 to monitor the area of the data gap would be potentially ineligible for a water grant or loan awarded or administered by the state. The Monitoring Entity or entities with the authority to monitor the area of the data gap should provide detailed information regarding the nature of and reason for the data gap so that DWR may include such information in the prioritization of groundwater basins and subbasins as appropriate.

Agencies and counties that are eligible to be designated Monitoring Entities but choose not participate in the CASGEM program will not lose their state water grant and loan eligibility if their entire service area qualifies as a disadvantaged community (Water Code Section 10933.7(b)). It will be the responsibility of the local agency or county applying for a state water grant or loan to demonstrate their disadvantaged community status at the time they are applying for the grant or loan.

## Key Components of Monitoring Plans

#### Submit to DWR by summer 2011

- Monitoring Sites and Timing
  - Well Network Design
  - Selected wells (current)
  - Planned (future) wells
  - Frequency to capture seasonal highs and lows
  - Map and shapefile of monitoring area and well locations

## Field Methods for groundwater monitoring

- Methods for measuring
  - Reference Point
  - Static water level
  - Depth to water
  - Standardized form for data collection

#### **Data Reporting**

 Online data submittal, minimum July & January each year

## MONITORING SITES AND TIMING

The Monitoring Plan will identify the wells to be monitored and the frequency with which they will be monitored. The Monitoring Plan should explain how proposed monitoring will be sufficient to demonstrate the seasonal and long-term groundwater elevation trends in the monitored area. The density of monitoring locations will depend on the complexity of the basin.

Because of security concerns, the California Department of Public Health (DPH) routinely limits the disclosure of detailed public water supply well location information. Pursuant to Water Code Section 10931, the DWR is required to collaborate with DPH to ensure that the information reported to the CASGEM program will not result in the inappropriate disclosure of information of concern to DPH. At this time, DWR has reached no agreement with DPH regarding the appropriate treatment of public water supply well data. As a result, CASGEM does not currently plan to use such well information in its database.

The Monitoring Plan should contain a table identifying the wells to be monitored and the timing of that monitoring. Because the law specifies that information should demonstrate seasonal and long-term trends in groundwater elevations, at a minimum monitoring should be conducted at each location for the yearly high and low for the basin. The yearly high and low groundwater elevations typically occur in spring and fall, but this may vary from basin to basin. It is very important that the timing of all the measurements in the basin is coordinated. Rationale for selection of the timing (seasonal highs and lows) should be included in the Monitoring Plan.

The information on the monitoring sites and timing to be submitted in the online system should include:

- Well identification number
- State well number
- Location (decimal latitude and longitude, North American Datum (NAD) 83)
- Reference point elevation (feet, North American Vertical Datum (NAVD) 88)
- Land surface datum (feet, NAVD88)
- Map and shapefile with monitoring locations, Bulletin 118 groundwater basin boundary, and boundary of monitoring area
- Frequency and timing of measurements

## FIELD METHODS

The consistent and documented collection of groundwater elevation data is important for ensuring that the data can be used across the state, regardless of the Monitoring Entity. The field methods should meet a common set of basic requirements; however, the methods do not have to be exactly the same. Many entities already have in place monitoring efforts that are successful in meeting local needs and that can meet the needs for this program, either as-is or with the incorporation of individual components. The CASGEM program wishes to maintain, to the greatest extent possible, the procedures of high-quality local groundwater elevation monitoring programs, so long as they meet the overall program goals and policies. Of particular concern are the following basic requirements:

- Method(s) to establish the Reference Point, including step-by-step instructions
- Method(s) to ensure static groundwater elevation
- Method(s) to measure depth to water, including step-by-step instructions
- Method(s) and form(s) for recording measurements

