

NOGS Webinar Presentation

Paperless Office Tools for the Petroleum Geologist

“Working at a Distance”

By

Robert Rooney

May 11, 2020

Thanks to NOGS Field Study Contributors:

All of the authors, editors and committee members who shared their talents, sacrificed their time
And published this tremendous body of work.

They are credited with the individual and collective work products in these volumes which constitute
One of the largest compilations of geological subsurface work available to industry today.

Ed Picou for his continued service to NOGS in collaboration with stakeholders in the digitizing,
Marketing, and making online sales of the NOGS publications possible to the rest of industry.

Outline

Why strive for a paperless office?

Introduction to the NOGS Publications DVD Sets

Field Study Example

- Techniques for “modernization” of the subsurface data

- Integration / Links to SONRIS public information

- Building a quick GIS basemap

- Downloading Log Images to a project database

- Using publicly available well log data to do subsurface work

Geology of Greater New Orleans

- Overview of Selected Maps

- GIS Integration of some study figures

NOGS CD Availability

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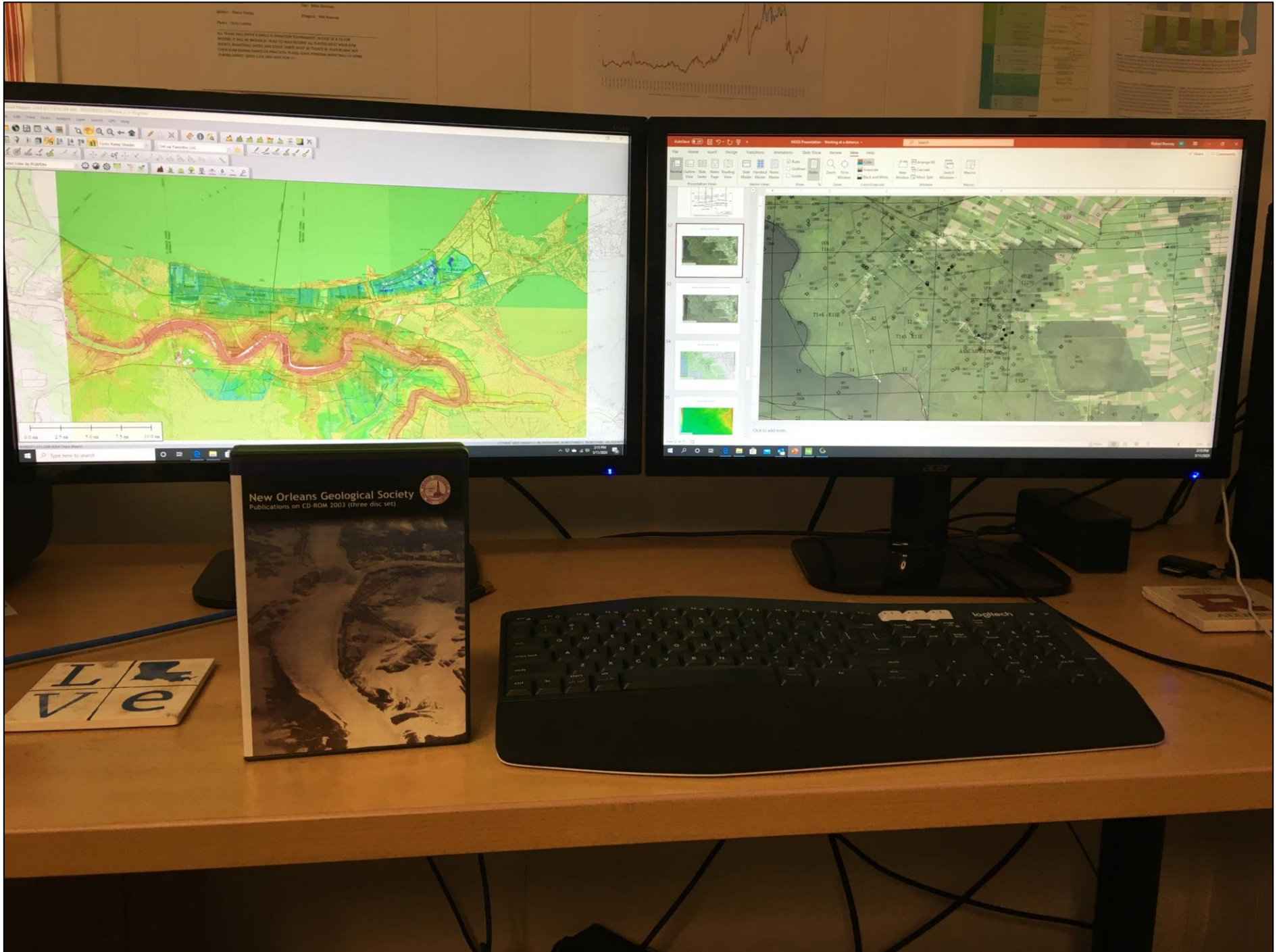
Why strive for a paperless office?



The case for having paperless office capability in the geosciences...

- Independent career path decision
- Lower-cost/overhead, more efficient than paper and ink
- Less office space required than paper and ink (no drafting table nor file cabinets required)
- Work-from-home / Lock-down society rules may make it necessary
- Necessitates digital communication and virtual team collaboration
- Less travel required - Web-ex meetings
- Work from anywhere
- It is the future and it is here

It allows you to do more.



Software Tools used in this presentation

- Global Mapper ©
- NeuraSection ©
- Louisiana Department of Natural Resources SONRIS
- NOGS 3-CD Publications Set

My Career Timeline.....

University experience → did not touch a computer prior to graduation

First professional job (1987) involved continued increasing computer use such as:

- helping prepare Banker's presentations through 3rd party graphics company
- input data for engineers, x-y plots, and map coordinates
- implemented a core-log description package for well-site usage
- observed for the first-time, a computer-generated contour map of a salt dome
- implemented the company's first computerized production morning report (trained staff offshore)

First consulting experience (1994)

- purchased my first mapping software
- used word processing and spreadsheets for report presentations
- maps and cross-sections were still hand-drawn and drafted (many originals lost due to flooding)

Major oil company and independent oil company jobs (1997 - 2016)

- fully digital workstation platforms
- 3D seismic, geo-databases, cutting edge technology
- company-provided overhead and licensing to software and data
- all I had to do was perform

Second consulting experience (2016)

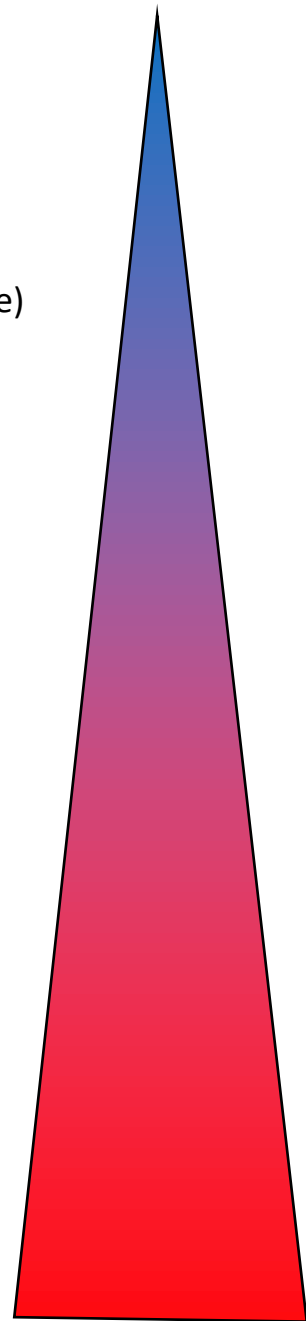
- no budget, limited office space, no computer, no software
- big realization that the paper office would not save me this time
- took mental inventory of what was needed to interpret subsurface data
- settled on the tools described in the first slide

Most recent oil company job (2019-present)

- office set-up was open floor plan
- cloud-based integrated workstation platform required minimal office space (low overhead)
- current set-up was "ready-as-you-go" for transition to a home-based office

Computer Usage
Importance

0



100%

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Oilfields of Onshore South Louisiana (Volumes I, II, III, & IIIa)

Oilfields of Offshore South Louisiana (Volumes I & II)

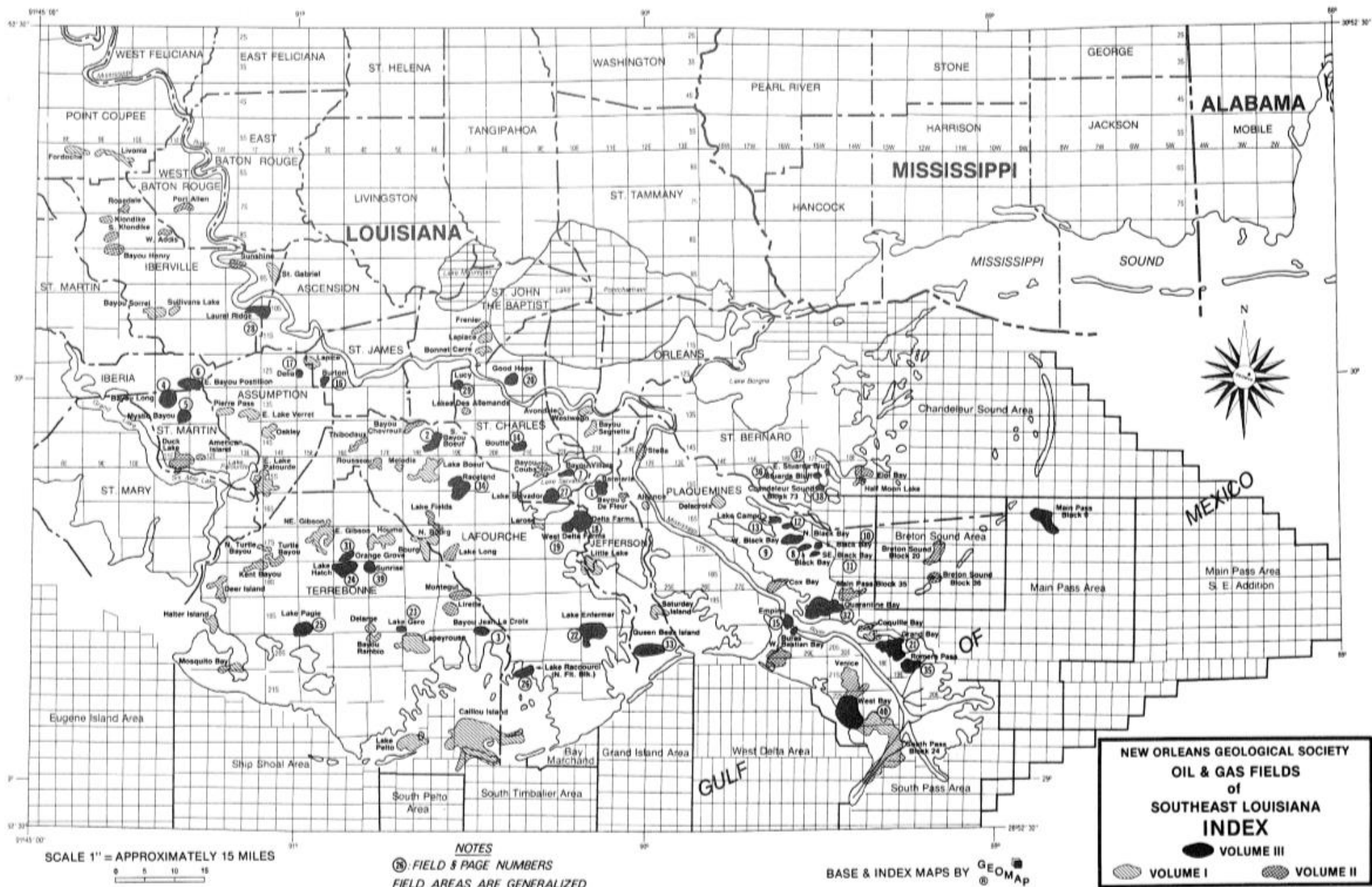
Salt Domes of South Louisiana (Volumes I, II, & III)

Tuscaloosa Trend Study

Disc 2

Disc 3

Onshore Fields Covered in Volumes I, II, & III



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Printing was done directly from typing by Mrs. Louis E. (Judy) Lemarie on the word processor of her employer. Drafting was by Raymond Botti, assisted by Gaynell Doll, both of Exxon. Dinah Smith and John Martinez of Pelto also helped with typing and drafting, respectively.

Throughout this prolonged project and in checking the final draft, the Chairmen of the Technical Projects Committee, James A. Hartman, Shell Oil Co., Lee H. Meltzer, Consultant, and Rudolf B. Siegert, Westover Oil Co. have been most helpful. Proofreading by Barry F. Doll of Pelto was invaluable.

Personally and on behalf of the Society we express our appreciation to the many individuals and companies for their contributions and for the release of data of which many were heretofore unpublished.

Louis L. McCormick
Pelto Oil Co.
Chairman

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A supplement to Volume III of Oil And Gas Fields Of Southeast Louisiana was suggested by Louis L. McCormick, editor of Volume III. His publication of Volume III in a loose leaf binder ready for future supplements was the basis for this ten field study supplement. Additional supplements may follow.

