



REPORT ON
GEOLOGY, GEOPHYSICS, AND
DIAMOND DRILLING
FITZWATER GROUP
(Fitz, Water, Lat, Port and
Starboard Claims; Aud and Aud 2 Fr.)
Alberni, Victoria Mining Divisions, B.C.
NTS 92F/2 49°03'N Lat. 124°38'W Long.
for
CREW MINERALS INC. / TP RESOURCES LTD.
February 29, 1988
T. Neale, BSc. T.M. Naciuk, BSc.
Volume V of V

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,731

Part 6 of 6



APPENDIX XII

DRILL LOGS



DDH LOG ABBREVIATIONS

Lithologies

arg - argillaceous, argillite
calc sltst - calcareous siltstone
FHP - feldspar hornblende porphyry
HFP - hornblende feldspar porphyry
Q-C Vn - quartz-carbonate vein

Minerals

asp - arsenopyrite
cp - chalcopyrite
gl - galena
mgtt - magnetite
po - pyrrhotite
py - pyrite
qtz - quartz
sp - sphalerite

Other

alt'n - alteration
ang - angular
BCA - bedding to core axis
bcl - bioclastic
bd/bdd/bdg - bed, bedded, bedding
bx/d/n - breccia, brecciated, brecciation
CA - core axis
ctc - contact
dis - disseminated
frct/s - fracture, fractures
lcl - local
mnr - minor
rdd - rounded
soft sed def'm - soft sediment deformation
stkwk - stockwork
sub-ang - sub-angular
sub-rdd - sub-rounded
tr - trace
vnlt - veinlet
X-ctg - cross-cutting

Other

blk - black
brn - brown
dk - dark
grn - green
gy - grey
lt - light
med - medium
mnr - minor
mod - moderate



DRILL HOLE DATA SUMMARY

HOLE	Total Depth (m)	Collar Orientation	EoH Orientation
Fitz-1-87	117.32	51/45	57/43
Fitz-2-87	78.01	51/65	62/61
Fitz-3-87	123.42	335/45	331/42
Fitz-4-87	142.61	360/45	351/43
Fitz-5-87	109.70	360/65	349/60
Fitz-6-87	78.87	335/45	317/45
Fitz-7-87	69.50	335/60	315/60
Fitz-8-87	71.65	315/45	303/47
Fitz-9-87	78.35	335/45	No Test
Total Phase IIIB <u>869.43m</u>			

HOLE	Total Depth (m)	Collar Orientation	EoH Orientation
Fitz-10-87	80.77	Vertical	No Test
Fitz-11-87	169.77	270/60	257/61
Fitz-12-87	129.53	275/45	No Test
Fitz-13-87/88	172.81	Vertical	No Test
Fitz-14-88	182.01	236/55	No Test
Fitz-15-88	172.51	190/55	188/51
Fitz-16-88	142.03	236/80	234/77
Fitz-17-88	114.90	270/75	No Test
Fitz-18-88	108.92	270/50	No Test
Fitz-19-88	163.67	258/50	253/50
Total Phase IIIC <u>1436.76</u>			

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
0 - 3.66	Casing										
3.66 - 41.86	Medium grey, bioclastic calc sltst sparse quartz veining @ 20°, 50° to CA and <5 mm. Chert clasts to 5 mm. Light brown - tan coloured Fe-carbonate (ankerite) cements majority of section in varying concentrations (reacts with HCl).	Lcl silicification of bioclastics.	(<0.5 mm) py in Q-CV massive py assoc. with sp aggregates of py in Q-CV as above as above	23447 23448 23449 23450 23451	3.66-4.14 4.14-4.35 4.35-4.74 5.77-5.93 7.68-7.87	0.48 0.21 0.39 0.16 0.19	0.008 0.033 5 10 0.3	1.0 1.9 0.5 0.2 0.3	16 213 29 9 5	1111 8707 662 342 501	
	#23448 - sulphide mineralization in zone of brecciated silicified clastics										
	9.29-10.93 m - zone lacks ankerite cement.										
	10.93-11.02 m - small zone of olive green FHP; disseminate pyrite throughout.		disseminated py throughout aggregates of py in Q-C Vn	23452 23453	10.85-11.04 11.04-11.36	0.19 0.32	5 5	0.3 0.4	27 7	199 245	
	13.13-13.57 m - FHP with 1 cm wide gossanous zone.		disseminated and aggregates of py throughout disseminated py throughout	23454 23455	13.33-13.61 15.98-16.24	0.28 0.26	5 5	0.4 0.1	40 15	45 41	
	16.02-16.16 - FHP.		as above	23456	16.96-17.32	0.36	5	0.2	54	49	



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FitzwaterV227

Logged by: GML

Date: 87-11-03

Hole No.: Fitz-1-87 Page 2 of 5

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
16.97-17.24	FHP. Carbonate veinlets (<0.5 mm) cross-cut zone @ 50° & 75° to CA. Quartz veining @ 30° GA. Dark grey-black hornblende is localized in 5-8 cm horizons.										
18.09-18.37	FHP.		disseminated and aggregates py along intrusive selvages	23457	18.09-18.42	0.33	5	0.2	49	44	
				23458	21.34-21.90	0.56	5	0.2	1	33	
				23459	25.77-26.19	0.42	5	0.3	1	27	
18.74-19.34	zone lacks ankerite cement.										
31.19-32.92	lighter-coloured, medium grey calc sltstn lacking ankerite cement. Moderate amount of qtz/carb veining @ 35° to CA.										
33.29-33.60	pyritic argillite filled fractures										
#23460	FHP.	Local fuchsite	dis & cubic py	23460	39.31-39.58	0.27	5	0.4	19	85	
		assoc./w/Q-C vng	as above	23461	39.58-40.11	0.53	5	0.4	34	64	
39.88-40.39	FHP. Gossanous.			23462	40.11-40.74	0.63	5	0.2	56	65	



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Hole No.: Fitz-1-87 Page 3 of 5

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
41.86 - 61.67	Medium grey, crystalline, bioclastic calc sltstn. Graphitic stylolites (<1 mm). Very sparse qrt/carb veining @ 30° CA (<3 mm).		dis & aggregates py in Q-C Vein	23463	49.95-50.44	0.49	5	0.4	1	36	
			30% py, 30% sp in 2 cm vein	23464	51.00-51.25	0.25	0.025	1.4	141	7341	
			py in graphitic fractures & assoc. with carb. vein	23465	51.99-52.31	0.32	5	0.4	1	165	
			py in arg frcts	23466	53.61-54.26	0.63	5	0.5	9	100	
				23467	56.07-56.30	0.23	5	0.2	3	23	
				23468	57.98-58.62	0.64	5	0.2	2	14	
	57.33-59.31 m -> Medium grey calc sltstn as above, with ankerite cement.		py, sp conc. in qtz-carb vein	23469	61.33-61.51	0.18	30	0.3	8	410	
61.67 - 63.08	Medium grey, bioclastic calc schist with Fe-carbonate cement. Local silicification in 0.5 to 25 cm bands.	Lcl silicification	trace py								
63.08 - 63.60	Gouge. Dark grey, sheared.		massive py in graphitic arg lenses assoc. with carb vn	23470	62.90-63.80	0.90	0.012	3.6	44	305	
63.60 - 67.28	Dark grey, locally arg, calc sltstn. Laminations at 20° - 35° CA. Sparse Q-C Vn at 20°, 45°, 70° CA. Fractured & sheared. Bioclastics are <5% (crinoids). Local soft-sediment deformation (eg. 66.11-67.02 m).		trace py	23471	64.25-64.50	0.25	5	0.6	4	69	
				23472	65.46-66.19	0.73	5	0.4	3	29	



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Hole No.: Fitz-1-87 Page 4 of 5

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
67.28 - 71.12	Medium grey, fine to medium grained calc sltstn. Bioclastics <5%. Very sparse Q-C Vn. Minor graphitic/argillitic lenses <0.5 mm at 0°, 60° to CA. Local concentrations of argillaceous laminations to 4 cm.										
70.66 - 77.05	Dark grey bcl arg limestone. Laminated, with varying orientations. Moderate Q-C Vn at 30°, 60° and <5 mm. Local ankerite with C-Q Vns. Fractured and sheared. Local soft sediment deformation.		aggregates & dis py trace py	23473 23474 23475	71.25-71.50 71.90-72.46 76.40-77.35	0.25 0.56 0.95	5 5 5	0.1 0.3 0.1	7 10 4	48 52 58	
77.05 - 117.10 EOH	Medium grey bioclastic calc sltstn. Mottled. Fractured. Sparse C-Q Vng at 0° & 20° CA, and <1 cm. Local soft sediment deformation. Local arg clasts to 2 cm. Local silvery grn-gy clay lenses at approx. 15° CA and approx. 1 mm (eg. at 93 m).		dis & aggregates py (<1 mm) lt grn-gy & tan clay lense approx. 4 mm at 30° CA finely disseminated py throughout py & altered brown mineral siderite veinlets <1mm, trace py in arg veins	23476 23477 23478 23479 23480	83.08-83.24 84.94-85.04 85.64-85.90 88.24-88.48 88.58-89.27	0.16 0.10 0.28 0.34 0.69	70 5 5 5 5	2.9 0.1 0.1 0.1 0.1	102 4 7 8 4	2910 50 66 69 53	Pb-1417



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FitzwaterV227

Logged by: GML

Date: 87-11-03

Hole No.: Fitz-1-87 Page 5 of 5

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
77.05 - 117.10 (cont.)			disseminated py	23481	96.24-96.48	0.24	5	0.1	8	112	
			py & cp(?) in Q-C Vn	23482	106.16-106.36	0.20	5	0.1	6	45	
			dis & aggregates py in 1 mm qtz vein	23483	109.23-109.40	0.17	5	0.1	8	71	
			py & sp with qtz in 1 mm vein	23484	110.62-110.83	0.21	30	0.1	65	2386	
			as above	23485	112.30-112.59	0.29	80	0.1	42	1973	
			siderite vns <0.5 mm	23486	115.33-115.57	0.24	5	0.1	4	106	
				23487	115.96-116.30	0.34	5	0.1	4	35	



Co: MPH Length(m): 78.01 Grid : L18+55S 0+80 Drilled : Objective: TO INTERSECT M3 Hole No: FITZ 2-87
 Project: FITZWATER Dip : -65° Latitude : Contractor : TONTO ROAD SHOWING AND Hole Survey Type: PAJARI
 Proj.No: V227 Azimuth : N51E Departure : Logged by : TMN COINCIDENT GOLD SOIL
 Client: Core Size: 80 Collar Elev: 650m Date Logged: Nov. 3/87 GEOCHEMISTRY/ TP
 Casing: OUT Remarks : CHARGEABILITY ANOMALY.

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From-To Metres	Lithology	Alteration	Mineralization/ Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
0-3.05	CASING										
3.05 - 50.00	Medium grey bioclastic calc sltstn. Crinoid sections to 1cm. Generally sparse veining to 1cm. (mode < 3cm)		1-3% disseminated pyrite.	23488 23489	6.02 6.59	6.32 7.05	0.32 0.46	5 5	0.2 0.1	45 53	41 50
	6.00-6.20 FHP intrusive.										
	6.65-7.00 FHP intrusive. Light olive green. Phenocrysts to 3mm in aphanitic homogeneous matrix (20% feldspar phenocrysts, 4-7% hornblende.)										
		Oxidized.	Trace py and sp in quartz veinlet.	22951	8.77	8.84	0.07	5	0.4	8	450
	9.27-9.43 Very foliated calc. sltst (oriented clasts) associated with 0.5-1.0cm quartz vein at 15°-20° CA.		1-3% pyrite.	23490 23491	9.27 13.59	9.43 13.72	0.16 0.13	5 5	0.2 0.1	1 1	195 58
	14.44-14.49 Medium grey quartz vein. Brecciated		Trace py on footwall	23492	14.41	14.52	0.11	5	0.1	1	500
	17.44-17.50 Quartz vein as above. Minor clay gouge on selvages.		2-4% pyrite.	23493	17.40	17.57	0.17	5	0.2	1	97
	17.69-17.88 Three quartz veinlets (<3mm) at 60° to C.A.		Veinlet (<2mm) with 30% py & 5-10% asp	23498	17.67	17.89	0.22	5	0.2	41	847
	18.34-18.43 Qtz veinlet (<2mm) at 20° to C.A.		20% py and 5-10% asp	23494	18.31	18.45	0.14	270	0.1	40	3190

Co: MPH Project: FITZWATER Logged by: TMH Date: Nov. 3/87Hole No: FITZ 2-87Page 2 of 4

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
18.80-18.89	Quartz veinlet as above.		2-4% py & trace asp	23495	18.80	18.89	0.09	5	0.1	33	1904
23.20-23.63	HFP intrusive. Light olive green, locally oxidized. Porphyries 1-3mm; 15-20% HP, 15-25% FP.		1-3% diss. pyrite.	23496	23.13	23.35	0.22	5	0.1	40	66
				23497	23.35	23.63	0.28	5	0.1	72	79
26.27-26.48	HFP intrusive as above.		Trace pyrite.	23499	26.27	26.48	0.21	5	0.1	67	64
29.62-30.02	FHP intrusive 15-20% HP to 3mm, 10-15%, FP to 3mm. Oxidized along fractures.		Trace pyrite.	23500	29.62	30.05	0.43	5	0.3	53	70
31.13-31.20	1cm calcite vein at 20° CA			23604	31.00	31.13	0.13	5	0.1	1	64
				23605	31.13	31.28	0.15	5	0.1	1	87
32.74-33.04	Qtz-carb veining at 10° to 30° to C.A.	Minor silicification.		23606	32.60	33.05	0.45	5	0.2	1	18
33.05-33.09	Brecciated qtz-carb vein		Trace pyrite.	23607	33.05	33.15	0.10	5	0.1	1	55
35.06-35.13	FHP intrusive as above.		Trace pyrite.	23608	35.03	35.18	0.15	5	0.2	22	42
35.77-36.02	Qtz-carb veining at 60° to C.A. (brecciated and discernable veins.)		2-4% pyrite diss. & along fractures. as above	23609	35.44	35.76	0.32	5	0.6	1	47
				23610	35.76	35.88	0.12	0.101	10.6	218	5484
			As above.	23611	35.88	36.00	0.14	0.012	1.7	24	394
			Trace pyrite.	23612	36.02	36.74	0.72	0.002	0.2	1	108

gc=geochem chip; gs=geochem split; as=assay split

541
Pb
806
As
43
Pb
159
As
25
Pb



Co: MPH Project: FITZWATER Logged by: TMN Date: Nov. 3/87

Hole No: FITZ 2-87

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
36.76-36.86	Qtz-carb veins to 1cm at 40° to C.A.		3-5% pyrite diss. in quartz veins.	23613	36.74	36.90	0.16	0.012	0.9	15	362	25 Pb
37.60-37.66	Qtz-carb vein. Brecciated	Siderite fractures.		23614	36.90	37.22	0.32	5	0.1	2	79	113 As
				23615	37.58	37.72	0.14	5	0.1	1	12	
				22952	38.14	38.36	0.22	5	0.2	1	29	
				22953	38.36	38.50	0.14	5	0.2	16	517	
				22954	38.50	38.79	0.29	5	0.1	1	27	
				22955	38.86	39.06	0.20	5	0.1	1	19	
40.93-41.34	Brecciated FHP intrusive.			23616	40.86	41.43	0.57	5	0.3	54	100	134 As
				23617	41.43	41.75	0.32	5	0.2	16	135	
				23618	41.75	42.32	0.57	5	0.1	2	16	
42.32-43.07	FHP intrusive. Upper contact @ 50° to C.A. Lower contact @ 65° to C.A.	Oxidized.	Trace pyrite.	23619	42.32	43.13	0.81	5	0.4	77	94	
43.81-44.50	HFP intrusive. Undulatory contact approximately parallel to C.A.		Trace pyrite.	23620	43.13	43.81	0.68	5	0.1	2	25	
				23621	43.81	44.50	0.69	5	0.3	73	313	117
45.92-46.02	Bxd Q-C vein in silici- fied bioclastic calc. sltst.			23622	44.50	45.27	0.77	5	0.5	22	85	
46.87-46.94	Qtz veinlets (less than 2mm, @ 40° to C.A.			23623	45.27	45.79	0.52	5	0.2	68	234	111
				23624	45.79	46.20	0.41	5	0.1	1	13	
47.36-47.37	Q-C filled fractures @ 10°, 85° to C.A., less than 3mm thick.		2-4% pyrite in veinlets.	23625	46.86	46.95	0.09	5	0.2	4	51	
				23626	46.95	47.35	0.40	5	0.1	1	19	
			10-15% sp, 5% pyrite in fractures.	23627	47.35	47.42	0.07	5	0.2	26	2376	
				23628	47.42	47.56	0.14	60	0.2	2	60	
50.00 - EOH @ 78.03m	Dark grey, locally argillaceous calc. sltst. Local soft sed deformation. Local angular sedimentary clasts. Sparse graphitic laminations.											

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: TMN Date: Nov. 3/87

Hole No: FITZ 2-87

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
51.73-52.27	FP intrusive.		Trace pyrite.	23629	51.63	52.25	0.62	5	0.3	66	81
60.22	1-2cm silt-filled fracture in argillite. Sparse Q-C veining through section.										
61.13-61.51	Sheared and bxd calc. siltst. Clasts angular, less than 1cm. Shearing is at approximately 70° to C.A.	Minor Fe-carbonate alteration.	Trace pyrite.	23630	61.13	61.51	0.38	5	0.2	26	28
61.51-63.60	FHP intrusive. Upper contact @ 25° to C.A. Lower contact @ 55° to C.A. HP approximately 10-15% up to 2-m in size. FP 5-8% up to 2mm in size. Matrix is aphanitic homogeneous, light olive green.		1-3% pyrite.	23631	61.51	61.90	0.39	5	0.2	70	54
				23632	61.90	62.23	0.33	5	0.3	73	51
				23633	62.23	62.57	0.34	5	0.3	71	52
				23634	62.60	62.93	0.33	5	0.2	68	59
				23635	62.93	63.32	0.39	5	0.1	34	33
				23636	63.32	63.65	0.33	5	0.2	59	52
63.89-64.35	FHP as above. Upper and lower contact @ 20° to C.A.		Trace py along ctcs	23637	63.87	64.39	0.52	5	0.3	54	56
64.72-64.97	FHP as above.		Trace diss. pyrite.	23638	64.62	64.98	0.36	5	0.3	38	131
71.63	2cm of FP intrusive @ approx. 90° to C.A.			23639	71.60	71.66	0.06	5	0.1	23	51
76.50	2mm quartz veinlet @ 60° to C.A.		2-4% sp, 1-3% pyrite	23640	76.12	76.45	0.33	5	0.3	5	54
				23641	76.45	76.54	0.09	5	0.3	38	2550

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Length(m): 123.42 Grid : L20+25S 3+95EDrilled : Objective: INTERSECT M4 Hole No: 3-87
 Project: FITZWATER Dip : -45° Latitude : Contractor : TONTO ROAD SHOWING AND LOCAL
 Proj.No: V227 Azimuth : 335 Departure : Logged by : TMN, GML COINCIDENT Au SOIL
 Client: Core Size: 80 Collar Elev: 490m Date Logged: Oct. 29/87 GEOCHEMISTRY AND IP
 Casing: QUT Remarks : CHARGEABILITY ANOMALIES.

From-To Metres	Lithology	Alteration	Mineralization/ Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
0-5.79	CASING.										
5.79 - 11.46	Dark grey bioclastic, locally argillaceous, calcareous siltstone. Thinly bedded throughout (<2cm). Local soft sed. deformation. Sparse qtz veinlets crosscutting C.A. @ 35°, 60° (< 2mm).		8% py in 2mm qtz vn	23201 23202	6.26 7.29	7.01 8.02	0.75 0.73	5 5	1 0.6	14 12	141 137
	8.22-8.30 Weathered bioclastic horizon			23203 23204 23205 23206	8.02 8.65 9.66 10.47	8.65 9.66 10.47 11.21	0.63 1.01 0.81 0.74	5 5 5 5	0.5 0.6 0.2 0.4	6 4 5 3	50 51 33 30
11.46 - 12.39	Medium grey, locally bioclastic and biohermal, calcareous siltstone. Sparse quartz veining @ 35° to 45° to C.A. Locally stylalitic. Local minor argillitic horizons.	Slightly silicified.		23207	11.21	13.23	2.02	5	0.7	2	27
13.53 - 20.02	Dark grey, locally argillaceous calc sltst. Thinly bedded (3-6cm). Local interbeds containing crinoid sections. Sparse quartz veinlets @ 30°, 60° C.A.			23208 23209	16.38 19.08	17.23 20.05	0.85 0.97	5 5	0.3 0.6	3 3	25 27
20.02 - 21.33	Medium grey calc sltst as above. Local graphitic partings. 20.75-21.33 Light grey calc sltst horizon.		15% pyrite, cubes <1mm diss in graphitic horizons.	23210	20.05	21.47	1.42	5	0.3	2	19



Co: MPH Project: FITZWATER Logged by: TMN, GML Date: Oct. 29/87 Hole No: 3-87 Page 2 of 4

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
21.33 - 30.23	Medium to dark grey, locally bioclastic and argillaceous, calc sltst. Bedding 0.5 to 4.0cm thick, oriented @ 60° to C.A. Sparse quartz veining @ 45° to C.A.	Local ankerite alteration associated with quartz veining.	Trace pyrite.	23211 23212 23213 23214	21.47 22.35 23.30 24.16 24.81 25.85 38.43 29.39	0.88 0.86 1.04 0.96		5 5 5 5	0.1 0.5 0.7 0.5	1 3 2 3	25 28 25 31
30.23 - 33.48	Medium grey calc sltst as above. Intense Q-C veining throughout @ 70°, 90° and parallel to C.A.	Slight silicification.	Trace pyrite. Trace pyrite.	23215 23216	30.20 30.91 31.97 33.30	0.71 1.33		5 5	0.4 0.6	1 1	19 12
33.48 - 61.62	Dark grey, locally bioclastic and argillaceous, calc sltst as above. 39.40-40.90 Bdg increases to 50cm. 42.93-43.16 Sedimentary bx. Argillite clasts to 1cm, angular, in light grey silicified matrix. 46.64-48.33 Soft sed deformation and local sed bx. 55.10-55.60 Intense Q-C veining @ 25°, 60°, 90° to C.A. 59.96-61.81 Q-C veining as above.	Slight silicification.	1-3% pyrite diss. and vein assoc. throughout section.	23217 23218 23219 23220 23221 23222	36.42 37.70 37.70 38.49 38.64 39.93 39.93 40.97 41.58 42.54 42.77 43.36	1.28 0.79 1.29 1.04 0.96 0.59		5 5 5 5 5 5	0.3 0.4 0.4 0.3 0.3 0.2	1 4 9 1 5 2	18 23 41 12 36 31
				23223 23224 23225 23226 23227 23228 23229 23230	44.20 44.99 45.40 46.34 46.34 47.42 47.42 49.06 49.97 50.93 50.93 52.22 53.18 54.85 55.10 55.60	0.77 0.94 1.08 1.64 0.96 1.29 1.67 0.50		5 5 5 5 5 5 5 5	0.5 0.4 0.1 0.6 0.4 0.4 0.3 0.4	2 2 1 1 4 3 2 2	30 29 13 34 44 29 21 23
				23231 23232	56.48 57.94 59.96 61.81	1.46 1.85		5 5	0.4 0.2	2 3	24 23
61.62 - 63.95	Light grey calc sltst as above. Bdg to 3cm @ 60° to C.A. Local stockwork quartz veining.		Trace pyrite.	23233	61.81 63.38	0.57		5	0.3	8	18
63.95 - 73.23	Light grey calc sltst. No apparent bedding. Crosscutting Q-C vns throughout.			23234 23235	63.38 64.60 64.60 65.35	0.91 0.75		5 5	0.1 0.1	3 6	42 42

105
Ppm
As

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	65.05-65.07	Fe-carbonate/sericite altered.	2-4% diss. pyrite.								
	65.50-68.30 Siderite filling frcts.			23236	65.50	66.71	1.21	5	0.3	9	149
	66.50 1cm qtz vein @ 70° to C.A. with oxidized selvages.			23237	67.50	68.75	1.25	5	0.2	3	20
	71.82-73.23 Q-C veining @ 40° to C.A. with oxidized selvages.			23238	69.74	70.72	0.98	5	0.1	1	18
			Trace pyrite.	23239	70.72	72.11	1.39	5	0.4	2	18
				23240	72.11	72.79	0.68	5	0.3	1	25
				23241	72.79	73.47	0.68	5	0.1	3	21
73.23 - 75.97	Olive green altered, locally bioclastic, calc sltst. Shearing throughout @ 50-70° to C.A. Qtz and Q-C veining @ 50 to 70° to C.A.		Trace pyrite throughout.	23242	73.47	73.93	0.47	5	0.2	12	29
				23243	73.93	75.23	1.30	5	0.2	12	45
				23244	75.23	75.90	0.67	5	0.1	3	52
75.97 - 77.34	Fine to medium grained tuff. Not sorted. Clasts <1mm.		Trace pyrite.	23245	76.75	77.74	0.99	5	0.1	20	51
77.34 - 78.68	Altered calc sltst as above. Minor maroon quartz.		Trace pyrite.	23246	77.74	78.78	1.04	5	0.2	20	47
78.68 - 79.25	Tuff as above.		Trace pyrite.								
79.25 - 80.44	Altered and brecciated fine grained dark green tuff.	Local epidote and sericite alteration	Trace pyrite.	23247	79.14	80.29	1.15	5	0.1	34	6
80.44 - EOH @ 123.44	Fine grained tuff. Bdg 1-6cm @ 50° to 60° to C.A. Q-C veining @ 50° to 70° to C.A., generally <1cm.	Minor epidote alteration associated with Q-C veins.	Trace pyrite throughout.	23248	80.29	81.30	1.01	5	0.1	87	57
				23249	81.30	82.65	1.35	5	0.1	108	75
				23250	85.68	86.70	1.02	5	0.1	109	86
				23251	87.49	87.76	0.27	5	0.1	151	227
				23252	89.06	89.64	0.58	5	0.1	159	173
				23253	92.28	92.87	0.59	5	0.1	140	85
				23254	99.09	99.49	0.40	5	0.1	117	73
				23255	101.52	102.13	0.61	5	0.1	95	84
				23256	103.03	104.30	1.27	5	0.1	187	82
				23257	107.92	108.85	0.93	5	0.1	110	75
				23258	109.74	111.38	1.64	5	0.1	106	85
				23259	111.38	112.26	0.88	5	0.1	124	163

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
			4cm of maroon chert and trace fuchsite. Maroon chert.	23260	112.26	112.98	0.72	5	0.6	701	195	33
				23261	112.98	113.20	0.22	5	0.9	855	237	Pb
			Gouge with Q-C veining.	23262	115.00	115.84	0.84	0.021	1.2	179	80	91
			Q-C vein.	23263	115.84	116.20	0.36	5	0.5	151	129	Pb
			Gouge with Q-C veining.	23264	116.20	116.43	0.23	40	1.0	190	172	222
			Bx with maroon chert.	23265	116.43	117.26	0.83	5	0.8	243	423	As
			Quartz vein with 5% pyrite.	23266	118.93	119.08	0.15	40	1.0	857	601	24
												As

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Length(m): 142.61 Grid: L20+25S 3+95E Drilled: Objective: INTERSECT M4 Hole No: 4-87 Page 1 of 4
 Project: FITZWATER Dip: -45° Latitude: Contractor: TONTO ROAD SHOWING AND LOCAL Hole Survey Type: PAJAR
 Proj.No: V227 Azimuth: 360° Departure: Logged by: GML COINCIDENT Au SOIL Depth: Dip Azi
 Client: Core Size: 80 Collar Elev: 490m Date Logged: Oct. 30/87 GEOCHEMISTRY AND IP 142.61m -43° 351°
 Casing: OUT Remarks: CHARGEABILITY ANOMALIES.