It is the responsibility of each Monitoring Entity to develop and implement monitoring protocols that are appropriate to local groundwater basin conditions, protect the water quality of its monitoring wells, and maintain the quality of the data that it submits to the CASGEM Program. DWR has developed field guidelines (Department of Water Resources Groundwater Elevation Monitoring Guidelines) based on a review of existing field methods from DWR and other organizations, which is available on the CASGEM website. Monitoring Entities are welcome to refer to these guidelines when developing field methods for their own Monitoring Plans. However, the DWR guidelines are for internal use in the event that the Department is required to perform groundwater monitoring functions pursuant to Section 10933.5 and are not binding on any other agency. The core of the CASGEM program will rely and build on the many, established local long-term groundwater monitoring and management programs. The department will defer to existing monitoring programs that result in information that demonstrates seasonal and long-term trends in groundwater elevations.

## **DATA REPORTING**

DWR will develop an online data submittal system for Monitoring Entities to submit their groundwater elevation data. Several methods of submitting data will be available, such as direct online data entry, or upload of data files for batch entry. Initial groundwater elevation data should be submitted to DWR by January 1, 2012. Thereafter, data

should be submitted as soon as possible after collection, but no later than January 1st and July 1st of each year, at the minimum. Historical data can also be submitted via the DWR data system to aid in data interpretation. All submitted data will be available to the public, except for confidential data.

Each groundwater elevation data measurement submitted to the online system should include:

- Well identification number
- Measurement date
- Reference point and land surface elevation
- Depth to water
- Method of measuring water depth
- Measurement quality codes

The Monitoring Entity information, well information, and groundwater elevation information is to be provided by the Monitoring Entity. Items labeled as required must be submitted to DWR to report groundwater elevations. Items labeled as recommended should be submitted to DWR if they are available, as they assist in fully evaluating the quality of measurements. DWR will provide standard form(s) for Monitoring Entities to submit groundwater elevation data online. However, if Monitoring Entities cannot use the standard form(s) or provide the data elements listed below, DWR will work cooperatively with Monitoring Entities to develop alternate methods of submitting data.

## **Entity Information**

All entities assuming groundwater monitoring functions as delineated in Section 10927 (a)-(f) are required to submit the following information:

- Monitoring Entity's name, address, telephone number, contact person name and email address, and any other relevant contact information (Section 10928 (a) (1), 10928 (b) (1))
- Name, address, telephone number, email address and any other relevant contact information for entities collecting data that is submitted by a designated submitting entity (Monitoring Entity)
- Groundwater basins being monitored
  - Identify entire basins monitored
  - Identify partial basins monitored

## **Well Information**

The following information about each well is required for the CASGEM online system:

- Unique well identification number. Agencies may use an existing State Well Number, an existing local well designation, or develop their own identification name, using the following protocol:
  - Agency name, abbreviation, or acronym followed by a sequential number (e.g., SGA 01)
  - Groundwater basin followed by a sequential number (e.g., Llagas 03)
  - o Geographic name followed by a sequential number (e.g., Yolo 12)
  - o Well names should be 15 characters long or less
  - Avoid using owner/business names or specific locational information for privacy and security
- Decimal latitude/longitude coordinates of well, using horizontal datum NAD83, and the method of determining coordinates (Actual coordinates are preferred; however, Monitoring Entities may submit approximate locations, as needed, to protect the privacy of well owners. For example, to protect the privacy of a well owner, a Monitoring Entity may submit well coordinate locations that are only within 1000-feet of the actual well location.)
- Groundwater basin or sub-basin
- Reference point elevation of the well (feet) using NAVD88 vertical datum
- Elevation of land surface datum at the well (feet) using NAVD88 vertical datum
- Use of well (e.g., dedicated monitoring, irrigation, domestic, etc)
- Well completion type (e.g. single well, nested, or multi-completion wells)
- Depth of screened interval(s) and total well depth of well, if available (feet)
- Well Completion Report number (DWR Form 188), if available

The following information about each well is recommended for the CASGEM online system:

- State Well Number assigned by DWR in most cases
- Method by which land surface elevation was determined (for example, topographic map, GPS, etc.)
- Written description of location of well, including distance from nearby landmarks and location of reference point in relation to well appurtenances (DWR Form 429)
- Well information comments