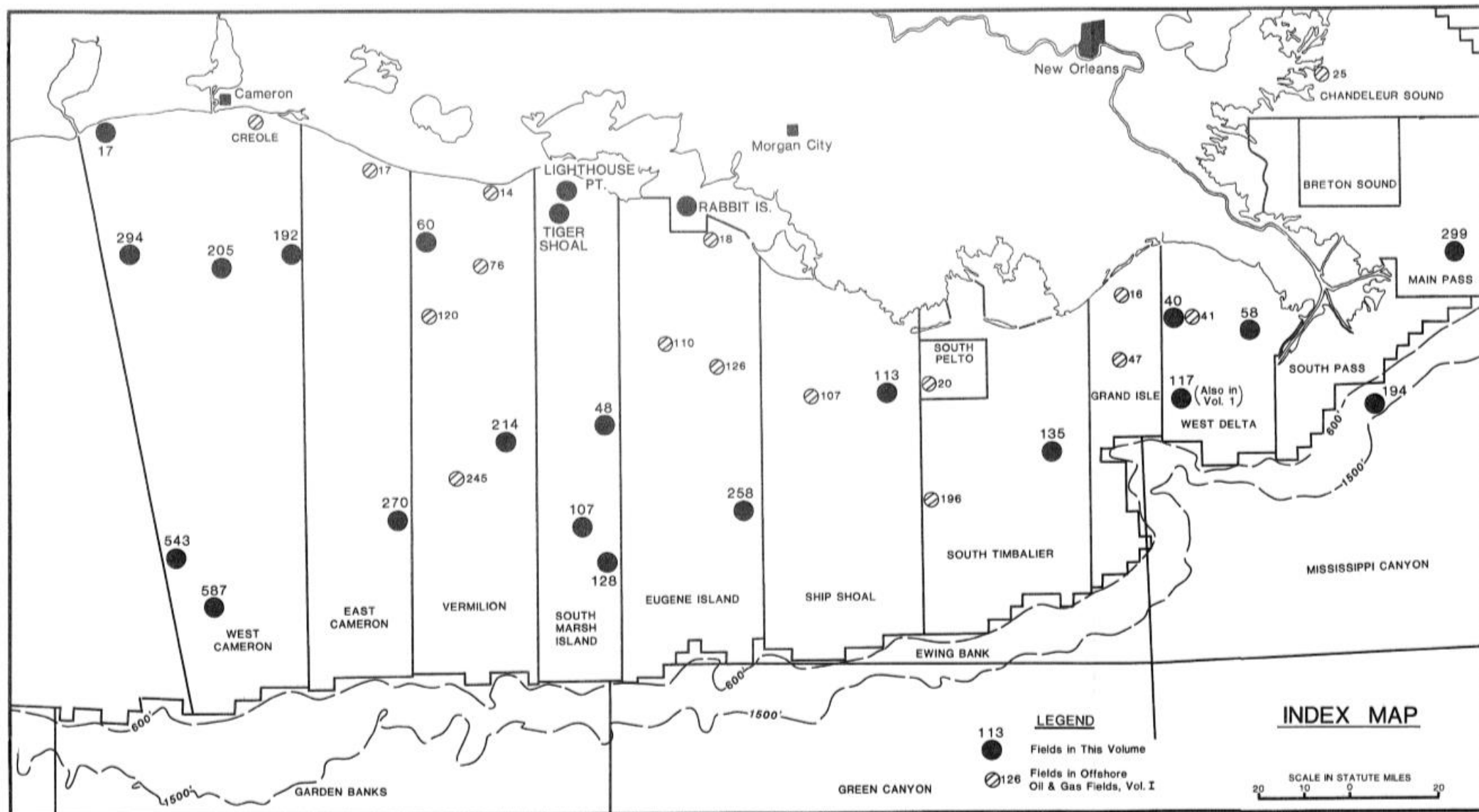
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Offshore Fields Covered in Volumes I & II



Index map of oil and gas fields of offshore Louisiana, Volume II

OFFSHORE LOUISIANA

OIL AND GAS FIELDS



OCTOBER, 1973
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TABLE OF CONTENTS

	PAGE
Officers and Directors of the New Orleans and Lafayette Geological Societies	iv
Foreword	v
Introduction	vii
Index Map Showing Location of Fields Described and Trends of Production for Each Major Stratigraphic Unit	ix
Tectonic Map Showing Major Structural Features of the Continental Offshore Louisiana	xi
Age of Producing Intervals	xiii
Legend	xv

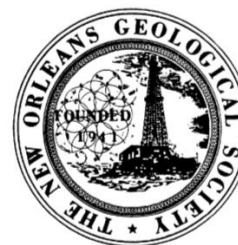
GENERAL PAPERS

Author	Company	
Pleistocene-Pliocene Stratigraphy of the Louisiana Continental Shelf	Jules B. Sachs	Nicholls State College 1
Movement of Bottom Soils in the Mississippi Delta Offshore	R. G. Bea H. A. Bernard	Shell Oil Company 13
The Compatibility of the Offshore Oil Industry with the Marine Environment	Burton B. Tettleton	Consultant 29
Role of the U. S. Geological Survey in the Oil and Gas Development of the Gulf of Mexico Outer Continental Shelf	Gayle A. Oglesby	USGS 35

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Creole (West Cameron Block 2)	C. Walter Dobie	Consulting Geologist 41
East Cameron Block 17	James A. Hartman	Shell Oil Co. 47
Eugene Island Block 18	B. Brick Robinson	Shell Oil Co. 51
Eugene Island Block 110	Samir S. Rizkalla	ODECO 57
Eugene Island Block 126	T. Bullard	Mobil Oil Corp. 61
Grand Isle Block 16	Richard J. Steiner	Exxon 65
Grand Isle Block 47	Malcolm Liddle	Continental Oil Co. 71
Ship Shoal Block 107	E. L. Russell	Chevron Oil Co. 75
South Pelto Block 20	Eugene H. Harris	ODECO 81
South Timberline Block 196	Raymond W. Stephens	La. State Univ. New Orleans 87
Vermilion Block 14	Leland F. Kenny Roland W. Sherwood	Amoco Production Co. 93
Vermilion Block 76	Ben M. Mayfield	Union Oil of California 97
Vermilion Block 120	Doyle W. Davis	Continental Oil Co. 105
Vermilion Block 245	Tenneco Oil Co. Staff	Tenneco Oil Co. 111
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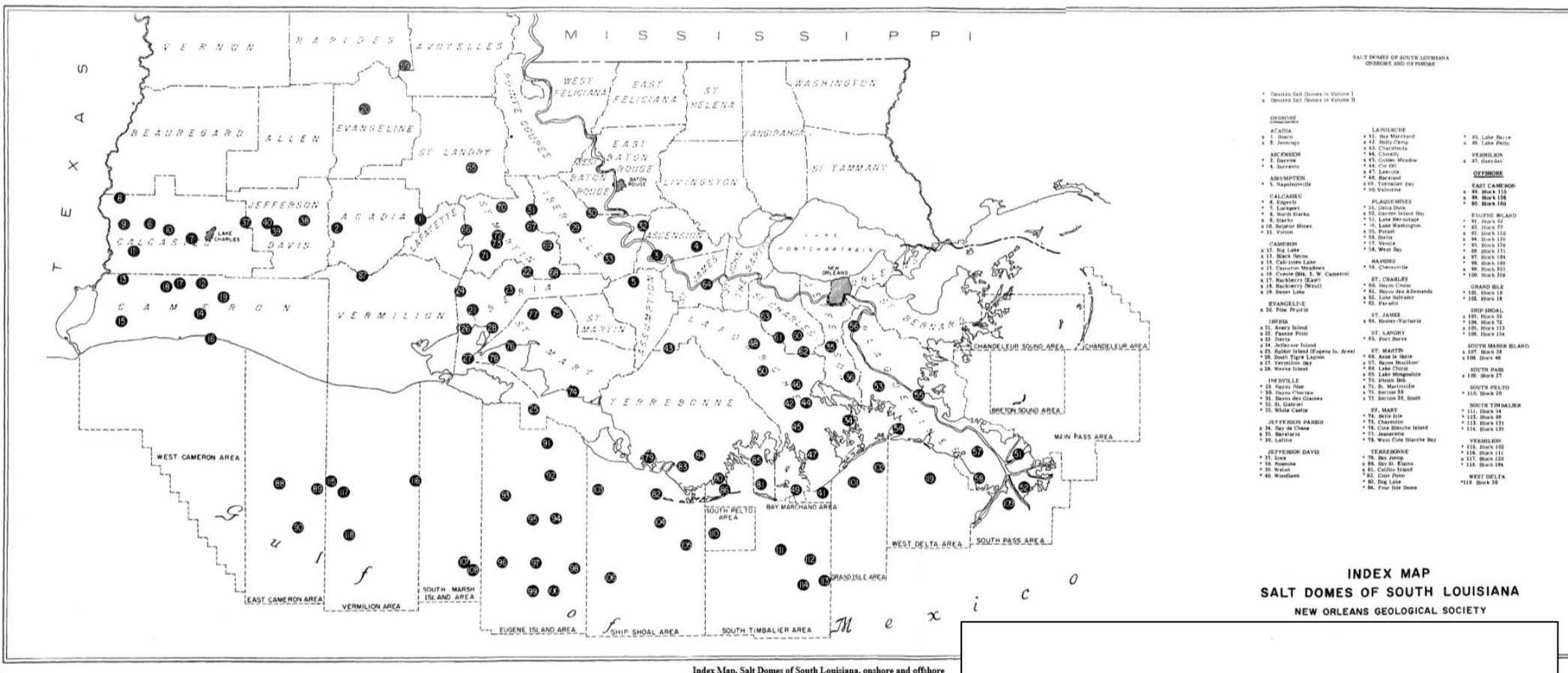
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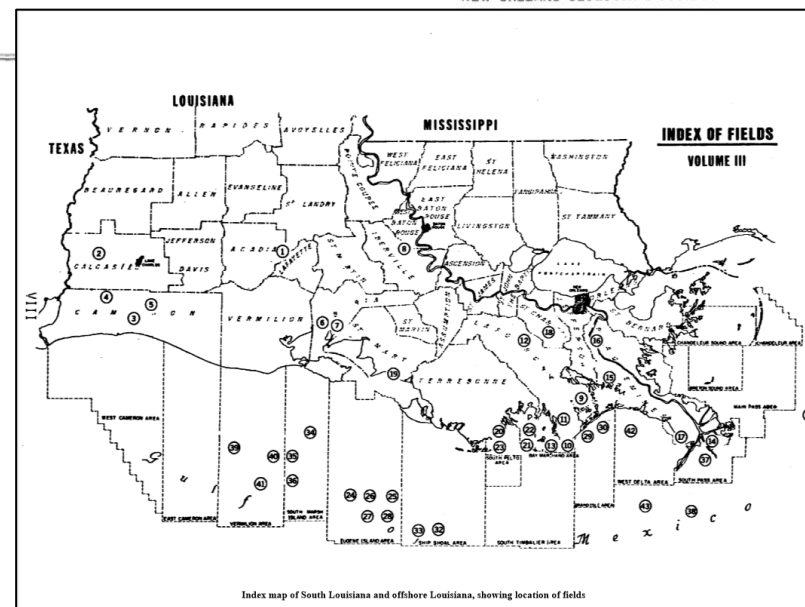
Salt Dome Studies



Index Map, Salt Domes of South Louisiana, onshore and offshore

Each Study includes:

- Contour Map of Dome
- Data Sheet



Index map of South Louisiana and offshore Louisiana, showing location of fields

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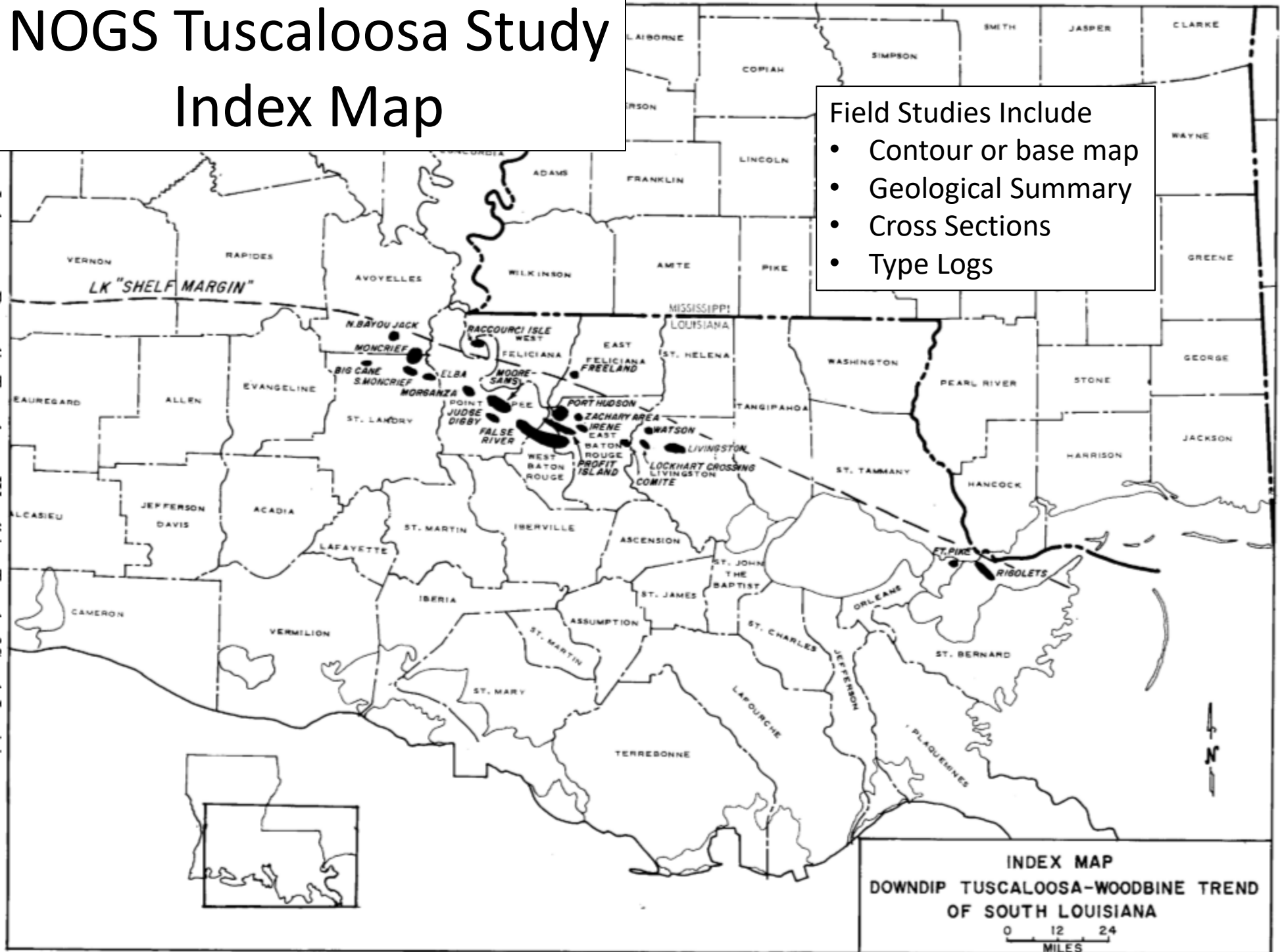
To all others who contributed their time and talents, the Society gives its sincere thanks.