From-To Metres	Lithology	Alteration	Mineralization/ Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
0-6.54	CASING.										
6.54 - 10.81	Dark grey, locally bioclastic and argillaceous calc sltst. Up to 10% crinoid sections. Sparse quartz veining @ 40-65°. Sparse graphitic partings. Bdg to 5cm.		Fine grained disseminated pyrite.	23267	7.04	7.45	0.41	5	0.3	13	48
10.81 - 11.20	Medium grey bioclastic, locally argillaceous calc sltst. Moderate quartz veining @ 50° to C.A. (generally < 3mm wide).										
	11.08-11.20 Silicified, bxd quartz vein.		10% pyrite in quartz vein.	23268	11.08	11.20	0.12	290	1.1	407	15309
11.20 - 15.59	Dark grey calc. sltst as above.		Fine grained diss. pyrite throughout.	22896	11.37	11.59	0.22	5	0.1	7	69
				22897	14.04	14.33	0.29	5	0.2	2	16
				22898	14.33	14.54	0.21	5	0.2	5	24
				22899	14.54	14.94	0.40	5	0.1	4	31
			Quartz vein with disseminated pyrite.	23269	15.25	15.46	0.21	70	0.6	46	958
15.59 - 16.76	Medium grey bcl, locally argillaceous calc sltst, as above. Local bioherms (to 8cm).	Local silicification.									
16.76 - 62.63	Dark grey calc sltst as above. Local graphitic horizons	Sparse ankeritic alteration and possible stylolitic development.		23270	21.26	21.87	0.56	5	0.2	4	77



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
24.97-27.37	Medium grey calc sltst as above. Moderate qtz veining @ 30° CA		Pyrite veinlets in quartz vein.	23271	28.33	29.08	0.75	5	0.2	4	112
			5-8% diss. pyrite.	23272	30.46	31.05	0.59	5	0.4	15	178
				23273	33.98	34.13	0.15	5	0.2	11	21
				22900	37.97	38.46	0.49	5	0.1	4	33
				23274	38.50	38.84	0.34	5	0.1	6	20
39.52	8mm clay gouge @ 50° to C.A.		Trace fine grained disseminated pyrite.	22901	39.48	39.58	0.10	5	0.2	25	18
40.31-42.07	Medium grey bcl calc sltst as above.			23275	42.56	42.90	0.34	5	0.1	3	16
				23276	45.26	45.62	0.36	5	0.1	3	22
				23277	48.41	48.64	0.23	5	0.1	7	18
49.23-50.61	As above.		2-4% py in qtz vnlt	23278	49.29	49.57	0.28	5	0.1	1	11
			2-4% py in qtz vnlt	23279	49.91	50.37	0.46	5	0.1	3	23
50.30	4cm qtz vein @ 60° to C.A.		Trace pyrite.	23280	52.22	52.48	0.26	5	0.3	3	20
				23281	53.74	54.18	0.44	5	0.3	11	44
54.86 - 54.97	Q-C stockwork vn zone.		1-3% pyrite.	23282	54.86	54.97	0.11	5	0.7	7	247
56.00-56.38	Minor Q-C veining.		Trace diss. pyrite.	23283	56.00	56.38	0.38	5	0.2	3	23
58.08-62.63	Medium grey calc sltst.	Weak silicification	20-25% diss. py.	23284	60.11	60.26	0.15	5	0.3	13	70
62.63 - 66.09	Medium grey bcl calc sltst. Locally brecciated. Sparse Q-C veining @ 50° to C.A.		Trace pyrite.	23285	62.52	63.45	0.93	5	0.2	7	23
				23286	63.56	64.30	0.76	5	0.1	3	22
				23287	64.30	65.44	1.14	5	0.1	3	17
66.09 - 75.21	Dark grey, locally argillaceous, bcl calc sltst.										

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	66.75-68.58 Intense stockwork qtz vng		Trace pyrite.	23288	68.60 69.17	0.57		5	0.2	4	19	
	69.17-69.44 Dark grey clay gouge with Q-C veining.		Trace - 3% diss. py.	23289	69.17 69.44	0.27		0.057 oz/ton	3.6	77	123	80 Pb
	70.05-73.15 Q-C veinlets @ 0°, 25°, 70° to C.A.		Trace - 3% diss. py.	23290	70.37 70.47	0.10		5	0.1	6	42	
			Trace diss. pyrite.	23291	71.40 71.72	0.32		5	0.2	7	37	
			Trace diss. pyrite.	23292	72.88 73.15	0.27		5	0.2	8	11	
	73.45-73.75 Moderate Q-C veining @ 0°, 45°, 90° to C.A.		Trace diss. pyrite.									
				23293	73.98 74.20	0.22		5	0.4	11	63	
				23294	74.49 74.79	0.30		5	0.2	9	48	
75.21 - 95.36	Medium grey calc sltst. Local intense brecciation and stockwork veining. Very mottled appearance. Local graphitic horizons.	Low to moderate silicification throughout.	Trace pyrite.	23295	75.21 76.15	0.94		5	0.4	4	24	
			Trace pyrite.	23296	76.15 76.46	0.31		5	0.2	8	26	
			Trace pyrite.	23297	76.46 77.33	0.87		5	0.2	1	14	
			Trace pyrite.	23298	77.33 78.46	1.13		5	0.3	2	18	
	79.48-80.04 Minor Q-C veining.	Intense silification.	1-3% pyrite in Q-C vein.	23299	79.75 80.04	0.29		150	0.2	7	296	
				23300	80.63 81.47	0.84		5	0.1	4	21	
	81.47-85.05 Weakly foliated.	Local sericitic & hematitic alt'n.	Trace pyrite.	23301	81.47 82.36	0.89		5	0.1	4	17	
			Trace pyrite.	23302	83.03 83.53	0.50		5	0.1	1	14	
			Trace pyrite.	23303	84.22 84.89	0.67		5	0.1	1	38	
			Trace pyrite.	23304	84.89 85.66	0.87		5	0.1	1	20	
			Trace pyrite.	23305	85.66 86.09	0.43		5	0.1	4	12	
			Trace pyrite.	23306	86.71 87.15	0.44		5	0.1	2	20	
	88.00-89.03 Light to medium grey, locally bcl, calc sltst.		Trace pyrite.	23307	91.95 92.25	0.30		5	0.1	4	19	
	92.58-95.36 Q-C veining @ 50°, 60°, 80°-90° to C.A.	Fe-carbonate alteration associated with veining.	Trace pyrite.	23308	92.42 92.96	0.54		5	0.1	4	18	
			Trace pyrite.	23309	93.56 94.63	1.07		5	0.2	3	20	

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
95.36 - 97.71	Moderate to intensely sheared and/or foliated bcl calc sltst. Mottled maroon/olive green/light grey calc.	Moderate Fe-carb and sericitic alteration.	Trace diss. pyrite. throughout.	23310	96.81	97.74	0.93	5	0.1	24	55
98.38 - 98.63	Altered and foliated calc sltst as above.		Trace pyrite.	23311	98.38	98.68	0.30	5	0.1	34	114
98.63 - EOH @ 142.68	Dark green fine grained tuff. Quartz and Q-C veining throughout (up to 1cm thick) @ 0°, 25°, 30°, 40°, 50°, 90° to C.A.	Minor local hema- tite and epidote alteration.	Trace pyrite, cp throughout.	23312	100.96	101.27	0.31	5	0.2	49	236
			Disseminated pyrite	22902	101.27	101.49	0.22	5	0.2	130	318
			Aggs & diss. pyrite (<1mm) (to 15%)	23313	101.86	101.99	0.13	10	0.4	130	235
			Diss. py throughout	22903	105.88	106.13	0.25	5	0.1	174	81
			Diss. py throughout	23314	106.70	107.07	0.37	5	0.1	231	129
			Diss. py throughout	23315	112.60	112.87	0.27	5	0.1	132	222
			Disseminated pyrite	23316	113.26	113.70	0.44	5	0.1	137	126
			Disseminated pyrite	23317	114.61	115.15	0.54	5	0.1	133	142
			Disseminated pyrite	23318	115.51	116.02	0.51	5	0.1	114	114
			Disseminated pyrite	22904	117.03	117.27	0.24	5	0.3	154	127
			Disseminated pyrite	22905	117.27	117.35	0.08	5	0.2	312	152
			Disseminated pyrite	23320	119.85	119.98	0.13	5	0.1	156	150
	125.21-125.85 Stockwork Q-C veining Sparse angular chert clasts, maroon, to 1cm.		15-20% pyrite diss. and in Q-C veins.	22906	125.98	126.45	0.47	40	1.0	129	1340
				23222	127.13	127.31	0.18	5	0.1	127	330
				23323	127.62	127.92	0.30	5	0.1	124	196
				23324	130.39	130.70	0.31	5	0.3	128	558
				23325	131.46	131.69	0.23	5	0.2	137	180
				23326	132.75	132.94	0.19	5	0.1	202	83
				22907	134.60	134.02	0.22	5	0.3	492	66
				23327	137.83	138.20	0.37	5	0.1	167	95
				23328	139.84	140.44	0.60	5	0.1	158	68

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
19.48 - 23.28	19.35-19.48 Sandy clay. (section is probably wash withing a cavity from a previous drill hole). Interbedded light and dark grey calc siltstone. 19.48-19.84 Light grey calc sltst Bxd 19.84-22.62 Dark grey bdd sltst. Bdg to 4cm @ 60° to C.A. 22.62-22.94 Light grey calc sltst. 22.94-23.28 Dark grey calc sltst.	Silicification of calc sltst common.	Core appears gravelly Trace asp, pyrite.	23339 23340	19.94 22.31	20.40 22.75	0.46 0.44	5 5	0.3 0.2	4 4	22 33
23.28 - 24.18	22.62-22.94 Light grey calc sltst. 22.94-23.28 Dark grey calc sltst. Light grey calc sltst. 23.43-23.47 Dark grey calc sltst. 23.47-24.18 Light grey calc sltst bxd Quartz-carb veining stockwork, 0° and 40° to C.A.	Silicified. Silicified. Silicified.	Trace py throughout Trace pyrite.	23341	23.16	24.36	1.20	5	0.1	1	20
24.18 - 34.77	Medium grey calc sltst. Bdg to 7cm @ 45-65° to C.A. (Bdg defined by graphitic laminations). Sparse sedimentary clasts & soft sed deformation throughout. Sparse quartz-carb veining throughout. 8mm @ 10°, 30°, 55°.			23342 23343	36.62 42.23	37.66 43.23	1.04 1.00	5 5	0.1 0.2	2 2	25 2
34.77 - 43.06	Light grey calc sltst.		20% py along @ 8mm graphitic lamination @ 43.02m	23344	46.59	46.70	0.11	5	1.5	16	252
43.06 - 65.58	Dark grey calc siltstone. 43.06-49.79 Siltstone. 46.62-46.64 Quartz-carb vein @ 70° to C.A.		10-15% pyrite.	23345 23346	47.26 47.54	47.54 47.73	0.28 0.19	5 270	0.3 1.0	8 34	50 591
	47.63-47.68 Quartz vein @ 60° to C.A.		15% py, <3% sp.								As 314 As

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	47.82-48.07 Quartz-carb veins @ 25° (crosscutting by) 75° to C.A. veins (up to 1cm wide).		4-7% py & trace cp, sp.	23347	47.73	48.15	0.42	10	1.0	31	978
	48.96 Nodular pyrite along undulatory graphitic laminations.		Py nodular to 2.0cm	23348	48.88	49.02	0.14	5	0.4	9	43
				23349	49.79	49.87	0.08	5	0.1	4	27
	53.63-55.64 Bxd, medium grey, argillaceous calc sltst. No bedding fractures remain. Local soft sed deformation.	Locally silici- fied.	Trace pyrite along graphitic laminations.	23350	53.67	54.42	0.75	5	0.1	4	18
				23351	54.42	55.01	0.59	5	0.1	1	25
				23352	55.01	55.77	0.76	5	0.1	7	23
	55.64-65.58 Dark grey argillaceous calc sltst as above (43-49m). Sparse veining @ 40° and parallel to C.A.		Trace disseminated pyrite along minor veins.	23353	57.07	57.19	0.12	5	0.1	5	51
				23354	58.83	58.95	0.12	5	0.1	4	31
				23355	59.51	59.96	0.45	5	0.2	4	45
				23356	62.56	63.12	0.56	5	0.1	4	32
				23357	65.40	65.58	0.18	5	0.1	2	24
65.58 - 86.52	Light to medium grey bcl calc sltst. Local argillaceous horizons. Moderate to abundant veining throughout @ 0°, 20°, 40° to C.A. Local ankerite/ (siderite?).	Silicified locally.									
	67.52-68.53 Qtz-carb vein. 0°, 20° CA		Trace pyrite	23358	67.52	68.53	1.01	5	0.1	1	18
	69.33-69.44 Stockwork qtz-carb vng.		along vein	23359	69.30	69.44	0.14	5	0.1	1	16
	72.13-72.50 Stockwork and 45° to C.A. Quartz-carb. veining.		selvage.	23360	72.13	72.50	0.37	5	0.1	9	15
	74.43-75.04 Minor stockwork quartz- carb veins in bx calc sltst.		Blocky core.	23361	74.43	74.51	0.08	5	0.1	8	21
	76.79 Imm quartz-carb vein @ 50° to CA		Trace pyrite.	23362	74.95	75.04	0.09	5	0.1	12	25
	Increasing milky pale-grey-green alteration of veins, clasts, & bedding Local bedding to 3cm @ 55° to C.A. Local soft sed deformation.	Minor sericitic & Fe-carbonate alteration.		23363	76.75	76.88	0.13	5	0.1	1	28

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
86.52 - 89.82	81.52-82.06 Stockwork and vein clc @ 45° to C.A. to 4mm.	Minor Fe stain.		23364	81.60	81.98	0.38	5	0.1	1	27
	82.34-83.23 Intense carb veining stockwork & 25°, 60°, 0° to C.A.		Trace pyrite.	23365	82.29	83.27	0.98	5	0.1	1	22
	Altered light grey calc sltst. Alteration likely ank-sericite pervasive. Carb veins crosscutting foliation containing sericitic alteration. Foliation with sericitic alteration @ 35-45° Local maroon or hematitic Qtz										
	86.64-86.68 Calcite vein and red limestone. Red limestone clast (?) 2 & 3cm, angular.		4-6% pyrite in sed 1st clast.	23366	86.57	86.74	0.17	5	0.1	256	23
	86.88-87.20 Altered sltst.	Moderate sericite	Trace fine	23367	86.88	87.20	0.32	5	0.1	3	46
	87.50-87.98 Altered sltst.	and Fe-carbonate	grained disseminated	23368	87.50	87.98	0.48	5	0.1	3	29
	Increasing green colour and orange carbonate (siderite?) veining.	alteration.	pyrite.	23369	87.98	88.81	0.83	5	0.1	2	32
89.82 - EOH	88.74-89.82 Dominantly alteration product (very little distinguishable protolith).	Alteration as above.		23370	88.81	89.82	1.01	5	1.6	56	65
	Volcanics. Basaltic, locally clastic. Dark green-grey. Homogeneous matrix. Local lapilli clasts to 7mm (sparse). Carbonate veining throughout @ 0°, 10°, 45°, 65° to C.A. Local chloritic laminations in shears @ 35-50° to C.A. Sparse Fe-carb (ankerite) veining @ 20° to C.A.	Local hematite and epidote alteration along Q-C veins.									
	97.10-72.48 Qtz-carb vein to 1cm approximately @ 0° to C.A.			23371	97.10	92.52	0.42	5	0.2	60	88
			Trace pyrite throughout volc section.	23372	103.43	104.17	0.74	5	0.1	169	48
				23373	108.26	108.81	0.55	5	0.1	8	48

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Nov. 6/87 Hole No: FITZ 6-87 Page 2 of 3

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
26.09 - 35.96	24.84-25.30 Bx zone with ank filled fractures and veinlets.		Cubic py in quartz vein (1-3%).	23392	19.66	20.34	0.68	5	0.1	1	21
			Minor quartz vein.	23393	20.50	20.78	0.28	5	0.1	5	37
			5-10% py in quartz vein and filling.	23394	21.03	21.23	0.20	180	0.6	17	23
				23395	23.75	24.38	0.63	5	0.2	3	18
				23396	24.44	25.04	0.60	5	0.1	1	32
	Dark grey calc sltst, bxd with intense Fe-carbonate veining.		1-3% pyrite.	23397	25.04	25.60	0.56	5	0.1	11	347
			1-3% py, trace sp.	23398	25.60	26.05	0.45	20	0.1	18	606
			1-3% py, trace sp.	23399	26.73	27.09	0.36	10	0.1	51	2452
			Trace pyrite.	23400	27.09	27.51	0.42	50	0.1	5	74
			Diss. py in graphitic partings, qtz vein to 3cm. Tr. py, trace sp.	23401	27.51	28.53	1.02	5	0.2	13	408
	28.63-28.93 Medium grey bcl @ 40 ,° 60°. < 5mm sltst. Quartz veining @		Moderate qtz vein.	23402	28.53	29.00	0.47	5	0.1	5	120
			Intense qtz vng.	23403	29.21	29.88	0.67	5	0.1	3	72
				23404	30.26	30.96	0.60	5	0.2	6	36
			Trace py, sparse quartz vein.	23405	30.96	31.36	0.40	5	0.1	6	36
			Trace pyrite.	23406	31.49	32.31	0.82	5	0.2	5	56
32.01-32.21 Blk, locally argillaceous	Pyrite in graph fractures.	23407	32.79	33.64	0.85	5	0.1	1	37		
	1-3% pyrite diss. in quartz vein.	23408	33.64	33.86	0.22	5	0.7	32	23		
		23409	33.86	34.13	0.27	5	0.1	1	32		
	Trace pyrite in quartz vein.	23410	35.91	36.27	0.36	5	0.1	2	16		
	5-10% pyrite in altered horizons.	23411	36.27	36.47	0.20	5	0.2	82	30		
35.96 - 44.30	Medium grey bcl calc sltst. Intense quartz vein @ 0°, 60°, 75° < 1cm. Graphitic laminations in fractures. Local vugs in quartz veins.	Slt. silicified (sl rxn with HCL)									
		Minor sericite alteration.	1-3% pyrite	23412	36.58	32.15	0.57	5	0.1	2	17

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	38.20-39.57 Local intense stockwork Q-C veining.	Silicified		23413	38.10	38.40	0.30	5	0.1	1	15
			3-5% pyrite.	23414	42.72	72.87	0.15	120	0.4	23	363
				23415	43.17	43.40	0.23	5	0.1	4	79
44.30 - 52.82	Light grey bioclastic calc sltst. Intense stockwork Q-C veins. Sparse graphitic partings.	Local silicification and Fe-carb alteration.	Trace pyrite.	23416	51.11	51.31	0.20	5	0.1	1	20
			Trace pyrite.	22090	52.06	52.21	0.15	5	0.1	10	124
52.82 - 58.12	Altered calc sltst. olive green-light grey sericite & Fe-carb altered sltst associated with intense foliation and shearing.	Sericite Local Fe-carbonate and chloritic alteration.	Trace - 3% pyrite.	23417	52.80	53.12	0.32	5	0.8	272	60
				23418	53.12	53.39	0.27	5	0.1	7	40
			Trace - 3% pyrite.	23419	53.49	53.89	0.40	5	0.1	4	34
			Trace pyrite, cp.	23420	54.46	54.77	0.31	100	0.7	131	83
	55.59-55.70 Highly brecciated zone with clasts to 1cm and siderite cement.		Trace pyrite	23421	55.61	55.92	0.31	5	0.3	58	56
				23422	56.70	57.14	0.44	10	0.1	38	15
				23423	57.14	57.54	0.40	5	0.1	7	15
			1-3% pyrite.	23424	57.81	58.11	0.30	5	0.1	45	50
58.12 - 72.85 EOH	Dark green, fine to medium grained tuff. Moderate Qtz-carb vein. Fractured	Min chloritic alteration		23425	58.86	59.34	0.28	5	0.1	104	79
	58.66-63.00 Hematite rich zone. Hematite mainly associated with Q-C vein.			22910	60.06	60.52	0.46	5	0.2	120	111
				22911	60.81	61.10	0.29	5	0.1	111	93
				22912	61.26	61.62	0.36	5	0.1	50	92
				22913	61.62	62.07	0.45	5	0.1	165	96
				22914	62.07	62.36	0.29	5	0.2	209	68
				23426	62.78	63.14	0.36	5	0.3	108	59
				23427	69.05	69.30	0.25	5	0.2	251	111
	71.50-EOH	Minor hematite alteration.									

gc=geochem chip; gs=geochem split; as=assay split



Co: _____ Length(m): 69.50 Grid : 19+60S 4+60E Drilled : _____ Objective: TO INTERSECT Hole No: FITZ 7-87
 Project: FITZWATER Dip : -60° Latitude : _____ Contractor : TONTO COINCIDENT GOLD SOIL Hole Survey Type: PAJARI
 Proj.No: V227 Azimuth : 335° Departure : _____ Logged by : GML GEOCHEMISTRY AND IP Depth Dip Azi
 Client: CREW Core Size: BQ Collar Elev: 495m Date Logged: Nov. 7/87 CHARGEABILITY ANOMALIES, 69.50 -60° 315°
 Casing: OUT Remarks : _____ TO INTERSECT THE M4
 ROAD SHOWING

From-To Metres	Lithology	Alteration	Mineralization/ Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
0-2.32	CASING.										
2.32 - 9.26	Dark grey locally argillaceous, bcl calc sltst. Bedding to 2cm. Laminations < 5mm. Moderate qtz-carb vein @ 10°, 35°, 45° (< 3mm). Sparse graphitic fractures. 5.98-6.58 Zone of increased quartz vein and fractures. Veins to 2cm @ 30°, 40°, 60°. 7.26-7.67 As above.	Slight silicified.									
9.26 - 10.36	Medium grey bcl calc sltst. Intense fracturing and qtz-carb vein @ varying orientations, predominantly @ 50° & < 4mm. Local vugs in qtz-carb vein Local fractures infilled with graph.	Local ankeritic alteration. Local silicifica- tion.	1-3% pyrite in 2cm qtz vein, cubes < 2mm.	23428	10.05	10.27	0.22	160	4.1	83	715
10.36 - 21.64	Medium grey calc sltst. Intense fracturing. Fe-carbonate infilling fractures and veins with Q-C to 30cm @ 0°, 20°, 60°, 90° Local vugs in qtz-carb vein to 1.5cm.	Silicified ank (varying conc) sid (local)	Mass py, sphal in lcm qtz vein and diss & cubic py in Abundant fractures and veins.	23429 23430	12.59 14.33	12.84 14.54	0.25 0.21	70 5	0.5 0.2	13 1	515 29



Co: MPH Project: FITZWATER Logged by: GML Date: Nov. 7/87 Hole No: FITZ 7-87 Page 2 of 5

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	10.97-11.19 Dark grey calc sltst. Bcl to 30%.										
	18.05-21.64 Intense veining, as above.	Silicified.	Trace pyrite. 1-4% pyrite, tr sp in quartz vein. Intense qtz vein. As above.	23431 23432 23433 23434	20.12 20.80 21.02 21.32	20.80 21.02 21.32 21.64	0.68 0.22 0.30 0.32	5 0.018 5 5	0.7 1.9 0.3 0.3	11 470 2 1	83 30643 191 204
	19.95-21.14 Increase in argillitic content.		Mass py (to 20%), cubes (< 3mm), sphal (trace).								
21.64 - 28.96	Dark grey, locally bioclastic, argillaceous calc sltst. Moderate to abundant Qtz-carb vein @ varying orientations, predominantly 60°, 90°, 30°. Bedding is distorted due to fracturing and veining. Local increases in bcl to 30%.	Silicified.	Diss to aggs py (to 5%).	23435 23436	21.64 28.74	21.83 28.96	0.19 0.22	0.046 5	2.5 0.2	461 1	22113 93
28.95 - 45.24	Interbedded light and medium grey calc sltst. Abundant Q-C vein @ varying angles predominantly 0°, 40°, 30° (< 2cm) Mn. Graphite filled fractures. Local Fe-carbonate associated with fractures and veins.	Slt silicified.									
			Trace diss, pyrite.	23437	29.57	29.78	0.21	5	0.2	7	461
			Trace pyrite.	23438	34.55	34.75	0.20	80	0.3	15	230
			1-3% py, tr ap & sp.	23439	34.75	34.91	0.16	60	0.9	140	4943
			Trace pyrite.	23440	35.70	35.81	0.11	5	0.2	4	58
			1-3% pyrite.	23441	36.78	36.91	0.13	5	0.3	1	32
			1-3% pyrite.	23442	37.40	38.42	1.02	5	0.1	1	39
			Trace pyrite.	23443	44.27	41.44	0.17	5	0.2	1	22

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Nov. 7/87 Hole No: FITZ 7-87 Page 3 of 5

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
45.24 - 57.70	44.00-44.77 Pale green sericitic mica parting parallel to qtz vein @ 50° to C.A. Alteration zone (Foliation occurs throughout) Abrupt contact along shear zone (2mm) @ 40° in overlying sltst. Pale green micaceous altered crinoids; Bcl are light purple-grey rectangular to rdd, to 9mm diameter, to 1-2mm core (prob crinoid columnals) 20% in matrix. Vigourous reaction to HCl indicating calcite. 45.57-45.65 Milkly light green very fine grained foliated shear zone (prob micas/clay mins to qtz showing irregular micro-folds). Foliation @ 50°. Carbonate veins 4mm wide perpendicular to foliation @ 30° to C.A. Minor dark green mica (chlorite?). 46.02-46.39 As above but may contain chlorite. 45.65-45.85 Sltst. somewhat brecciated and sheared. Pale purple calc veins. 45.85-45.97 20% maroon (hematite?) specs to 1mm in graded wh spotty matrix. Carbonate vein perpendicular to foliation. (Fe-carbonate)										
			Pale milky green weakly foliated fmr grnd milkier. Trace pyrite.								
			As previous rock purple-grey len-soidal carb veinlets parallel to CA Core is broken and								

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Nov. 7/87 Hole No: FITZ 7-87 Page 4 of 5

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	Sheared and foliated section. Micaceous schist crosses 1st clast in places and also get schistose. It is brecciated and crosscut by carb vein. Overall, it is pale green, grey, purple with yellow-milky-white Fe-carb alteration.	Fe-stained.		23444	48.90	49.65	0.75	5	0.2	32	31
	49.65-51.50 Coarse grained purple bcl it altered to medium grey micaceous shear zones. Broken surfaces on foliation is chloritic(?) green micaceous min also show min lins oblique to C.A. Lake: 30° down dip. Chlor zones 30° to 35° to CA	Coarse grained bcl (crin) 1st to sustained veins. Tr diss. py rusty carb. veins to 1cm @ 50° to C.A. (forms trans).		23445	53.30	53.70	0.40	5	0.3	5	23
	53.95-57.60 Pale grey to milky yellow increases down section. Rusty stained fractures common. Altered crinoid clasts to 1cm. Local foliation, defined by sericitic laminations increases below 56m.		Barren of sulphides								

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Nov. 7/87

Hole No: FITZ 7-87

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
57.70 - EOH 69.50	57.60-57.70 10cm contact zone dark green chlorite foliated zone with relict bcls. Purple-white calc veining crosscuts shear zone. Cross foliation & contact 50° Dark green-grey fine grained mafic tuff. Abundant irregular veinlets of calc to 1cm. Local bxn with calcite matrix. Fragments angular 1 to 2cm. Chloritic surfaces as at 63m @ 0° to 45° to C.A.		Trace fine grained pyrite throughout.	23446	57.90 58.20	30		5	0.3	77	151

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Length(m): 71.65 Grid : L19+70S 4+60E Drilled : Objective: INTERSECT IP, Hole No: 8-87 Page 1 of 5
 Project: FITZWATER Dip : -45° Latitude : Contractor : TONTO GEOCHEMICAL AND GEOLOGICAL Hole Survey Type: PAJARI
 Proj.No: V227 Azimuth : 315° Departure : Logged by : GML TARGETS INCLUDING M4 Depth Dip Azi
 Client: Core Size: BQ Collar Elev: 495m Date Logged: Oct. 30/87 ROAD SHOWING. 71.65 -47° 303°
 Casing: OUT Remarks :

From-To Metres	Lithology	Alteration	Mineralization/ Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
0-3.35	CASING										
3.35 - 9.08	Black, locally argillaceous, bcl calc sltst. Sheared and bxd quartz vein (< 1cm) @ 35° to 60° fracturing is post quartz vein placement. Arg. laminations (< 2cm) crinoids. Soft sed deformations, load casts, brecciated. Graphite filled fractures common.	Silicification.	Trace - 4% pyrite in quartz vein @ 60° to C.A. Trace pyrite.	22895 23501 23502 23503 23504 23505 23506	4.89 4.10 5.42 5.66 6.70 6.95 8.84	5.27 4.19 5.66 5.30 6.95 7.19 9.08	0.38 0.085 0.24 0.30 0.25 0.24 0.24		0.3 0.3 0.1 0.1 0.1 0.1 0.1	9 66 5 2 4 1 3	97 4407 21 15 12 12 48
8.84 - 11.08	Light grey, brecciated calc sltst Intense fracturing (< 2mm) infilled with brown mineral (siderite). Quartz vein (< 6mm) @ high angles to C.A. (i.e. 80° to 90°).	Fe-carbonate alteration associated with qtz-carb veining.		23507 23508 23509 23510 23511 23512 23513 23514 23515	9.08 9.20 9.28 9.49 9.76 9.86 10.06 10.79 10.88	9.20 9.28 9.44 9.76 9.86 10.06 10.79 10.88 11.11	0.12 0.08 0.16 0.27 0.10 0.20 0.73 0.09 0.23	5 5 5 5 5 5 5 5 0.016	0.5 0.1 0.1 0.1 0.6 0.1 0.1 0.1 0.3	1 9 1 1 87 7 2 40	168 182 21 82 775 243 79 1006
	10.88-11.11 Densely rusty brown goossonous section.	Fe-carb altered and silicified.	Pyrite.	23516 23517 23518 23519	11.11 11.28 11.38 11.54	11.20 11.38 11.54 11.70	0.09 0.10 0.16 0.16	40 0.029 10 100	0.1 0.2 0.1 0.1	12 11 29 2	569 536 2055 57
11.08 - 21.69	Medium to dark grey calc sltst, as above.		Cubic & diss py in quartz vein. (20%) Striated cubic py in quartz vein (<3mm) to 25%. Py cubic/diss. Pyrite quartz vein (40%).	23520 23521	11.70 11.97	11.97 12.05	0.27 0.08	5 100	0.1 0.3	1 42	40 2202