#### **Groundwater Elevation Information**

The following information for each groundwater elevation measurement is required for the CASGEM online system:

- Well identification number (see Well Information, above)
- Measurement date
- Reference point elevation of the well (feet) using NAVD88 vertical datum
- Elevation of land surface datum at the well (feet) using NAVD88 vertical datum
- Depth to water below reference point (feet) (unless no measurement was taken)
- Method of measuring water depth
- Measurement Quality Codes

- If no measurement is taken, a specified "no measurement" code, must be recorded. Standard codes will be provided by the online system. If a measurement is taken, a "no measurement" code is not recorded.)
- If the quality of a measurement is uncertain, a "questionable measurement" code can be recorded. Standard codes will be provided by the online system. If no measurement is taken, a "questionable measurement" code is not recorded.)
- Measuring agency identification

The following information for each groundwater elevation measurement is recommended for the CASGEM online system:

- Measurement time (PST/PDT with military time/24 hour format)
- Comments about measurement, if applicable

Groundwater elevation data shall be submitted electronically to DWR's online system. DWR will develop electronic data transmittal (EDT) alternatives and data standards to permit bulk data transfer and assist Monitoring Entities in EDT reporting to DWR. As stated above, if Monitoring Entities cannot use the standard form(s) or provide the necessary groundwater elevation data elements, DWR will work cooperatively with Monitoring Entities to develop alternate methods of submitting data.

The CASGEM online data submittal system will be compatible with the Water Data Library (WDL) (<a href="http://www.water.ca.gov/waterdatalibrary/">http://www.water.ca.gov/waterdatalibrary/</a>), DWR's existing groundwater elevation database. The CASGEM system will include data reporting options similar to those in WDL, such as hydrographs, seasonal contour data, and data downloads. The combined accessibility of the WDL and the CASGEM system will be a significant resource for local agencies in making sound groundwater management decisions.

### **REFERENCES**

- California Departement of Water Resources. (2003). *California's Groundwater, Bulletin 118-03.*
- California Department of Water Resources. (2009). California Water Plan Update 2009, Bulletin 160-09.

# APPENDIX – SENATE BILL 6 (7TH EXTRAORDINARY SESSION) - GROUNDWATER MONITORING

#### Senate Bill No. 6

#### **CHAPTER 1**

An act to add Part 2.11 (commencing with Section 10920) to Division 6 of, and to repeal and add Section 12924 of, the Water Code, relating to groundwater.

[Approved by Governor November 6, 2009. Filed with Secretary of State November 6, 2009.]

#### **Legislative Counsel's Digest**

#### SB 6, Steinberg. Groundwater.

(1) Existing law authorizes a local agency whose service area includes a groundwater basin that is not subject to groundwater management to adopt and implement a groundwater management plan pursuant to certain provisions of law. Existing law requires a groundwater management plan to include certain components to qualify as a plan for the purposes of those provisions, including a provision that establishes funding requirements for the construction of certain groundwater projects.

This bill would establish a groundwater monitoring program pursuant to which specified entities, in accordance with prescribed procedures, may propose to be designated by the Department of Water Resources as groundwater monitoring entities, as defined, for the purposes of monitoring and reporting with regard to groundwater elevations in all or part of a basin or subbasin, as defined. The bill would require the department to work cooperatively with each monitoring entity to determine the manner in which groundwater elevation information should be reported to the department. The bill would authorize the department to make recommendations for improving an existing monitoring program, and to require additional monitoring wells under certain circumstances. Under certain circumstances, the department would be required to perform groundwater monitoring functions. In that event, prescribed entities with authority to assume groundwater monitoring functions with regard to a basin or subbasin for which the department has assumed those functions would not be eligible for a water grant or loan awarded or administered by the state.

(2) Existing law requires the department to conduct an investigation of the state's groundwater basins and to report its findings to the Governor and the Legislature not later than January 1, 1980.