NOGS Tuscaloosa Study Index Map

Field Studies Include

- Contour or base map
- Geological Summary
- Cross Sections
- Type Logs

Index map, Downdip Tuscaloosa-Woodbine Trend of South Louisiana



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every volume on this disc

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CONTENTS OF DISC 2

- [A Tour Guide To The Building Stones Of New Orleans, by E.S. Slagle, 1982](#)
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- [Exploration And Exploitation Of Coastal Salt Basin Diapiric Structures In The Lower Pliocene Through Eocene Trends, by T.G. Fails et al., 1995](#)
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- [A Tour Of Salt Dome Cap Rock Features, Winnrock Quarry, Winn Parish, Louisiana, J.R. Kyle and M.R. Ulrich, 1993](#)
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- [Field Trip To Jefferson Island Salt Dome, R.W. Boebel et al., 1962](#)
- [Gulf Of Mexico: Processes And Environments Of Deposition, by J.M. Coleman, 1993](#)
- [Coastal Geology Of Mississippi, Alabama And Adjacent Louisiana Areas, by E.G. Otvos, 1982](#)
- [South Louisiana Onshore Petroleum Exploration Symposium \(abstracts and expanded abstracts\), "New Discoveries Point to a Bright Future", D. Goldthwaite and J. G. Bryant, Eds., 2003](#)
- [North/South Dip Section, Jackson County, Mississippi to South Pass Area, Louisiana, by NOGS Study Group, 1978](#)
- [Salt Tectonism of the United States Gulf Coast Basin, Second Edition Map, by J.A. Lopez, 1995](#)



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- [Sedimentary Environments and Hydrocarbons, by R.S. Saxena, ed., 1976](#)
- [Depositional Environments Guidebook, by P.A. Dunn et al., 1968](#)
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Outline

Why strive for a paperless office?

Introduction to the NOGS Publications DVD Sets

Field Study Example

- Techniques for “modernization” of the subsurface data

- Integration / Links to SONRIS public information

- Building a quick GIS basemap

- Downloading Log Images to a project database

- Using publicly available well log data to do subsurface work

Geology of Greater New Orleans

- Overview of Selected Maps

- GIS Integration of some study figures

NOGS CD Availability

OIL AND GAS FIELDS OF SOUTHEAST LOUISIANA

VOLUME 1

H. G. COLLIER, JR. *Committee Chairman*

JULES BRAUNSTEIN *Editor*



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**NEW ORLEANS,
LOUISIANA**

TABLE OF CONTENTS

VOLUME I

COMMITTEE MEMBERS AND AUTHORS OF FIELD PAPERS.....	3
FOREWORD.....	4
CHART SHOWING STRATIGRAPHIC DISTRIBUTION OF PRODUCING SANDS IN FIELDS DESCRIBED.....	5
FAULT MAP OF SOUTHEAST LOUISIANA	6
INDEX MAP SHOWING LOCATION OF FIELDS DESCRIBED	7
LEGEND	8

FIELDS

ALLIANCE.....	9
BAYOU RAMBIO - DELARGE	13
BAYOU SEGNETTE	17
BAYOU SORREL	21
BLACK BAY - WEST BLACK BAY - EAST BLACK BAY	26
BONNET CARRE - FRENIER - LA PLACE	33
BOURG.....	44
CAILLOU ISLAND (EAST)	49
COQUILLE BAY	54
DELACROIX ISLAND	58
EAST LAKE PALOURDE (CENTRAL AND SOUTH FAULT BLOCKS)	62
EAST LAKE VERRET.....	66
FORDOCHE.....	70
GIBSON	75
HALTER ISLAND.....	81
KENT BAYOU - TURTLE BAYOU - NORTH TURTLE BAYOU.....	85
LAKE BOEUF	90
LAKE PELTO	94
LAPEYROUSE	100
LA PICE.....	105
LAROSE	110
LITTLE LAKE.....	116
LIVONIA	120
MELODIA	125
MOSQUITO BAY	129
OAKLEY.....	133
PIERRE PASS.....	138
SATURDAY ISLAND.....	142
ST. GABRIEL	146
STELLA	150
SULLIVAN'S LAKE	154
WESTWEGO - AVONDALE	158

TABLE OF CONTENTS

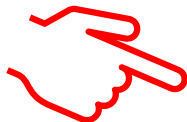
VOLUME I

COMMITTEE MEMBERS AND AUTHORS OF FIELD PAPERS.....	3
FOREWORD.....	4
CHART SHOWING STRATIGRAPHIC DISTRIBUTION OF PRODUCING SANDS IN FIELDS DESCRIBED.....	5
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ALLIANCE.....	9
BAYOU RAMBIO - DELARGE	13
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BAYOU SORREL	21
BLACK BAY - WEST BLACK BAY - EAST BLACK BAY	26
BONNET CARRE - FRENIER - LA PLACE	33
BOURG.....	44
CAILLOU ISLAND (EAST)	49
COQUILLE BAY	54
DELACROIX ISLAND	58
EAST LAKE PALOURDE (CENTRAL AND SOUTH FAULT BLOCKS)	62
EAST LAKE VERRET.....	66
FORDOCHE.....	70
GIBSON	75
HALTER ISLAND.....	81
KENT BAYOU - TURTLE BAYOU - NORTH TURTLE BAYOU.....	85
LAKE BOEUF	90
LAKE PELTO	94
LAPEYROUSE	100
LA PICE.....	105
LAROSE	110
LITTLE LAKE.....	116
LIVONIA	120
MELODIA	125
MOSQUITO BAY	129
OAKLEY.....	133
PIERRE PASS.....	138
SATURDAY ISLAND.....	142
ST. GABRIEL	146
STELLA	150
SULLIVAN'S LAKE	154
WESTWEGO - AVONDALE	158

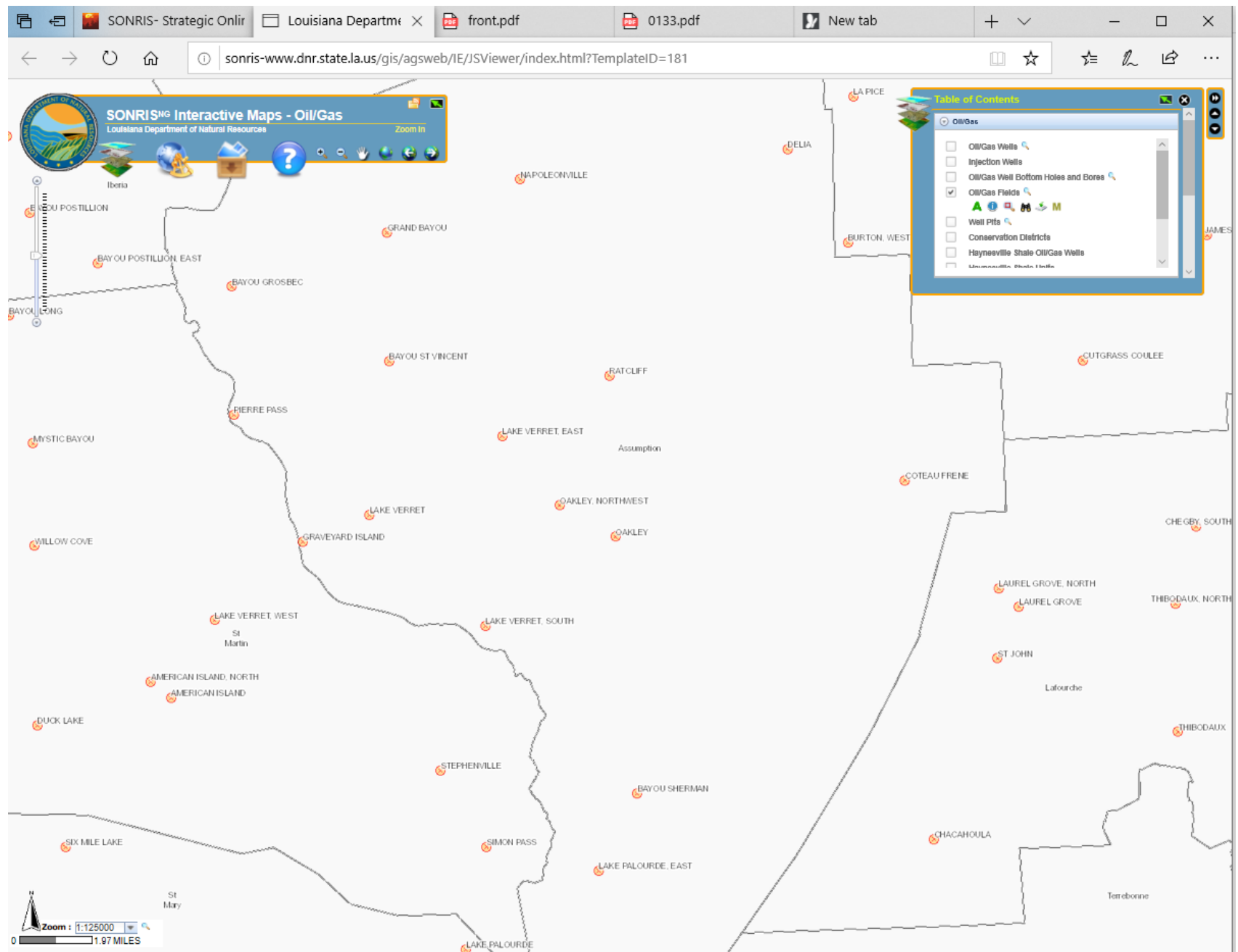
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At random
As an example



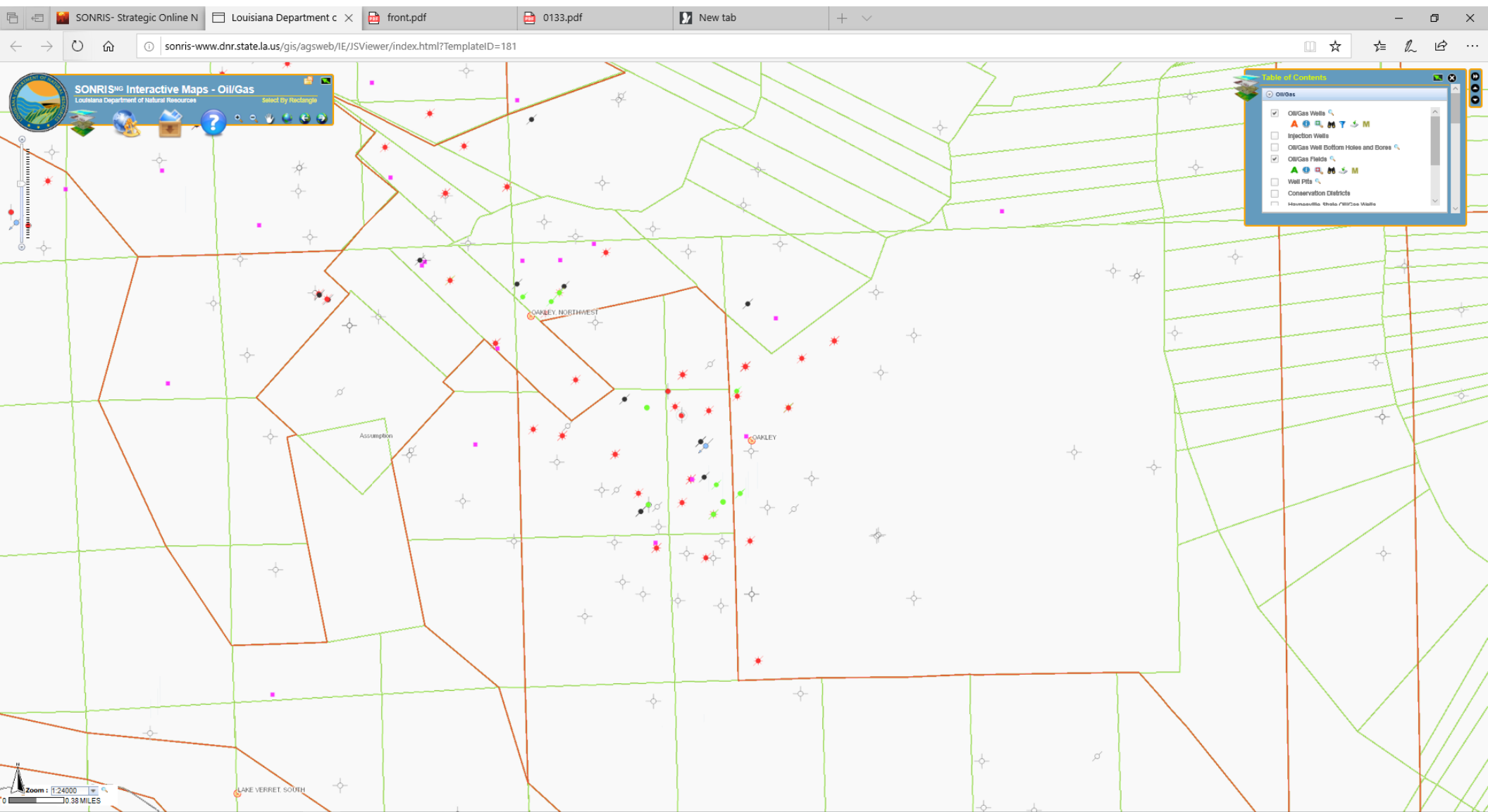
The next 20 slides involve workflow procedures which I will move through quickly.....



SONRIS GIS Interface



SONRIS GIS Map With Wells



Typical of most NOGS Field Study Information Summaries

OAKLEY FIELD

ASSUMPTION PARISH, LOUISIANA

C. T. (TOM) HIGGINS, PAN-AMERICAN PETROLEUM CORP.

LOCATION: T 14 S, R 14 E, Assumption Parish, Louisiana, 20 miles northwest of Thibodaux city limits.

DISCOVERY WELL: Hassie Hunt Trust, No. 1 W. E. Kittridge.

Completion Date: March 10, 1955. I.P. 100 BOPD + 3000 MCFG per day; 10/64" ch;
T.P. 3,600 psi, GOR. 30,000/1; GR. 58.2" A.F.I.

TOTAL WELLS (April 1, 1965): 27 Oil 4 Gas 11 Dry 12

DEEPEST WELL: Texas Crude & Union Texas No. 1 Kittridge T.D. 16,100 feet.

Oldest Zone Penetrated: *Planulina palmerae* (Lower Miocene)

PRODUCTIVE INTERVAL: 8,800 feet to 14,200 feet.

Gibicides opima (Middle Miocene) to *Siphonina davisii* (Lower Miocene)

NUMBER OF PRODUCTIVE ZONES: 16

PRINCIPAL OPERATORS: Texas Crude, Humble Oil & Refining Co.

MARKET OUTLET: Sugar Bowl Gas Company.