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	12.77-13.46 Decrease in amount of silicification and quartz veining. Sparse bcl. Graphitic lenses common.			23522	12.05	12.73	0.68	5	0.1	1	22
				23523	15.06	15.39	0.33	5	0.1	1	23
				23524	15.39	15.71	0.32	5	0.1	1	15
				23525	15.71	16.11	0.40	5	0.2	1	19
				23526	16.62	17.02	0.40	5	0.1	1	15
				23527	17.02	17.08	0.06	5	0.1	1	194
		Silicified.	Diss py & aggs (2mm) in qtz vein. Py (as above) & sphal(?)	23528	17.08	17.18	0.10	5	0.4	95	4854
			Diss py (to 50%) in 5mm qtz vein & adj graph. vein (<1mm).	23529	17.47	17.72	0.25	5	0.1	4	244
			Qtz vein @ 10° diss py (10%).	23530	18.38	18.67	0.29	5	0.1	1	19
			Diss & aggs (2mm) py	23531	19.20	19.37	0.17	5	0.5	23	453
21.70 - 23.95	Light grey calc sltst. Intense shearing & bxn with stockwork qtz- carb veining.	Silicified		23532	21.90	22.19	0.29	5	0.1	3	128
				23533	22.19	22.47	0.28	5	0.1	1	37
23.95 - 24.47	Dark grey calc sltst. Soft sed defor- mation, load clasts qtz vein <2mm @ 20° to 30°. Graphitic laminations <2mm. Violent rxn with HCl, quartz vein sparse.										
24.47 - 32.45	Medium grey calc sltst. Sparse argillite laminations <1mm. Sheared and fractured qtz vein <3mm @ random orient throughout core to predominant @ 45°.		Pyrite diss & cubes with 20%.	22893	25.55	25.82	0.27	5	0.1	8	41
				23534	26.09	26.37	0.28	5	0.1	8	25
				23535	26.80	27.29	0.49	5	0.2	5	21
				23536	27.29	27.49	0.20	5	0.1	1	15
			Diss & cubic py (20%).	22894	26.66	27.74	0.07	5	0.3	9	330
				23537	29.22	29.50	0.28	5	0.5	10	34
				23538	29.89	30.18	0.29	5	0.1	1	28

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Oct. 31/87 Hole No: FITZ 8-87 Page 3 of 5

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	26.91-27.50 Increased quartz veins @ 35° and 60° (< 7mm). Chert clasts (<2mm) and tan coloured minerals infill veinlets (ankerite).			23539	30.18	30.74	0.56	5	0.1	1	25
				23540	31.37	31.63	0.26	5	0.1	1	23
	28.11-28.82 Lighter grey calc sltst quartz vein <2mm.										
	29.15 Dendritic manganese oxide.										
	29.94-31.46 Local increase in graphitic argillite lenses & infilled veinlets. (<1mm)										
	32.44-42.99 Light grey calc sltst. Moderate qtz veining @ 50° to C.A. <5mm, crosscutting. Qtz vein < 8mm @ 65° & 80°.	Silicified		23541	32.55	32.76	0.21	5	0.1	1	14
			Py 15% dissem.	23542	32.76	33.03	0.27	5	0.1	1	16
			Diss pyrite (tr).	23543	33.03	33.63	0.60	5	0.1	1	14
			Pyrite filled veins and vugs.	23544	34.69	34.80	0.11	5	0.1	19	1711
			Py infill veins, diss pyrite (5%).	23545	34.80	35.03	0.23	5	0.1	1	23
			Py filled vein (1mm)	23546	35.37	25.54	0.17	5	0.1	17	1768
			Very fine diss. py (1%).	23547	35.69	35.82	0.13	5	0.1	1	294
			1-3% pyrite.	23548	36.39	36.60	0.21	5	0.1	1	40
			1-3% pyrite.	23549	36.60	36.67	0.07	50	0.2	8	554
			1-3% pyrite.	23550	36.67	36.94	0.27	5	0.2	8	897
			1-3% pyrite.	23551	36.94	37.23	0.29	5	0.1	1	48
			Trace-3% pyrite.	23552	37.23	37.41	0.18	5	0.1	6	369
			Cubic py (<1mm) & diss. py 5% in graph. filled frcts.	23553	37.41	37.65	0.24	5	0.1	1	25
			As above	23554	37.65	37.76	0.11	5	0.2	68	2332
			Tr py, gal, sp	23555	37.76	37.87	0.11	80	27.2	280	3264
			Trace pyrite.	23556	37.87	38.22	0.35	5	0.1	1	29
			Trace pyrite.	23557	38.22	28.48	0.26	5	0.1	1	22
			Py in qtz vn 30%.	23558	38.48	38.58	0.10	120	0.2	1	52
			Trace pyrite.	23559	38.89	39.04	0.15	5	0.1	1	16
			Trace pyrite.	23560	39.20	39.31	0.11	270	0.1	7	166

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Oct. 31/87 Hole No: FITZ 8-87 Page 4 of 5

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
42.99 - 46.43	Medium grey, bcl, locally argillaceous calc sltst. (crinoids to 30%) frcts infilled with graphite. Calc veins < 3mm @ 60°	Local silicifica-	Trace pyrite.	23561	39.81	39.89	0.08	5	0.1	1	21	253 As
			1-4% py; tr gl, sp	23562	39.89	40.01	0.12	0.044	0.4	89	5250	
			1-3% pyrite, sp (<4mm) & diss py.	23563	40.23	40.58	0.35	20	0.1	2	203	
		Increased Fe-carb alteration.	Qtz vein (3mm) in py cubes; & diss.	23564	41.25	41.37	0.12	5	0.1	1	28	
			Trace pyrite.	23565	41.78	41.93	0.15	30	0.1	1	35	
		bcl silicification and Fe-carb alteration.		23566	42.84	43.13	0.30	5	0.1	1	24	
				23567	43.42	43.65	0.23	5	0.1	7	28	
				23568	43.95	44.19	0.24	5	0.1	1	28	
			Very fine diss py (<10%).	23569	44.20	44.45	0.25	5	0.1	1	31	
			As above.	23570	44.45	44.95	0.50	5	0.1	4	19	
				23571	44.95	45.21	0.26	5	0.1	6	14	
				23572	45.26	45.52	0.26	5	0.2	5	13	
			Fn diss py & aggs < 1mm.	23573	45.52	45.68	0.16	5	0.1	6	13	
				23574	45.68	46.00	0.32	5	0.1	6	13	
46.43 - 49.25	Alteration zone. Light grey-green (mottled) bcl calc sltst. Foliation @ 45°. Sparse quartz veins. 48.25-48.65 Little foliation Maroon-light grey crystal alt lst. Maroon mineral in specs (< 2mm) & possibly replacing bcls.	Pervasive sericitic and Fe-carbonate. alteration to volcanic etc.		23575	46.34	46.79	0.45	5	0.1	12	35	
				23576	46.79	47.15	0.36	5	0.1	8	38	
				23577	47.15	47.70	0.55	5	0.1	35	47	
				23578	47.70	48.25	0.55	5	0.2	9	57	
				23579	48.25	48.65	0.40	5	0.1	6	17	
			Diss & aggs py (to 15%) in volc.	23580	48.65	49.27	0.62	5	0.2	31	55	
49.25 - 51.00	Fine grained dark green tuff. Sparse Qtz-carb vein @ 45°, 80° < 5mm @ 80°. Local zones brown stained volc.	Local Fe-carb alteration.										

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Oct. 31/87 Hole No: FITZ 8-87 Page 5 of 5

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
51.00 - 51.22	Gossanous orange brown alteration zone between volc & alt. sltst.	Silicified.									
51.22 - 58.61	Altered calc sltst as above. Folia- tion is most intense near above alteration's zone for 40cm. @ 50°.										
	Sparse qtz vein 0°, 70° to C.A. <3mm Local dendritic MnO ₂			23581	50.97	51.20	0.23	5	0.1	14	314
				23582	51.20	51.86	0.66	5	0.1	3	45
				23583	51.86	52.18	0.32	5	0.1	8	40
				23584	52.18	52.51	0.33	5	0.1	5	29
				23585	52.38	52.68	0.30	5	0.1	9	30
				23586	53.24	53.67	0.43	5	0.1	6	25
				23587	53.67	54.19	0.52	5	0.1	6	27
				23588	54.19	54.72	0.53	5	0.1	6	20
				23589	54.72	54.93	0.21	5	0.1	9	31
				23590	54.93	55.24	0.31	5	0.1	6	19
				23591	55.24	55.58	0.34	5	0.1	2	20
				23592	55.58	56.26	0.68	5	0.1	5	21
				23593	56.26	56.55	0.29	0.033	0.5	12	262
				23594	56.55	56.93	0.38	5	0.1	6	26
				23595	56.93	57.37	0.44	5	0.1	9	14
				23596	57.61	57.77	0.16	5	0.1	8	21
				23597	57.77	58.61	0.84	5	0.1	7	15
				23598	58.61	58.99	0.38	5	0.1	129	255
				23599	59.61	60.02	0.41	5	0.2	92	168
				23600	61.55	61.73	0.38	5	1.0	266	933
				23601	66.05	66.31	0.26	5	0.1	103	88
				23602	70.06	70.03	0.17	5	0.1	78	93
				23603	71.07	71.19	0.12	5	0.3	168	88
58.61 - 71.63 EOH	Dark green fine grained tuff. Mod. Qtz-carb vein @ 30°, 45° (< 4mm)	Local chloritic alteration.	Trace pyrite. Trace pyrite. Trace pyrite. Py & /out & in veinlets (30%). Trace pyrite. Trace pyrite.								

144
Pb

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: V227 Logged by: GML Date: Nov. 4/87 Hole No: FITZ 9-87 Page 2 of 4

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	20.30-28.02 Arg. laminations are mottled in appearance, i.e. not as parallel as top of unit due to fracturing and shearing. Intense quartz vein. Local areas (< 2cm) of parallel laminations.		2-4% py. Mass py in arg. lam, arbes to 2mm Quartz vein.	22857	20.40	20.53	0.13	40	0.7	27	547
				22852	21.21	21.34	0.13	5	0.3	5	240
				22853	21.34	21.52	0.18	5	0.2	2	72
			Diss & aggs pyrite.	22854	22.12	22.64	0.52	5	0.2	4	29
			Trace pyrite.	22855	22.64	22.94	0.30	5	0.1	1	12
			Trace pyrite.	22856	23.56	23.81	0.25	20	0.3	13	30
			Trace pyrite.	22857	24.11	24.47	0.36	5	0.1	8	31
				22858	24.47	24.69	0.22	5	0.1	4	24
				22859	26.28	26.46	0.18	5	0.1	6	17
28.02 - 32.93	Medium grey bcl calc sltst. Highly fractured and veined with Qtz-carb @ 40°, 60° (< 4mm) Stylolitic. Local bcl mounds 1cm to 30cm.	Silicified. Local Fe-carb alteration associated with Qtz-carb veining.	Trace pyrite.	22860	31.60	31.75	0.15	5	0.1	1	10
32.93 - 42.07	32.93-33.69 Mottled white/tan/light grey bcl calc sltst. Sparse Qtz vein @ 30° <4mm. Sparse graphite filled fractures.	Alteration as above.									
42.07 - 44.24	Medium grey bcl arg calc sltst. Arg laminations < 2mm @ 30°. Sparse Qtz-carb vein @ 50°, 80° < 2mm.			22861	43.71	43.95	0.24	5	0.2	6	33
	43.16-44.24 Ank veinlets (< 2mm) @ 75°, 90° and infilled fractures. Brecciated, clasts < 2cm.			22862	43.95	44.13	0.18	5	0.1	2	11
44.24 - 48.23	Dark grey arg bxd calc sltst. Clasts to 2cm. Minor ankerite cement and veins. Sparse Qtz vein @ 60°.	Silicification.									
	44.72-45.24 Dark grey calc sltst. Sparse Qtz-carb vein < 3mm @ 70°		Fine to medium diss (<3mm) 1-3% py in gouge and trace py	22908	45.09	45.24	0.15	5	3.9	21	616

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Nov. 4/87 Hole No: FITZ 9-87 Page 3 of 4

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	45.24-46.63 Medium grey calc sltst Moderate to high fracturing and vein- ing. Qtz-carb veins @ 30°, 70°, 80° < 5mm.										
48.23 - 59.44	Medium grey, bcl calc sltst. fractured and veined to qtz-carb @ 40°, 70° < 4mm.	Silicified. Fe-carbonate alteration common.	Trace pyrite.	22863	47.55	47.95	0.40	5	0.2	3	21
			Trace pyrite.	22864	49.80	50.17	0.37	5	0.1	5	11
			Trace pyrite	22865	51.56	52.17	0.61	5	0.1	1	33
	52.17-52.27 Gossanous horizon.		Trace pyrite.	22866	52.17	52.39	0.22	5	0.2	90	113
			15% pyrite in 3cm quartz vein.	22867	52.39	52.56	0.17	20	0.5	20	57
	52.42-59.44 Local intense bxn.	Increased Fe-carb and sericite alteration.	Trace pyrite.	22868	52.56	52.96	0.40	5	0.1	2	13
				22869	54.20	55.08	0.88	5	0.1	1	13
			Trace pyrite.	22870	55.08	55.27	0.19	5	0.1	1	14
			Trace pyrite.	22871	55.27	55.66	0.39	5	0.3	2	21
			Trace pyrite.	22872	55.66	56.26	0.60	5	0.1	1	20
	55.98-56.25 Brecciated light grey sltst, as above.			22873	56.26	56.57	0.31	5	0.1	141	72
	56.39-56.48 Gossanous horizon.		Py diss (3-5%) aggs to 1cm.	22874	56.57	56.88	0.31	5	0.1	68	20
			Py (to 15%).	22875	56.88	57.25	0.37	5	0.2	66	55
			Diss py throughout and along qtz vein to 20%.	22876	57.25	57.65	0.40	5	0.2	101	123
	57.65-58.05 Medium grey to white sltst.		Trace pyrite.	22877	57.65	58.17	0.52	5	0.1	10	11
	58.05-58.54 Brecciated. Medium grey sltst.			22878	58.17	58.29	0.12	5	0.1	2	21
			Trace py throughout section.	22879	58.29	58.72	0.43	5	0.1	8	23
				22880	58.72	58.92	0.20	5	0.1	2	22

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: GML Date: Nov. 4/87 Hole No: FITZ 9-87 Page 4 of 4

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
59.44 - 69.88	Interbedded light to medium grey bcl calc sltst. Local bcl mounds to 2cm. Moderate qtz-carb veining @ 55°, 30° Local arg filled fractures < 1mm.	Local Fe-carb alteration.		22881 22882 22883 22884 22885 22886	60.78 61.00 62.88 63.62 65.11 65.48 65.74 66.15 66.15 66.52 66.52 66.92	0.22 0.74 0.37 0.41 0.37 0.40		5 5 5 5 5 5	0.1 0.1 0.1 0.1 0.1 0.1	2 2 5 2 2 2	20 14 10 11 15 19
	59.44-60.78	Silicified.	Trace diss py, as above. Trace pyrite. Trace pyrite.	22887 22888	69.17 69.26 69.46 69.76	0.09 0.30		5 5	0.3 0.1	9 1	20 12
69.88 - 71.63	Dark grey bcl, locally arg. sltst. Arg laminations to 2cm. Moderate qtz-carb vein @ 30°, 45°, 0°. Intensely fractured & sheared @ 45° Local zones more arg. less bcl. (to 10cm).	Silicified.	Trace pyrite.	22889	70.40 70.84	0.44		5	0.2	7	34
71.63 - 73.00	Medium grey bcl calc sltst. Moderate qtz-carb veining @ 30°, 55° (< 5mm). Local ank alteration associated with qtz-carb veins.	Silicified. Minor Fe-carb alteration	Diss py throughout.	22890 22891	71.60 71.74 72.07 72.51	0.14 0.44		5 5	0.3 0.1	29 1	31 24
73.00 - 78.33 EOH	Dark grey bcl arg calc sltst. Moderate qtz-carb vein @ 20°, 30° < 5mm. Bedding to 7cm. Local bcl mounds 0.5 to 4cm. Stylolitic.	Silicified.		22892	74.15 74.31	0.16		5	0.1	1	23

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Length(m): 80.77 Grid: L23+60S Drilled: : Objective: INTERSECT HIGH Hole No: FITZ 10-87 Page 1 of 6
 Project: FITZWATER Dip: Vertical Latitude: : Contractor: TONTO GRADE VEINS DISCOVERED Hole Survey Type:
 Proj.No: V227 Azimuth: : Departure: : Logged by: TMN IN M6 CREEK. DETERMINE Depth Dip Azi
 Client: CREW Core Size: BQ Collar Elev: 560m Date Logged: Dec. 6/87 GEOLOGICAL PROFILE FOR NO TEST
 Casing: OUT Remarks: : THIS AREA OF THE
 PROPERTY.

From-To Metres	Lithology	Alteration	Mineralization/ Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
0-4.57	CASING.										
4.57 - 10.97	Bioclastic calc siltstone. Medium grey. Unsorted. Clasts to 1cm. B.C.A. 60°. Qtz-carb filled shears @ 10-20° throughout. - bcl calc sltst. - Qtz vein @ 70° to C.A. (8cm). - bcl calc sltst - 5cm qtz vein @ 40° to C.A.	Minor ankerite. Minor ankerite	Trace pyrite. 70% py, 1-3% asp, 1-3% cp. Trace pyrite. 15% pyrite, trace sp.	25151 25152 25153 25162	10.25 10.35 10.44 10.74	10.35 10.44 10-74 10.79	0.10 0.09 0.30 0.05	5 0.588 140 0.036	0.4 2.14 3.1 1.22	7 8897 216 3460	20 701 58 300
10.97 - 12.80	Felsic intrusive. Pale green. Locally oxidized. Aphanitic homogeneous groundmass. Qtz-carb filled shears throughout. Mineralization in shear associated disseminated. - thick qtz in felsic intrusive. - felsic intrusive. - stockwork qtz in felsic intrusive. - stockwork qtz in felsic intrusive. - 1cm qtz vein @ 10° to C.A.	Locally oxidized. Minor ankerite. Minor oxidization. 20% oxidization.	Trace pyrite. Trace pyrite. 1-3% pyrite. 1-3% pyrite. Trace pyrite.	25154 25163 25155 25156 25157	10.79 11.28 11.66 11.94 12.54	11.28 11.66 11.94 12.54 12.79	0.49 0.38 0.28 0.60 0.25	5 5 5 5 5	0.9 0.7 0.3 0.4 0.4	108 62 45 60 54	178 209 151 150 131
12.80 - 16.06	Dark grey to black calc sltst. Sparse crinoid sections. Sparse qtz-carb veining @ 10°, 30°, 60°, 80° to C.A. - calc sltst - calc sltst - calc sltst - calc sltst		Trace medium grained cubic py diss. throughout. Trace pyrite. Trace pyrite. Trace pyrite. Trace pyrite.	25158 25159 25160 25161	12.79 13.26 13.72 15.96	13.26 13.72 14.47 16.43	0.47 0.46 0.75 0.47	5 5 5 5	0.5 0.5 0.3 0.6	43 60 8 50	52 54 11 78

172
Pb
205
As
300
Pb
218
As



Co: MPH Project: FITZWATER Logged by: TMN Date: Dec. 6/87 Hole No: FITZ 10-87 Page 2 of 6

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
16.06 - 19.24	Light grey calc sltst. Up to 3% local crinoid section. BCA 40-55° (variable). Minor qtz-carb veining throughout. - 2cm qtz-carb vein @ 70° to C.A. in calc sltst. - calc sltst. - calc sltst. - calc sltst. - calc sltst. - 8cm qtz vein @ 80° to C.A. in calc sltst. - calc sltst. - calc sltst.	Minor Fe-carb alteration throughout.	1-3% pyrite, trace sp and cp. Trace pyrite. Trace pyrite. Trace pyrite. Trace pyrite. 20% pyrite, trace asp and cp. 20% py, tr asp & cp. Trace pyrite.	25201 25202 25203 25204 25205 25206 25207 25208	16.43 16.49 16.49 16.97 16.97 17.57 17.57 17.92 17.92 18.11 18.11 18.21 18.21 18.62 18.62 0.62	0.06 0.48 0.60 0.35 0.19 0.10 0.41 0.62		140 5 5 5 5 0.810 120 5	0.42 0.6 0.2 0.5 0.6 4.06 1.2 0.7	3540 78 13 22 34 2.66 125 37	207 33 77 95 39 1671 76 65
19.24 - 22.44	Dark grey to black calc sltst as above. BCA 45-60°. - black calc sltst.		Trace pyrite.	25209	19.24 19.63	0.39		5	0.4	10	63
22.44 79.17	Light grey, locally bcl, calc sltst as above. Local bxd horizons with ankerite cementation. - calc sltst. - calc sltst. - calc sltst. - stockwork qtz in calc sltst. - calc sltst. - 2cm qtz vein @ 50° to C.A. in calc sltst. - calc sltst. - 5cm qtz-carb vein @ 80° to C.A. in calc sltst. - calc sltst.	Minor Fe-carb alteration throughout. Fe-carb alt'd. Fe-carb alt'd. Fe-carb alt'd. Fe-carb alt'd. Fe-carb alt'd. Minor Fe-carb alteration.	Trace pyrite. Trace pyrite. Trace pyrite. Trace py, trace sp. Trace pyrite. 20% pyrite, trace Trace pyrite. 30% pyrite, trace asp Trace pyrite.	25210 25211 25212 25213 25214 25215 25216 25217 25218	23.12 23.39 23.39 23.91 23.91 24.09 24.09 24.51 24.51 25.12 26.52 26.64 26.64 26.88 26.88 26.96 26.96 27.41	0.27 0.52 0.18 0.42 0.61 0.12 0.24 0.08 0.45		5 5 5 60 5 0.015 5 0.020 5	0.4 0.6 0.5 0.8 0.3 0.54 0.4 6.7 0.4	18 29 11 51 7 781 2 946 1	50 136 1263 269 186 111 14 148 27

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: TMN Date: Dec. 6/87 Hole No: FITZ 10-87 Page 3 of 6

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	- calc sltst.	Minor Fe-carb alteration.	Trace pyrite.	25219	27.41	27.70	0.29	5	1.4	37	672
	- calc sltst.	Minor Fe-carb alteration.	Trace pyrite.	25220	30.75	30.89	0.14	5	0.5	1	9
	30.00m+ - increasing amounts of Fe-carb alteration of matrix. Clasts bedding features etc. still distinguishable.										
	- calc sltst (light grey).	Fe-carb alt'd.	Trace pyrite.	25221	34.50	34.68	0.18	5	0.6	1	22
	- calc sltst (light grey).	Fe-carb alt'd.	Trace pyrite.	25222	38.49	38.68	0.19	5	0.4	1	22
	- calc sltst (light grey).	Fe-carb alt'd.	Trace pyrite.	25223	40.46	40.82	0.36	5	1.7	17	25
	- calc sltst qtz-carb veins (to 1cm) @ 90° to C.A., 45° to C.A.	Fe-carb alt'd.	Trace pyrite.	25224	43.85	44.38	0.53	5	0.7	1	45
	- light grey calc sltst.	Fe-carb alt'd.	Trace pyrite.	25225	45.35	45.70	0.35	5	0.7	27	31
		Fe-carb alt'd.	Trace pyrite.	25226	45.70	46.12	0.42	5	0.6	12	13
		Fe-carb alt'd.	Trace pyrite.	25227	46.12	46.36	0.24	5	0.6	4	16
	- light grey calc sltst.	Fe-carb alt'd.	Trace pyrite.	25228	48.08	48.55	0.47	5	0.4	1	12
	- 4cm qtz-carb vein @ 70° to C.A. in light grey calc sltst.	Fe-carb alt'd.	4-7% po, 2-4% cp, trace pyrite.	25229	48.55	48.62	0.07	180	3.06	2.02	855
	- light grey calc sltst.	Fe-carb alt'd.	Trace po	25230	48.62	48.87	0.25	5	0.8	23	18
	- light grey calc sltst.	Fe-carb alt'd.	Trace pyrite.	25231	49.30	49.39	0.09	5	1.5	26	1154
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25232	50.88	51.16	0.28	5	0.6	2	16
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25233	51.16	51.46	0.30	5	0.6	4	14
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25234	51.87	52.52	0.65	100	0.8	20	183
	- light grey calc sltst.	Moderate Fe-carb alteration.		35054	52.52	52.76	0.24	5			12

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: TMN Date: Dec. 6/87 Hole No: FITZ 10-87 Page 4 of 6

From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	- light grey calc sltst.	Moderate Fe-carb alteration.	Trace pyrite.	25235	52.76	52.98	0.22	240	1.1	9	32
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25236	52.98	53.32	0.34	5	0.7	2	18
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25237	53.32	53.77	0.45	5	0.4	1	14
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25238	53.77	54.25	0.48	5	0.6	1	16
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25239	54.25	54.73	0.48	5	0.6	1	9
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25240	54.73	55.58	0.85	200	0.9	7	13
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace, trace pyrite	25241	55.58	56.13	0.57	5	0.5	1	10
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace, trace pyrite	25242	56.16	56.52	0.36	5	0.4	1	10
	- light grey calc sltst.	Minor Fe-carb alt'd	Trace pyrite.	25243	60.68	61.15	0.47	5	0.5	1	12
	- qtz-carb stockwork vein in light grey calc sltst.	Intense Fe-carb	20% pyrite, trace asp	25169	61.15	61.51	0.36	0.030	4.2	395	45
	- light grey calc sltst.	Minor Fe-carb alt'd	Trace pyrite.	25244	61.51	61.89	0.38	5	0.6	3	9
	- light grey calc sltst.	Minor Fe-carb alt'd	Trace, trace pyrite	25245	62.80	63.09	0.29	5	0.5	1	12
	- light grey calc sltst.	Minor Fe-carb alt'd	Trace pyrite & po.	25246	63.09	63.18	0.09	5	5.6	442	30
	- light grey calc sltst.	Minor Fe-carb alt'd	Trace, trace pyrite	25247	63.18	63.38	0.20	5	0.9	63	19
	- qtz-carb stockwork	Intense Fe-carb alteration.	60% pyrite, 15% asp	25170	63.38	63.57	0.19	0.143	1.68	6526	587
	- qtz-carb stockwork	Intense Fe-carb alteration.	20% pyrite, 3-5%	25171	63.57	63.73	0.16	0.047	12.9	1288	200
	- qtz-carb stockwork.	Intense Fe-carb alteration.	2-4% pyrite, 1-3% po, trace asp.	25248	63.73	63.94	0.21	10	2.4	169	41
	- light grey calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25249	63.94	64.20	0.26	5	0.4	12	19
	- qtz-carb stockwork.	Intense Fe-carb alteration.	1-5% pyrite, trace po and asp.	25250	64.20	64.47	0.27	0.010	1.1	302	47
	- qtz-carb stockwork.	Intense Fe-carb alteration.	1-3% pyrite, 1-3% po, trace asp.	25251	64.47	64.85	0.38	0.041	4.7	550	64

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	- light grey calc sltst. BCA 75-80°	Intense Fe-carb alt'd, mn oxid'n	1-3% pyrite, 1-3% po, trace asp.	25252	64.85	65.18	0.33	0.010	1.6	165	50	202
	- light grey calc sltst. BCA 75-80°	Intense Fe-carb alteration.	1-3% pyrite, 1-3% po, trace asp.	25253	65.18	65.62	0.44	90	1.3	137	35	As 325
	- light grey calc sltst. BCA 75-80°	Intense Fe-carb alteration.	Trace pyrite.	25254	65.62	66.14	0.52	5	0.3	9	65	As
	- light grey calc sltst. BCA 75-80°	Intense Fe-carb alteration.	Trace, trace pyrite	25255	66.95	67.16	0.21	5	0.4	21	59	
	- light grey calc sltst. BCA 75-80°	Moderate Fe-carb alteration.	Trace pyrite.	25256	67.68	68.24	0.56	5	0.2	9	67	
	- light grey calc sltst. BCA 75-80°	Intense Fe-carb alteration.	1-3% pyrite.	25257	68.24	68.41	0.17	40	0.5	21	39	
	- light grey calc sltst. BCA 75-80°	Moderate Fe-carb alteration.	Trace pyrite.	25258	68.41	68.75	0.34	5	0.4	8	44	
	- light grey calc sltst. BCA 75-80°	Moderate Fe-carb alteration.	Trace pyrite.	25259	68.75	69.17	0.42	5	0.3	6	30	
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	1-3% pyrite.	25260	69.17	69.45	0.28	250	0.2	17	27	
	- light grey calc sltst.	Moderate Fe-carb alteration.	Trace pyrite.	25261	69.45	69.92	0.47	5	0.4	3	35	
	- light grey calc sltst.	Moderate Fe-carb alteration.	Trace pyrite.	25262	69.92	70.32	0.40	5	0.3	2	26	
	- light grey calc sltst.	Intense Fe-carb alteration.	1-3% pyrite.	25263	70.32	70.47	0.15	40	0.5	7	29	
	- light grey calc sltst.	Moderate Fe-carb alteration.	Trace, trace pyrite	25264	70.47	70.77	0.30	5	0.3	4	53	
	- light grey calc sltst.	Moderate Fe-carb alteration.	1-3% pyrite.	25265	71.80	72.03	0.23	5	0.2	7	25	639
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	2-4% pyrite, trace po and asp.	25172	72.03	72.55	0.52	0.016	2.8	312	49	As 573
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	2-4% pyrite, 1-3% po, trace asp.	25173	72.55	72.96	0.41	0.049	4.3	394	65	As 2242
	- light grey calc sltst.	Moderate Fe-carb alteration.	Trace pyrite.	25266	72.96	73.36	0.40	5	0.6	11	12	As