This bill would repeal that provision. The department would be required to conduct an investigation of the state's groundwater basins and to report its findings to the Governor and the Legislature not later than January 1, 2012, and thereafter in years ending in 5 or 0.

(3) The bill would take effect only if SB 1 and SB 7 of the 2009–10 7th Extraordinary Session of the Legislature are enacted and become effective.

#### The people of the State of California do enact as follows:

**SECTION 1.** Part 2.11 (commencing with Section 10920) is added to Division 6 of the Water Code, to read:

#### **PART 2.11.** GROUNDWATER MONITORING

#### Chapter 1. General Provisions

- **10920.** (a) It is the intent of the Legislature that on or before January 1, 2012, groundwater elevations in all groundwater basins and subbasins be regularly and systematically monitored locally and that the resulting groundwater information be made readily and widely available.
- (b) It is further the intent of the Legislature that the department continue to maintain its current network of monitoring wells, including groundwater elevation and groundwater quality monitoring wells, and that the department continue to coordinate monitoring with local entities.
- **10921.** This part does not require the monitoring of groundwater elevations in an area that is not within a basin or subbasin.
- **10922.** This part does not expand or otherwise affect the powers or duties of the department relating to groundwater beyond those expressly granted by this part.

#### Chapter 2. Definitions

**10925.** Unless the context otherwise requires, the definitions set forth in this section govern the construction of this part.

- (a) "Basin" or "subbasin" means a groundwater basin or subbasin identified and defined in the department's Bulletin No. 118.
- (b) "Bulletin No. 118" means the department's report entitled "California's Groundwater: Bulletin 118" updated in 2003, or as it may be subsequently updated or revised in accordance with Section 12924.
- (c) "Monitoring entity" means a party conducting or coordinating the monitoring of groundwater elevations pursuant to this part.
- (d) "Monitoring functions" and "groundwater monitoring functions" means the monitoring of groundwater elevations, the reporting of those elevations to the department, and other related actions required by this part.
- (e) "Monitoring groundwater elevations" means monitoring groundwater elevations, coordinating the monitoring of groundwater elevations, or both.
- (f) "Voluntary cooperative groundwater monitoring association" means an association formed for the purposes of monitoring groundwater elevations pursuant to Section 10935.

#### Chapter 3. Groundwater Monitoring Program

- **10927.** Any of the following entities may assume responsibility for monitoring and reporting groundwater elevations in all or a part of a basin or subbasin in accordance with this part:
- (a) A watermaster or water management engineer appointed by a court or pursuant to statute to administer a final judgment determining rights to groundwater.
- (b) (1) A groundwater management agency with statutory authority to manage groundwater pursuant to its principal act that is monitoring groundwater elevations in all or a part of a groundwater basin or subbasin on or before January 1, 2010.
- (2) A water replenishment district established pursuant to Division 18 (commencing with Section 60000). This part does not expand or otherwise affect the authority of a water replenishment district relating to monitoring groundwater elevations.
- (c) A local agency that is managing all or part of a groundwater basin or subbasin pursuant to Part 2.75 (commencing with Section 10750) and that was monitoring

groundwater elevations in all or a part of a groundwater basin or subbasin on or before January 1, 2010, or a local agency or county that is managing all or part of a groundwater basin or subbasin pursuant to any other legally enforceable groundwater management plan with provisions that are substantively similar to those described in that part and that was monitoring groundwater elevations in all or a part of a groundwater basin or subbasin on or before January 1, 2010.