PRODUCTION:	YEAR	OIL AND CONDENSATE	GAS (MMCFG)
	1960	115,850	3,554
	1961	190,425	6,537
	1962	214,600	6,784
	1963	246,200	6,968
	1964	237,725	6,029
	Cumulative	1,100,525	30,541

ESTIMATED ULTIMATE RESERVES: 5,011,200 BBLs. 190,928

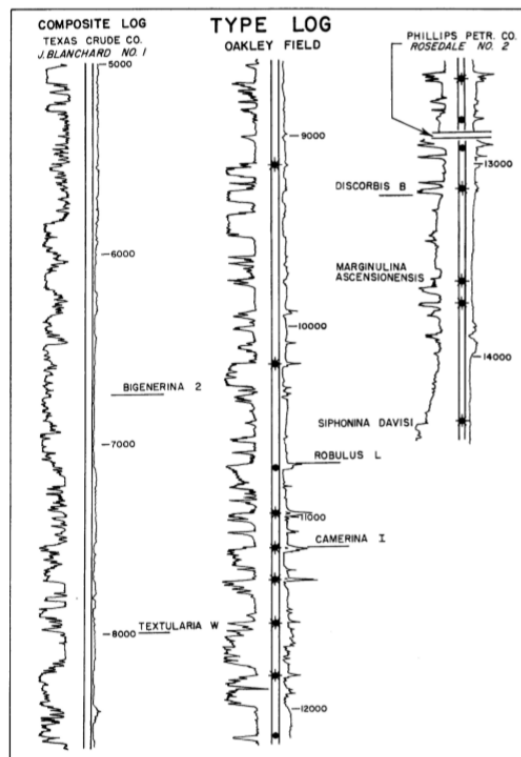
GEOLOGY

Although Oakley Field was discovered in 1955, development drilling was not begun until 1958. It is still in progress. Most of the production is gas.

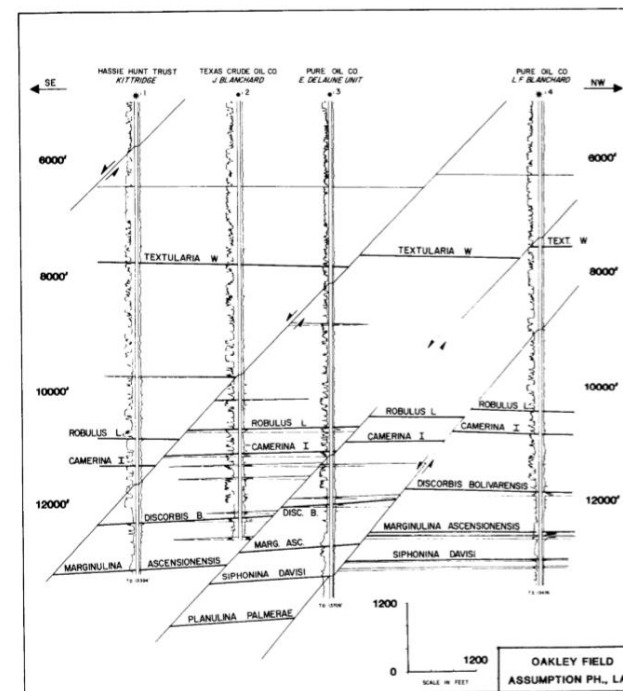
The field is in a trend of Middle and Lower Miocene sands. Accumulations apparently being controlled by faults, most of the production is from sands in the *Discorbis* (B) portion of the section. The average net thickness of these sands is 50 feet.

The oldest fault system is of *Siphonina davisii* age, and is in the northern part of the field. Fault systems in the southern part of the field had no effect on sedimentation.

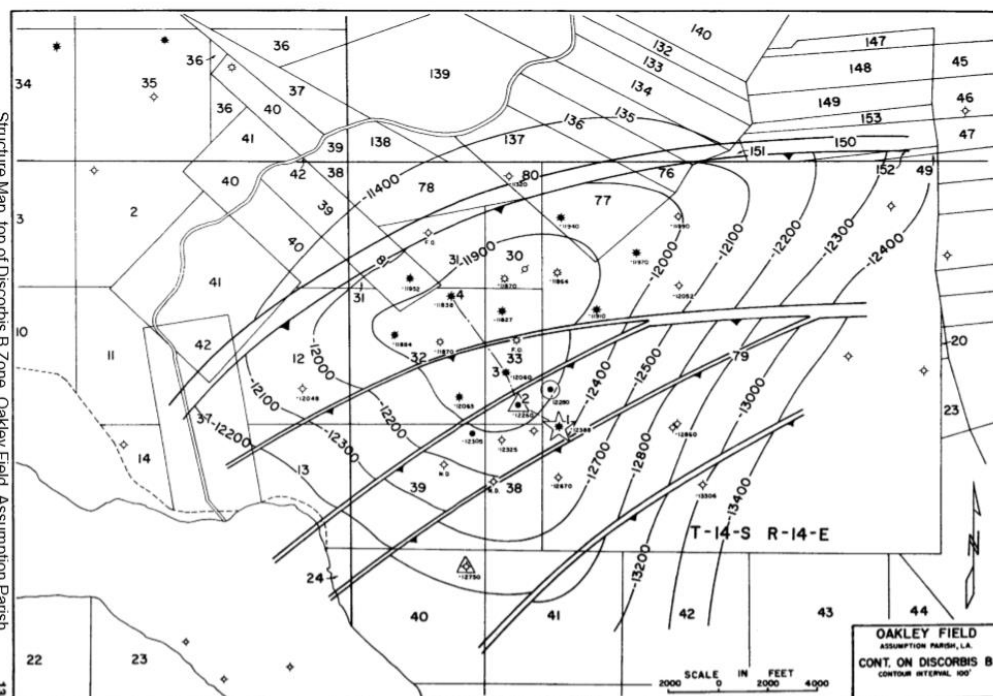
Oakley Field is a faulted asymmetrical anticline, whose east, west, and south flanks are clearly defined by well control. The north dip is into a depositional fault having a throw of 150 to 200 feet, down to the south. The north dip persists in the upthrown northerly block.



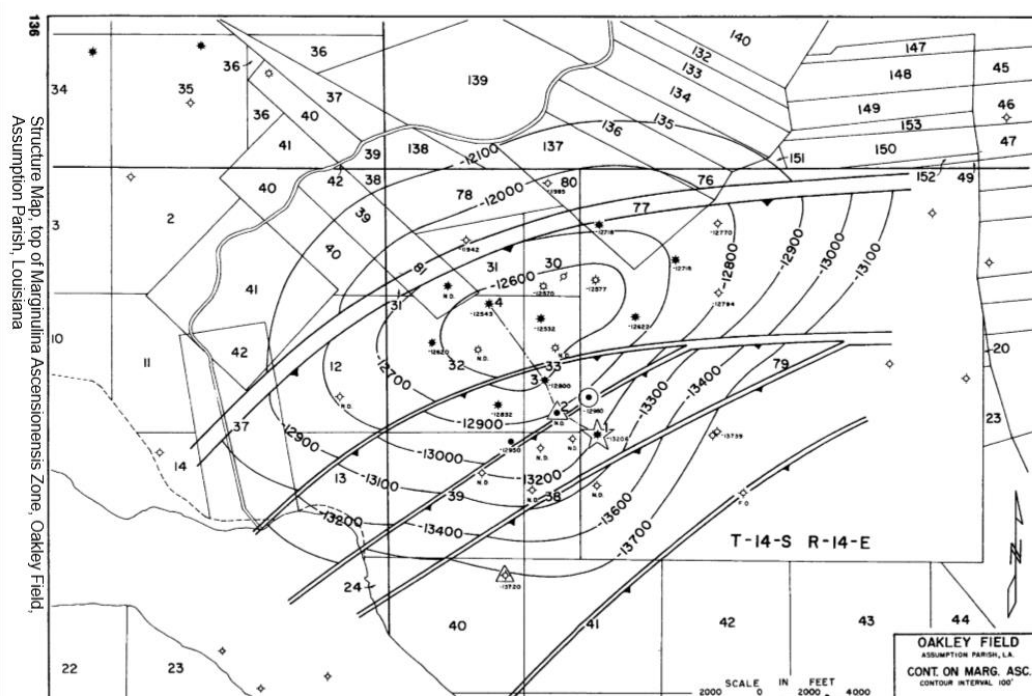
134 Composite type log, Oakley Field, Assumption Parish, Louisiana



Southeast-northwest cross section, Oakley Field, Assumption Parish, Louisiana

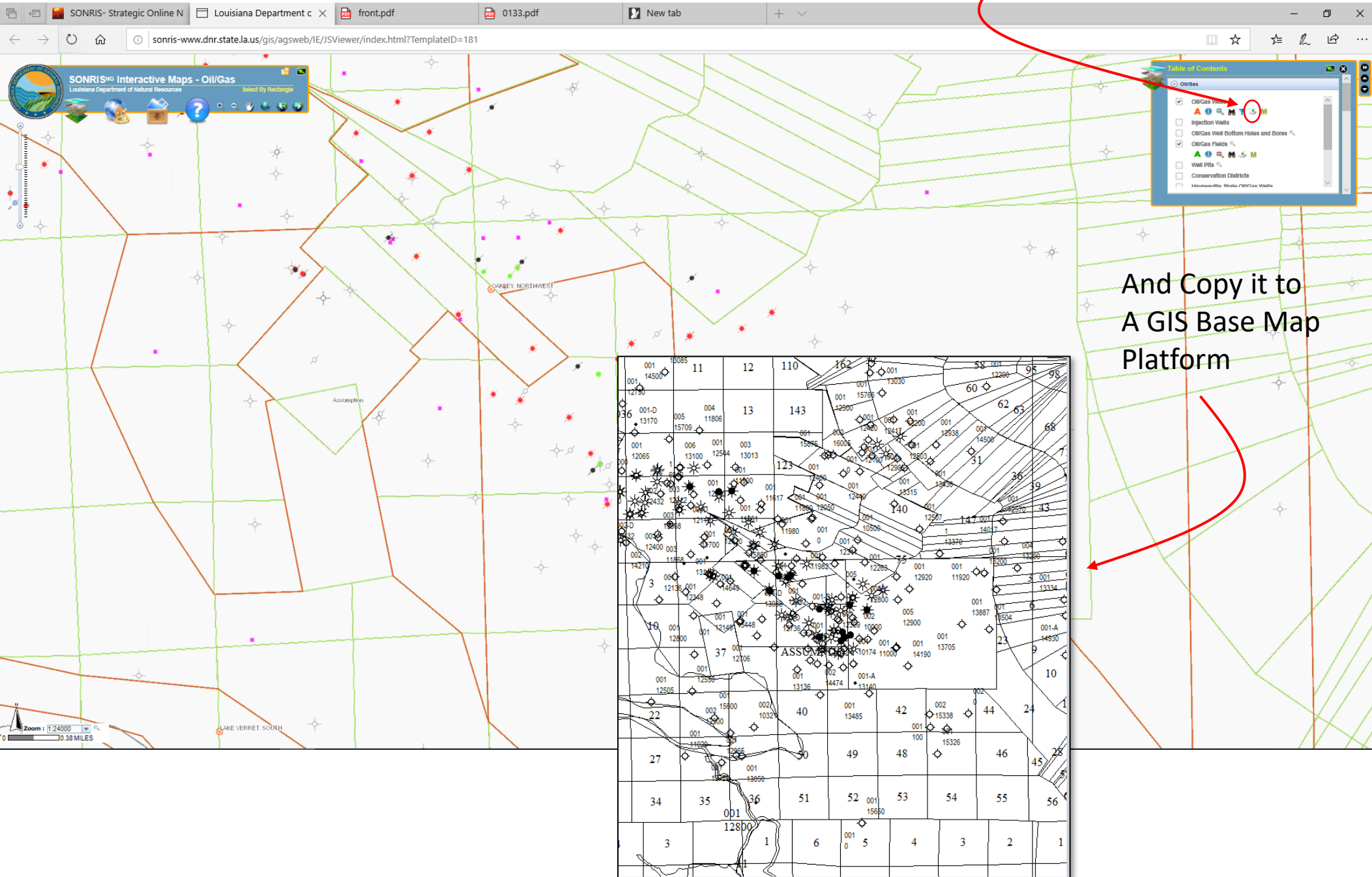


OAKLEY FIELD
ASSUMPTION PARISH, LA.
CONT. ON DISCORBIS B
CONTOUR INTERVAL, 100'



OAKLEY FIELD
ASSUMPTION PARISH, LA.
CONT. ON MARG. ASC.
CONTOUR INTERVAL, 100'

Extract the well data feature,
culture, etc. whatever you will need...



Global Mapper Georeferencing Process.....very easy to do.

Image Rectifier [Automatic] (Oakley Marg A.jpg)

File Options

Entire Image

Zoomed View (Click for Pixel Coordinates)

Reference Images (Load into Main View First)

Ground Control Point (GCP) Entry

Pixel X: X/Easting/Lon: Add Point to List

Pixel Y: Y/Northing/Lat: Update Selected Point

Ground Control Points (Double-click to Center on Control Point)

Point Name	Pixel X	Pixel Y	Projected X	Projected Y	Longitude	Latitude
Error						

Ground Control Point (GCP) Projection

Geographic (Latitude/Longitude) / WGS84 / arc degrees

Select Projection ...

OK Apply Cancel Help

Delete Shift All...

Reference Point Selections.....