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
-	- light grey calc sltst.	Moderate Fe-carb alteration.	Trace pyrite.	25267	73.79	74.07	0.28	5	0.5	28	23
	- light grey calc sltst.	Moderate Fe-carb alteration.	Trace pyrite.	35055	74.07	74.56	0.49	8	0.1	2	21
	- light grey calc sltst	Intense Fe-carb alteration.	1-3% pyrite, trace asp.	25268	74.56	74.81	0.25	140	1.5	13	26
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	1-3% pyrite, trace asp and po.	25174	74.81	75.21	0.40	0.032	4.0	459	71
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	3-5% pyrite, 1-3% po, trace asp.	25175	75.21	75.60	0.39	0.013	5.9	699	83
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	3-5% pyrite, 1-3% po, trace asp.	25176	75.60	76.00	0.40	0.044	2.7	182	48
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	Trace pyrite and po	25177	76.00	76.28	0.28	5	0.7	27	30
	- stockwork qtz-carb veining.	Intense Fe-carb alteration.	Trace pyrite.	25269	76.28	76.69	0.41	5	0.3	1	22
	- light grey-green calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25270	76.69	77.12	0.43	5	0.4	1	24
	- light grey-green calc sltst.	Intense Fe-carb alteration.	Trace pyrite.	25271	77.12	77.72	0.60	5	0.3	1	28
	- stockwork qtz-carb in light grey-green calc sltst.	Intense Fe-carb alteration	Trace pyrite.	25272	77.72	78.09	0.37	5	0.2	1	27
	- stockwork qtz-carb in light grey-green calc sltst.	Intense Fe-carb alteration.	1-3% pyrite, trace asp.	25273	78.09	78.65	0.56	30	0.4	1	34
				25178	78.65	79.17	0.52	40	0.6	12	33
79.17 - EOH @ 80.77	Dark green-black lap tf. Mtx & clasts are dark green (basaltic?). Clasts angular, to 0.7cm. Locally garnetiferous. Minor epidote and carb alt'd.										
	- lap tf.	Minor Fe-carb alt'd	1-3% pyrite.	25274	79.17	79.53	0.36	60	0.8	366	73
	- lap tf.	Mnr garnetification	Trace pyrite.	25275	79.53	79.89	0.36	5	0.4	41	17
	- lap tf.	Mnr garnetification	Trace pyrite.	25276	79.89	80.77	0.89	5	0.3	28	44

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
26.38 - 108.77	Light-medium grey calc sltst as above. Local horizons of intense Fe carb and/or silicification and/or sericitization and/or garnet-amphibole replacement common (leaves a mottled yellow-green-grey colouration within light grey calc siltstone). ls gen assoc. with stockwork veining and/or intense shearing.										
	- alt'd/mottled calc sltst with stockwork Fe-carb veining.	Intense (see above)	1-3% pyrite, trace po and cp.	35063	50.49	51.15	0.66	26	1.5	372	53
	-alt'd/mottled calc sltst with stockwork Fe-carb veining.	Intense (see above)	2-4% pyrite, 1-3% po and cp.	25180	51.52	51.92	0.40	30	6.3	920	54
	- alt'd/mottled calc sltst horizon.		1-3% py, 1-3% po & cp	35064	52.60	53.37	0.77	5	0.4	368	174
	- 53.95-54.73: alt'd/mottled calc sltst horizon.										
	- light grey calc sltst.		Trace pyrite.	35065	65.21	65.98	0.69	6	0.1	17	16
	- altered sltst horizon as above with qtz-carb stockwork.		10% pyrite, 5-8% asp, trace po.	25164	65.90	66.81	0.91	0.254	13.0	758	550
	- light grey calc sltst.		Trace pyrite & po.	35066	66.81	67.42	0.61	6	0.1	4	26
	- alt'd/mottled calc sltst horizon.	Garnetification.	2-4% po & sp, tr cp & py	25165	71.58	72.08	0.50	20	0.7	304	51
	- alt'd/mottled with stockwork qtz-carb veining.	Garnetification.	2-5% po, 1-3% cp, Trace pyrite & asp.	25166	86.63	87.42	0.79	5	3.7	641	63
	- alt'd/mottled with stockwork qtz-carb veining.		10-15% py, 2-4% po, 1-3% asp.	25167	87.42	87.71	0.29	290	4.9	707	89
	- alt'd/mottled with stockwork qtz-carb veining.		3-5% po, 2-4% py, 1-3% mgtt.	25168	87.71	88.27	0.56	5	0.9	261	82
	88.27+ Matrix becomes very fine grained with intensity of Fe-carb alteration.										

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	- light grey calc sltst.		Trace pyrite.	25067	91.42	91.94	0.52					276
	- altered/mottled calc sltst with stockwork qtz-carb veining.		5-8% pyrite, 1-3% cp.	25181	91.94	92.31	0.37	5 0.021	0.1 8.4	7 1286	41 953	Pb 2508
	- altered/mottled calc sltst with stockwork qtz-carb veining.		5-8% py, 1-3% sp and gl, trace cp.	25182	92.31	92.74	0.43	0.021	0.64	2496	1.00	As 4619
	- altered/mottled calc sltst with stockwork qtz-carb veining.		1-3% py & asp, trace gl & cp and sp	25183	92.74	93.02	0.28	100	7.0	712	902	Pb 1931
	- altered/mottled calc sltst with stockwork qtz-carb veining.		3-5% pyrite, trace asp and cp.	25184	93.15	93.76	0.61	20	1.5	141	44	As 339
	- altered/mottled calc sltst with stockwork qtz-carb veining.		2-4% pyrite, trace asp & cp & po.	25185	93.76	94.10	0.34	40	1.5	162	32	Pb 285
	- altered/mottled calc sltst with stockwork qtz-carb veining.		2-4% py & po, 1-3% cp, trace asp.	25186	94.10	94.52	0.42	20	3.9	361	61	As 98
	- altered/mottled calc sltst with stockwork qtz-carb veining.		2-4% py & po, trace cp and asp.	25187	94.52	94.92	0.40	40	3.8	601	255	As 87
	- altered/mottled calc sltst with stockwork qtz-carb veining.		2-5% py & po, trace cp and asp.	25188	94.92	95.51	0.59	60	2.0	240	39	As 115
	- altered/mottled calc sltst with stockwork qtz-carb veining.		2-4% py, trace cp.	25189	95.51	95.87	0.36	290	3.4	543	59	As 204
	- altered/mottled calc sltst with stockwork qtz-carb veining.		1-3% pyrite.	35068	95.87	96.45	0.58	21	1.9	357	108	As 552
	- light grey calc sltst with 2cm qtz vein @ 55° to C.A.		40% pyrite in vein.	25190	98.97	99.20	0.23	130	0.6	10	24	As 552
	- light grey calc sltst with stockwork qtz-carb veining.		Trace pyrite and po	35069	100.22	100.85	0.63	5	0.1	2	14	As
	- mottled calc sltst with stockwork qtz-carb veining.		10-15% py, 1-3% asp, trace cp and po.	25191	100.85	101.37	0.52	0.062	9.7	1990	140	5705
	- mottled calc sltst with stockwork qtz-carb veining.		2-4% pyrite.	25192	101.37	101.78	0.41	40	2.1	244	41	As 355

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	- Mottled calc sltst with stockwork qtz-carb veining.		2-4% py, trace po.	25193	101.78	102.56	0.78	50	2.3	243	49	493 As
	- Mottled calc sltst with stockwork qtz-carb veining.		3-5% py, 2-4% po, trace cp.	25194	102.56	102.86	0.30	70	0.9	54	23	277 As
	- Mottled calc sltst with stockwork qtz-carb veining.		3-5% py, 2-4% po, trace cp.	25195	102.86	103.39	0.53	110	1.3	237	41	
	- Mottled calc sltst with stockwork qtz-carb veining.		1-3% py, trace po and cp.	25070	103.39	104.01	0.62	5	0.7	832	92	
	- Mottled calc sltst with stockwork qtz-carb veining.		2-4% pyrite.	35071	104.01	104.71	0.70	5	2.0	394	68	506 As
	- Mottled calc sltst with stockwork qtz-carb veining.		2-5% pyrite, trace po.	35072	104.71	105.65	0.94	5	0.8	308	64	
105.77 - 108.10	Tuff. Fine grained matrix with clasts to 8mm (subrounded). Local carb and epidote alteration. Local garnetifi- cation. Trace dissem py throughout.											
108.10 - 114.45	Intensely altered calc sltst as above.											
	- Mottled calc sltst with stockwork qtz-carb veining.		3-5% pyrite, 2-4% po, trace cp.	25196	109.14	109.58	0.44	400	2.4	450	36	
	- Mottled calc sltst with stockwork qtz-carb veining.		1-3% pyrite, trace po and cp.	35073	109.58	110.12	0.54	48	0.3	172	52	
	- Mottled calc sltst with stockwork qtz-carb veining.		3-5% po, 2-4% py, trace cp.	25197	110.12	110.31	0.19	100	6.7	1452	82	
	- Mottled calc sltst with stockwork qtz-carb veining.		Trace pyrite.	35074	110.31	110.42	0.11	132	0.4	144	22	
	- Mottled calc sltst with stockwork qtz-carb veining.		4-7% pyrite, 2-4% po.	25198	110.42	110.87	0.45	0.015	3.8	607	62	340 As
	- Mottled calc sltst with stockwork qtz-carb veining.		15-20% po, 5-8% py	25199	110.87	111.06	0.23	1.240	10.5	1242	60	2235 As
	- Mottled calc sltst with stockwork qtz-carb veining.		Trace pyrite.	35075	111.06	111.86	0.80	18	0.1	7	29	
	- Mottled calc sltst with stockwork qtz-carb veining.		1-3% pyrite, trace	35076	111.86	112.35	0.49	10	0.1	13	32	

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	- Mottled calc sltst with stockwork qtz-calc veining.		4-7% po, 3-5% cp, 1-3% pyrite.	25200	112.35	112.72	0.37	270	1.44	7593	270	
	- Mottled calc sltst with stockwork qtz-calc veining.		Trace pyrite.	35077	112.72	113.13	0.41	20	0.1	5	49	
114.45 - 115.30	Tuff as above.											
115.30 - 120.39	Light grey calc sltst. Wide horizons intensely altered as above.											
	- Mottled calc sltst horizon as above.		3-5% py, trace po & mgst and cp.	25437	115.47	116.12	0.65	210	0.7	115	23	114
	- light grey calc sltst with qtz vein @ 30° to C.A. (2cm).		30% pyrite in vein.	35078	116.12	116.52	0.40	112	0.4	41	12	112
	- quartz vein.		20% pyrite, trace asp.	25438	116.52	116.62	0.10	0.035	0.9	26	20	207
	- quartz vein.		1-3% pyrite.	25439	116.62	116.94	0.32	5	0.3	1	30	As
	- quartz vein.		10-15% pyrite, trace asp.	25440	116.94	117.21	0.27	0.092	2.2	13	47	174
	- quartz vein.		Trace pyrite.	25441	117.21	117.54	0.33	20	0.2	11	6	As
	- quartz vein.		5-8% pyrite, trace asp.	25442	117.54	117.96	0.42	0.263	10.0	310	151	172
	- light grey calc sltst.		Trace pyrite.	35079	117.96	118.44	0.48	40	0.2	34	11	Pb
	- light grey calc sltst.		Trace pyrite.	35080	123.36	123.80	0.44	8	0.1	6	6	289
	- Mottled calc sltst with stockwork qtz-carb veining.		30% pyrite, 2-4% asp.	25443	123.80	124.05	0.25	0.248	19.3	1963	335	As
	- Mottled calc sltst with stockwork qtz-carb veining.		25% pyrite, 2-4% asp.	25444	124.05	124.28	0.23	0.176	12.2	1307	313	174
	- Mottled calc sltst with stockwork qtz-carb veining.		15% pyrite, trace po.	25445	124.28	124.50	0.22	0.009	1.9	287	26	Pb
												1696
												As
												51
												Pb
												1554
												As
												119
												As

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	- Mottled calc sltst with stockwork qtz-carb veining.		10-15% pyrite, trace po and asp.	25446	124.50	124.79	0.29	0.061	2.1	187	26	544
	- Mottled calc sltst with stockwork qtz-carb veining.		10-15% pyrite, trace po and asp	25447	124.79	125.10	0.31	0.225	4.1	147	36	As 74 Pb 957
	- Mottled calc sltst with stockwork qtz-carb veining.		2-4% pyrite.	25448	125.10	125.42	0.32	0.105	2.5	242	29	As 428
	- Mottled calc sltst with stockwork qtz-carb veining.		2-5% py & po, trace mgst and cp.	25449	125.42	125.81	0.39	0.058	2.2	298	38	As 1011
	- Mottled calc sltst with stockwork qtz-carb veining.		2-5% pyrite, trace	35081	125.81	126.58	0.77	0.026	3.2	549	53	As
	- Mottled calc sltst with stockwork qtz-carb veining.		4-6% pyrite, 1-3% po.	25450	126.58	127.10	0.52	0.088	8.7	1075	106	54 Pb 2408
	- Mottled calc sltst with stockwork qtz-carb veining.		10-15% pyrite, 1-3% po, trace asp.	25451	127.10	127.54	0.44	0.075	14.2	1678	159	As 42 Pb 2863
	- Mottled calc sltst with stockwork qtz-carb veining.		10-15% pyrite, 1-3% po, trace asp.	35082	127.54	127.89	0.35	0.083	10.0	1416	217	As
	- Mottled calc sltst with stockwork qtz-carb veining.		10-15% pyrite, 1-3% po, trace asp.	25452	127.89	128.39	0.50	0.042	12.5	2342	168	4093 As
	- Mottled calc sltst with stockwork qtz-carb veining.		2-4% pyrite, 1-3% po, trace asp.	35083	128.39	129.00	0.61	0.015	2.6	483	81	
	- Mottled calc sltst with stockwork qtz-carb veining.		10% pyrite, trace po and cp.	25453	129.00	129.16	0.16	0.078	0.66	3702	308	125 Pb 1712
	- Mottled calc sltst with stockwork qtz-carb veining.		10% pyrite, 2-4% po, trace cp.	35084	129.16	129.78	0.62	0.020	1.3	154	129	As
	- Mottled calc sltst with stockwork qtz-carb veining.		25% pyrite, 2-4% asp, trace po.	25454	129.78	130.15	0.37	0.041	2.0	196	38	51 Pb 5337
	- Mottled calc sltst with stockwork qtz-carb veining.		25% pyrite, 2-4% asp, trace po.	25455	130.15	130.39	0.24	0.022	1.0	119	28	As 4639 As

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
130.39 - 130.75	Baltic flow(?) Dark green-black 2-4% calcitic amygdules. Chill margins @ both contacts. Minor epidote alt'n. -bslte flow	Minor epidote.	Trace pyrite.	35085	130.39	130.75	0.36	5	0.1	36	235	
130.75 - 132.83	Mottled calc sltst with stockwork qtz-calc veining as above.		4-6% pyrite, trace cp.	25456	130.75	131.39	0.64	0.013	2.8	325	73	42 Pb 561 As
132.83 - 133.24	Basaltic flow as above.											
133.24 - 138.19	Mottled calc sltst with stockwork qtz-carb veining as above.		4-6% pyrite, trace po and cp.	25457	133.96	134.32	0.36	0.017	2.0	356	38	957 As
	"		4-6% pyrite, trace po and cp.	25458	134.32	134.69	0.37	100	0.8	101	34	511 As
	"		5-8% pyrite, trace po and asp.	35086	135.85	136.44	0.59	0.009	1.2	253	42	
138.19 - 138.99	Basaltic flow as above.											
138.99 - 156.63	Mottled calc sltst with stockwork qtz-calc veining as above.		4-7% py, tr asp & po.	25087	138.99	139.82	0.83	0.047	2.4	396	56	
	"		5-10% py, 1-3% asp.	35088	139.82	140.21	0.39	0.058	4.8	626	97	
	"		2-4% pyrite and po, Trace asp.	35089	140.21	140.55	0.34	108	15.2	1399	90	84 Pb
												6007 As
	"		10-15% py, 1-3% asp	25459	140.55	140.98	0.43	0.126	9.4	1241	178	As
	"		2-4% pyrite, 1-3% po.	25460	140.98	141.23	0.25	0.012	17.1	2746	197	6007 As
	"		2-4% pyrite, 2-4% po.	25461	141.23	141.61	0.38	0.007	0.68	3840	195	146 As
	"		2-4% py, trace cp.	35090	141.61	141.89	0.28	117	12.4	1923	115	
	"		7-10% pyrite, trace po and cp.	25462	141.89	142.13	0.24	0.021	0.86	4683	215	49 Pb
												525 As

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	- Mottled calc sltst with stockwork qtz-carb veining as above.		4-7% pyrite, trace po and cp.	35091	142.13	142.59	0.46	0.013	23.5	4110	243	
	- "		4-7% py, tr po and cp	35092	142.59	143.09	0.50	0.028	8.1	1221	146	
	- "		10-15% pyrite, 1-3% asp.	25463	143.09	143.59	0.50	0.130	10.5	032	310	31 Pb 1268 As
	- "		4-7% pyrite.	35093	143.59	143.98	0.39	0.031	8.3	1397	226	
	- "		10-15% po, tr py & cp	25464	146.50	146.90	0.40	70	10.0	1912	106	
	- "		1-3% po and py	35094	148.66	149.09	0.43	81	1.9	311	45	
	- "		20% pyrite, 1-3% asp.	25465	149.09	149.43	0.34	0.088	10.3	1343	257	65 Pb 2697 As
	- "		10-15% py, tr asp & cp	35095	149.43	150.02	0.59	0.044	19.3	2587	233	
	- "		10-15% pyrite, 4-7% po, trace asp and cp	35096	150.02	150.54	0.52	0.051	6.4	757	24-	
	- "		15-20% po, trace pyrite and cp.	25466	150.54	150.96	0.42	0.021	4.0	668	54	3250 As
	- "		1-3% py & po, tr cp.	35097	150.96	151.44	0.48	33	4.5	786	79	
	- "		2-4% po, 1-3% py & cp	35098	152.33	152.74	0.41	120	2.8	557	77	
	- light grey calc sltst.		1-3% pyrite.	35099	154.72	155.19	0.47	42	0.9	114	53	
	- Mottled stuff as above with stock- work qtz-carb veining.		15% pyrite, trace po and asp.	25467	155.19	155.51	0.32	0.038	14.5	2335	170	3630 As
	- "		5-10% pyrite, trace po.	25468	155.51	155.96	0.45	248	1.8	323	64	476 As
156.63 EOH @ 169.77	Bx'd aggl lap tuff. Aggl clasts subangular to 3cm. Unsorted. Bedding where present 45-55° to C.A.	Locally intensely Fe-carb altered and silicified Local epidote alteration. Locally garneti- ferous.										
	- Stockwork qtz-carb veining in intensely altered tuff.		10% pyrite, 1-3% po, trace cp.	35100	167.07	167.75	0.68	78	1.7	982	54	
				25469	167.75	168.18	0.43	0.024	1.6	034	35	

gc=geochem chip; gs=geochem split; as=assay split

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm	
	- stockwork qtz-carb veining in intensely altered tuff.		10% pyrite, 2-4% po.	25470	168.18	168.54	0.36	0.025	3.2	613	41	162
	- "		5-10% pyrite, trace po and cp.	25471	168.54	168.99	0.48	0.011	3.3	850	47	92
	- "		5-10% pyrite, trace	25472	168.99	169.36	0.37	0.007	1.4	340	38	85
												As

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Length(m): 129.53 Grid : L22+60S Drilled : Objective: TO EXTEND Hole No: 12-87 Page 1 of 4
 Project: FITZWATER Dip : -45° Latitude : Contractor : BURWASH HIGH GRADE ZONE
 Proj.No: V227 Azimuth : 275° Departure : Logged by : TMN DISCOVERED IN FITZ
 Client: CREW Core Size: BQ Collar Elev: 550m Date Logged: Dec. 14/87 10, 11-87 TO NORTH
 Casing: OUT Remarks : NO TEST

From-To Metres	Lithology	Alteration	Mineralization/ Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
0 -	CASING.										
27.44	Light grey, locally bcl, calc sltst.	Minor Fe-carb alteration and silicification.	60% py in lcm vein.	25351	14.33	14.52	0.19	5	0.4	1	22
				25352	14.52	14.58	0.06	90	10.5	1473	131
				25253	14.58	14.67	0.09	5	0.6	23	22
				25254	18.82	18.93	0.11	20	0.3	2	12
				25255	18.93	19.02	0.09	260	19.6	2778	426
				25256	19.02	19.19	0.17	30	0.3	1	14
27.44 - 34.20	Dark grey, locally arg and bcl, calc sltst.										
34.20 - 56.98	Light grey, locally bcl, calc sltst.	Minor Fe-carb alt'n assoc with local qtz-carb veining.	3-5% py, 1-3% asp.	25357	34.75	35.04	0.29	140	5.0	550	248
	- stockwork qtz-carb zone.		50% py, trace asp.	23558	35.04	25.25	0.21	0.118	5.5	124	96
	- stockwork qtz-carb zone.		Trace pyrite.	25634	35.25	35.75	0.50	5	0.1	9	32
	- stockwork qtz-carb zone.		Trace pyrite.	25635	36.56	37.05	0.49	5	0.1	15	34
	- stockwork qtz-carb zone.		15% py, 5% gl, tr asp	25359	37.05	37.45	0.40	0.378	11.5	267	4923
	- light grey calc sltst.		10% py, trgl, 1-3% asp	25360	37.45	37.99	0.54	0.105	8.6	272	3054
	- light grey calc sltst.		Trace pyrite.	23636	37.99	38.45	0.46	5	0.2	15	81
	- light grey calc sltst with q-c vein		Trace pyrite & cp.	25361	41.26	41.76	0.50	5	0.6	8	31
	- light grey calc sltst.		1-3% pyrite & cp.	25362	41.76	41.94	0.18	150	0.64	3729	221
	- light grey calc sltst.		Trace pyrite & cp.	25363	41.94	42.49	0.55	5	2.2	162	67
	- light grey calc sltst with minor Fe-oxidation.		Trace pyrite.	25364	45.64	46.00	0.36	5	0.3	42	95
	- light grey calc sltst with minor Fe-oxidation.		Trace pyrite.	25365	46.00	46.49	0.49	5	0.5	146	72
56.98 - 58.36	Dark greey, fine grained mafic tuff(?) Protolith uncertain.	Intensely Fe-carb alt'd, silicified and chloritized.									
	- Relatively fresh volcanic clastic		Trace pyrite & cp.	25366	56.98	57.48	0.50	5	1.9	250	177
	- Relatively fresh volcanic clastic.		Trace pyrite & cp.	25367	57.48	57.84	0.36	30	1.2	54	135



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
58.36 - 93.57	- q-c vein with sulphides on selvages - Relatively fresh volcanic clastics.		1-3% cp, trace py. Trace pyrite.	25368 25369	57.84 57.98	57.98 58.36	0.14 0.38	70 5	4.1 0.5	2735 19	57 265
	Light grey, locally bcl, locally brecciated calc sltst.	Moderately to intensely Fe-carb altered, sericitic altered, silicified throughout unit.									
	- calc sltst with minor qtz-carb vein.		Trace pyrite & asp.	25370	78.17	78.55	0.38	5	0.4	12	33
	83.29-84.20 Altered tuff(?)		Trace pyrite & po.	25371	83.20	83.39	0.19	5	1.3	106	36
	as above.		Trace asp & pyrite.	25372	83.39	84.05	0.66	5	0.2	2	210
	- Mottled calc sltst with stockwork qtz-carb veining.	Intense alteration as above to end of section.	Trace pyrite.	25373	84.28	84.28	0.23	5	0.6	36	69
	- "		Trace pyrite.	25374	86.44	86.94	0.50	5	0.5	7	19
	- "		Trace pyrite & cp.	25375	86.94	87.23	0.29	5	5.1	716	117
	- "		3-5% py, 2-4% po, 1-3% cp.	25376	87.23	87.62	0.39	220	17.8	2719	117
	- "		4-6% py, 4-6% po, 2-4% cp.	25377	87.62	87.93	0.31	0.023	1.28	6235	260
	- "		Trace pyrite.	25378	87.93	88.65	0.72	10	0.5	8	47
	- "		2-4% py, 2-4% po, 2-4% cp, trace asp.	25379	88.65	89.13	0.48	0.210	0.88	4284	351
	- "		4-7% po, 2-4% py 1-3% cp.	25380	89.13	89.58	0.44	0.020	11.5	1797	257
	- "		"	25381	89.58	90.00	0.42	0.107	11.9	1397	690
	- "		"	25382	90.00	90.52	0.52	0.036	4.08	2.06	1247
	- "		2-4% py, 2-4% po, trace cp.	25383	90.52	91.10	0.58	40	2.1	334	53
	- "		Trace pyrite & po.	25384	91.10	91.60	0.50	0.013	2.9	429	415
	- "		Trace pyrite & po.	25385	91.60	92.05	0.45	5	0.3	47	17
93.57 - 94.00	Dark green-grey, brecciated, calcite amygdaloidal mafic flow(?)	Intensely altered as above.	Trace pyrite throughout unit.								
94.00 - 107.51	Light grey, locally brecciated calc sltst as above.	Moderate alt'n as above.									
	- light grey calc sltst. - Mottled and bxd calc sltst	Tr fuchsite (?)	Trace pyrite. 10-15% po, 5-8% py.	25386 25387	105.25 107.00	105.44 107.20	0.19 0.20	5 180	0.3 0.76	2 5893	16 238

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
107.51 - 111.38	Dark green-black, brecciated, lapilli tuff or clastic flow unit. All samples of variously silicified and/or epidote altered and/or Fe-carb altered volcanoclastic.		1-3% cp.								
			2-4% po, 1-3% py, tr cp	25388	107.20	107.51	0.31	100	4.4	786	55
			2-4% po, 1-3% py, tr cp	25389	107.51	107.82	0.31	80	5.0	791	56
			Trace pyrite & mgtt.	25390	107.82	107.96	0.14	5	0.3	53	100
			1-3% py, tr py.	25391	107.96	108.39	0.43	5	1.8	273	31
			1-3% py, tr py.	25392	108.39	108.81	0.42	20	3.1	439	38
			1-3% py & po, tr mgtt	25393	108.81	109.36	0.55	5	0.7	243	110
			"	25394	109.36	110.00	0.64	5	0.3	103	73
			"	25395	110.00	110.40	0.40	5	0.1	1	114
			"	25396	110.40	110.84	0.44	5	0.1	1	64
			"	25397	110.84	111.38	0.54	5	0.3	9	52
111.38 - 116.28	Light grey, brecciated, calc sltst(?) Alteration obliterates protolith features. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst. - Mottled and bxd calc sltst.	Intense pervasive alt'n as above. Local garnet development.	2-4% py, tr po & cp.	25398	111.38	111.74	0.36	60	1.4	157	43
			Trace pyrite & mgtt	25399	111.74	112.25	0.51	5	0.4	152	44
			Trace pyrite & mgtt	25400	112.25	112.66	0.41	5	0.6	192	56
			1-3% py, tr po, mgtt & cp	25401	112.66	113.25	0.59	10	1.2	249	35
			1-3% pyrite.	25402	113.25	113.45	0.20	5	0.7	146	34
			2-4% py, tr po & mgtt	25403	113.45	113.99	0.54	0.013	2.1	285	28
			4-6% pyrite.	25304	113.99	114.28	0.29	0.029	1.1	67	26
			4-6% py, trace mgtt	25305	114.28	114.65	0.37	0.060	2.1	167	31
			4-6% py, tr mgtt & po	25306	114.65	114.97	0.32	10	1.1	374	30
			"	25307	114.96	115.41	0.44	0.072	2.3	283	27
			"	25408	115.41	115.78	0.37	0.041	1.7	244	39
			Trace pyrite.	25409	115.78	116.28	0.50	20	0.6	60	62
			Tr py, po, mgtt	25410	116.28	116.81	0.53	5	0.5	134	60
			"	25411	116.81	117.44	0.63	5	0.6	151	79
			"	25412	117.44	117.89	0.45	5	0.3	133	43
			"	25413	117.89	118.31	0.42	5	0.2	73	50
116.28 120.64	Dark green-black mafic flow(?) as above. All samples are relatively unaltered mafic volcanics.	Relatively unal- tered. Alteration present is chlorite/ epidote/ankerite style.	"	25414	118.35	118.44	0.04	5	0.5	277	102
			"	25415	118.44	119.01	0.57	5	0.3	70	49
			"	25416	119.01	119.50	0.49	5	0.8	81	83