- (d) A local agency that is managing all or part of a groundwater basin or subbasin pursuant to an integrated regional water management plan prepared pursuant to Part 2.2 (commencing with Section 10530) that includes a groundwater management component that complies with the requirements of Section 10753.7.
- (e) A county that is not managing all or a part of a groundwater basin or subbasin pursuant to a legally enforceable groundwater management plan with provisions that are substantively similar to those described in Part 2.75 (commencing with Section 10750).
- (f) A voluntary cooperative groundwater monitoring association formed pursuant to Section 10935.
- **10928.** (a) Any entity described in subdivision (a) or (b) of Section 10927 that seeks to assume groundwater monitoring functions in accordance with this part shall notify the department, in writing, on or before January 1, 2011. The notification shall include all of the following information:
- (1) The entity's name, address, telephone number, and any other relevant contact information.
- (2) The specific authority described in Section 10927 pursuant to which the entity qualifies to assume the groundwater monitoring functions.
- (3) A map showing the area for which the entity is requesting to perform the groundwater monitoring functions.
- (4) A statement that the entity will comply with all of the requirements of this part.
- (b) Any entity described in subdivision (c), (d), (e), or (f) of Section 10927 that seeks to assume groundwater monitoring functions in accordance with this part shall notify the department, in writing, by January 1, 2011. The information provided in the notification shall include all of the following:

- (1) The entity's name, address, telephone number, and any other relevant contact information.
- (2) The specific authority described in Section 10927 pursuant to which the entity qualifies to assume the groundwater monitoring functions.
- (3) For entities that seek to qualify pursuant to subdivision (c) or (d) of Section 10927, the notification shall also include a copy of the current groundwater management plan or the groundwater component of the integrated regional water management plan, as appropriate.
- (4) For entities that seek to qualify pursuant to subdivision (f) of Section 10927, the notification shall include a statement of intention to meet the requirements of Section 10935.
- (5) A map showing the area for which the entity is proposing to perform the groundwater monitoring functions.
- (6) A statement that the entity will comply with all of the requirements of this part.
- (7) A statement describing the ability and qualifications of the entity to conduct the groundwater monitoring functions required by this part.
- (c) The department may request additional information that it deems necessary for the purposes of determining the area that is proposed to be monitored or the qualifications of the entity to perform the groundwater monitoring functions.
- **10929.** (a) (1) The department shall review all notifications received pursuant to Section 10928.
- (2) Upon the receipt of a notification pursuant to subdivision (a) of Section 10928, the department shall verify that the notifying entity has the appropriate authority under subdivision (a) or (b) of Section 10927.
- (3) Upon the receipt of a notification pursuant to subdivision (b) of Section 10928, the department shall do both of the following:
- (A) Verify that each notification is complete.
- (B) Assess the qualifications of the notifying party.

- (b) If the department has questions about the completeness or accuracy of a notification, or the qualifications of a party, the department shall contact the party to resolve any deficiencies. If the department is unable to resolve the deficiencies, the department shall notify the party in writing that the notification will not be considered further until the deficiencies are corrected.
- (c) If the department determines that more than one party seeks to become the monitoring entity for the same portion of a basin or subbasin, the department shall consult with the interested parties to determine which party will perform the monitoring functions. In determining which party will perform the monitoring functions under this part, the department shall follow the order in which entities are identified in Section 10927.
- (d) The department shall advise each party on the status of its notification within three months of receiving the notification.
- **10930.** Upon completion of each review pursuant to Section 10929, the department shall do both of the following if it determines that a party will perform monitoring functions under this part:
- (a) Notify the party in writing that it is a monitoring entity and the specific portion of the basin or subbasin for which it shall assume groundwater monitoring functions.
- (b) Post on the department's Internet Web site information that identifies the monitoring entity and the portion of the basin or subbasin for which the monitoring entity will be responsible.
- **10931.** (a) The department shall work cooperatively with each monitoring entity to determine the manner in which groundwater elevation information should be reported to the department pursuant to this part. In determining what information should be reported to the department, the department shall defer to existing monitoring programs if those programs result in information that demonstrates seasonal and long-term trends in groundwater elevations. The department shall collaborate with the State Department of Public Health to ensure that the information reported to the department will not result in the inappropriate disclosure of the physical address or geographical location of drinking water sources, storage facilities, pumping operational data, or treatment facilities.