Image Rectifier [Automatic] (Oakley Marg A.jpg)

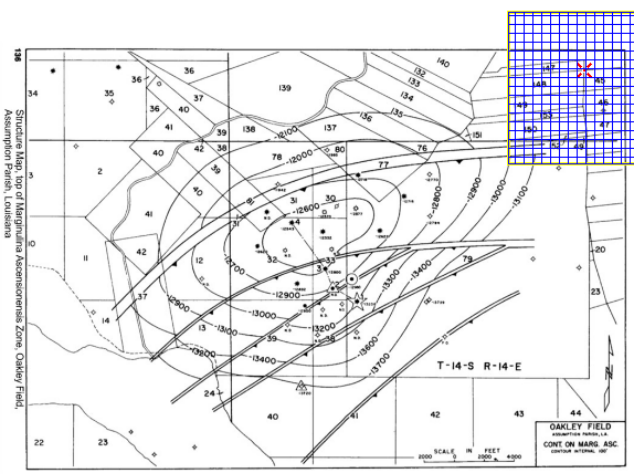
File Options

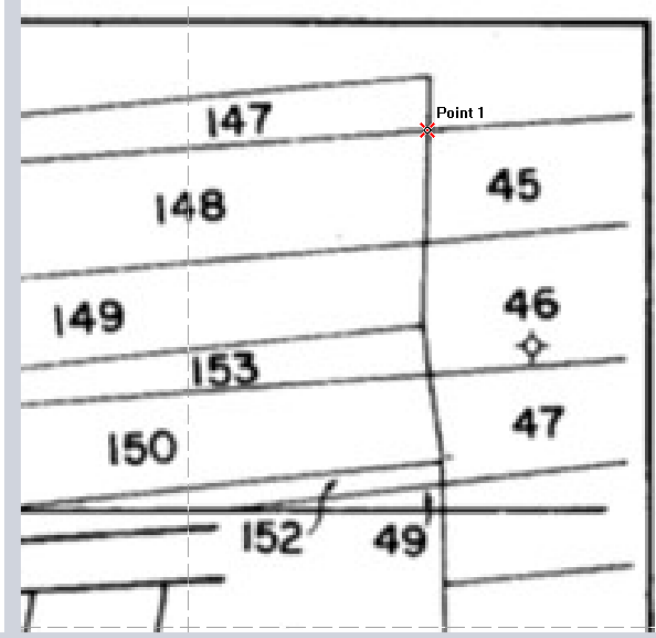
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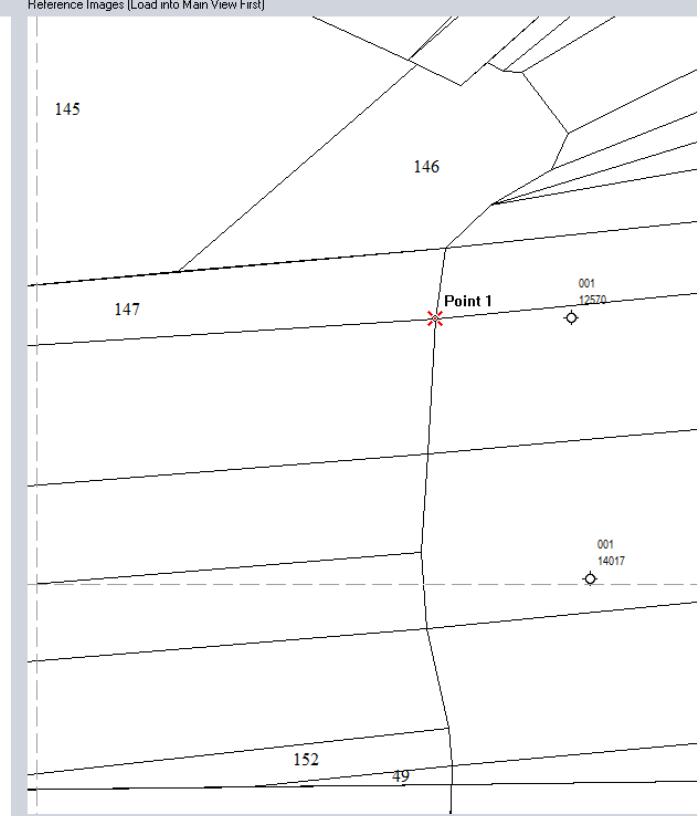
Zoomed View (Click for Pixel Coordinates)

Reference Images (Load into Main View First)

Structure Map, Top of Mangrove Accretion Zone, Oakley Field, Alameda County, California







Ground Control Point (GCP) Entry

Pixel X 974.712860288 X/Easting/Lon -91.01351761 Add Point to List

Pixel Y 95.8805471407 Y/Northing/Lat 29.90327859 Update Selected Point

Ground Control Point (GCP) Projection

Geographic (Latitude/Longitude) / WGS84 / arc degrees

Select Projection ...

Ground Control Points (Double-click to Center on Control Point)

Point Name	Pixel X	Pixel Y	Projected X	Projected Y	Longitude	Latitude	Error
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Delete

Shift All...