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
120.64 - 123.81	Light grey, brecciated, carbonate- altered, calc sltst. Protolith uncertain. Stockwork qtz-carb vng. - qtz vein zone with alt'd sltst bxd. - alt'd & silicified calc sltst. - bdd sltstns - bdd sltstns with stockwork qtz vng - bdd sltstns with stockwork qtz vng. - alt'd calc sltst with stockwork qtz - alt'd calc sltst with stockwork qtz - alt'd calc sltst with minor stock- work qtz	Pervasive intense Fe-carb alteration silicification, chloritization and/or sericitic alteration. Local garnet development	Tr py, po, mgtt	25417	119.50	119.80	0.30	5	0.6	62	73
			"	25418	119.80	120.20	0.40	5	0.2	37	61
			"	25419	120.20	120.64	0.44	0.013	0.4	51	42
			10-15% py, 1-3% asp	25420	120.64	121.00	0.36	0.050	0.9	77	38
			2-4% pyrite.	25421	121.00	121.40	0.40	90	0.2	15	49
			2-4% py, trace po	25422	121.40	121.78	0.38	140	0.3	10	39
			1-3% py, 1-3% po	25423	121.78	121.97	0.19	0.145	4.4	311	80
			Trace pyrite.	25424	121.97	122.22	0.25	0.015	0.7	26	41
			Trace pyrite.	25425	122.22	122.58	0.36	30	0.3	9	16
			1-3% pyrite.	25426	122.58	123.23	0.65	0.012	0.6	38	39
123.81 - 127.92	Dark green-black volcanics as above.	Weak to moderate chlorite/epidote/ ankerite alteration	1-3% py, trace po	25428	123.81	124.35	0.54	20	0.2	44	67
			1-3% py, trace po	25429	124.54	124.66	0.31	130	0.6	109	35
			2-4% mgtt, tr py.	25430	126.30	126.72	0.42	20	0.8	519	52
			1-3% mgtt, tr py.	25431	127.10	127.52	0.42	10	0.4	250	53
			1-3% mgtt, tr py.	25432	127.52	127.92	0.40	5	0.3	53	47
127.92 - EOH @ 129.53	Intensely altered calc siltstone as above. Bxd throughout.		1-3% mgtt, tr py.	25433	127.92	128.54	0.62	5	0.5	112	28
			Trace pyrite.	25434	128.54	128.89	0.35	70	1.0	164	19
			1 3% py, 1-3% po	25435	128.89	129.53	0.64	270	2.4	222	25

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: TMN Date: Jan. 21/88

Hole No: FITZ 13-88

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	22.71-27.41 Alteration associated with large scale fracturing and qtz-carb veining. Clasts to 10cm (angular)	Fe-carb alteration									
	29.60+ Pervasive Fe-carb alteration however protoliths and original textures remain discernable.										
	30.34-33.80 9 oxidized horizons associated with shearing from 20° to 50° to C.A.	2-4cm oxidized horizons.	Trace pyrite.	25607	32.00	32.61	0.61	5	0.1	38	72
		"	Trace pyrite.	25608	32.61	33.26	0.65	5	0.1	47	68
		4cm oxidized horizon	Trace pyrite.	25308	33.26	33.55	0.29	5	0.7	108	102
		"	1-3% pyrite.	25309	33.55	33.99	0.44	5	0.7	51	66
			2-4% py, 2-4% asp, trace gl.	25310	33.99	34.05	0.06	0.494	2.32	630	827
	- Medium grey altered sltst.		Trace fine grained disseminated pyrite.	25609	34.05	34.53	0.48	5	0.1	38	75
	- Medium grey alt'd sltst with a 10cm qtz-carb vein @ 70° to C.A.		2-4% cp, 1-3% py.	25311	35.85	36.03	0.18	0.024	1.98	1.38	549
	- 3cm Fe-carb-qtz vein @ 90° to C.A.		Trace pyrite.	25312	37.67	37.80	0.13	60	1.4	17	141
	- Medium grey altered sltst with 2cm qtz vein @ 60° to C.A.	Fe-carb alteration	30% py, 2-4% asp, tr malachite, tr cp invn	25610	45.42	45.94	0.52	0.256	4.7	304	121
	- as above with 2 x 2cm qtz veins @ 60° to C.A.		20-25% py, tr asp, tr cp in veins.	25313	45.94	46.47	0.53	0.045	10.7	562	149
47.20 - 48.39	Medium to dark green basaltic flow(?) Sparse calcitic amygdules, Minor local epidote/sericite/Fe-carbonate alteration. Trace pyrite throughout. Lithologies on either side of upper contact are mottled and indistinct. - Minor oxidized horizon.	Intense Fe-carb alteration @ contact	Trace pyrite.	25611	46.47	47.70	0.73	50	0.1	8	44
48.39 - 72.43	Medium grey calcareous siltstone as above. Fe-carbonate alteration is pervasive. Local possible conversion of limestone/dolomite components to calcic amphiboles (small medium to dark green minerals, < 1mm). Local	Local extreme Fe-carb alteration	Trace pyrite.	25314	47.77	47.95	0.18	5	0.6	12	87

gc=geochem chip; gs=geochem split; as=assay split



Co: MPH Project: FITZWATER Logged by: TMN Date: Jan. 24/88

Hole No: FITZ 13-88

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	intense brecciation.										
	- Mottled and bxd calc sltst.	Minor oxidation.	Trace pyrite.	25315	49.36	49.77	0.41	5	0.6	21	87
	- Mottled and bxd calc sltst.	Minor oxidation.	Trace pyrite.	25316	49.77	50.09	0.32	5	0.3	6	41
	- Mottled and bxd calc sltst with 2cm qtz-carb vein @ 80° to C.A.	Intense Fe-carb alteration.	Trace py, tr po in vein selvage.	25317	50.09	50.33	0.24	10	2.2	295	121
	- Mottled and bxd calc sltst with 10cm qtz-carb vein @ 70° to C.A.	"	Trace py, tr asp, trace cp.	25318	50.33	50.63	0.30	120	2.3	231	30
	- Mottled and bxd calc sltst.	"	Tr py, asp, & cp.	25319	50.63	50.97	0.34	140	2.6	318	36
	- Mottled and bxd calc sltst.	"	Trace pyrite.	25320	50.97	51.37	0.40	5	0.8	99	30
	- Mottled and bxd calc sltst.	"	Trace pyrite.	25321	51.37	51.71	0.34	50	0.7	59	65
	- Bxd sltst with stockwork qtz-carb veining.	"	2-4% po, 1-3% py, trace cp.	25322	51.71	52.20	0.49	50	3.4	212	45
	- Bxd sltst with stockwork qtz-carb veining.	" and Fe+Mn oxida- tion.	2-4% py, tr po, tr cp, tr asp.	25323	52.20	52.70	0.50	120	4.1	474	118
	- Bxd sltst with qtz-carb veining to 3cm @ 60° (= BCA).	Intense Fe-carb alteration.		25324	52.70	53.29	0.59	20	0.4	11	23
	- Light grey Fe-carb altered sltst with minor oxidation.	"	Trace pyrite.	25325	59.09	59.57	0.48	5	0.4	14	21
	- As above, brecciated.	"	Trace py in gouge.	25326	59.57	60.07	0.50	20	0.5	26	40
	- light grey altered sltst.	Intense Fe-carb alth & oxidized.	Trace pyrite.	25612	62.88	63.64	0.76	5			
	- Medium grey altered and bxd sltst with stockwork qtz-carb veining.	Intense Fe-carb alteration.	4-7% py, trace asp	25327	63.64	64.25	0.61	0.102	10.3	1263	172
	- As above.	"	5-10% py, trasp & cp	25328	64.25	64.64	0.39	0.024	5.2	627	99
	- As above.	"		25277	64.64	64.76	0.12	0.012	3.3	345	318
	- Light grey altered sltst.	"	Trace pyrite.	25613	67.19	67.69	0.50	5	0.4	37	23
	- Light grey altered sltst with minor stockwork qtz	"	2-4% pyrite.	25278	67.69	67.98	0.29	0.025	1.7	82	132
	- "	"	2-4% pyrite.	25614	67.98	68.74	0.76	5	0.1	1	27
	- "	"	1-3% pyrite.	25615	68.74	69.19	0.45	120	1.0	196	62
	- Light green-grey mottled altered sltst bxd with stockwork qtz.	"	1-3% pyrite.	25616	69.19	69.94	0.75	50	1.6	311	82
	- "	"	2-4% pyrite, tr po	25617	69.94	70.55	0.61	0.017	2.9	381	82

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
	- Light green-grey mottled altered sltst bxd with stockwork qtz.	Intense Fe-carb + sericite alteration	3-5% pyrite, trace po.	25618	70.55	71.17	0.62	0.006	3.9	532	71
	- stockwork qtz with mnr alt'd sltst.	"	10-15% py, trace po.	25279	71.17	71.41	0.24	0.116	0.88	3567	302
	- "	"	50% py, tr asp & po.	25280	71.41	71.62	0.21	0.248	1.12	3713	566
	- "	"	50% py, tr asp & po	25281	71.62	72.06	0.44	0.065	0.60	2473	225
	- "	"	40% py, 1-3% po, tr asp	25282	72.06	72.41	0.35	0.107	0.34	1069	220
72.43 - 74.90	Basaltic flow as from 47.20 to 48.39	Minor garnetiferous + epidote alt'n.	4-7% po, 1-3% py.	25283	72.41	73.12	0.71	20	2.8	877	74
		"	"	25284	73.12	73.51	0.39	0.007	3.9	712	90
		"	"	25285	73.51	73.93	0.42	5	0.9	319	41
		"	1-3% py, 1-3% po	25286	73.93	74.57	0.64	5	0.5	244	36
		"	1-3% py, trace po.	25287	74.57	75.28	0.71	80	1.8	378	50
74.90 - 90.89	Light green-grey mottled alt'd sltst bxd with stockwork qtz (as above).	Intense Fe-carb + sericite alt'n.	"	25288	75.28	75.81	0.53	100	3.1	485	47
		"	"	25289	75.81	76.22	0.40	5	2.8	286	53
		"	1 3% py, trace po	25290	76.22	76.73	0.51	30	10.0	1611	92
		"	"	25291	76.73	77.09	0.36	170	11.8	1847	96
		"	7-10% py, tr asp & po	25292	77.09	77.47	0.38	0.084	13.4	1739	106
		"	"	25293	77.47	78.01	0.54	0.134	10.2	701	133
		"	"	25294	78.01	78.42	0.41	0.061	2.9	291	52
		"	5-7% py, trace po.	25295	78.42	78.88	0.46	0.036	3.1	485	55
		"	5-7% py, tr po & cp	25296	78.88	79.64	0.76	0.027	4.3	624	89
		"	2-4% pyrite.	25297	79.64	80.05	0.69	90	0.7	75	72
		"	1-3% pyrite.	25619	80.05	80.65	0.60	70	0.1	5	57
		"	1 3% py, trace po.	25620	80.65	81.15	0.50	5	0.1	17	51
		"	"	25621	81.15	81.80	0.65	5	0.1	2	50
		"	"	25622	81.80	82.41	0.61	5	0.1	35	30
		"	Trace pyrite.	25623	82.41	83.12	0.71	5	0.2	26	22
		"	1-3% py, 1-3% po	25298	83.12	83.58	0.48	0.015	3.4	542	89
		"	2-4% pyrite.	25299	83.58	84.06	0.48	0.014	2.0	254	46
		"	3-5% pyrite.	25300	84.06	84.43	0.37	280	2.2	372	53
		"	3-5% py, trace po.	25301	84.43	84.88	0.45	0.033	6.0	924	68
		"	2-4% pyrite.	25302	84.88	85.26	0.38	260	1.0	97	44
		"	2-4% py, trace asp.	25303	85.26	85.37	0.11	0.028	1.2	49	52
		"	1-3% py, trace asp.	25304	85.37	85.80	0.43	110	0.6	42	43
		"	1-3% pyrite.	25305	85.80	86.19	0.39	320	0.7	31	35
		"	1-3% py, trace asp	25306	86.19	86.47	0.28	0.008	0.6	24	39
		"	1-3% pyrite.	25307	86.47	86.83	0.36	70	0.5	1	63

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
90.89 - 93.33	- Light yellow-green-grey mottled alt'd sltst bxd w stkwk qtz (as above)	Alteration as above	1-3% pyrite.	25329	86.97	87.65	0.68	80	0.5	17	76
	"	" & minor oxidation	1-3% pyrite.	25330	87.65	88.07	0.42	20	0.5	4	87
	"	Alteration as above	1-3% pyrite.	25624	88.83	89.50	0.67	5	0.1	4	32
	Dark green-grey basaltic lapilli tuff(?)	Mnr ep alt'n & locally garneti- ferous.	1-3% py, trace po.	25331	91.52	92.16	0.64	10	0.8	403	47
	"	"	1-3% py, trace po.	25332	92.16	92.57	0.41	30	0.7	292	42
93.33 - 131.24	"	"	1-3% py, trace po.	25333	92.57	93.11	0.54	10	0.7	291	64
	Light yellow green grey mottled alt'd sltst as above bxd w stockwork qtz.	Intense Fe-carb alteration.	10-15% py, tr po & asp	25334	93.11	93.57	0.46	330	1.7	345	59
	"	"	4-7% pyrite.	25335	93.57	94.00	0.43	0.018	2.0	319	40
	"	"	2-4% po, 1-3% py.	25336	94.00	94.57	0.57	0.020	1.7	311	69
	"	"	5-10% pyrite.	25337	94.57	94.93	0.36	0.095	4.2	485	113
	"	"	5-10% pyrite.	25338	94.93	95.31	0.38	0.019	13.0	1255	1029
	"	"	5-10% py, 1-3% sp.	25339	95.31	95.75	0.44	0.051	7.2	777	2841
	"	"	4-7% py, trace cp.	25340	95.75	96.46	0.71	0.019	3.6	499	127
	"	"	4-7% py, tr cp & asp.	25341	96.46	96.92	0.46	0.141	4.8	145	2885
	"	"	5-10% py, tr cp & asp.	25342	96.92	97.48	0.56	0.069	5.9	1147	144
	"	"	3-5% pyrite.	25343	97.48	97.92	0.44	210	0.5	72	50
	"	"	2-4% pyrite.	25344	97.92	98.31	0.39	50	0.4	106	79
	"	"	1-3% pyrite.	25345	103.66	104.01	0.35	20	0.1	15	65
	"	"	2-4% pyrite.	25346	104.01	104.56	0.55	110	0.2	1	38
	"	"	3-5% pyrite.	25625	105.39	106.03	0.64	5	0.1	5	45
	"	"	2-4% pyrite.	25626	106.03	106.55	0.52	5	0.1	2	48
	"	"	1-3% pyrite.	25627	106.55	107.00	0.45	5	0.1	2	71
	"	"	1-3% pyrite.	25628	107.00	107.51	0.51	5	0.1	34	65
	"	"	4-7% pyrite.	25629	107.51	107.87	0.36	0.245	5.8	85	553
	"	"	1-3% pyrite.	35101	107.87	108.53	0.66	5	0.1	3	84
	"	"	1-3% pyrite.	35102	108.53	109.33	0.80	5	0.1	12	51
	"	"	1-3% pyrite.	25630	109.33	110.18	0.85	150	0.5	4	93
	"	"	1-3% pyrite.	25631	110.18	110.76	0.58	5	0.5	100	64
	"	"	1-3% pyrite.	25632	110.76	111.34	0.58	5	0.1	77	80
	"	"	Trace pyrite.	25633	111.34	111.99	0.65	5	0.1	40	71

gc=geochem chip; gs=geochem split; as=assay split



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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
117.95 - 122.00	Altered sltst, as above. Clasts indistinct. Minor local chloritic laminations (light grey overall).		Trace pyrite, trace cp.								
122.00 - 128.30	Bxd light grey lst. Locally milky white (ankerite?) alteration. Indistinct clasts.		Trace pyrite.	25473	124.98	125.71	0.73	5	0.1	3	14
			13% cp & py, tr po.	25474	125.71	126.42	0.81	0.014	2.18	1.32	463
			2-4% py, 1-3% cp, 2-4% po.	25475	126.42	127.02	0.60	0.016	2.18	9629	442
			25% cp, 25% py, 3-5% po, trace asp.	25476	127.02	127.63	0.61	0.174	14.60	5.62	1923
			40% py, 25% cp, 3-5% po.	25477	127.63	128.00	0.37	0.176	10.02	4.44	1894
			3-5% py, 3-5% cp, trace po.	25478	128.00	128.43	0.43	270	2.16	7177	369
128.39 - 131.24	Bx'd light grey sltst as above.	Sample is 50% alteration zone.	Trace py, trace cp.	25479	128.43	129.14	0.71	5	1.7	159	29
			20% py, trace cp, 1-3% po.	25480	131.04	131.50	0.46	220	1.20	6217	598
131.24 - 133.78	Altered and bxd calc sltst as above. Locally garnetiferous. Colours: dark green, brown to light milky grey.	Ankerite ? Sulphides appear strataform.	10-15% py, tr po & cp.	25481	131.50	132.06	0.56	50	6.1	1979	229
			10-15% py, 3-5% po, 2-4% cp.	25482	132.06	132.55	0.49	240	14.4	2447	169
			15-20% po, 5-10% py, 2-4% cp.	25483	132.55	133.19	0.64	0.074	1.4-	7175	523
			5-10% py, 5-10% po, trace cp.	25484	133.19	133.78	0.59	100	12.5	1981	205
133.78 - 139.18	Medium grey bxd calc sltst.	Intense Fe-carb alteration. Qtz vein.	Tr diss py & cp.	25485	133.78	134.46	0.68	0.017	3.1	394	677
			3-5% py, trace cp.	25486	134.46	135.22	0.76	90	0.8	96	361
			5-7% diss pyrite.	25487	135.22	135.41	0.22	0.017	0.80	1252	1531
			3-5% py, trace cp.	25488	135.41	136.24	0.83	50	1.2	489	134
			2-4% py, tr po, 2-5% cp.	25489	137.27	137.98	0.71	10	1.7	918	109
			2-4% py, trace cp.	25490	137.98	138.60	0.62	10	0.9	342	67
			2-4% pyrite.	25491	138.60	139.07	0.47	5	0.6	335	71

gc=geochem chip; gs=geochem split; as=assay split

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From-To Metres	Lithology	Alteration	Mineralization Sulphides/Structure/ Core Condition	No.	Sample Interval m	Length m	a g	Au oz/t ppb	Ag oz/t ppm	Cu % ppm	Zn % ppm
139.18 - EOH @ 172.81	Medium to dark green meta-basaltic tuffs and flows. Locally bxd.	Bxd & quartz carb altered.	Trace pyrite.	25492	142.23	142.92	0.69	5	0.1	14	147
			1-3% pyrite.	25493	142.92	143.74	0.82	5	0.4	259	179
			1-3% pyrite.	25494	146.51	147.53	1.02	5	0.4	265	200
			1-3% pyrite.	25495	148.32	148.97	0.65	10	0.2	117	178
			1-3% py, trace cp.	25496	151.43	151.94	0.51	5	0.7	548	177
			2-4% pyrite	25497	155.33	155.81	0.48	5	0.3	174	126
			1-3% pyrite.	25498	155.81	156.45	0.64	5	0.1	42	112
			1-3% pyrite.	25499	156.45	157.08	0.63	5	0.1	31	127
			1-3% pyrite.	25500	158.89	159.56	0.67	5	1.1	895	200
			2-4% pyrite.	25501	159.56	160.17	0.61	5	0.9	384	149
		Approximately 80% Recovery.	2-4% pyrite.	25502	160.21	160.67	0.46	20	2.0	859	107
			2-4% py, trace cp.	25503	160.67	161.65	0.98	40	0.5	256	156
			1-3% pyrite.	25504	161.65	162.16	0.51	5	0.4	103	177
			1-3% pyrite.	25505	162.16	162.58	0.42	10	0.3	177	152
			1-3% pyrite.	25506	162.58	163.07	0.49	5	0.4	192	101
			1-3% py, trace cp.	25507	163.07	163.72	0.65	5	0.5	281	141
			1-3% py, trace cp.	25508	163.72	164.48	0.76	5	0.1	102	135
			2-4% pyrite.	25509	170.40	170.88	0.48	10	0.7	672	127
			1-3% py, trace cp.	25510	170.88	171.65	0.77	5	0.4	293	127
			2-4% py, trace cp.	25511	171.65	172.42	0.77	20	0.4	415	150

gc=geochem chip; gs=geochem split; as=assay split



MPH CONSULTING LIMITED

Length (m): 182.01 Grid : L2250S 3+50E

Logged by : TMN

Objective: Test coincident
gold soil geochemistry
and IP geophysics
chargeability anomalies.

Hole No. : Fitz-14-88

Hole Survey Type: No Test

Depth Dip Azim

Project No. V227

Dip : -55°

Azimuth : 236°

Collar elev.: 470m

Date logged: 1/15/88

Core Size : NQ

Casing : out

Fitzwater

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
0 - 4.57	Casing										
4.57 - 13.50	Light grey, lclly bcl, calc sltstn. Sparse bcls. 1st 15 m intensely X-ct by Q-C vnlts to 2 cm @ 45°, 90° CA.		tr py approx. 48% recovery tr py	25512 25513 25514 25515 25516 25517	6.83-7.64 7.64-8.38 8.38-8.88 10.22-10.90 10.90-11.54 11.54-12.33	0.81 0.74 0.50 0.68 0.64 0.79	5 5 5 5 5 5	0.1 0.2 0.1 0.2 0.2 0.1	1 2 1 1 1 1	11 12 8 14 18 32	
13.50 - 95.00	Dark grey, locally arg, calc sltstn. Lcl bx'n & soft sed def'n (up to 5% crinoid clsts).										
	25.18: py vnlts; appears stratiform 2-4 mm @ 40° CA.		tr py tr py	25518 25519	24.62-25.21 27.49-28.18	0.59 0.69	5 5	0.1 0.2	10 10	41 40	
	27.73: as above										
	X-ctg qtz-carb vnlts @ 45°, 75° CA to 5 mm.		tr py	25520	30.03-30.60	0.57	5	0.1	5	29	
	X-ctg qtz-carb vnlts @ 20°, 45°, 75° CA - 1.5 cm approx. 85% recovery. 3 cm qtz vn in arg sltstn @ approx. 80° CA.		tr py tr py vn: 20% py, 10% sp, tr asp	25521 25522 25523	54.73-55.21 55.21-55.64 55.64-55.98	0.48 0.43 0.34	5 5 50	0.3 0.1 8.9	3 1 82	17 21 3522	
	56.80-57.29: lt grn felsic intrusive		tr py tr py tr py	25524 25525 25526	55.98-56.77 56.77-57.31 57.31-57.85	0.79 0.54 0.54	5 5 5	0.2 0.2 0.2	1 111 5	17 80 27	



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Fitzwater

V227

Logged by: TMN

Date: 88-15-01

Hole No.: Fitz-14-88 Page 2 of 4

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
13.50 95.00 (cont.)	Sulphs in 1 mm vnlt.		tr py, tr sp	25527	59.30-59.81	0.51	5	0.2	13	483	
	Contains 1 cm gouge zone.		tr py	25528	60.51-61.14	0.63	5	0.3	4	35	
	Q-C vnlt to 2 cm @ 20°, 40° CA.		tr py	25529	61.59-62.01	0.42	5	0.2	2	28	
	Intense Q-C vn zone as above.		tr py	25530	64.21-64.83	0.62	5	0.2	1	11	
	" " " "		tr py	25531	64.83-65.40	0.57	5	0.2	5	27	
	" " " "		tr py	25532	65.40-66.16	0.76	5	0.1	3	21	
	" " " "		tr py	25533	66.16-67.09	0.93	5	0.2	2	22	
	4 cm qtz-carb vn @ 60° CA.		tr py	25534	69.00-69.44	0.44	5	0.2	4	32	
	Mnr Q-C vng and gouge @ 50° CA.		tr py	25535	71.37-71.89	0.52	5	0.2	5	26	
	4 cm Q-C vn @ 60° CA.		2-4% py in gouge	25536	71.89-72.17	0.28	50	0.8	11	36	
			tr py	25537	72.17-72.65	0.48	5	0.1	1	10	
	Mnr stkwk qtz-carb vns.		tr py	25538	73.59-74.02	0.43	5	0.1	1	20	
	2 cm qtz vn @ 50° CA.		4-6% py in vn	25539	77.76-78.31	0.55	5	1.0	2	95	
	Mnr Q-C vn (1 cm) @ 80° CA.		tr py	25540	81.00-81.48	0.48	5	0.2	1	15	
	Mnr Q-C vn, calc sltstn.		tr py	25541	85.06-85.43	0.37	5	0.2	4	26	
	Mnr qtz bx (in lt gy) zone.		1-3% py, tr asp?	25542	90.93-91.46	0.53	5	0.5	3	21	
	Lt - med gy bcl calc sltstn.	local intense bxn w/ accompanying Fe-carb alt'n	tr py	25543	93.80-94.32	0.52	5	0.5	1	16	
	3 cm Q vn (in lt gy bcl lst) @ 70° CA.		15-20% py in vn	25544	94.32-94.81	0.49	250	0.6	1	30	
	Lt - med gy bcl arg lst.		tr py	25545	94.81-95.38	0.57	5	0.5	1	17	



MPH CONSULTING LIMITED

FitzwaterV227

Logged by: TMN

Date: 88-15-01

Hole No.: Fitz-14-88 Page 3 of 4

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
95.00 - 119.22	Thinly interlaminated medium grey and black calc sltstn. Soft sediment deformation persists.										
	Dk gy arg lst.		tr py	25546	96.92-97.42	0.50	5	0.5	1	14	
	97.50-98.50: lt grn felsic		2-4% py	25547	97.42-98.02	0.60	5	0.7	90	75	
	Intrusive.		2-4% py	25548	98.02-98.54	0.52	5	0.4	107	92	
	Med gy bcl arg calc sltstn.		1-3% py in 1 cm Q vn	25549	98.54-99.07	0.53	5	0.4	11	36	
	As above w/ qtz vns stkwk @ 45° CA.		tr py	25550	102.49-102.96	0.47	5	0.3	3	43	
	Stkwk Q-C vng (mnr).		tr py	25551	104.73-105.35	0.52	5	0.4	1	55	
	Bxd Q-C vnlt zone.		tr py	25552	109.48-110.45	0.97	5	0.5	1	12	
	As above.	weak to moderate pervasive sericitic alt'n to end of Buttle Lake	1-3% py	25553	110.45-110.84	0.39	5	0.6	46	31	
	As above w/vns @ 45°, 60° CA.		15% py, 20% sp in 1 cm vn	25554	114.00-114.56	0.56	40	0.6	102	3767	
	Med gy bcl arg calc sltstn.		10-15% py in 5 cm graphitic zone	25555	118.67-119.22	0.55	120	0.9	5	20	
119.22 - 133.67	Lt gy, locally bcl, calc sltstn.										
	120.55-123.97: Dark green fine- grained tuff(?). (mnr Fe-carb-qtz vng @ 60°, 80° CA.)	chlorite & epidote alt'd	1-3% dis py	25556	120.53-121.49	0.90	5	0.3	71	100	
			2-4% dis py	25557	123.62-124.37	0.75	260	0.6	18	48	
				35105	132.91-133.67	0.76					
				35106	133.67-34.34	0.67					



MPH CONSULTING LIMITED

FitzwaterV227

Logged by: TMN

Date: 88-15-01

Hole No.: Fitz-14-88 Page 4 of 4

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
133.67 - EOH @ 182.01	Med to dk grn basaltic fine-grained to lapilli tfs & mnr flows(?). Contact sharp & appears conformable. Hem stained qtz vn (1 cm) @ 20° CA.	locally bxd and epidote alt'd									
			barren	25558	141.35-141.97	0.62	5	0.1	102	80	
	Q-C vn @ 30° CA.	mnr epidote alt'n	1-3% py (dis)	25559	151.68-152.42	0.74	5	0.3	248	73	
	" " " "	hem stain	" " "	25560	156.87-157.62	0.75	5	0.4	161	907	
	" " " "	"	" " "	25561	168.84-169.51	0.67	5	0.1	230	82	
	" " " "	"	" " "	25562	169.51-170.54	1.03	5	0.2	128	209	
	" " " "	"	" " "	25563	177.20-177.93	0.73	5	0.3	183	272	



MPH CONSULTING LIMITED

Length (m): 172.51 Grid : L2250S 3+50E

Logged by : TMN

Objective: To test

Hole No. : Fitz-15-88

Dip : -55°

Azimuth : 190°

Collar elev.: 470m

Date logged: 1/19/88

coincident Au soil

Hole Survey Type: Pajari

Project No. V227

geochemistry and IP

Depth

Dip

Azim

Fitzwater

Core Size : NQ

chargeability anomalies.