- (b) (1) For the purposes of this part, the department may recommend improvements to an existing monitoring program, including recommendations for additional monitoring wells.
- (2) The department may not require additional monitoring wells unless funds are provided for that purpose.
- **10932.** Monitoring entities shall commence monitoring and reporting groundwater elevations pursuant to this part on or before January 1, 2012.
- **10933.** (a) On or before January 1, 2012, the department shall commence to identify the extent of monitoring of groundwater elevations that is being undertaken within each basin and subbasin.
- (b) The department shall prioritize groundwater basins and subbasins for the purpose of implementing this section. In prioritizing the basins and subbasins, the department shall, to the extent data are available, consider all of the following:
- (1) The population overlying the basin or subbasin.
- (2) The rate of current and projected growth of the population overlying the basin or subbasin.
- (3) The number of public supply wells that draw from the basin or subbasin.
- (4) The total number of wells that draw from the basin or subbasin.
- (5) The irrigated acreage overlying the basin or subbasin.
- (6) The degree to which persons overlying the basin or subbasin rely on groundwater as their primary source of water.
- (7) Any documented impacts on the groundwater within the basin or subbasin, including overdraft, subsidence, saline intrusion, and other water quality degradation.
- (8) Any other information determined to be relevant by the department.
- (c) If the department determines that all or part of a basin or subbasin is not being monitored pursuant to this part, the department shall do all of the following:

- (1) Attempt to contact all well owners within the area not being monitored.
- (2) Determine if there is an interest in establishing any of the following:
- (A) A groundwater management plan pursuant to Part 2.75 (commencing with Section 10750).
- (B) An integrated regional water management plan pursuant to Part 2.2 (commencing with Section 10530) that includes a groundwater management component that complies with the requirements of Section 10753.7.
- (C) A voluntary groundwater monitoring association pursuant to Section 10935.
- (d) If the department determines that there is sufficient interest in establishing a plan or association described in paragraph (2) of subdivision (c), or if the county agrees to perform the groundwater monitoring functions in accordance with this part, the department shall work cooperatively with the interested parties to comply with the requirements of this part within two years.
- (e) If the department determines, with regard to a basin or subbasin, that there is insufficient interest in establishing a plan or association described in paragraph (2) of subdivision (c), and if the county decides not to perform the groundwater monitoring and reporting functions of this part, the department shall do all of the following:
- (1) Identify any existing monitoring wells that overlie the basin or subbasin that are owned or operated by the department or any other state or federal agency.
- (2) Determine whether the monitoring wells identified pursuant to paragraph (1) provide sufficient information to demonstrate seasonal and long-term trends in groundwater elevations.
- (3) If the department determines that the monitoring wells identified pursuant to paragraph (1) provide sufficient information to demonstrate seasonal and long-term trends in groundwater elevations, the department shall not perform groundwater monitoring functions pursuant to Section 10934.
- (4) If the department determines that the monitoring wells identified pursuant to paragraph (1) provide insufficient information to demonstrate seasonal and long-term trends in groundwater elevations, and the State Mining and Geology Board concurs with

that determination, the department shall perform groundwater monitoring functions pursuant to Section 10934.<sup>1</sup>

- **10933.5.** (a) Consistent with Section 10933, the department shall perform the groundwater monitoring functions for those portions of a basin or subbasin for which no monitoring entity has agreed to perform the groundwater monitoring functions.
- (b) Upon determining that it is required to perform groundwater monitoring functions, the department shall notify both of the following entities that it is forming the groundwater monitoring district:
- (1) Each well owner within the affected area.
- (2) Each county that contains all or a part of the affected area.
- (c) The department shall not assess a fee or charge to recover the costs for carrying out its power and duties under this part.
- (d) The department may establish regulations to implement this section.
- **10933.7.** (a) If the department is required to perform groundwater monitoring functions pursuant to Section 10933.5, the county and the entities described in subdivisions (a) to (d), inclusive, of Section 10927 shall not be eligible for a water grant or loan awarded or administered by the state.
- (b) Notwithstanding subdivision (a), the department shall determine that an entity described in subdivision (a) is eligible for a water grant or loan under the circumstances described in subdivision (a) if the entity has submitted to the department for approval documentation demonstrating that its entire service area qualifies as a disadvantaged community.
- **10934.** (a) For purposes of this part, neither any entity described in Section 10927, nor the department, shall have the authority to do either of the following:
- (1) To enter private property without the consent of the property owner.