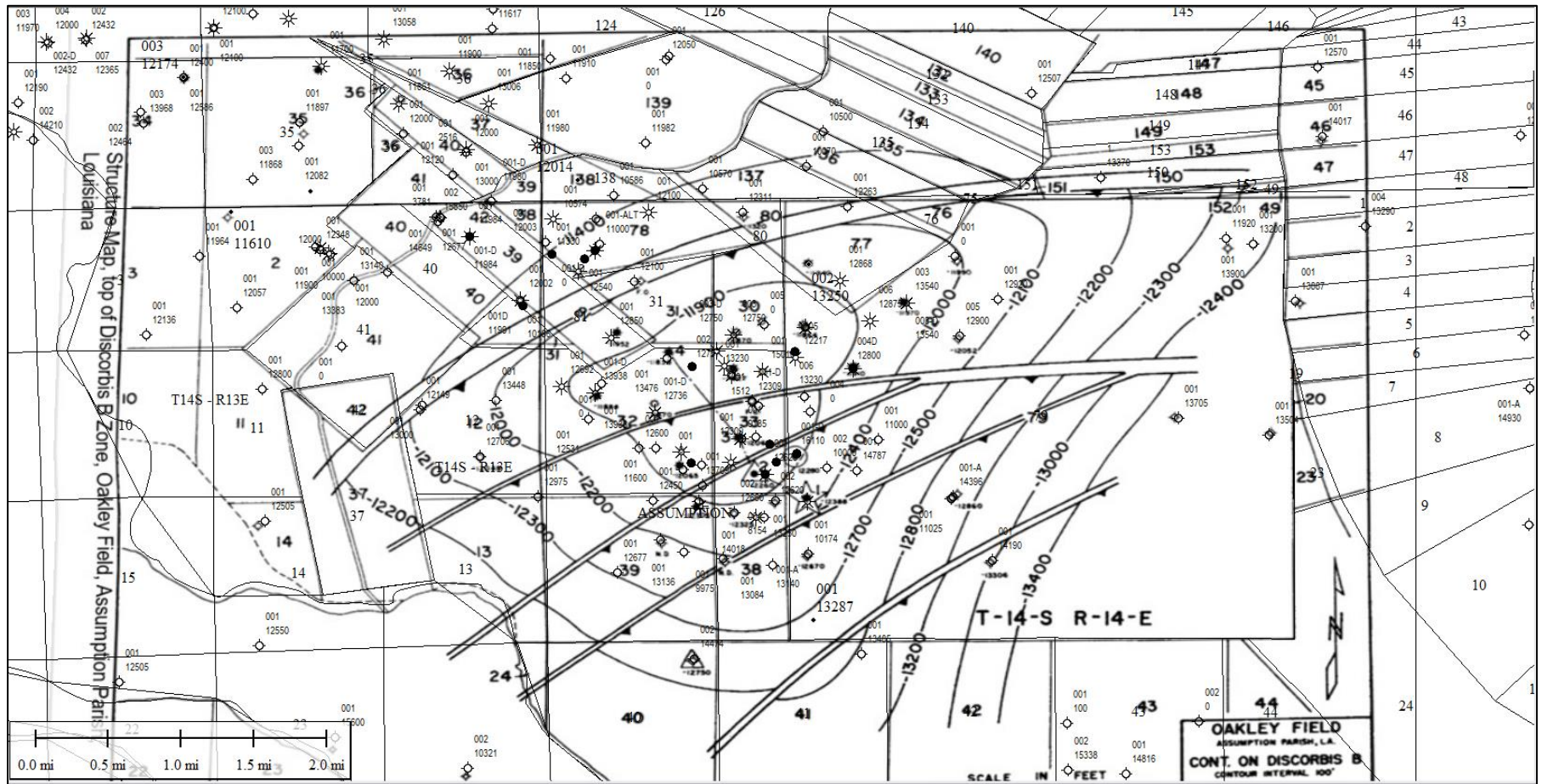
OK

Apply

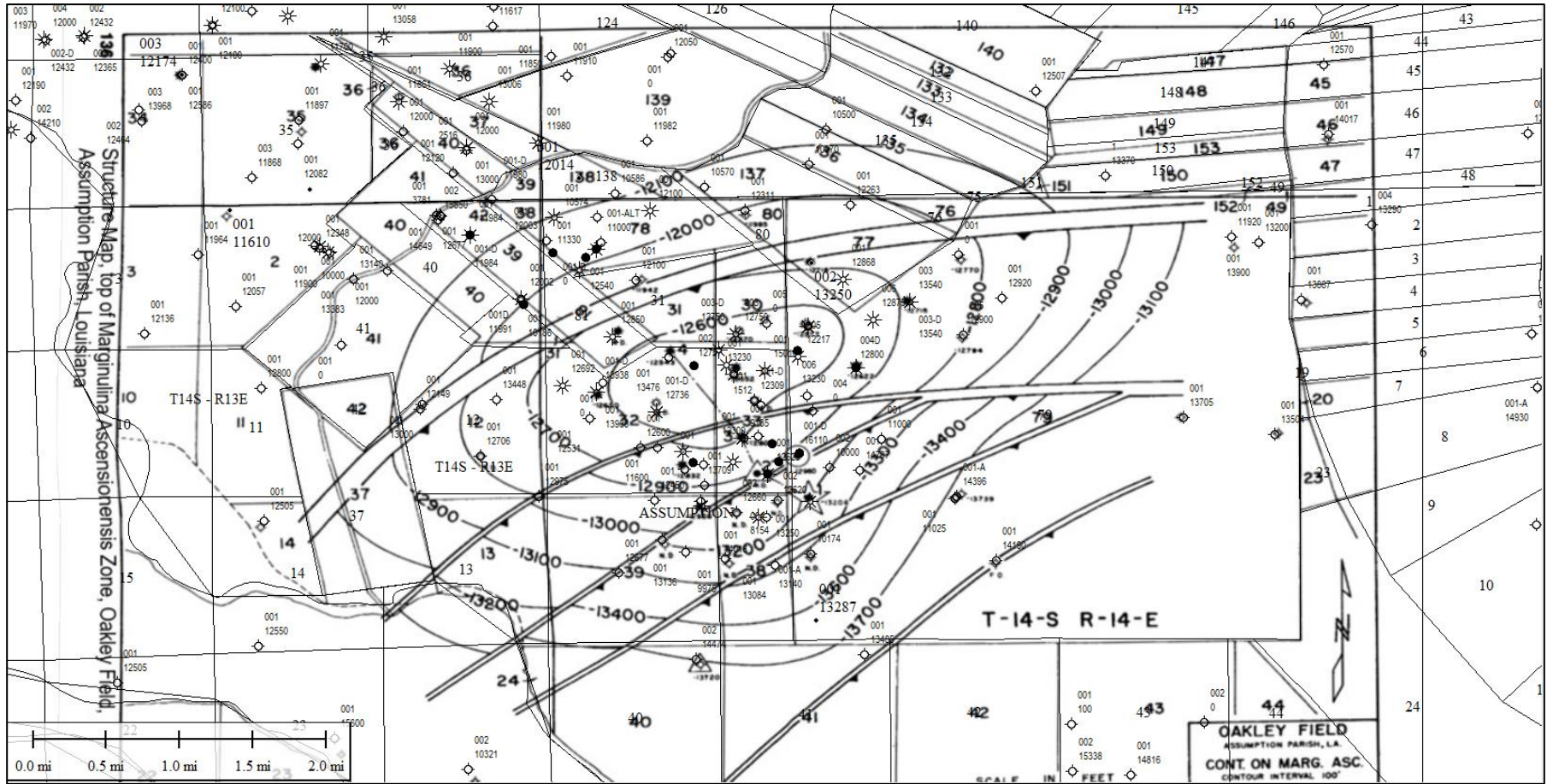
Cancel

Help

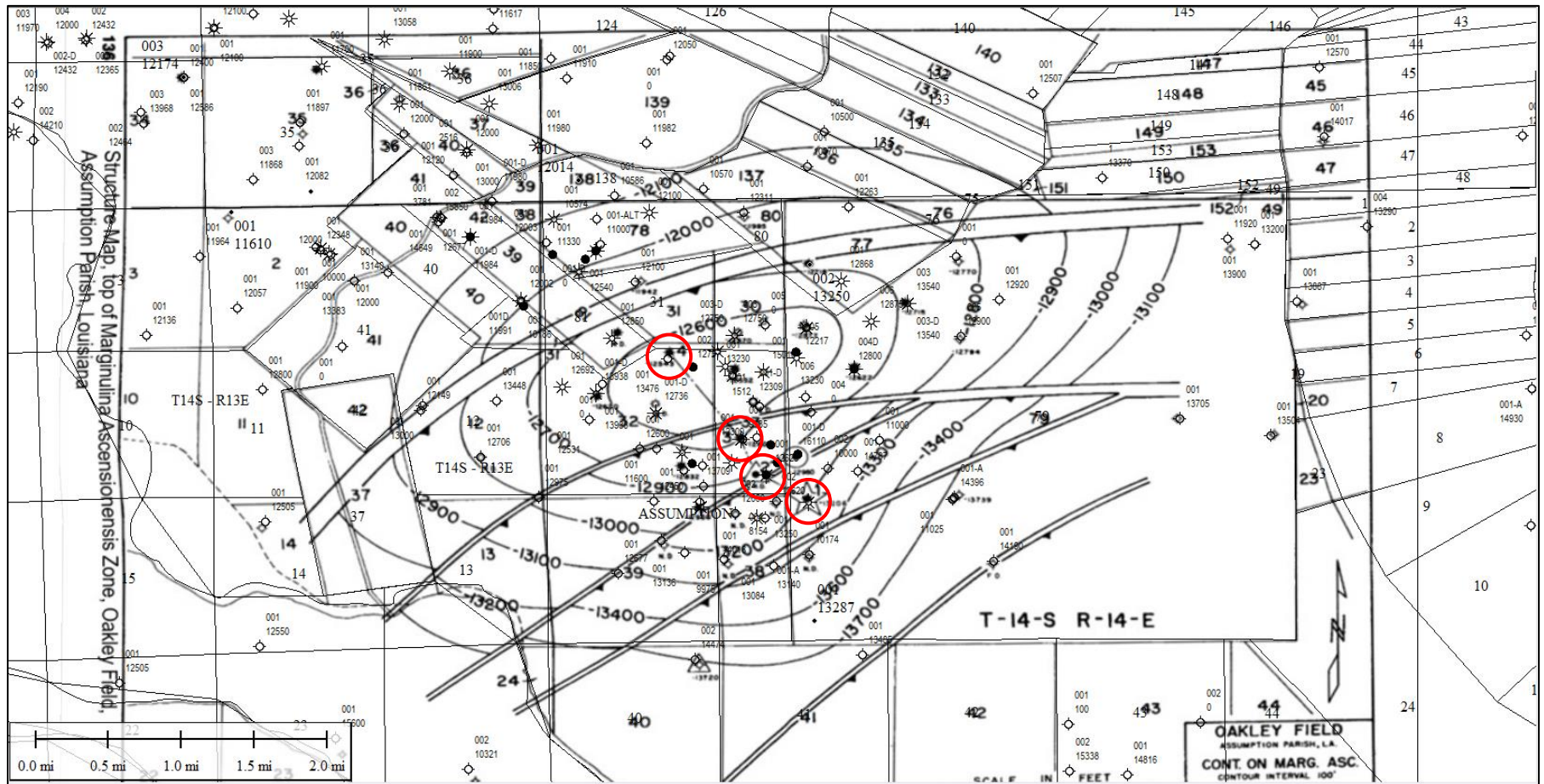
Geo-referenced Discorbis B



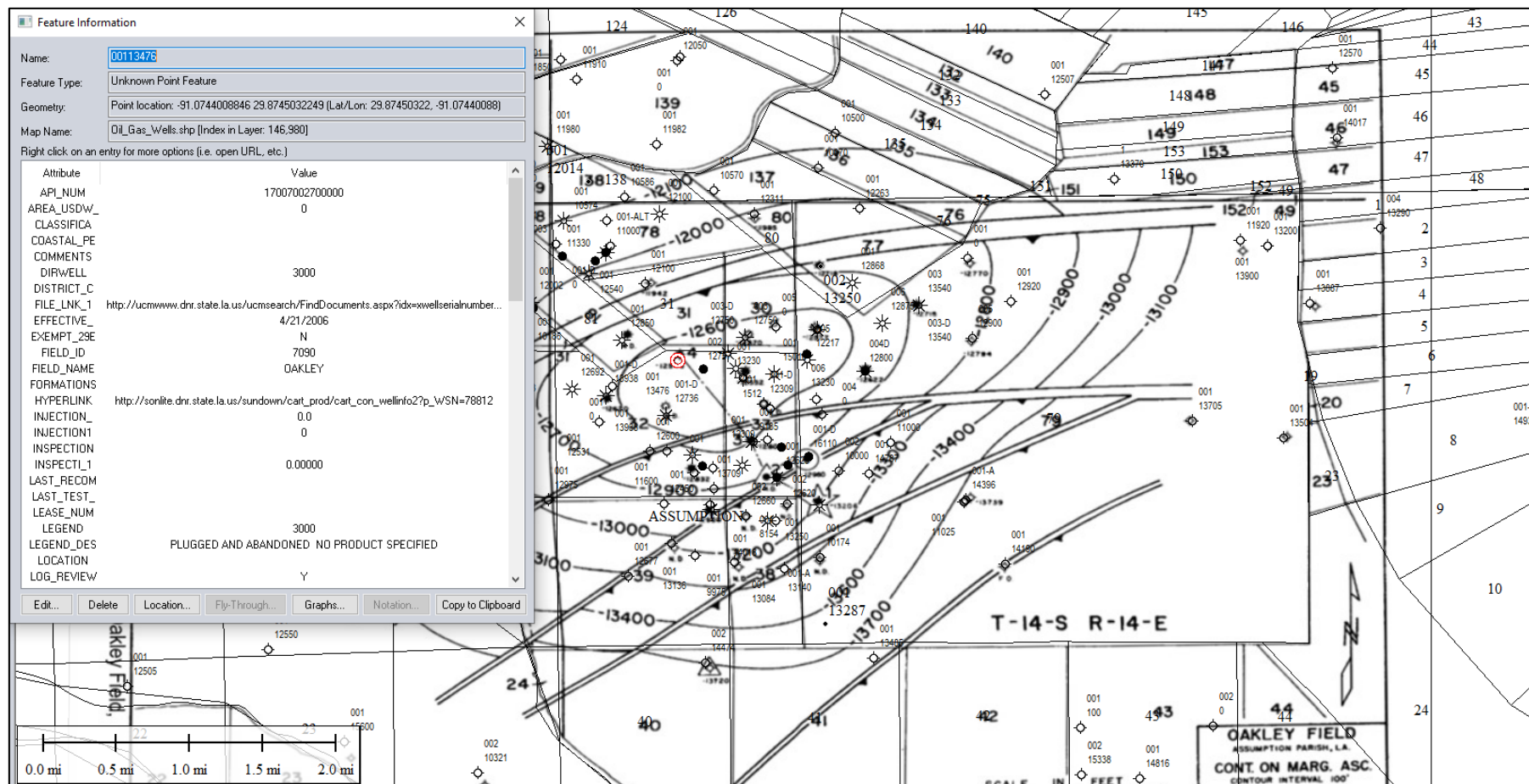
Geo-referenced Marg A



Identify Wells in the Cross Section Display



From the GIS Base Map – SONRIS data are easily retrieved



SONRIS Well File Interface

SONRIS- Strategic Online N

Louisiana Department of N

front.pdf

0133.pdf

New tab

Wells

sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=78812

Well Information

Review Well Information

WELLS

SERIAL	WELL NAME	WELL NUM	ORG ID	FIELD	PARISH	PROD TYPE	SEC	TWN	RGE	EFFECTIVE DATE	API NUM
78812	L F BLANCHARD	001	C290	7090	04	90	032	145	14E	04/21/2006	17007002700000

PRINT DATE

SRUD DATE

STAT DATE

ST CD

03/11/1960

09/06/1960

04/21/2006

30

WELL SURFACE COORDINATES

Surface Longitude	Surface Latitude	Lambert X	Lambert Y	Ground Elevation	Zone	Datum
91-4-27.48	29-52-27.48	2082097	439241	0	5	NAD-27

WELL SURFACE COORDINATES GENERATED BY DNR

UTM X 83	UTM Y 83	LONGITUDE 83	LATITUDE 83
665970.57834216	3306436.39191064	-91.07440667	29.87450859

View GIS

BOTTOM HOLE COORD

EFFECTIVE DATE	END DATE	PLUGBACK TOTAL DEPTH	TRUE VERTICAL DEPTH	MEASURED DEPTH	LAT DEG	LAT MIN	LAT SEC	LONG DEG	LONG MIN	LONG SEC	COORDINATE SOURCE	LAMBERT X	LAMBERT Y	ZONE	COORDINATE SYSTEM
07/01/1977	01/01/1983	12953		13476							03	2082113	439184	5	01
01/01/1973	07/01/1977	0		0							03	0	0		01

WELL HISTORY

SERIAL	WELL NAME	WELL NUM	ORG ID	FIELD	ST CD	PT	WELL CLASS	EFF DATE	END DATE	STAT DATE
78812	L F BLANCHARD	001	C290	7090	30	00		04/21/2006		04/21/2006
78812	L F BLANCHARD	001	C290	7090	20	20		06/26/2002	04/20/2006	11/28/1984
78812	L F BLANCHARD	001	C259	7090	20	20		07/01/2000	06/25/2002	11/28/1984
78812	L F BLANCHARD	001	2772	7090	20	20		01/01/1997	06/30/2000	11/28/1984
78812	L F BLANCHARD	001	C087	7090	20	20		09/01/1992	01/01/1997	11/28/1984
78812	L F BLANCHARD	001	U011	7090	33	20		05/01/1992	09/01/1992	11/28/1984
78812	L F BLANCHARD	001	U006	7090	33	20		08/01/1990	05/01/1992	11/28/1984
78812	L F BLANCHARD	001	6134	7090	33	20		05/01/1988	08/01/1990	11/28/1984
78812	L F BLANCHARD	001	6134	7090	33	20		10/01/1986	05/01/1988	11/28/1984
78812	SD II RA SUA; L F BLANCHARD	001	6134	7090	33	20		01/01/1986	10/01/1986	11/28/1984
78812	SD II RA SUA; L F BLANCHARD	001	6134	7090	33	20		11/01/1984	01/01/1986	11/28/1984
78812	SD II RA SUA; L F BLANCHARD	001	6134	7090	10	20		01/01/1983	11/01/1984	02/08/1961
78812	SD II RA SUA; L F BLANCHARD	001	6134	7090	10	20		07/01/1977	01/01/1983	02/08/1961
78812	SD II RA SUA; L F BLANCHARD	001	6134	7090	10	20		01/01/1973	07/01/1977	01/01/1973

SCOUT INFO

REPORT DATE	WELL STATUS	MEASURED DEPTH	TRUE VERT DEPTH	DETAIL
02/08/1961		13145	13168	SD 2 RA

PERFORATIONS

SERIAL NUM	COMPLETION DATE	UPPER PERF	LOWER PERF	SANDS	RESERVOIR
78812	02/08/1961	13145	13168		SD 2 RA

WELL TESTS

RPT TYP	TEST DATE	RPT DATE	OIL POT	COND	GAS DEL	WATER	BSW%	FLOW PRES	SHUTIN PRES	CHOKE	UPPER PERF	LOWER PERF	BOT HOLE PRES
DT-1	11/28/1984	03/01/1985	0	0	0	0	0	0	0		13145	13168	0
DT-1	11/01/1984	12/01/1984	0	10	90		810	1000		48	13145	13168	0
DT-1	08/01/1984	09/01/1984	0	22	238		850	1000		48	13145	13168	0
DT-1	05/01/1984	06/01/1984	1	100	260		240	1000		48	13145	13168	0
DT-1	02/01/1984	03/01/1984	1	120	259		240	2100		48	13145	13168	0
DT-1	11/01/1983	12/01/1983	3	200	550		880	1100		48	13145	13168	0
DT-1	08/01/1983	09/01/1983	4	500	550		900	2000		48	13145	13168	0
DT-1	05/01/1983	06/01/1983	3	600	546		900	2000		48	13145	13168	0
DT-1	02/01/1983	03/01/1983	3	400	565		1000	1200		48	13145	13168	0
DT-1	11/06/1982	12/01/1982	4	475	550		1000	1975		48	13145	13168	0
DT-1	08/01/1982	09/01/1982	5	800	551		1000	1150		48	13145	13168	0
DT-1	05/01/1982	06/01/1982	5	1000	530		1000	1150		48	13145	13168	0
DT-1	02/01/1982	03/01/1982	5	620	530		1000	1250		48	13145	13168	0
DT-1	11/01/1981	12/01/1981	6	710	682		1000	1300		48	13145	13168	0
DT-1	08/01/1981	09/01/1981	7	900	698		825	900		48	13145	13168	0
DT-1	05/01/1981	06/01/1981	5	900	695		1000	1200		48	13145	13168	0
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DT-1	11/04/1980	12/01/1980	10	1225	745		1000	1300		48	13145	13168	0
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DT-1	11/01/1979	12/01/1979	21	1500	756		1000	2800		48	13145	13168	0
DT-1	08/01/1979	09/01/1979	30	1600	0		1000	3100		48	13145	13168	0
DT-1	05/01/1979	06/01/1979	25	1776	1945		950	2500		48	13145	13168	0
DT-1	02/04/1979	03/01/1979	20	2000	976		1050	3400		48	13145	13168	0

WELL ALLOWABLES

EFFECTIVE DATE	END DATE	LUW CODE	LUW TYPE CODE	ALLOWABLE	ESTIMATED POTENTIAL	CURRENT ALLOWABLE TYPE
09/21/1992	09/30/1992	078812	3	0		3
10/01/1985	12/31/1985	600832	2	0		3
04/01/1985	06/30/1985	600832	2	0		3
10/01/1984	12/31/1984	600832	2	50		3

From here, you can review DNR well history Data such as production volumes, LUW, etc.

These data can also be copied into spreadsheet to Make production plots, etc.

SONRIS Well Documents Interface

SONRIS- Strategic Online N Louisiana Department of Natural Resources front.pdf 0133.pdf New tab Search Results

https://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=78812

Department of Natural Resources
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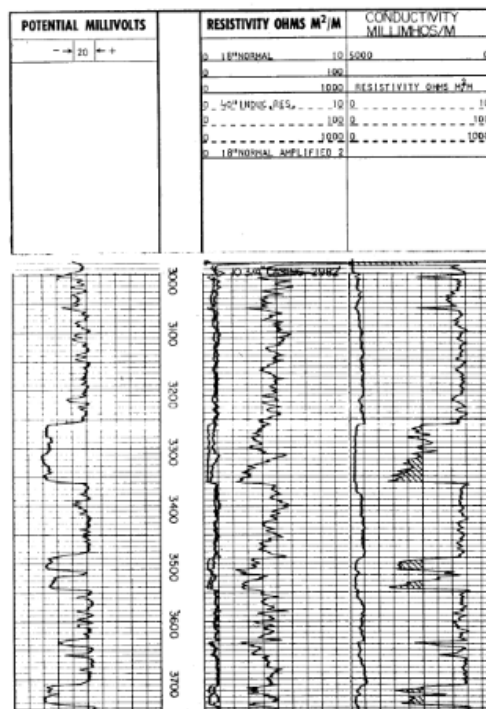
Page 1 of 1. Search returned 10 documents.