172.51

-51°

188°

Casing : out

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
0 - 4.27	Casing										
4.27 - 108.50	Mgy - blk calcareous sltstn. Lclly arg. Lclly bx'd. Lcl soft sed features. Mnr Fe-carb/qtz vng @ 20°, 30°, 0°, 70° CA. Local strataform very fine-grained py horizons <1 cm in calc sltstn/arg mtx (eg. 25.05 m).										
	3 cm Fe-carb vn @ 30° Ca in 10 cm carb/graphite horizon in bcl arg lst.		tr py	25564	44.21-44.82	0.61	5	0.2	13	57	
	58.40-58.85: lt grn felsic intrusive w/2 cm gouge & qtz vn @ 70° CA.		tr f gr dis py	25565	58.38-58.88	0.50	5	0.2	117	169	
	Mnr arg + graphite horizon w/tr dis py along Fe-carb vns (<1 cm) @ 60° CA.		tr py	25566	65.06-65.51	0.45	5	0.4	9	45	
	Dk gy arg lst, mnr stkwk Q-C vng @ 20-0° CA.		tr py	25567	79.74-80.32	0.58	5	0.4	6	51	
	Q-C bx zone in arg lst.		15-20% py, 10-15% sp, tr asp	25568	80.32-80.59	0.27	0.158	3.2	891	51433	
	Dk gy arg lst w/mnr stkwk Q-C vng.		tr py	25569	80.59-81.48	0.89	5	0.2	6	33	
	"		"	25570	81.48-82.29	0.81	5	0.6	12	50	



MPH CONSULTING LIMITED

FitzwaterV227

Logged by: TMN

Date: 88-19-01

Hole No.: Fitz-15-88 Page 2 of 2

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
108.50 - 121.00	Lt to med gy calc sltstn. Locally bx'd and pervasively silicified.										
	Med gy arg lst w/mnr stkwk Q-C vng.		tr py	25571	109.61-110.23	0.62	5	0.2	1	52	
	"		"	25572	115.18-115.81	0.63	5	0.1	1	11	
	Med gy calc sltst, bx'd, qtz-carb stkwk vng.		tr py	25573	118.05-118.53	0.48	5	0.2	1	12	
	As above w/2 cm qtz vn @ 90° CA.		2-4% py, tr asp?	25574	118.53-118.79	0.26	390	1.3	16	767	
				35103	118.79-119.18	0.39	5	0.1	1	6	
	Med gy to blk calc sltstn as above.		tr py	25575	125.79-125.34	0.55	5	0.4	1	22	
	"		"	25576	153.91-154.34	0.43	5	0.3	5	20	
	Aphanitic felsic intrusive.		tr py	25577	154.34-154.53	0.19	5	0.8	86	55	
154.25 - EOH @ 172.51	Lt gy calc sltstn as above.										
	Med gy calc sltstn w/sparse Q-C vng @ 30°, 60° & stkwk.			25578	154.53-155.09	0.56	5	0.3	1	20	
				35104	163.04-163.74	0.70	14	0.1	3	84	



MPH CONSULTING LIMITED

Length (m): 142.03 Grid : L21+50S 2+25E

Logged by : TMN

Objective: To test

Hole No. : Fitz-16-88

Project No. V227

Dip : -80°

coincident gold soil

Hole Survey Type: Pajari

Fitzwater

Azimuth : 236°

Collar elev.: 540m

Date logged: 01/20/88

geochemistry and IP

Depth

Dip

Azim

Core Size : NQ

chargeability anomalies.

142.03

-77°

234°

Casing : out

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
0 - 3.66	Casing										
3.66 - 66.95	Med gy to blk calc sltstn & arg lst. Locally bioclastic. Local soft sed def'n.		barren	35107	25.44-26.10	0.66	5	0.1	5	33	
	Blk arg lst w/Q-C vng @ 20°, 40°, 60° CA (<1 cm).	up to 40% py in vns	1-3% py	25579	26.10-26.72	0.62	0.100	6.7	185	31	
	"	"	"	25580	26.72-27.48	0.76	50	0.2	36	28	
	"	"	tr py	25581	27.48-28.32	0.84	5	0.1	1	7	
	"	"	1-3% py, tr asp	25582	28.32-28.83	0.51	100	2.0	88	33	
	" (mnr silicified bx zone).		10-15% py, 1-3% asp	25583	28.83-29.18	0.35	0.015	3.7	287	34	
	"		tr py	25584	29.18-29.71	0.53	5	0.8	6	11	
	"		1-3% py	25585	29.71-30.13	0.42	5	0.6	4	13	
	"		20% py, tr asp in 1.5 cm qtz vns @ 40° CA	25347	34.85-35.43	0.58	160	10.7	344	106	
				35108	36.31-36.98	0.67	195	3.8	152	279	
	Qtz filled bx'd med gy lst.		25% py, 1-3% ast	25586	36.98-37.62	0.64	250	20.0	663	3187	
	1 cm vn hosted in med gy calc sltst @ 55° CA.		25% py, tr asp in vn	25587	38.71-39.05	0.34	5	0.5	71	567	
	Dk gy arg lst w/Q-C vns @ 10-20° CA - 1.5 cm.		up to 5% py in vns	25588	40.10-40.57	0.47	5	1.2	91	1105	
	"		tr py	25589	40.57-41.19	0.62	5	0.5	6	163	
	" @ 80-90° CA - 1 cm.		to 10% py tr asp in vns	25590	41.19-41.92	0.73	5	1.9	20	240	
	"		up to 80% py, 20% asp in vns	25591	41.92-42.23	0.31	40	2.4	95	1873	



MPH CONSULTING LIMITED

Fitzwater

V227

Logged by: TMN

Date: 88-20-01

Hole No.: Fitz-16-83 Page 2 of 2

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
3.66 - 66.95 (cont.)	Med gy arg lst w/Q-C vns @ 80° CA & mnr gouge. " w/silicified bx zone approx. 3 cm. " mnr stkwk Q-C vns. " w/3 cm qtz vn @ 40° CA. " w/mnr Q-C vng // CA. Blk " vng // CA & @ 90° CA (<1 cm). Med gy arg lst w/QC vng // CA & @ 90° CA (<1 cm).		tr py	25592	43.00-43.68	0.68	5	1.4	16	105	
			tr py	25593	50.90-51.27	0.37	5	0.1	1	58	
			tr py	25594	60.21-60.96	0.75	5	0.7	92	2226	
			15% py + 20% sp in vn	25595	60.96-61.21	0.25	5	1.9	86	4691	
			tr py	25596	61.21-62.00	0.79	5	0.2	1	32	
			2-4% py, tr sp	25597	62.00-62.42	0.42	5	0.5	15	1009	
			tr py, tr sp	25598	63.29-63.67	0.38	5	1.2	6	61	
66.95 - 93.03	Light grey, locally bioclastic, brecciated calc sltst. 84 m +: Strataform sericitic & Fe-carb alt'n assoc. w/volc contact begins. Takes form of bedding parallel laminations. Not pervasive.		tr py throughout								
	Lt gy bcl carb sltst w/mnr ank- seric alt'n.		tr py (dis)	25599	86.21-87.01	0.80	5	0.1	4	23	
93.03 - EOH @ 142.03	Med dk grn gy basaltic lapilli tuff & agglomerates.	local hematitic & epidote alt'n.		35109	92.57-93.03	0.46	5	0.1	154	130	
				35110	93.03-93.57	0.54	5	0.1	9	24	
	Dis py in bsltc lap tuff.	local garnet dev	1-3% f-gr dis py	25600	107.14-107.97	0.83	5	0.1	74	190	
	"	"	"	25601	113.05-113.65	0.60	5	0.1	128	282	
	"	Slight cp & carb	tr	25602	137.54-137.89	0.35	60	0.2	235	91	
	"	(Fe) alt'n	"	25603	137.89-138.44	0.55	5	0.1	90	241	



MPH CONSULTING LIMITED

Length (m): 114.90 Grid : L22+25S 2+25E

Logged by : TMN

Objective: To test

Hole No. : Fitz-17-88

Project No. V227

Dip : -75°

coincident IP

Hole Survey Type: No Test

Fitzwater

Azimuth : 270°

Collar elev.: 520m

Date logged: 01/28/88

chargeability and gold

Depth

Dip

Azim

Core Size : NQ

soil geochemistry

Casing : out

anomalies

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
0 - 4.57	Casing										
4.57 - 26.12	Med to dk gy bioclastic calc sltst. Rip-up clasts to 3 cm & soft sed def'm features common. Crinoid section to 1 cm common. 4.57-14.32 m: dk gy-blk. 14.32 +/- lt-med gy. Calcite vng common @ 30°, 40° & // CA (up to 3 cm). Graphitic laminations common. BCA = 58-75°.										
26.12 - 30.60	Lt to med gy calc sltst. X-cut by 0.5-1 cm Q-C vns @ 5° CA & 60° CA. " "		10-15% py in vnlts " "	25637 25638 25639	26.12-26.71 26.71-27.18 27.18-27.60	0.59 0.47 0.42	50 5 5	0.4 0.1 0.1	52 1 29	16 9 13	
	Q-C vns in med gy calc sltst. Vns @ 35°, 45° CA; to 1.5 cm thick.		15-20% py in vns	25640	30.11-30.60	0.49	0.012	4.5	225	78	
30.60 - 34.47	Med to dk gy sltst as above with 0.2-2.0 cm Q-C vnlts @ 15°, 45° CA.		5-10% py, 2-4% py in vnlts	25641	33.45-33.79	0.34	5	0.2	67	1732	
34.47 - 103.16	Light grey, locally bxd and bcl calc sltst. Lt gy calc sltst w/stkwk vng. Lt gy calc sltst w/intense stkwk vng.		5-10% py, 4-7% sp dis & in vnlts tr py	25642 25643	35.72-36.02 36.02-36.99	0.30 0.97	80 5	0.6 0.1	93 1	3495 46	



MPH CONSULTING LIMITED

Fitzwater

V227

Logged by: TMN

Date: 88-28-01

Hole No.: Fitz-17-88 Page 2 of 3

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
	Lt gy calc sltst w/mnr Q-C vng @ 20°, 45° CA.		tr py, tr sp in vnltz	25644	38.71-39.30	0.59	5	0.5	207	14	
"	"		5-10% py, 1-3% asp, 1-3% sp	25645	40.50-41.09	0.59	100	1.0	101	63	
"	"		4-7% dis py	25646	42.18-42.94	0.76	40	0.7	76	37	
"	"		tr py	25647	43.66-44.22	0.56	5	0.1	3	29	
"	w/4 cm Q-C vn @ 65° CA.		5-10% py in vn	25648	44.22-44.43	0.21	0.041	12.9	1311	217	
"	w/mnr Q-C vng @ 10°, 30° CA.		tr py	25649	44.43-44.80	0.37	5	0.1	4	20	
	Lt gy calc sltst w/Q-C vng @ 35°, 50° CA & stkwk to 1 cm.	Fe-carb alt'n silicification	4-7% py, 1-3% sp, tr asp dis & in vns	25650	51.93-52.49	0.56	160	2.9	420	86	
	Bx zone in calc sltst w/stkwk qtz	"	tr py	35001	52.49-53.18	0.69	5	0.1	1	19	
	"	"	tr py	35002	53.18-53.64	0.46	5	0.1	18	122	
71.10 +:	Lst becomes very lt gy.	increased Fe-carb alt'n & silicif'n									
	BCA @ 75-85° (CA).										
	2 cm qtz vn @ 85° CA in lt gy calc sltst.		5-10% py in vn & dis	35003	75.68-76.04	0.36	70	0.8	59	140	
92.80-99.66:	mnr bx'n & moderate Fe-carb silicifc'n/sericite alt'n.										
	Lt gy alt'd lst as above.		tr py	35004	97.12-97.93	0.81	5	0.3	54	59	
"	"		tr py	35005	98.28-98.75	0.47	5	0.1	6	19	



MPH CONSULTING LIMITED

FitzwaterV227

Logged by: TMN

Date: 88-28-01

Hole No.: Fitz-17-88 Page 3 of 3

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
	Unalt'd lt gy calc sltst.		tr py	35006	101.81-102.30	0.49	70	0.3	7	597	
	" w/mnr bxn & stkwk qtz.		30-35% py, tr sp, tr asp	35007	102.30-102.96	0.66	0.083	10.2	377	3052	
	Contact sample between calc sltst & agglomeratic tuff. Ctc @ 45° CA, distinct. Bx clasts above ctc up to 4 cm, subrdd of felsic(?) (intermed volc) composition in calc sltst matrix. (+ Erosional ctc?.)		tr py	35008	102.96-103.54	0.58	10	0.1	48	100	
103.16 - EOH @ 114.90	Agglomeratic lapilli tuff. (Basaltic.) Rel unalt'd.		dis py throughout								
	Mnr qtz-Fe carb vng at 25° CA.		tr py, tr sp in 4 mm vn	35009	104.32-105.00	0.68	160	3.1	82	2175	



MPH CONSULTING LIMITED

Length (m): 108.92 Grid : L22+25S 2+25E

Logged by : TMN

Objective: To intersect
coincident gold soil
geochemistry and IP
chargeability anomalies.

Hole No. : Fitz-18-88

Hole Survey Type: No Test

Depth Dip Azim

Project No. V227

Dip : -50°

Collar elev.: 520m

Date logged: 02/02/88

Fitzwater

Azimuth : 270°

Core Size : NQ

Casing : out

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
0 - 5.18	Casing										
5.18 - 18.56	Med gy-glk calc sltst. Local bcl horizons. Local arg horizons to 30 cm. Q-C vng common @ 10°, 20°, 40° & // CA. Sparse bioherm to 6 cm.										
18.56 - 21.47	Lt gy calc sltst as above.										
21.47 - 53.93	Med gy calc sltst, locally bcl and bx'd.										
	Lt to med gy calc sltst w/qtz vns 70-80° CA up to 2 cm.		2-4% py dis & in vns	35010	21.51-22.18	0.67	5	0.4	130	24	
	Med gy calc sltst w/qtz carb vns. 70-80° + // CA		tr dis py 4-7% (dis in vns)	35011 35012	25.11-25.69 25.69-26.52	0.58 0.83	5 820	0.1 9.0	3 218	27 1244	
	"		tr sp, tr asp								
	"	mnr oxid'n	1-3% py (dis)	35013	26.52-26.99	0.47	20	1.1	85	504	
	Med gy calc sltst w/Q-C vns.	approx 3 cm clay gouge	2-4% py	35014	32.17-32.68	0.51	30	1.0	22	242	
	Med gy calc sltst w/Q-C vns.		" py in vns, tr sp	35015	36.55-37.44	0.89	30	1.9	168	517	
	Bx'd lt gy calc sltst, qtz vns to 1 cm @ 70° CA.	very broken core	1-3% py in qtz vns	35016	40.05-41.24	1.19	5	0.7	20	27	



MPH CONSULTING LIMITED

FitzwaterV227

Logged by: TMN

Date: 88-02-02

Hole No.: Fitz-18-88 Page 2 of 3

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
	Bx'd calc sltst.	very broken core	2-4% py in qtz vns	35017	41.24-41.76	0.52	280	1.5	82	38	
				35111	41.76-43.26	1.50	5	0.1	11	38	
	Bx'd lt gy calc sltst.	"	" , tr sp	35018	43.26-44.13	0.87	5	0.7	25	156	
	Bx'd lt gy calc sltst.	"	" "	35019	44.45-45.00	0.55	5	0.1	1	13	
53.93 - 63.14	Intbdd med & blk calc sltst. BCA approx. 65-80°. Lcl bx horizons to 10 cm (silicified).										
	Sample: 4 cm Q-C vn @ 70° CA.	mnr clay gouge (<3 cm)	3-5% py in Q-C vns & dis, tr sp	35020	53.93-54.68	0.75	5	4.4	277	575	
	Stkww vng in med gy calc sltst.		1-3% py, tr asp	35021	63.14-63.81	0.67	5	0.3	171	27	
	" "		2-4% py, tr cp	35022	69.76-70.76	1.00	5	0.1	5	18	
	76.10 +: Calc sltst becomes lt gy. Lcl bcl horizons within calc sltst matrix.	increased silicif'n & Fe-alt'n									
	Stkww qtz in lt gy calc sltst.		1-3% py, tr asp in vns	35023	75.51-76.24	0.73	5	0.1	2	28	
	79.50-81.50: Intense stkww Q-C vng & Fe-carb alt'd horizon. No mineralization.	Beginning of sericite/Fe-carb/ silicif'd alt'n zone									
	Alt'd & bx'd bcl calc sltst		tr py	35024	96.40-97.06	0.66	5	0.1	1	21	



MPH CONSULTING LIMITED

FitzwaterV227

Logged by: TMN

Date: 88-02-02

Hole No.: Fitz-18-88 Page 3 of 3

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
	Alt'd & bx'd bcl calc sltst.		tr py	35025	100.00-100.55	0.55	5	0.2	7	29	
	" w/sbdd balte clsts?		tr py	35026	102.47-103.39	0.92	70	1.7	78	35	
	(to 4 cm) " "		"	35027	103.39-104.04	0.65	5	0.1	13	9	
104.16 - 108.92 EOH	Med to dk grn lapilli tuff.	local hematitic alt'n	tr mgtt & py throughout								
	As above w/mnr hem alt'n.		tr py & cp	35028	104.04-104.62	0.58	5	0.3	61	187	



MPH CONSULTING LIMITED

Project No. V227
FitzwaterLength (m): 163.67 Grid : L25+00S 2+70E
Dip : -50°
Azimuth : 258° Collar elev.: 450m
Core Size : NQ
Casing : out

Logged by : TMN

Date logged: 02/07/88

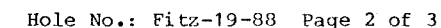
Objective: To intersect
possible SE extension of
gold-bearing horizons
discovered in DDHs Fitz
10 to 13.

Hole No. : Fitz-19-88

Hole Survey Type: Pajari

Depth Dip Azim
163.67 -50° 253°

From - To metres	Lithology	Alteration	Sulphide Mineralization	Sample No.	Interval m	Length m	Au oz/T ppb	Ag oz/T ppm	Cu % ppm	Zn % ppm	Other ppm
0 - 3.66	Casing										
3.66 - 9.62	Med gy calc sltst. No bioclasts. Local soft sed def'm features. Minor (<2%) local sltst clasts to 2 cm. Q-C vng throughout to 2 cm @ 10°, 40° CA. No sulphs.										
9.62 - 15.00	Blk, locally arg, calc sltst. Generally bx'd with Q-C stkwk vng. 12.00-12.40: Lt grn-gy felsic intrusive. Aphanitic homogeneous groundmass.		tr py								
15.00 - 38.00	Lt to med gy calc sltst (as 3.66- 9.62 m). BCA approx 75-80°. Lcl graphitic horizon (eg. 2 cm @ 24.95 m) with tr py. Lt gy calc sltst w/mnr Q-C vng @ 10°, 20° CA (<1 cm). 28.30: 15 cm lst bx zone w/Fe-carb cementation. Clasts angular to 1.5 cm. 29.70 +: Sparse crinoid sections occur (<0.5 cm).		tr py	35029	30.20-30.76	0.56	5	0.1	1	15	

[illegible]



APPENDIX XIII

FIGURES 34 to 46 - DRILL SECTIONS

231°
(SW)

51°
(NE)

Elevation in metres

Elevation in metres

DDH FITZ-2-87
(-65°)

DDH FITZ-1-87
(-45°)

23447-0.008 oz/T Au (0.27 g/t) over 0.48 m
23448-0.033 oz/T Au (1.13 g/t) over 0.21 m
23449

35% py, 1-3% sp,
in qtz-carb vn

23488

1-3% dis sp

tr py, sp

10 m

23491

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23789

155°
(SSE)

335°
(NNW)

Elevation in metres

500
490
480
470
460
450
440
430
420
410
400

DDH FITZ-3-87
(-45°)

Local soft sediment
deformation features.

80% pl. in
quartz
10% py 80m
throughout
section
15% py 40m
throughout
section
graphitic
horizon

Interbedded medium grey to black, locally
bioclastic, locally biohermal, calcareous
siltstone. Sparse graphitic laminations.

Locally brecciated
with stockwork
quartz veining

Local intense
Fe-carbonate alteration
and shearing.

Local epidote alteration,
brecciation.

Light grey crystalline, locally brecciated,
bioclastic limestone. Intensely altered
at base of unit.

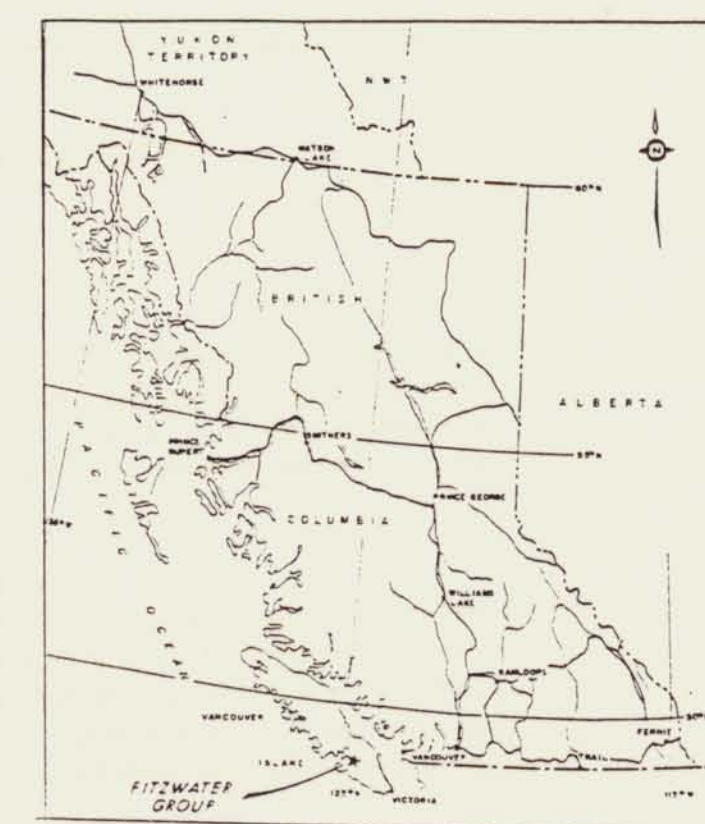
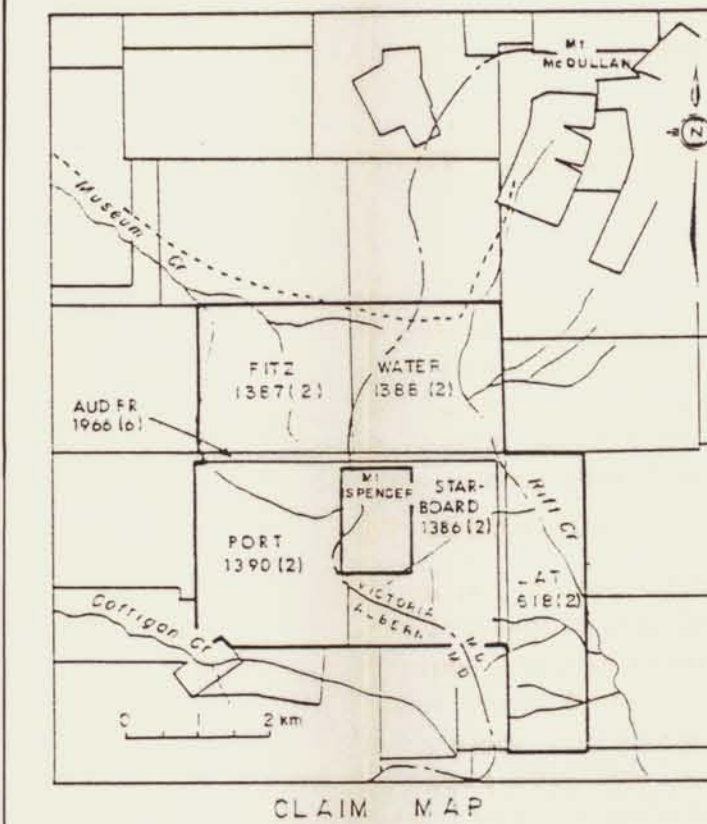
Light grey, Fe-carbonate and sericite-
altered calcareous siltstone.

Dark green fine-grained tuff. Massive bedding.
Not sorted.

T.D. 123.42 m
DDH FITZ-3-87
E.O.H. orientation 331°/42°

Elevation in metres

500
490
480
470
460
450
440
430
420
410
400



PALEOZOIC Sicker Group

5 BUTTE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium
grey to black calcareous siltstone and argillite. Local crinoidal
bioherms. Local graphitic laminations and horizons. Local intense
brecciation accompanied by iron-carbonate and quartz stockwork
veining (commonly host to pyrite-chalcopyrite-sphalerite-arsenopyrite
± pyrrhotite ± galena mineralization).

2 MYRA FORMATION
Medium to dark grey-green interbedded massive basaltic flows and
lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-
filled amygdulites common. Chlorite and amphibole porphyritic
texture common. Trace fine-grained disseminated pyrite and
chalcopyrite throughout.

Drill core samples (gold values plotted):

25622 (Without value) non-significant gold
25307 - 70 Gold geochemistry by AAS (ppb)
25629 - 0.245 oz/T (8.40 g/t) Grade of gold by fire assay

GEOLOGICAL BRANCH ASSESSMENT REPORT

0 5 10 15 20 metres
16.731

TP RESOURCES LTD. Part 6
CREW MINERALS INC. of 6

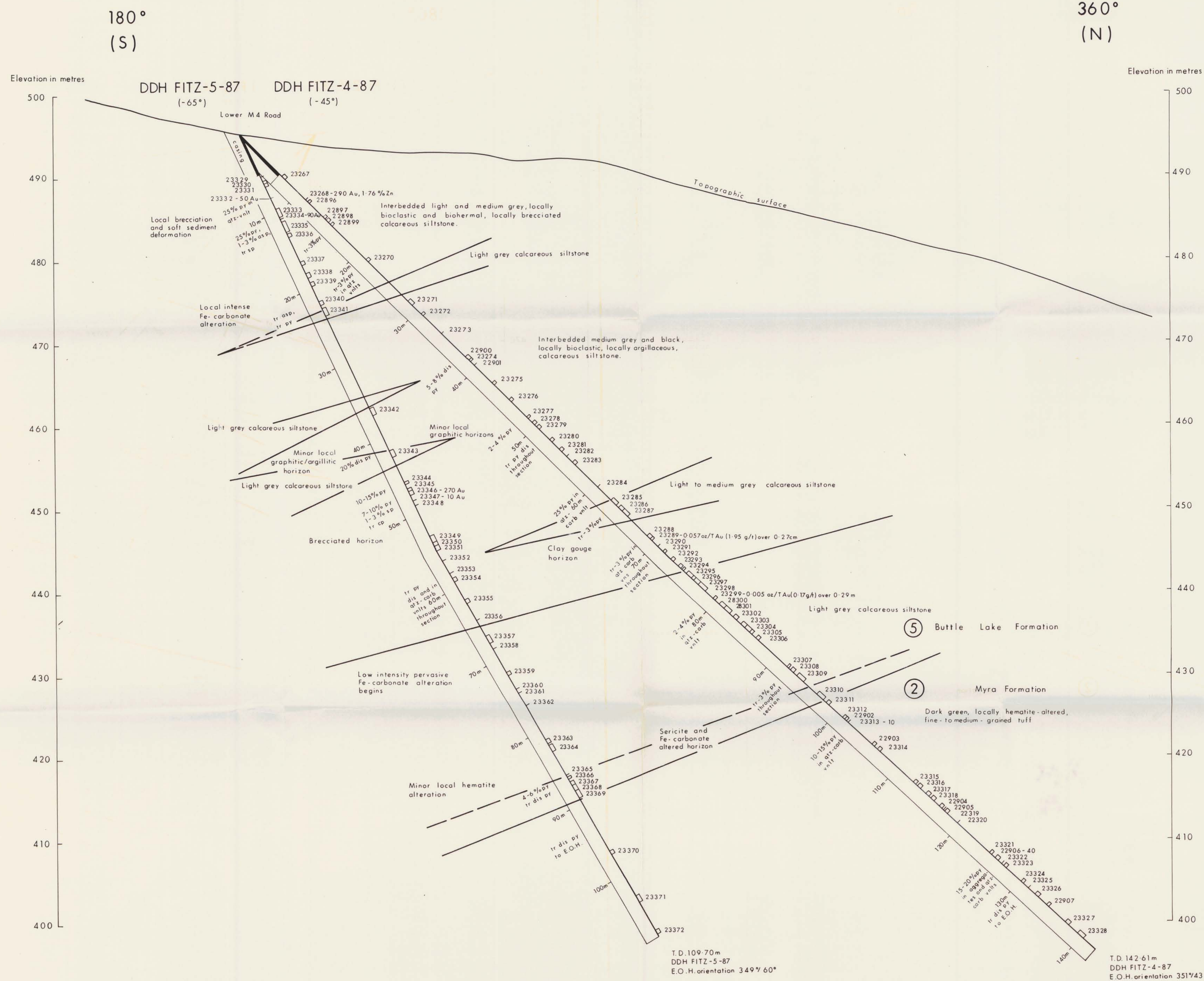
CROSS SECTION DDH FITZ-3-87 FITZWATER PROJECT

ALBERNI AND VICTORIA MINING DIVISION, B.C.

Project No:	V 227	By:	T.M.N.
Scale:	1: 250	Drawn:	J.S.
Drawing No:	35	Date:	FEBRUARY 1988.