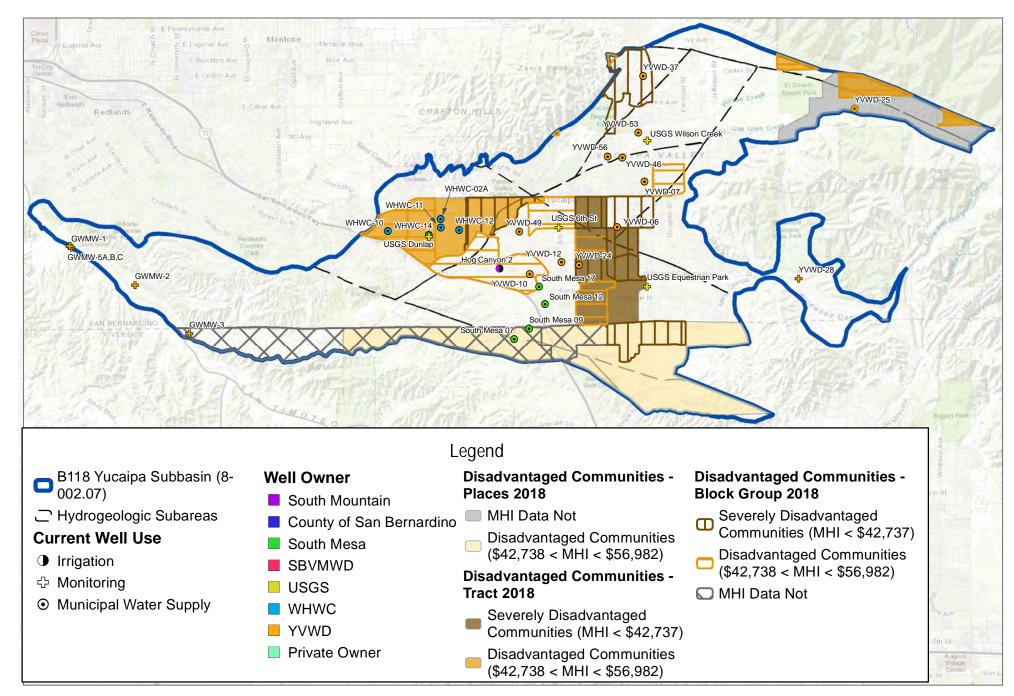
<sup>&</sup>lt;sup>1</sup> The reference in Section 10933(e)(4) to Section 10934 has been amended by Stats. 2010, Ch. 328, sec. 237 (S.B. 1330). The new reference will be to Section 10933.5.

- (2) To require a private property owner to submit groundwater monitoring information to the entity.
- (b) This section does not apply to a county or an entity described in subdivisions (a) to
- (d), inclusive, of Section 10927 that assumed responsibility for monitoring and reporting groundwater elevations prior to the effective date of this part.
- **10935.** (a) A voluntary cooperative groundwater monitoring association may be formed for the purposes of monitoring groundwater elevations in accordance with this part. The association may be established by contract, a joint powers agreement, a memorandum of agreement, or other form of agreement deemed acceptable by the department.
- (b) Upon notification to the department by one or more entities that seek to form a voluntary cooperative groundwater monitoring association, the department shall work cooperatively with the interested parties to facilitate the formation of the association.
- (c) The contract or agreement shall include all of the following:
- (1) The names of the participants.
- (2) The boundaries of the area covered by the agreement.
- (3) The name or names of the parties responsible for meeting the requirements of this part.
- (4) The method of recovering the costs associated with meeting the requirements of this part.
- (5) Other provisions that may be required by the department.
- **10936.** Costs incurred by the department pursuant to this chapter may be funded from unallocated bond revenues pursuant to paragraph (12) of subdivision (a) of Section 75027 of the Public Resources Code, to the extent those funds are available for those purposes.
- **SEC. 2.** Section 12924 of the Water Code is repealed.
- **SEC. 3.** Section 12924 is added to the Water Code, to read:

- **12924.** (a) The department, in conjunction with other public agencies, shall conduct an investigation of the state's groundwater basins. The department shall identify the state's groundwater basins on the basis of geological and hydrological conditions and consideration of political boundary lines whenever practical. The department shall also investigate existing general patterns of groundwater pumping and groundwater recharge within those basins to the extent necessary to identify basins that are subject to critical conditions of overdraft.
- (b) The department shall report its findings to the Governor and the Legislature not later than January 1, 2012, and thereafter in years ending in 5 or 0.
- **SEC. 4.** This act shall take effect only if Senate Bill 1 and Senate Bill 7 of the 2009–10 Seventh Extraordinary Session of the Legislature are enacted and become effective.

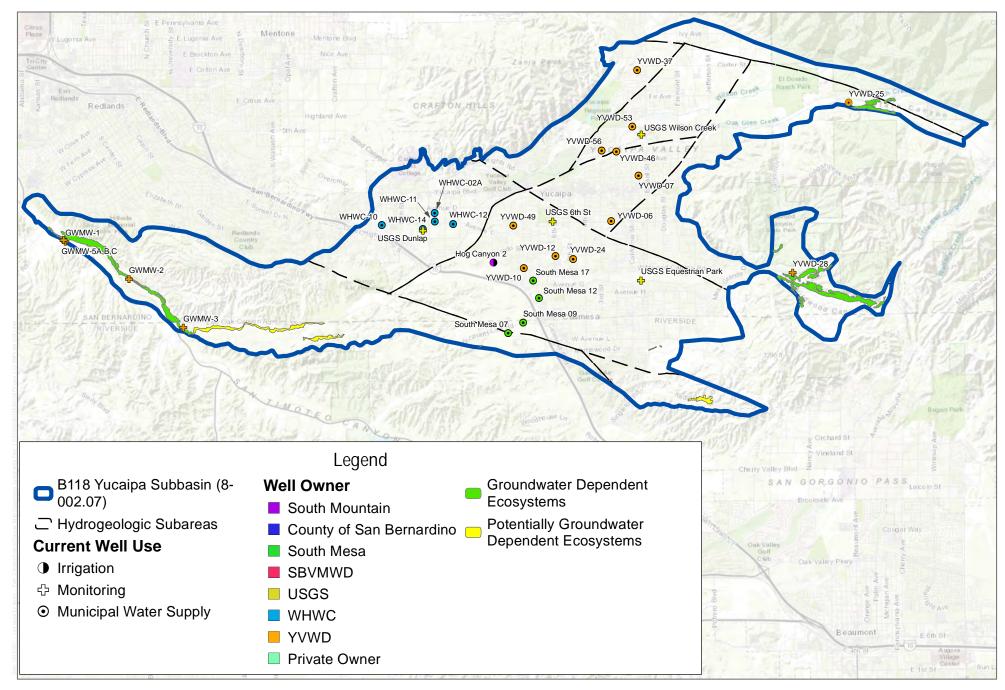
## Appendix 3-C

Representative Monitoring Points, Disadvantaged Communities, and Groundwater Dependent Ecosystems



SOURCE: SBVMWD, YVWD, WHWC, SMWC, City of Redlands, USGS

DUDEK &



SOURCE: SBVMWD, YVWD, WHWC, SMWC, City of Redlands, USGS

DUDEK 6 0 0.5 1 Miles

FIGURE 3-C2