Row	Alt View	Info	Document	Description	FieldCode	OperatorCode	Pages	Well SerialNumber	Year	CreateDate	ContentID	Date	DocumentType
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2	IE	1	39				39	78812	0	9/1/2010 1:58 AM	3439642	3/11/1960 6:00 AM	WELL FILE HISTORIC
3	IE	1	1				1	78812	0	9/21/2009 10:12 AM	1742669	6/26/2002 5:00 AM	WELL PERMIT TO DRILL/AMEND
4	IE	1	5				5	78812	0	9/21/2009 10:12 AM	1742662	6/26/2002 5:00 AM	WELL PERMIT TO DRILL/AMEND
5	IE	1	1				1	78812	0	10/5/2009 6:44 PM	2328521	4/11/2006 5:00 AM	WELL WORK PERMIT/WEEKLY PROGRESS REPORT/SCOUT TICK
6	IE	1	4				4	78812	0	10/3/2009 11:26 AM	2266064	4/11/2006 5:00 AM	WELL PERMIT TO DRILL/AMEND
7	IE	1	1				1	78812	0	9/21/2009 2:33 PM	789262	8/21/2008 5:00 AM	WELL ENGINEERING/MECHANICAL
8	IE	1	2		7090	C290	2	78812	0	9/22/2009 7:07 PM	914185	7/5/2007 5:00 AM	LEASE FACILITY INSPECTION REPORT
9	IE	1	1	INDUCTION ELECTRIC			1	78812	0	7/29/2009 7:42 AM	052566		WELL LOG
10	IE	1	1	INDUCTION ELECTRIC			1	78812	0	7/29/2009 7:42 AM	052578		WELL LOG

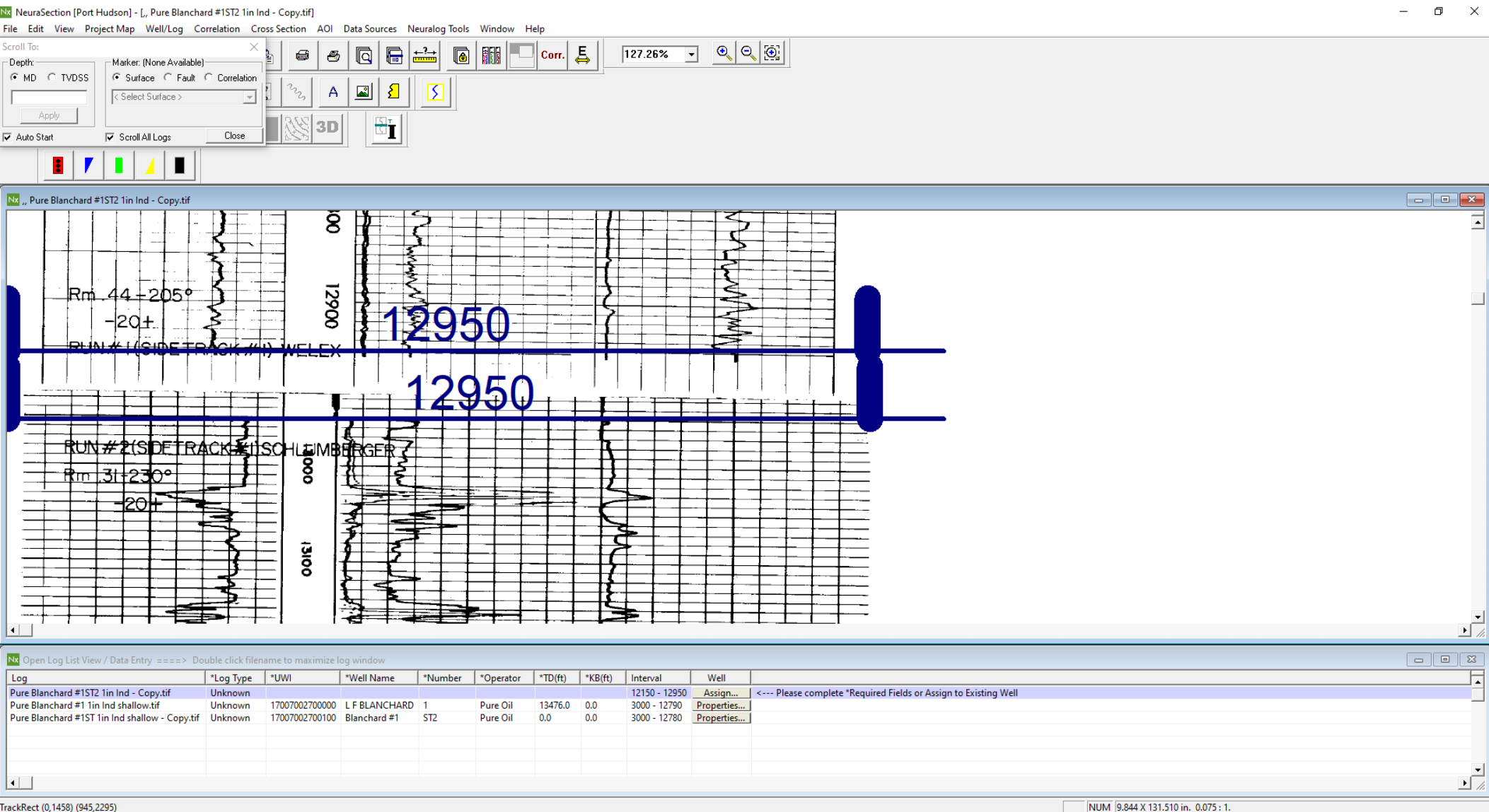
This is the point where you can check out the well file information.....
Directional or not, location plat, completion zones, etc.

[illegible]

It is from this file location that you will put it into the cross section program.



Depth Registering of Log Images in NeuraSection.....very easy and useful



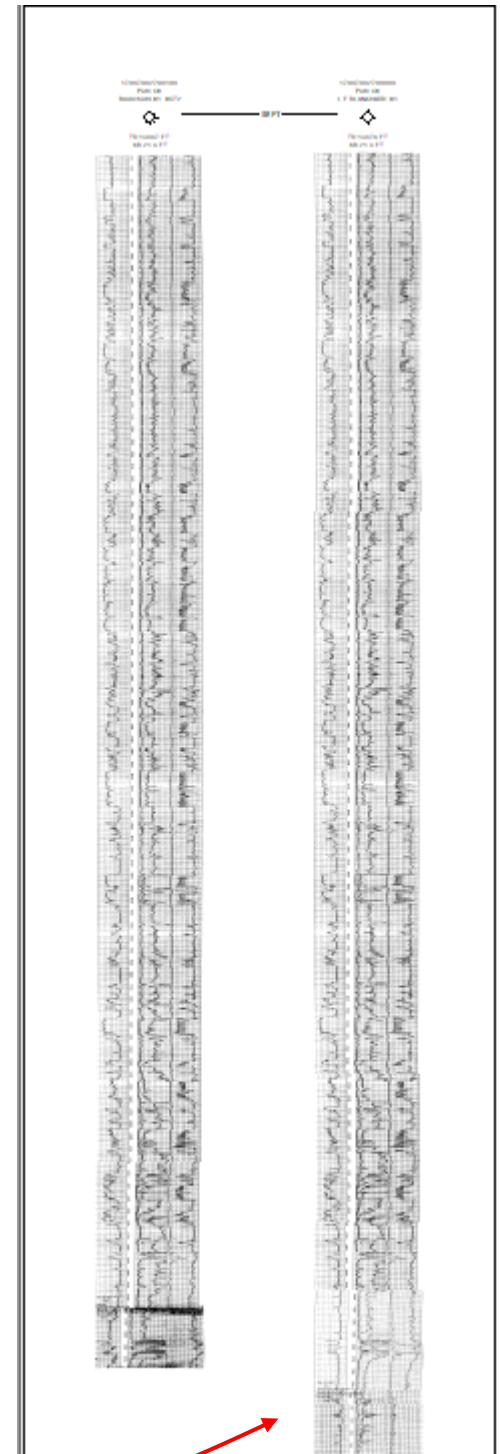
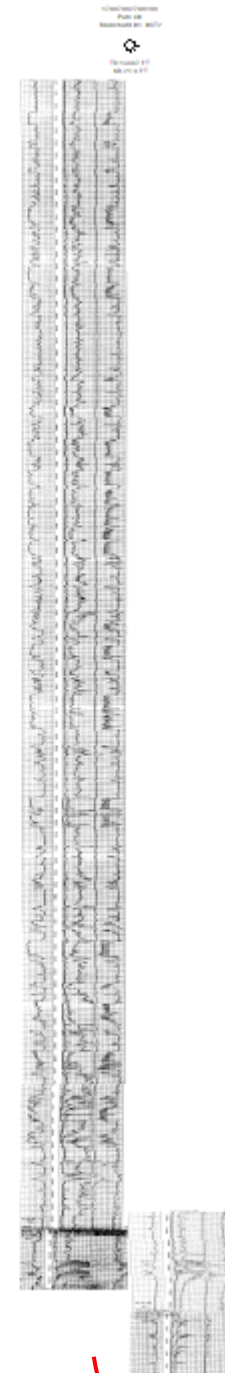
Working with ST holes requires additional care.....

One issue is that the State of LA assigns same API to The original and sidetracked holes, so it is necessary To create a new borehole, and name the well similar to BOEM's API criteria with a new API # and same SHL, but with directional control to define the BHL.

OH



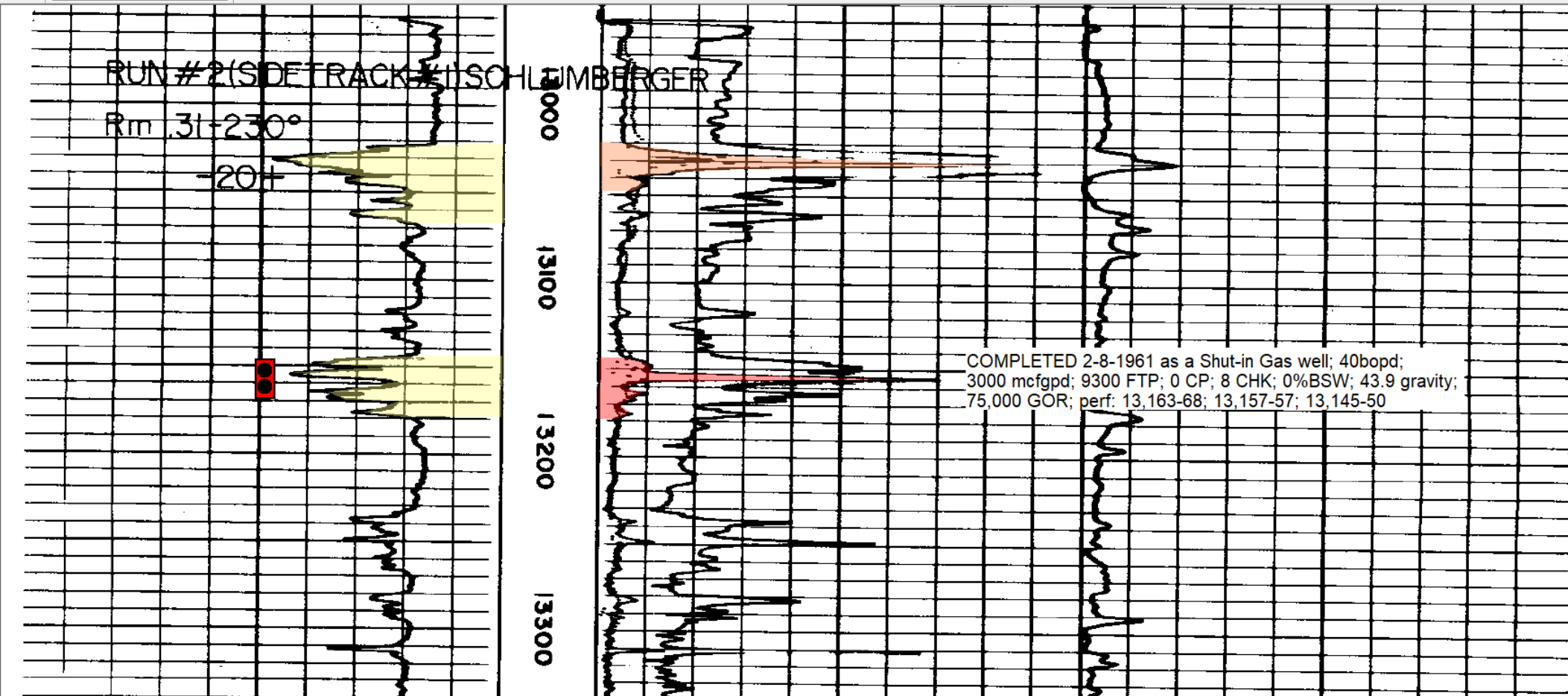
STH



Well Log Detail - NeuraSection

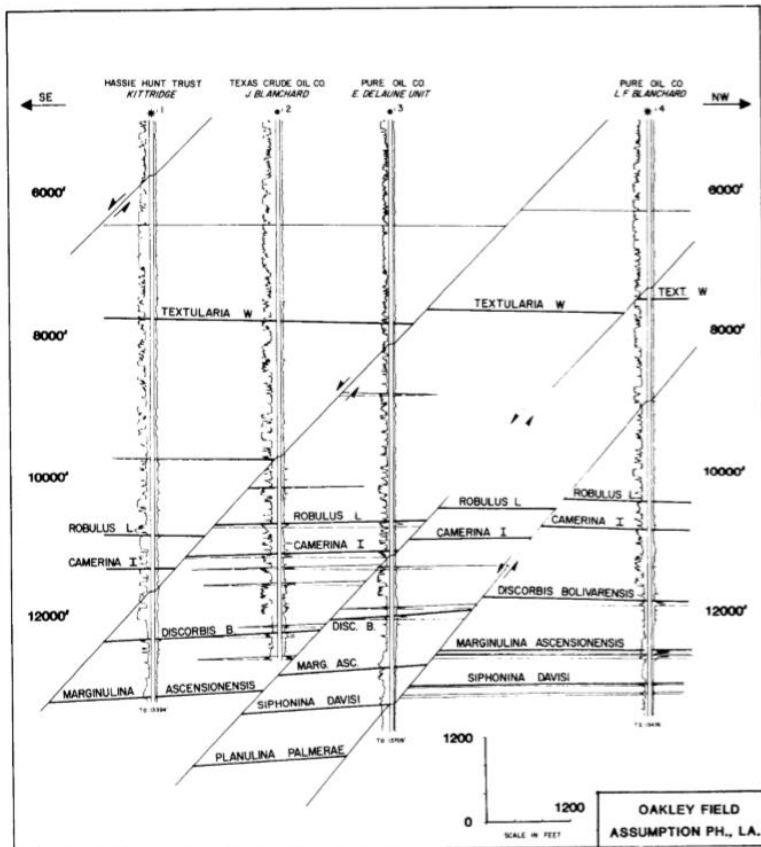
NeuraSection [Port Hudson] - [17007002700100,Blanchard #1 #ST2,Pure Oil, Pure Blanchard #1ST2 1in Ind - Copy.tif]

File Edit View Project Map Well/Log Correlation Cross Section AOI Data Sources Neuralog Tools Window Help