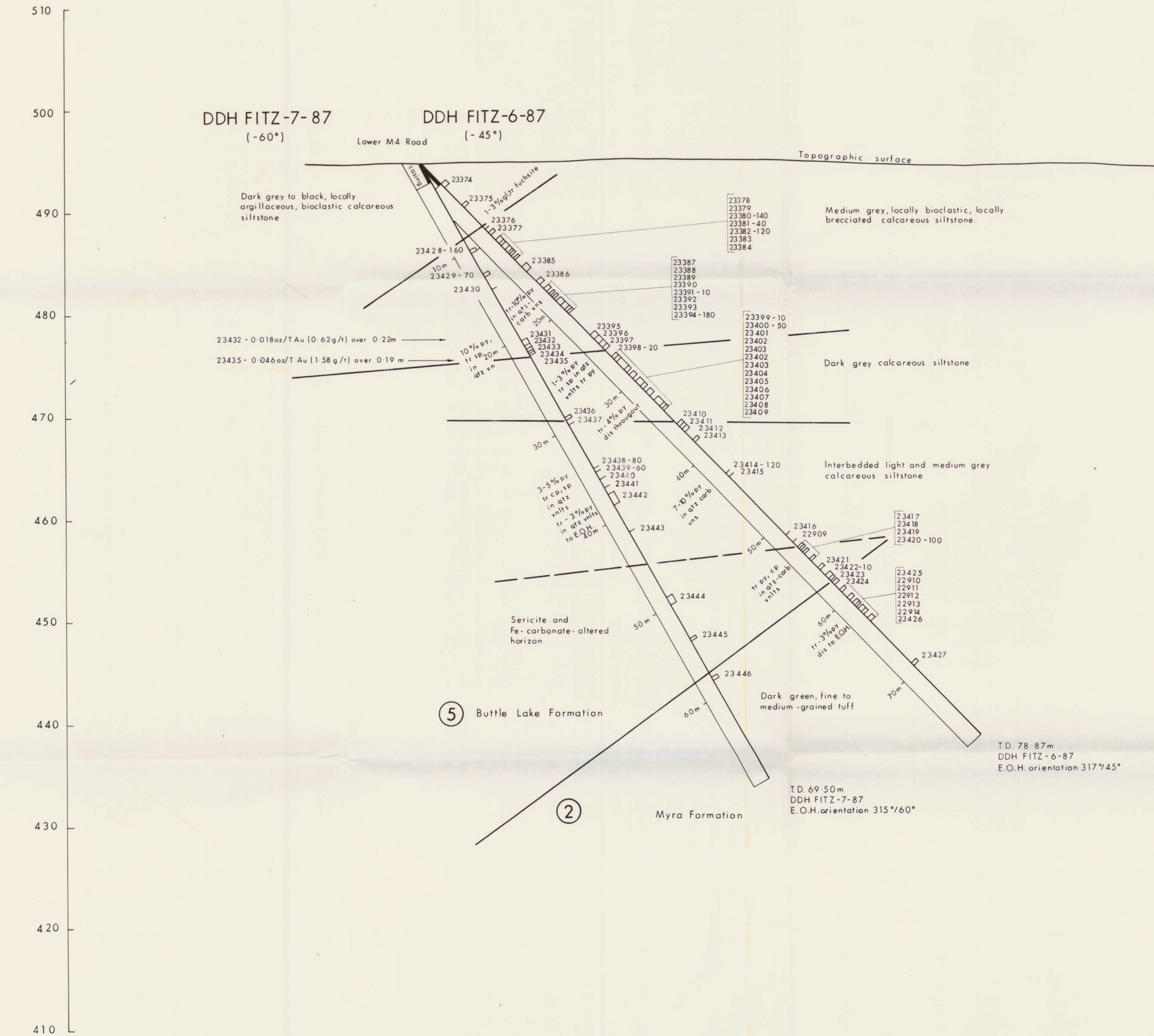
MPH Consulting Limited



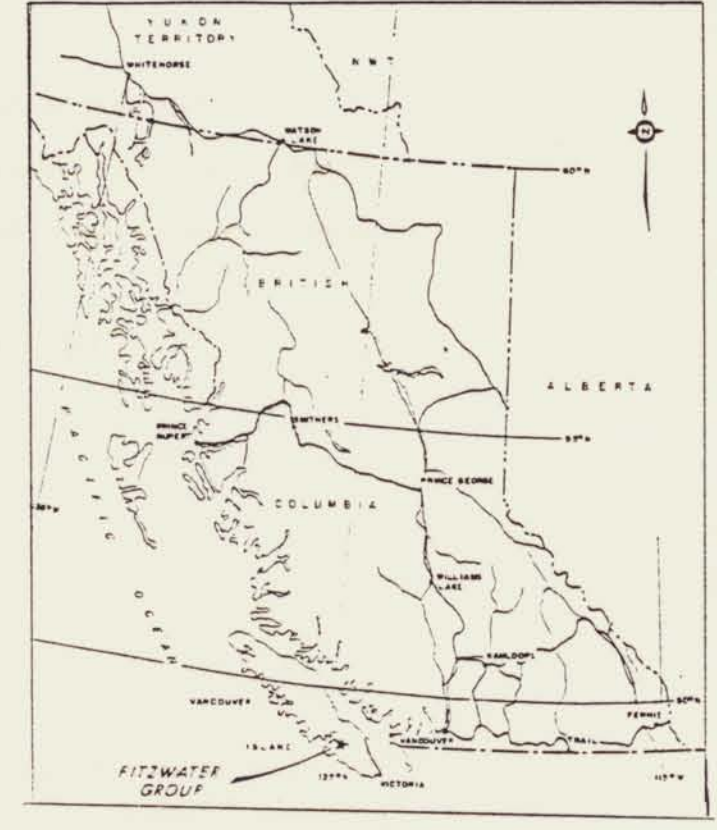
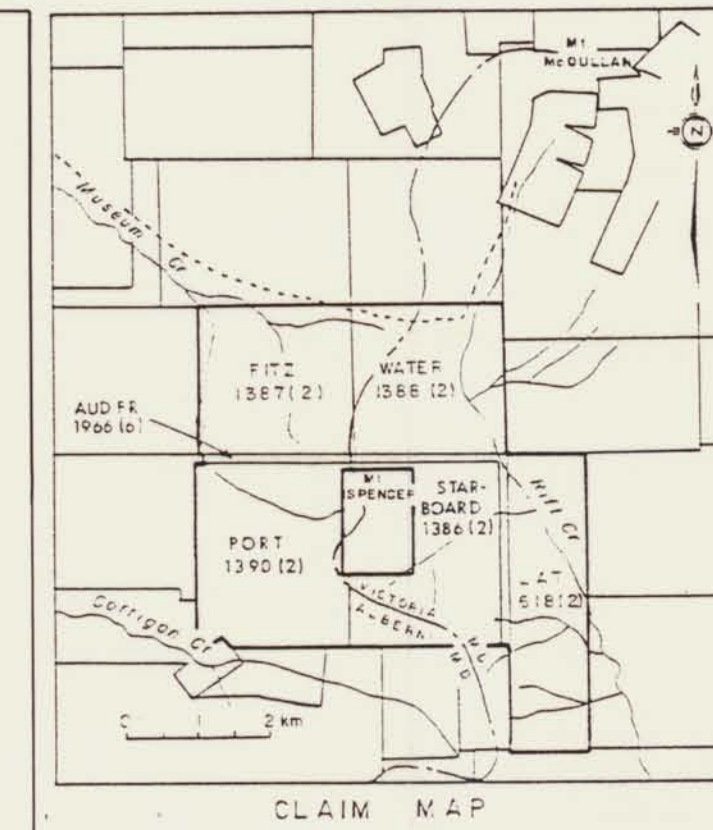
155°
(SSE)

335°
(NNW)

Elevation in metres



Elevation in metres



PALEOZOIC
Sicker Group

5

BUTTLE LAKE FORMATION

Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcocopyrite-sphalerite-arsenopyrite ± pyrrhotite ± galena mineralization).

2

MYRA FORMATION

Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdulites common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcocopyrite throughout.

Drill core samples (gold values plotted):

25622	(Without value) non-significant gold
25307 - 70	Gold geochemistry by AAS (ppb)
25629 - 0.245 oz/T (8.40 g/t)	Grade of gold by fire assay

GEOLOGICAL BRANCH
ASSESSMENT REPORT

0 5 10 15 20 metres
16,731

Part 6
of 6

TP RESOURCES LTD.
CREW MINERALS INC.

CROSS SECTION
DDH'S FITZ-7-87, FITZ-6-87
FITZWATER PROJECT

ALBERNI AND VICTORIA MINING DIVISION, B.C.

Project No:	V 227	By:	T.M.N.
Scale:	1: 250	Drawn:	J. S.
Drawing No:	37	Date:	FEBRUARY 1988.



MPH Consulting Limited

135°
(SE)

315°
(NW)

Elevation in metres

510
500
490
480
470
460
450
440
430
420
410

DDH FITZ-8-87
(~45°)

Lower M4 Road

Topographic surface

Black, locally bioclastic and argillaceous
calcareous siltstone

Light grey brecciated
calcareous siltstone

Tr. & clay
silt and in
arg. calc.
veins

gossanous horizon

Interbedded light and medium grey,
locally bioclastic and biohermal,
locally brecciated, calcareous
siltstone

Local soft sediment
deformation features

⑤ Buttle Lake Formation

② Myra Formation

Sericite and Fe-carbonate altered horizon

Dark green fine-grained tuff

Sericite and Fe-carbonate altered horizon

Light grey bioclastic
calcareous siltstone

Local chloritic
alteration

Dark green fine-grained tuff

23514
23515 - 0.016 oz/T Au (0.55 g/t) over 0.23 m
23516 - 40
23517 - 0.029 oz/T Au (0.99 g/t) over 0.10 m
23518 - 10
23519 - 10.0
23520
23521 - 10.0

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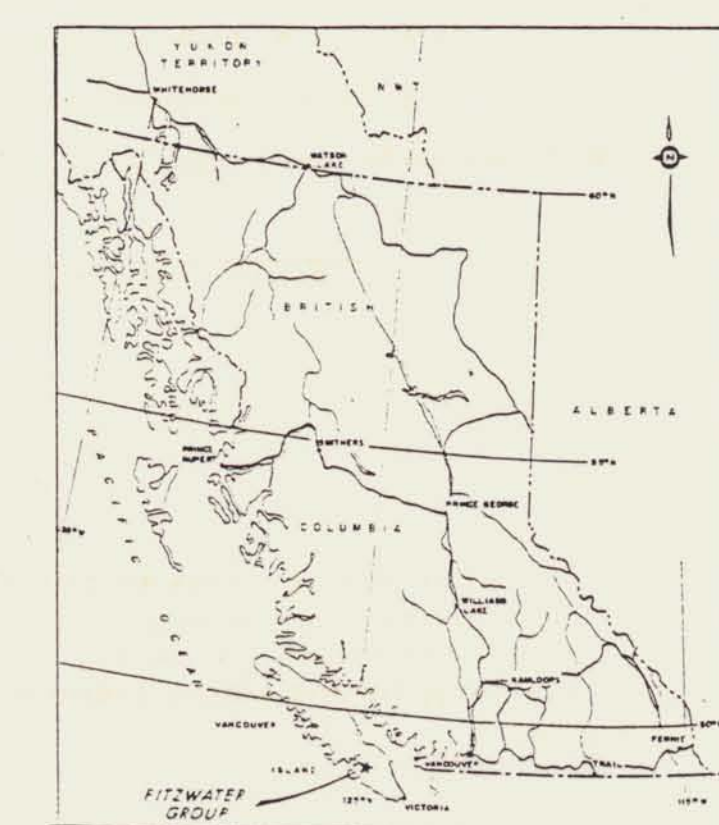
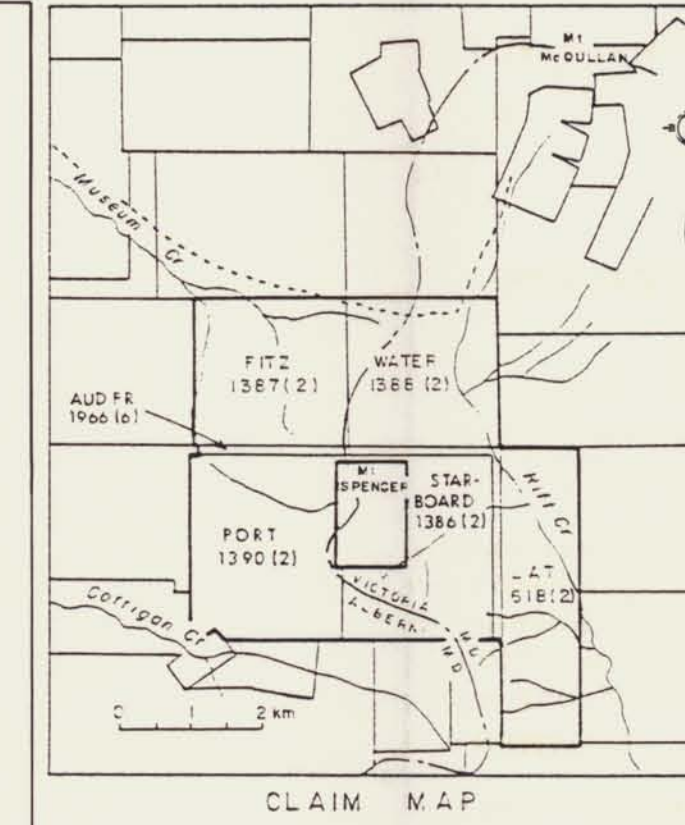
23599
23600

23601
23602
23603

T.D. 71.65 m
DDH FITZ-8-87
E.O.H. orientation 303°/47°

Elevation in metres

510
500
490
480
470
460
450
440
430
420
410



PALEOZOIC
Sicker Group

- ⑤ BUTTLE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcocopyrite-sphalerite±arsenopyrite±pyrrhotite±galena mineralization).
- ② MYRA FORMATION
Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdaloids common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcocopyrite throughout.

Drill core samples (gold values plotted):

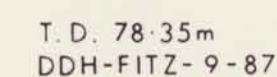
25622 (Without value) non-significant gold
25307 - 70 Gold geochemistry by AAS (ppb)
25629 - 0.245 oz/T (8.40 g/t) Grade of gold by fire assay

GEOLOGICAL BRANCH
ASSESSMENT REPORT

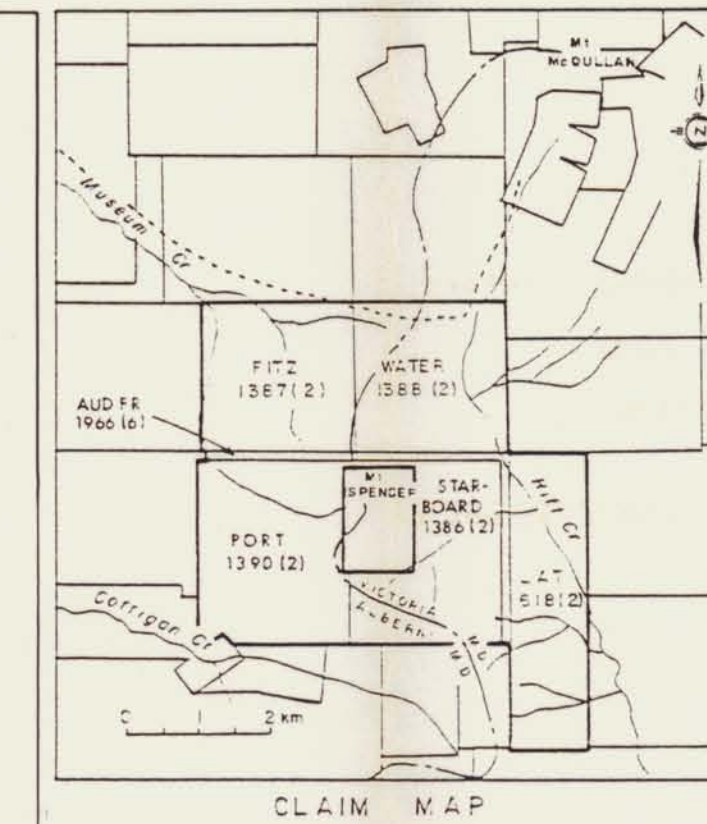
0 5 10 20 metres
16,731 Part 6 of 6

TP RESOURCES LTD. CREW MINERALS INC.	
CROSS SECTION DDH FITZ-8-87 FITZWATER PROJECT ALBERNI AND VICTORIA MINING DIVISION, B.C.	
Project No: V 227	By: T.M.N.
Scale: 1: 250	Drawn: J. S.
Drawing No: 38	Date: FEBRUARY 1988.
MPH Consulting Limited	

Elevation in metres



Elevation in metres



☐ BUTTL

☐ BUTTL

Inter b

Inter b

grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcocopyrite-sphalerite $\pm$ arsenopyrite $\pm$ pyrrhotite $\pm$ galena mineralization).

Medium

lopilli
fatti

filled amygdulæ common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopryrite throughout.

25622

25 307 - 70

25629-0.245 on

(Without value) non-significant gold

CHILD LANGUAGE 15 (1972), 1-15

Gold geochemistry by AAS (ppb)

Grade of gold by fire assay

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

TP RESOURCES LTD.
CREW MINERALS INC.

CROSS SECTION

DDH FITZ - 9-87

ALBERNI AND VICTORIA MINING DIVISION, B.C.

Project No:	V 227	By:	T. M. N.
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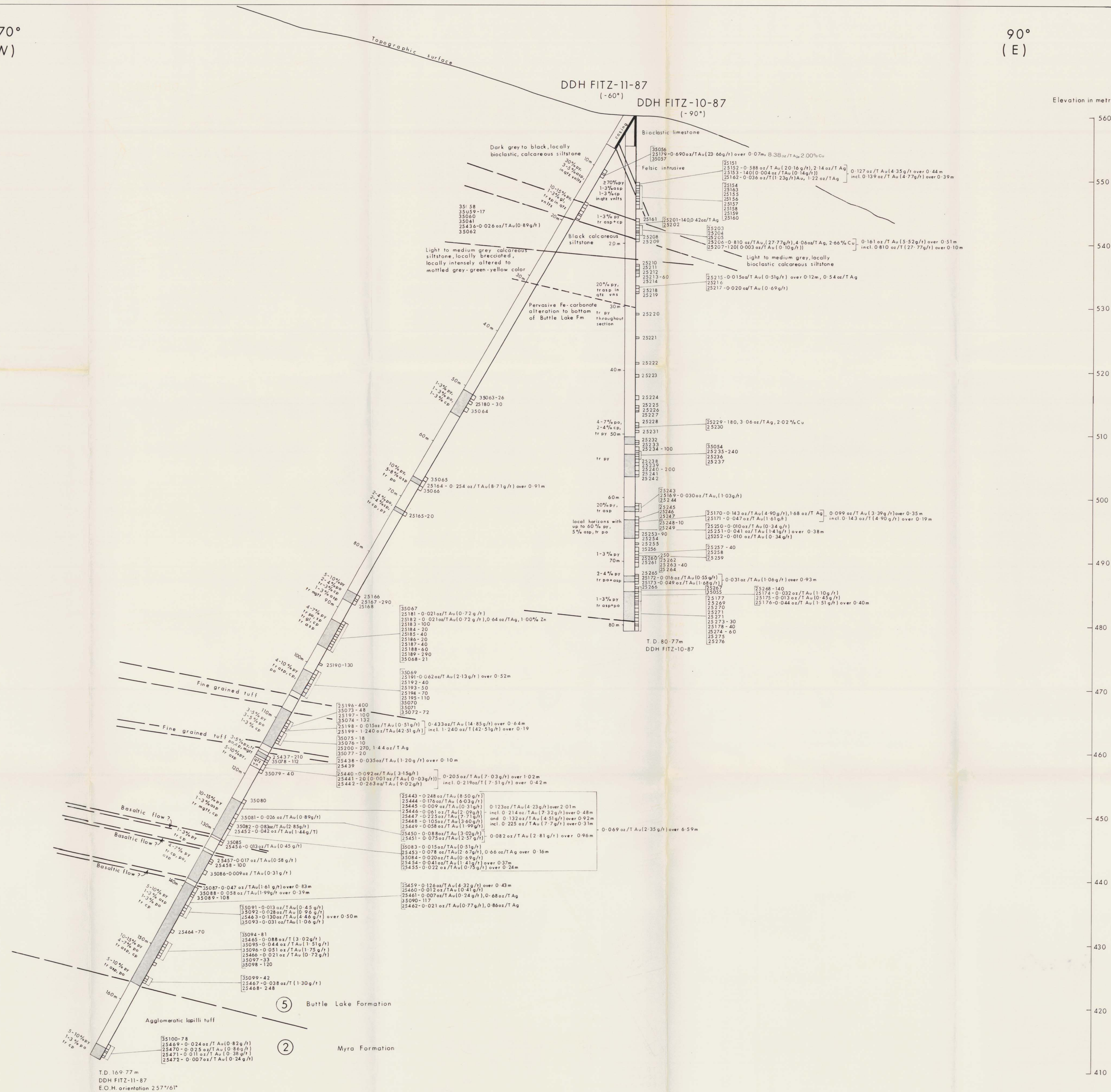
Scale:	1 : 250	Drawn:	J. S.
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Drawing No:	39	Date:	FEBRUARY 1988.
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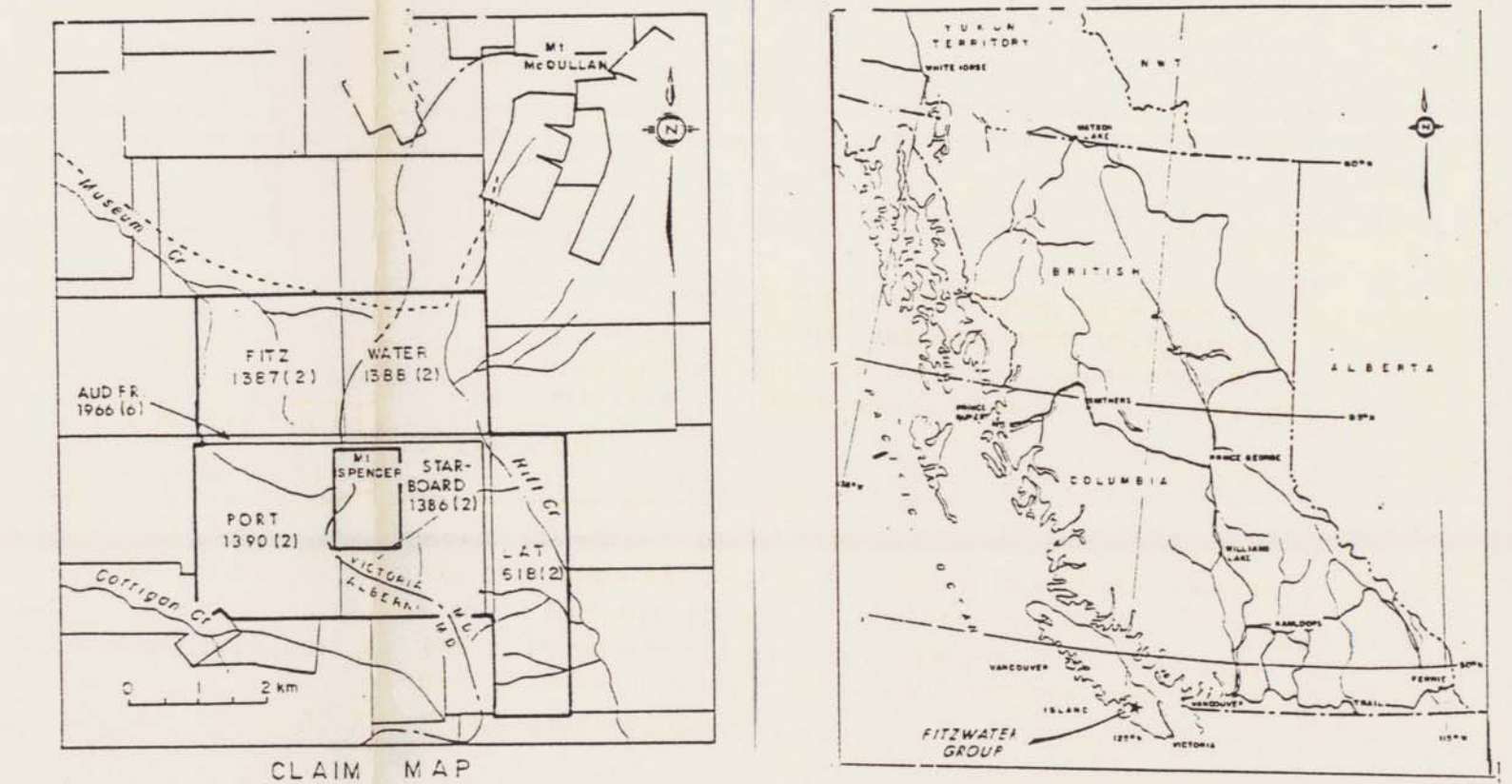


MPH Consulting Limited

Elevation in metres



Elevation in metres



5 BUTTLE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local calcareous laminations and horizons. Local intense brecciation mineralized by iron-carbonate and quartz stock-work veining (commonly host to pyrite, chalcopyrite, sphalerite, arsenopyrite $\pm$ pyrrhotite $\pm$ galena mineralization).

2 MYRA FORMATION
Medium to dark grey-green interbedded massive basaltic flows and locally to aplomaterite lapilli tufts. Calcite and iron-carbonate-filled ovoids common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopyrite throughout.

 Intensely altered horizon. Characterized by local Fe-carbonate / stockwork quartz vein systems, mottled yellow - pale green- brown colour, and high sulphide content.

Drill core samples (gold values plotted):

25622	(Without value) non-significant gold
25307 - 70	Gold geochemistry by AAS (ppb)
25629 - 0-245 oz/t (8.40 g/t)	Grade of gold by fire assay

16,731

Part 6 of 6

TP RESOURCES LTD.
CREW MINERALS INC.

CROSS SECTION
DDH'S FITZ-10-87, FITZ-11-87
FITZWATER PROJECT

Project No:	V 227	By:	T. M. N.
Scale:	1: 250	Drawn:	J. S.
Drawing No:	40	Date:	FEBRUARY 1988.



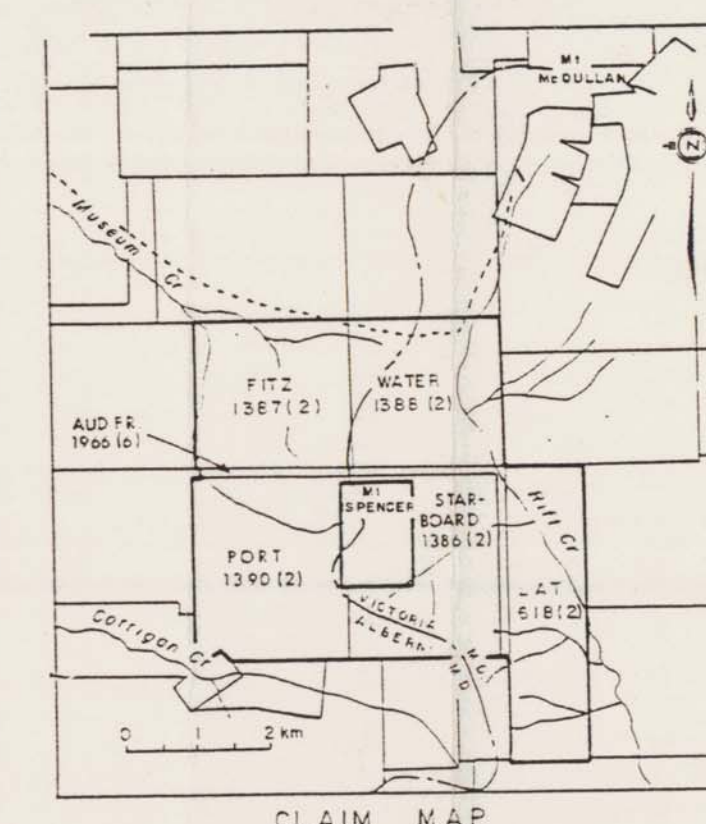
Elevation in metres

275°

DDH FITZ-12-87
(-45°)

DDH FITZ-13-87/88
(-90°)

095°



PALEOZOIC
Sicker Group

5 BUTTE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcopyrite-sphalerite-arsenopyrite ± pyrrhotite ± galena mineralization).

MYRA FORMATION

2 Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdalae common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopyrite throughout.

PALEOZOIC
Sicker Group

5 BUTTE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcopyrite-sphalerite-arsenopyrite ± pyrrhotite ± galena mineralization).

MYRA FORMATION

2 Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdalae common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopyrite throughout.

Intensely altered horizon. Characterized by local Fe-carbonate/stockwork quartz vein systems, mottled yellow-pale green-brown colour, and high sulphide content.

Drill core samples (gold values plotted):

25325 (Without value) non-significant gold
25291-170 Gold geochemistry by AAS (ppb)
25341-0.141 oz/T (4.83 g/t) Grade of gold by fire assay

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,731

Part 6 of 6

0 5 10 15 20 m

TP RESOURCES LTD.
CREW MINERALS INC.

CROSS SECTION
DDH'S FITZ-12-87, FITZ-13-87/88
FITZ WATER GROUP

VICTORIA AND ALBERNI MINING DIVISIONS

Project No: V 227 By: T.M.N.
Scale: 1:250 Drawn: J.S.
Drawing No: 41 Date: FEBRUARY 1988



MPH Consulting Limited

236°
(SW)

56°
(NE)

Elevation in metres

Elevation in metres

DDH FITZ-14-88
M 4 Road (-55°)

PALEOZOIC
Sicker Group

BUTTE LAKE FORMATION

Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcopyrite-sphalerite-arsenopyrite-pyrrhotite-galenite mineralization).

MYRA FORMATION

Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdalites common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopyrite throughout.

Drill core samples (gold values plotted):

25422 (Without value) non-significant gold
25307 - 70 Gold geochemistry by AAS (ppb)
25629 - 0.245 oz/T (8.40 g/t) Grade of gold by fire assay

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,731
Part 6 of 6

0 5 10 15 20 metres

TP RESOURCES LTD.
CREW MINERALS INC.

CROSS SECTION
DDH FITZ-14-88
FITZWATER PROJECT

ALBERNI AND VICTORIA MINING DIVISION, B.C.

Project No:	V 227	By:	T.M.N.
Scale:	1:250	Drawn:	J.S.
Drawing No:	42	Date:	FEBRUARY 1988

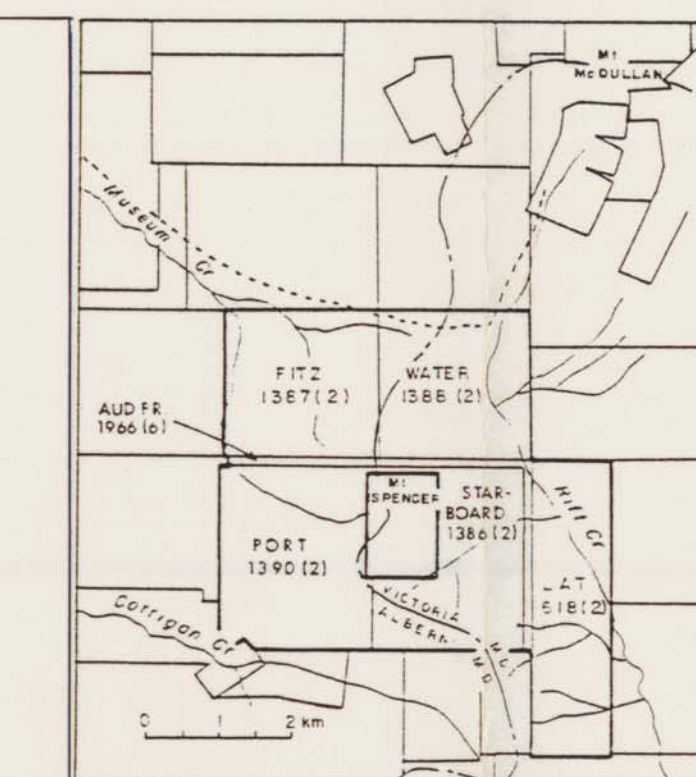
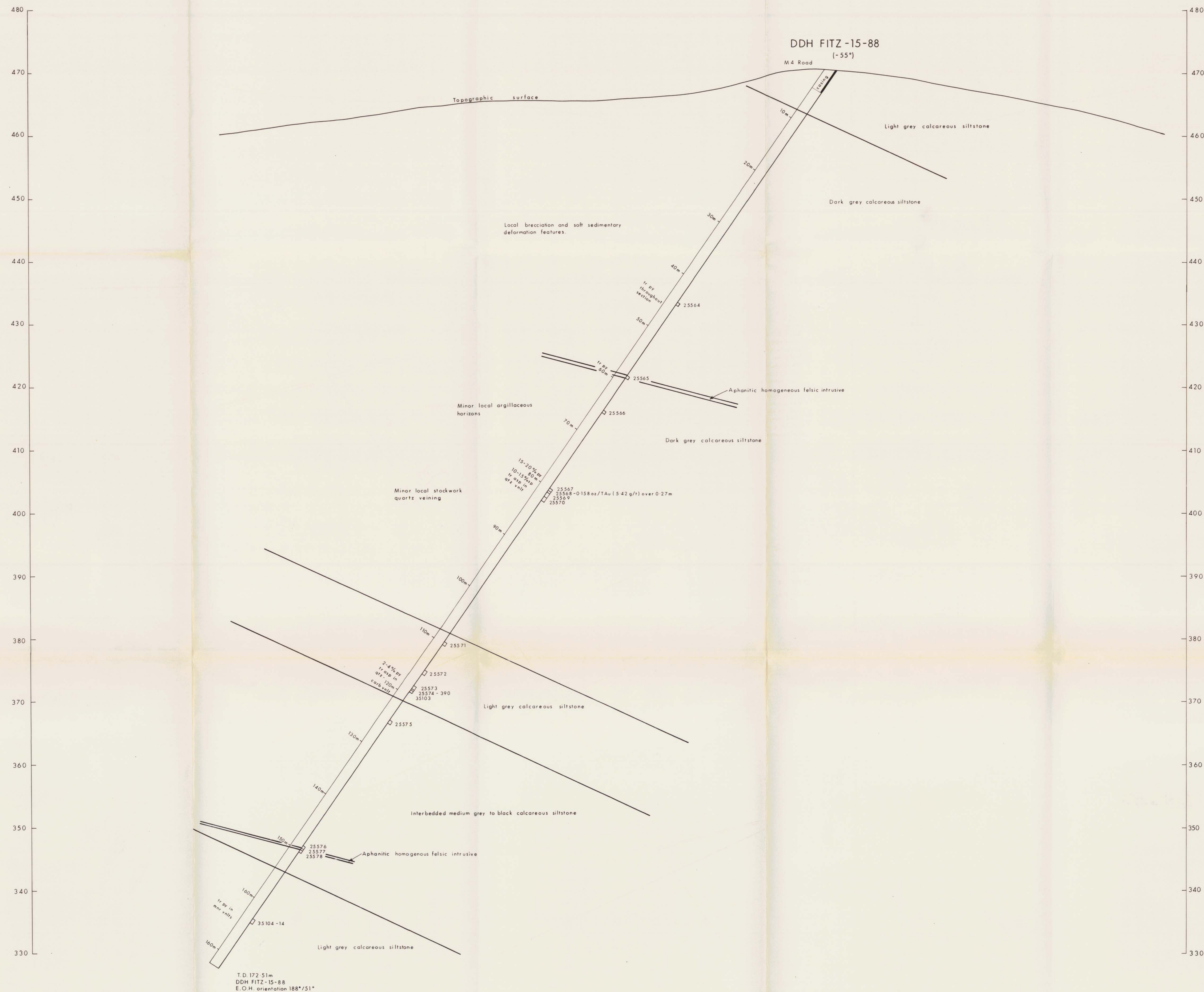
MPH Consulting Limited

190°
(SSW)

10°
(NNE)

Elevation in metres

Elevation in metres



PALEOZOIC
Sicker Group

- 5 BUTTLE LAKE FORMATION**
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcopyrite-sphalerite-arsenopyrite ± pyrrhotite ± galena mineralization).
- 2 MYRA FORMATION**
Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdulites common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopyrite throughout.

Drill core samples (gold values plotted):

25622	(Without value) non-significant gold
25307-70	Gold geochemistry by AAS (ppb)
25629-0.245 oz/T (8.40 g/t)	Grade of gold by fire assay

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,731
Part 6 of 6

0 5 10 15 20 metres

TP RESOURCES LTD.
CREW MINERALS INC.

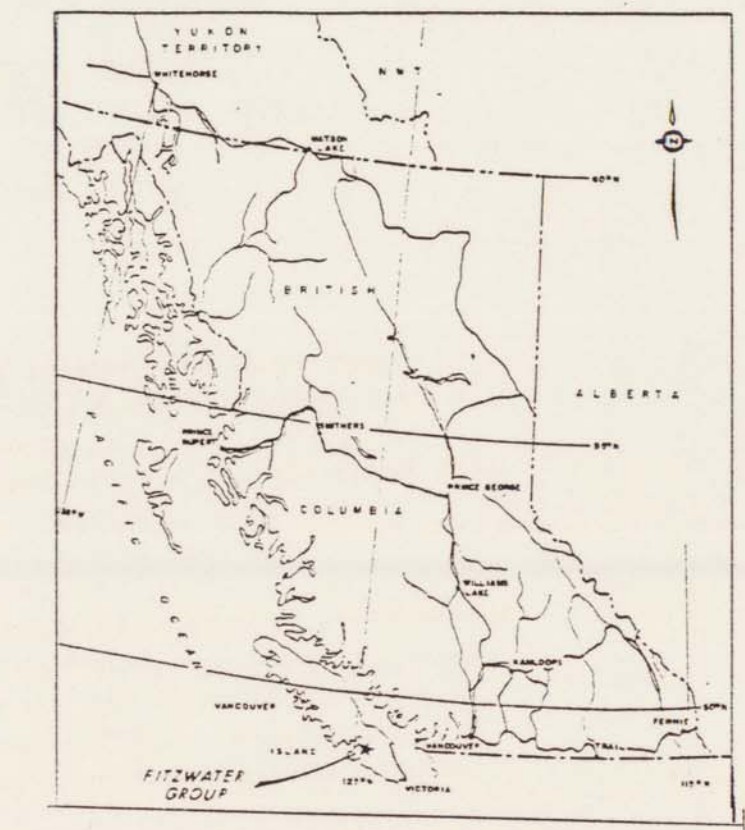
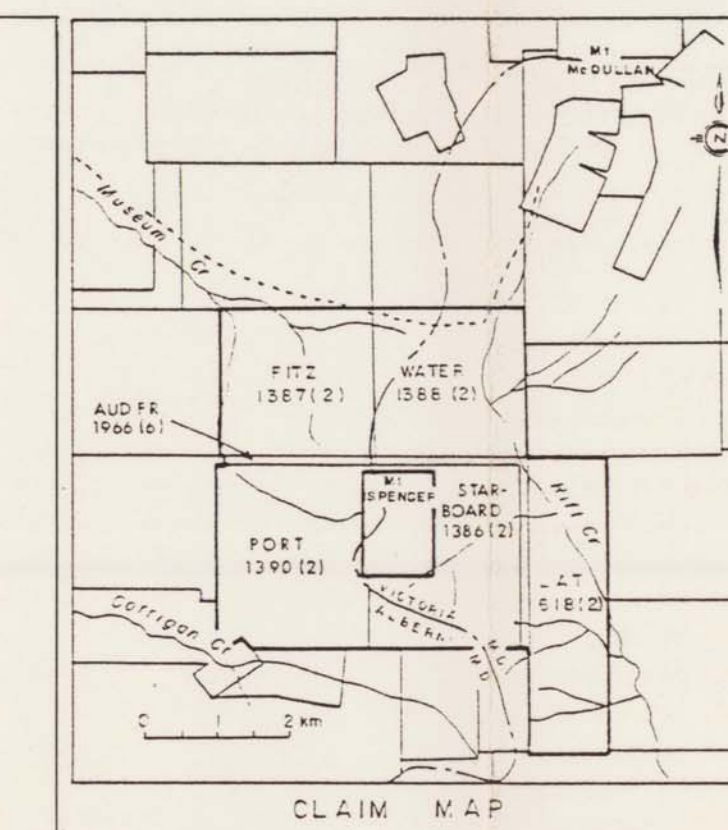
CROSS SECTION
DDH FITZ-15-88
FITZWATER PROJECT

ALBERNI AND VICTORIA MINING DIVISION, B.C.

Project No:	V 227	By:	T.M.N.
Scale:	1:250	Drawn:	J.S.
Drawing No:	43	Date:	FEBRUARY 1988.

MPH MPH Consulting Limited

56°
(NE)



PALEOGENE
Sicker Group

5 BUTTLE LAKE FORMATION

5 BUTILE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining [commonly host to pyrite-chalcocypirrite-sphalerite-arsenopyrite ± pyrrhotite ± galena mineralization].

2 MYRA FORMATION

Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdulæ common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopryite throughout.

Drill core samples (gold values plotted):

25622	(Without value) non-significant gold
25307 - 70	Gold geochemistry by AAS (ppb)
25629 - 0.245 oz/T (8.40 g/t)	Grade of gold by fire assay

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

16.731
Part 6 of 6



TP RESOURCES LTD.
CREW MINERALS INC.

CROSS SECTION
DDH FITZ - 16 - 88
FITZWATER PROJECT

ALBERNI AND VICTORIA MINING DIVISION, B.C.

Project No:	V 227	By:	T. M. N.
Scale:	1 : 250	Drawn:	J. S.
Drawing No:	44	Date:	FEBRUARY 1988.



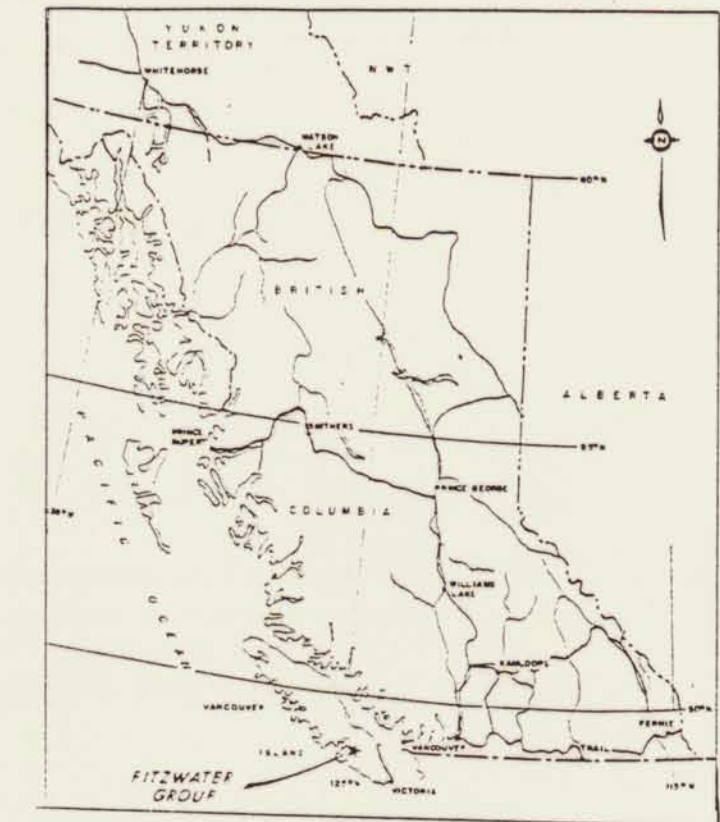
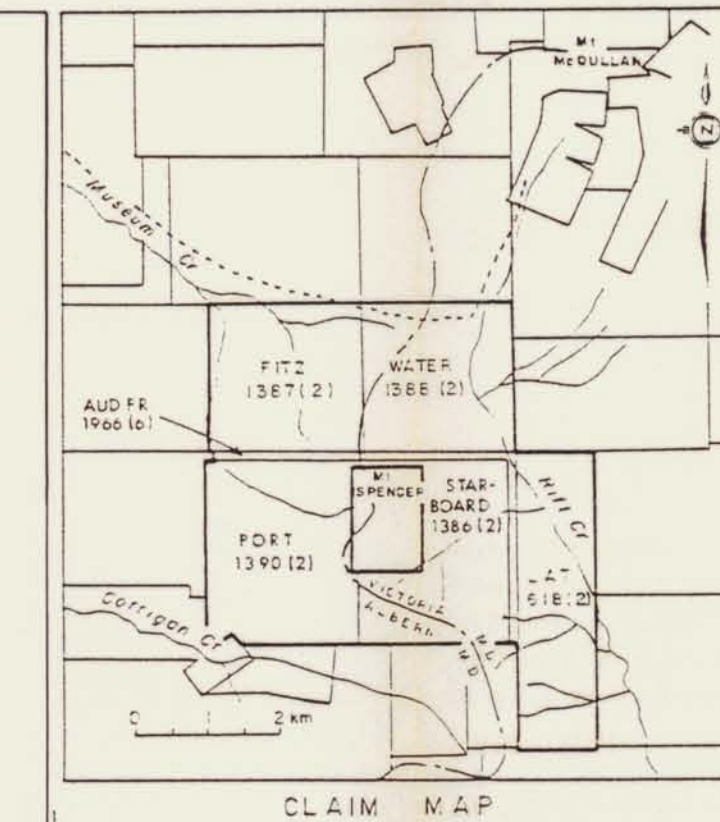
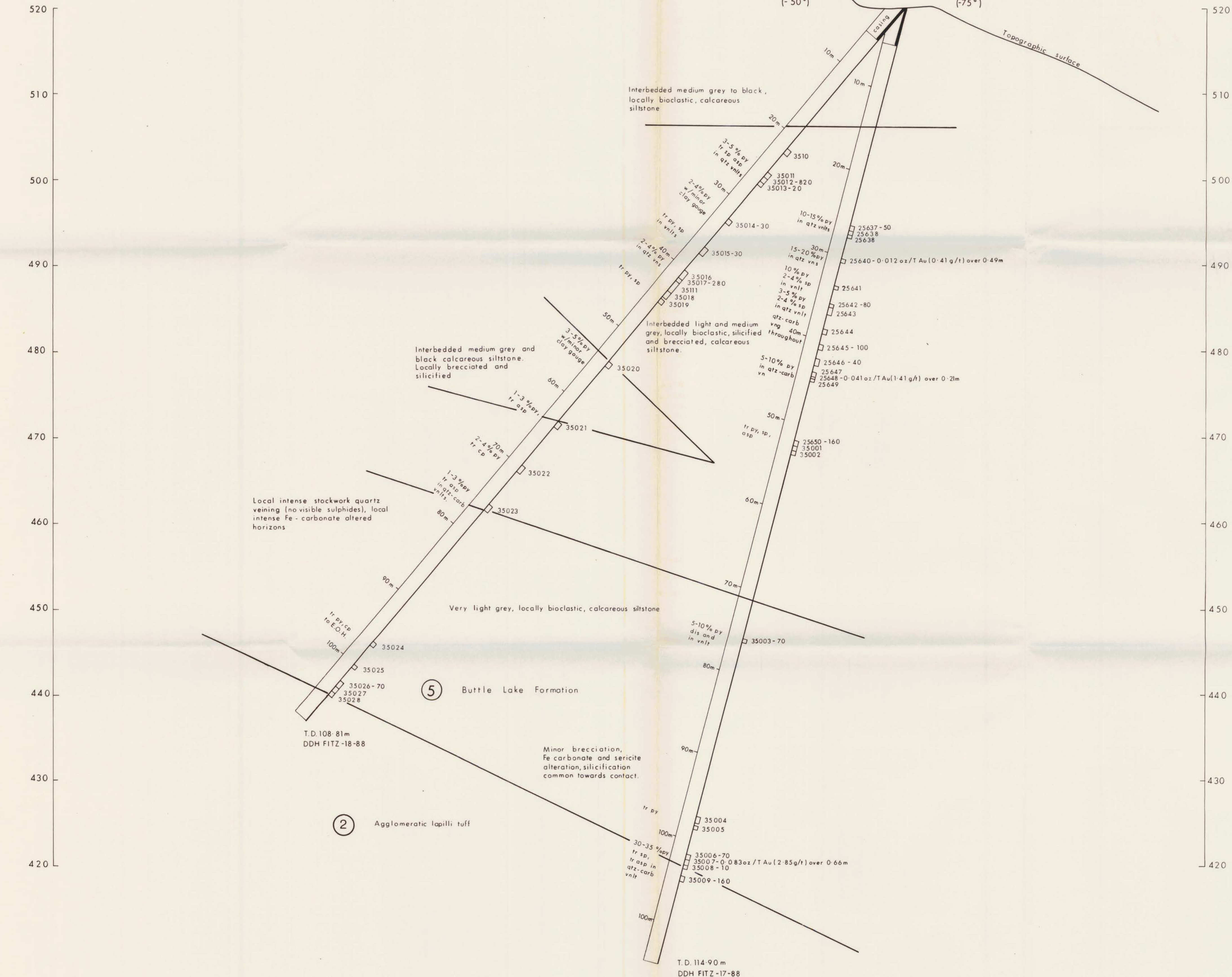
MPH Consulting Limited

270°
(W)

90°
(E)

Elevation in metres

Elevation in metres



PALEOZOIC
Sicker Group

5

BUTTE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite-chalcocopyrite-sphalerite-arsenopyrite ± pyrrhotite ± galena mineralization).

2

MYRA FORMATION
Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdulites common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcocopyrite throughout.

Drill core samples (gold values plotted):

25622	(Without value) non-significant gold
25307-70	Gold geochemistry by AAS (ppb)
25629-0.245 oz/T (8.40 g/t)	Grade of gold by fire assay

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,731 part 6 of 6

TP RESOURCES LTD.
CREW MINERALS INC.

CROSS SECTION
DDH'S FITZ-17-88, FITZ-18-88
FITZWATER PROJECT

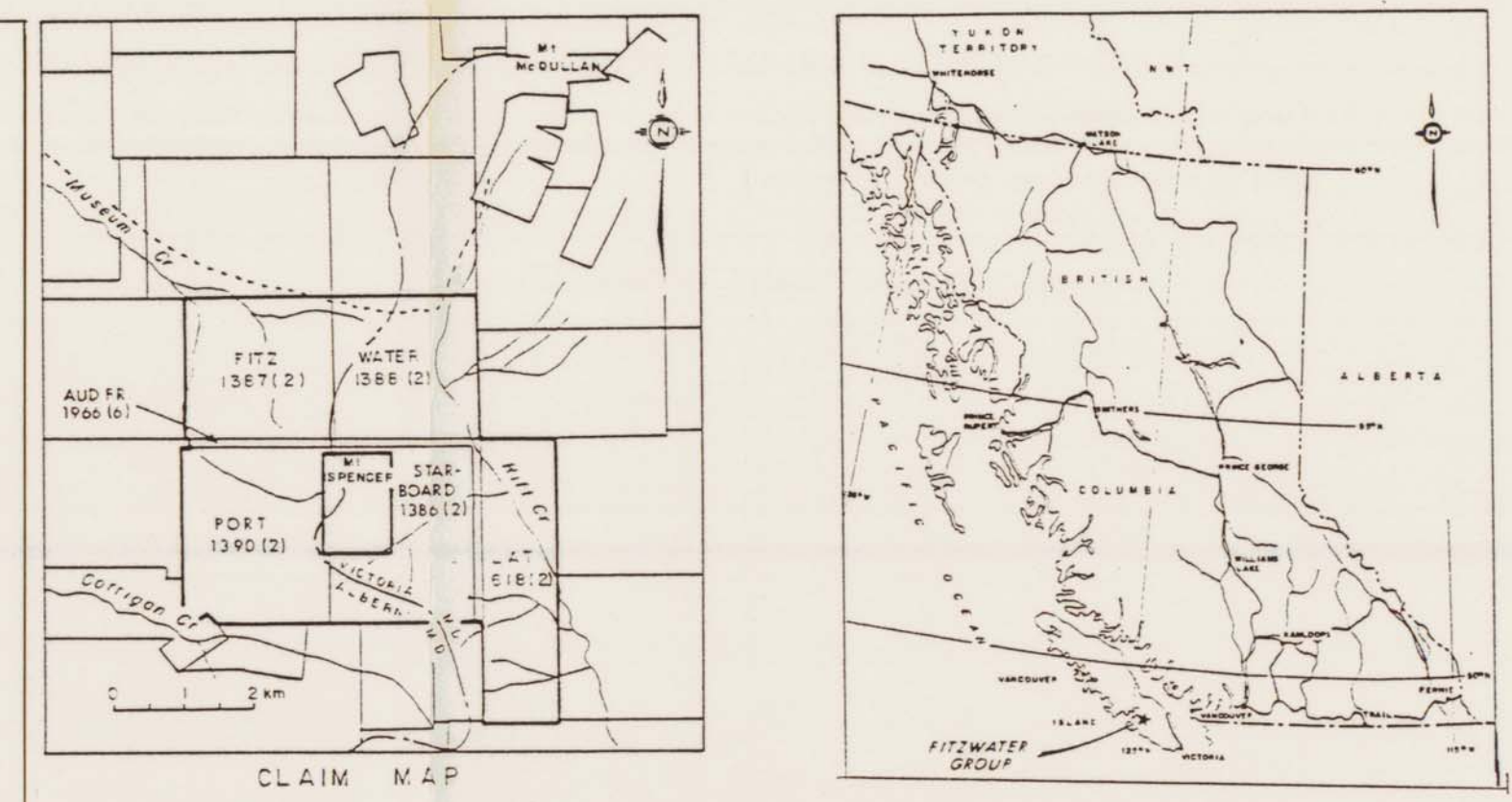
ALBERNI AND VICTORIA MINING DIVISION, B.C.

Project No:	V 227	By:	T.M.N.
Scale:	1: 250	Drawn:	J.S.
Drawing No:	45	Date:	FEBRUARY 1988.



MPH Consulting Limited

78°
(WNW)



5 BUTTLE LAKE FORMATION
Interbedded light grey bioclastic (crinoidal) limestone and medium grey to black calcareous siltstone and argillite. Local crinoidal bioherms. Local graphitic laminations and horizons. Local intense brecciation accompanied by iron-carbonate and quartz stockwork veining (commonly host to pyrite - chalcopyrite - sphalerite - arsenopyrite - pyrrhotite - galena mineralization).

6 MYRA FORMATION
Medium to dark grey-green interbedded massive basaltic flows and lapilli to agglomeratic lapilli tuffs. Calcite and iron-carbonate-filled amygdulites common. Chlorite and amphibole porphyritic texture common. Trace fine-grained disseminated pyrite and chalcopyrite throughout.

25622	(Without value) non-significant gold
25307 - 70	Gold geochemistry by AAS (ppb)
25629 - 0.245 oz/T (8.40 g/t)	Grade of gold by fire assay

16,731
part 6 of 6



CROSS SECTION
DDH FITZ-19-88
FITZWATER PROJECT

ALBERNI AND VICTORIA MINING DIVISION, B.C.			
Project No:	V 227	By:	T. M.N.
Scale:	1: 250	Drawn:	J. S.
Drawing No:	46	Date:	FEBRUARY 1988.


MPH Consulting Limited



APPENDIX XIV

FIGURE 47 - COMPILATION MAP



APPENDIX XV

LIST OF PERSONNEL AND STATEMENT OF EXPENDITURES



LIST OF PERSONNEL AND STATEMENT OF EXPENDITURES

The following expenses have been incurred for the purposes of mineral exploration on the Fitzwater Group, as defined in this report, from July 26, 1987 to February 29, 1988.

Personnel:

G. Allen, PGeol., Project Geologist	\$ 13,387.50
31.5 days @ \$425/day	
T. Naciuk, BSc., Project Geologist	73,875.00
45 days @ 350	
155 days @ 375	
J. Getsinger, PhD, Geologist	2,637.50
7 days @ 350	
3.75 hrs @ 50	
T. Hayes, Field Supervisor	2,800.00
8 days @ 350	
G. Lorenzetti, BSc., Geologist	4,453.75
0.5 hr @ 20	
3.75 hrs @ 35	
17.25 days @ 250	
B. Soles, Field Technician	6,750.00
45 days @ 150	
K. Lund, BSc., Geophysicist	15,400.00
44 days @ 350	
G. Harvey, Field Technician	4,050.00
27 days @ 150	
J. Lang, Field Technician	5,850.00
39 days @ 150	
H. MacIsaac, Field Technician	3,375.00
22.5 days @ 150	
L. Troost, Field Technician	2,475.00
16.5 days @ 150	
T.G. Hawkins, PGeol.	18,650.00
17.5 days @ 500	
16.5 days @ 600	
T. Neale, BSc., Geologist	2,437.50
3.25 hrs @ 50	
6.5 days @ 350	
J. Roth, MA, Geophysicist	5,290.00
8.5 days @ 500	
13 hrs @ 80	
E. Ackerly, Blaster	3,250.00
13 days @ 250	
G. Volkman, Field Technician	9,750.00
65 days @ 150	
B. Davidson, Field Technician	6,075.00
40.5 days @ 150	



Personnel cont.

R. Bonnar, Field Technician	\$ 5,025.00
33.5 days @ 150	
G. Picken, BSc., Geologist	112.50
0.75 day @ 150	
J. Cootes, Field Technician	2,625.00
17.5 day @ 150	
T. Styan, Field Technician	2,925.00
19.5 days @ 150	
A. Van Volsen, Field Technician	2,700.00
18 days @ 150	
S. Blacquiere, Office Assistant	150.00
1 day @ 150	
B. Thomae, BSc., Geologist	350.00
1 day @ 350	

Personnel Total

\$194,393.75

Field Costs:

Food and Accommodation	30,752.50
683.4 mandays @ \$45/manday	
Transportation	24,075.00
Communications, Shipping, Misc.	12,202.37
Equipment Rental	17,280.00
(IP, Radios, Computer, Pajari, Chainsaw, Rocksaw)	
Laboratory Costs for Analyses/Prep.	33,283.30
Topo Map Preparation	2,400.00
Drilling Costs	184,383.91
Excavator	5,519.15
Cat and Lowbed	8,170.00
Helicopter Rental	9,141.66

Field Costs Total

327,207.89

Report Costs:

Reproduction	6,122.20
Drafting	10,830.00
Typing	761.55
Materials	666.31

Report Costs Total

18,380.06

Administration @ 15% on disbursements

40,018.30

\$580,000.00