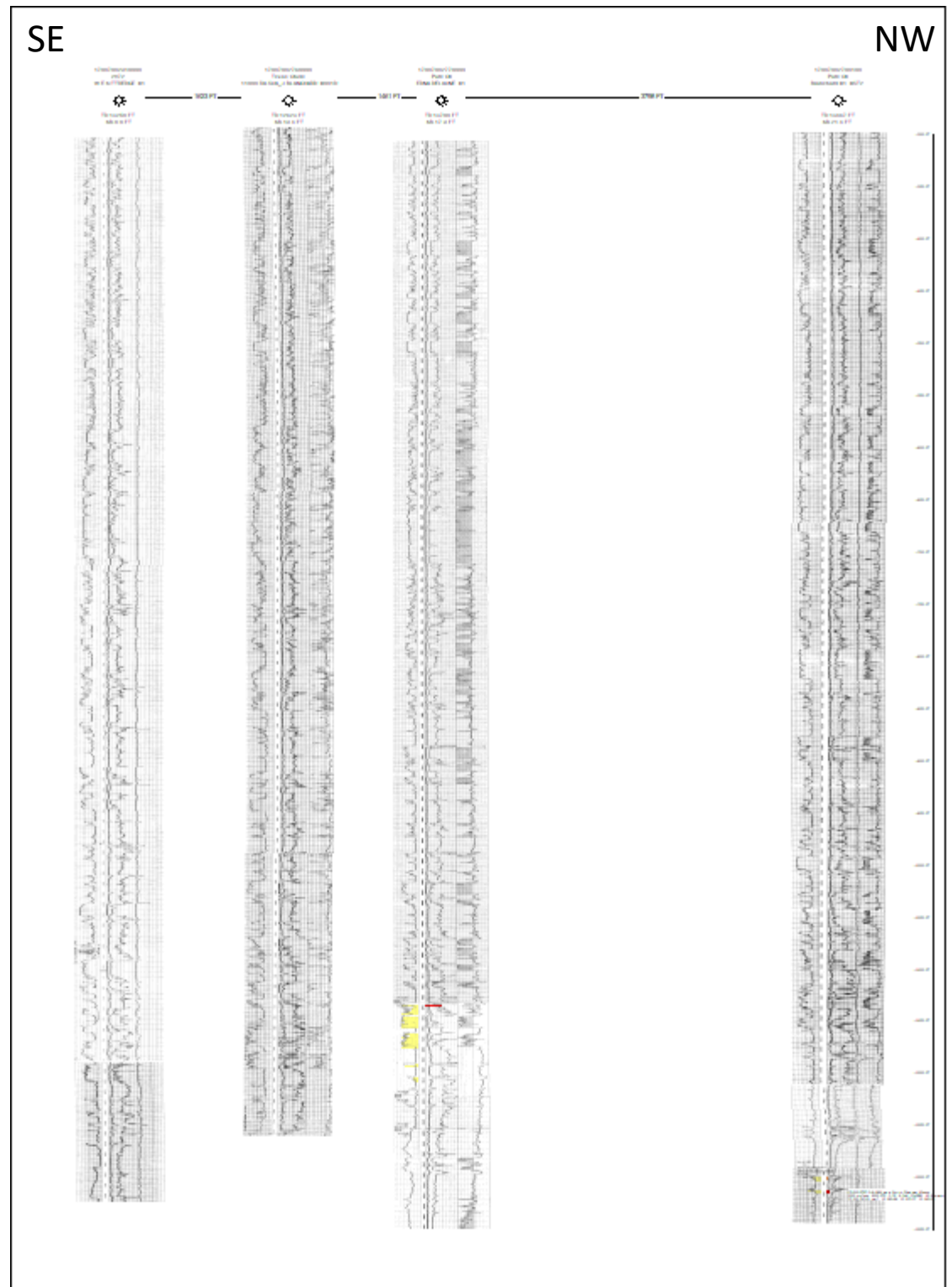


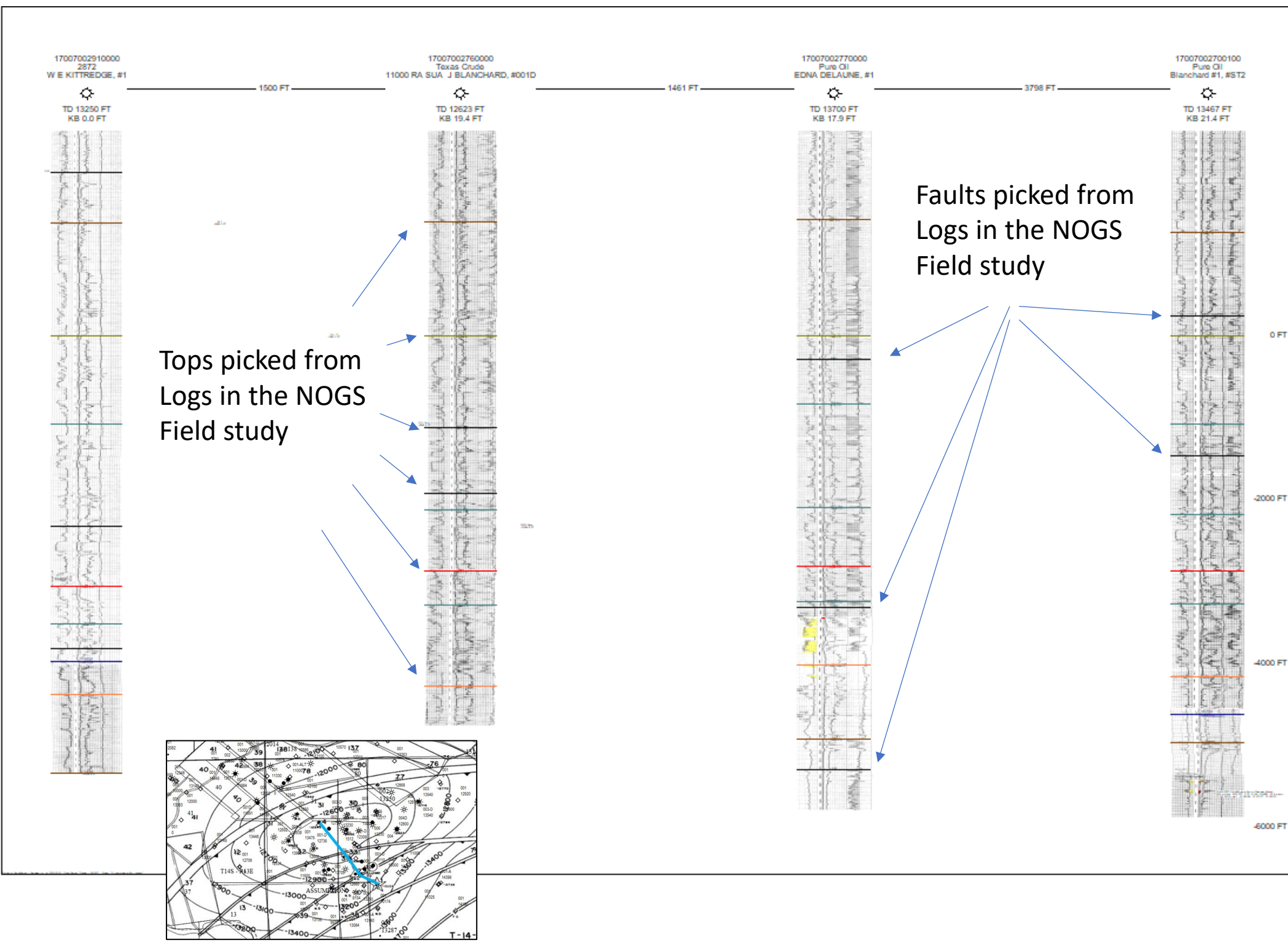
Repeat the process as needed to bring in additional wells.

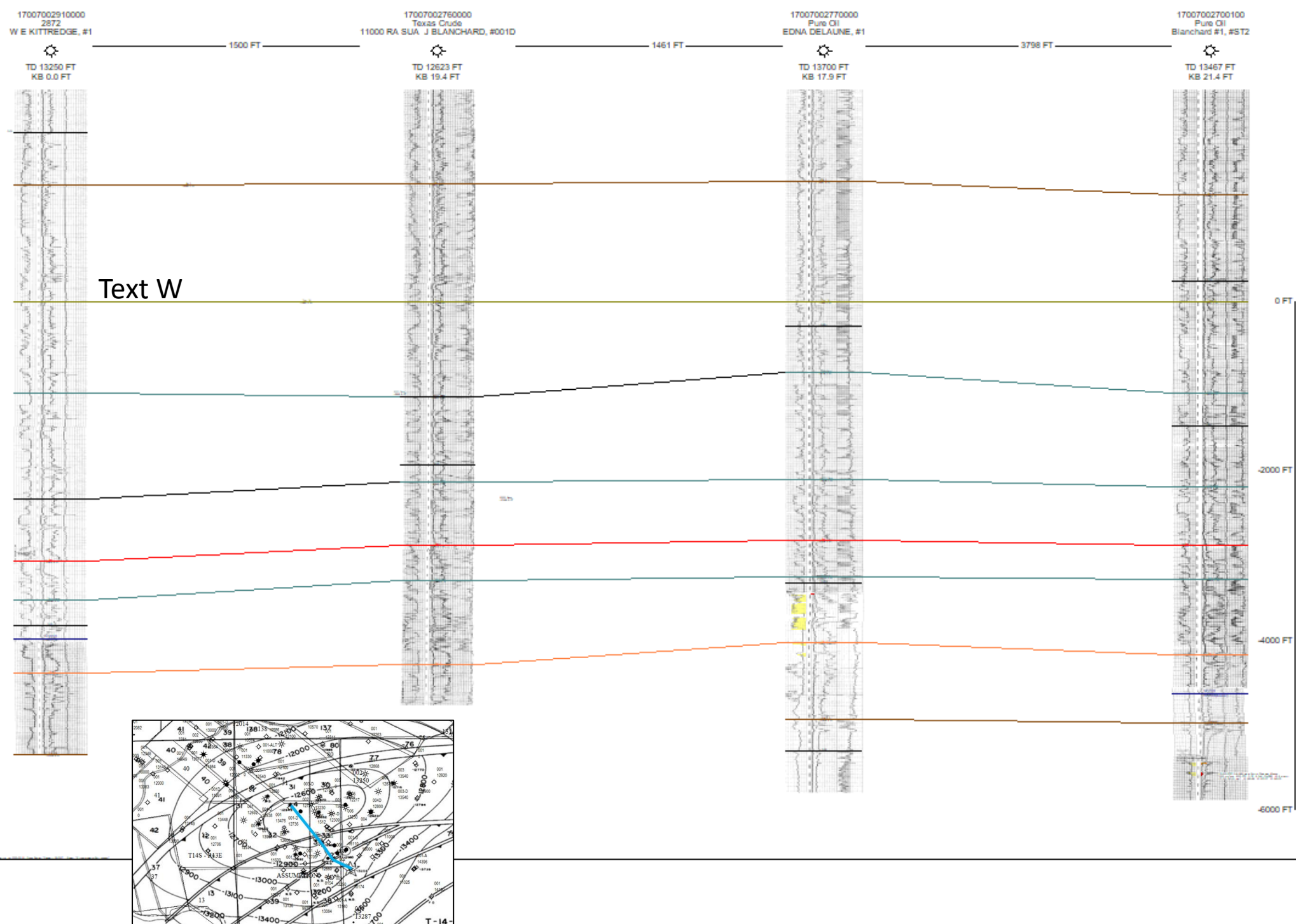
Suggest starting a new field by mimicking the NOGS section line and then adding the tops and faults as labeled in the study to help ensure consistent field nomenclature.

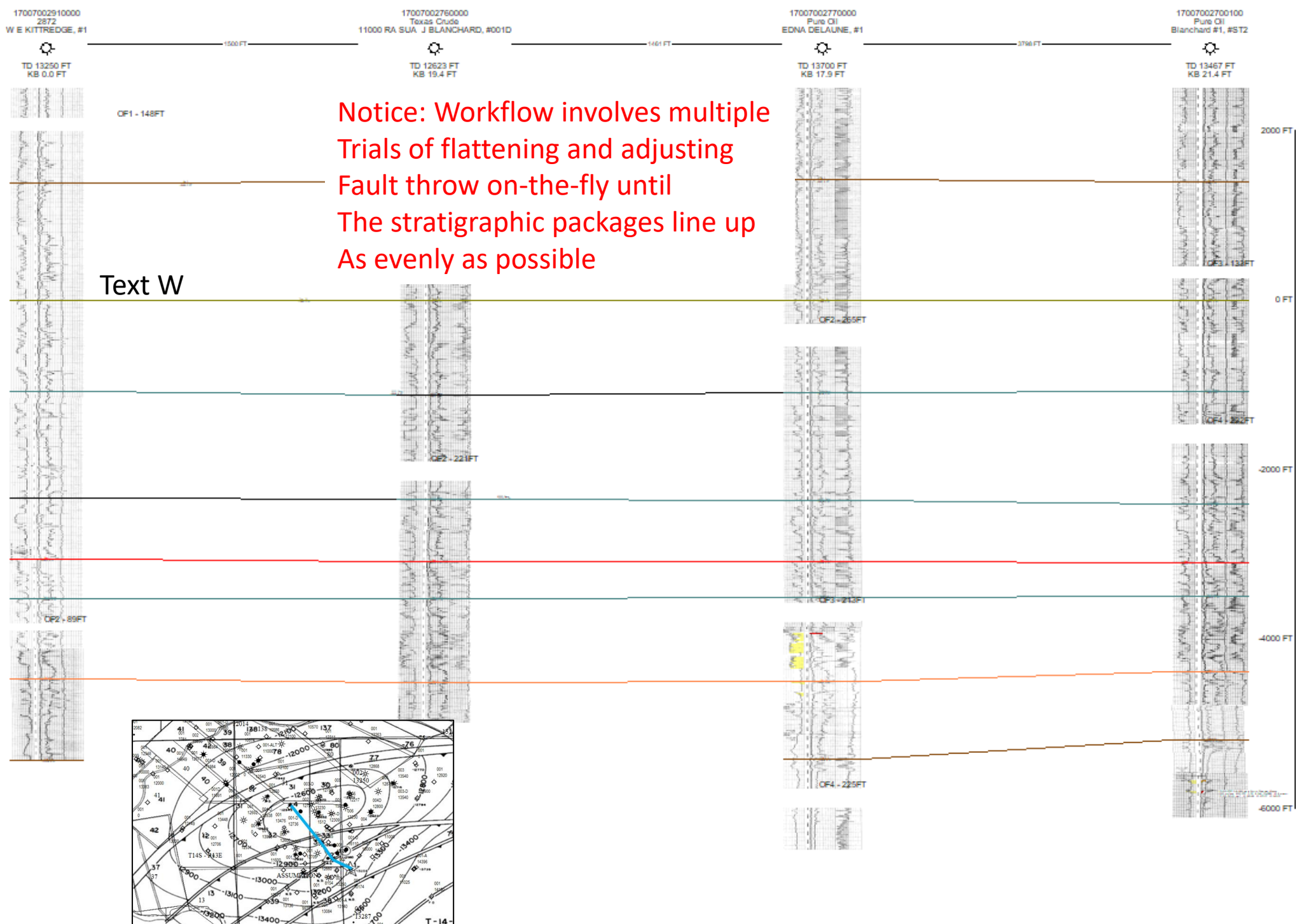


Southeast-northwest cross section, Oakley Field, Assumption Parish, Louisiana





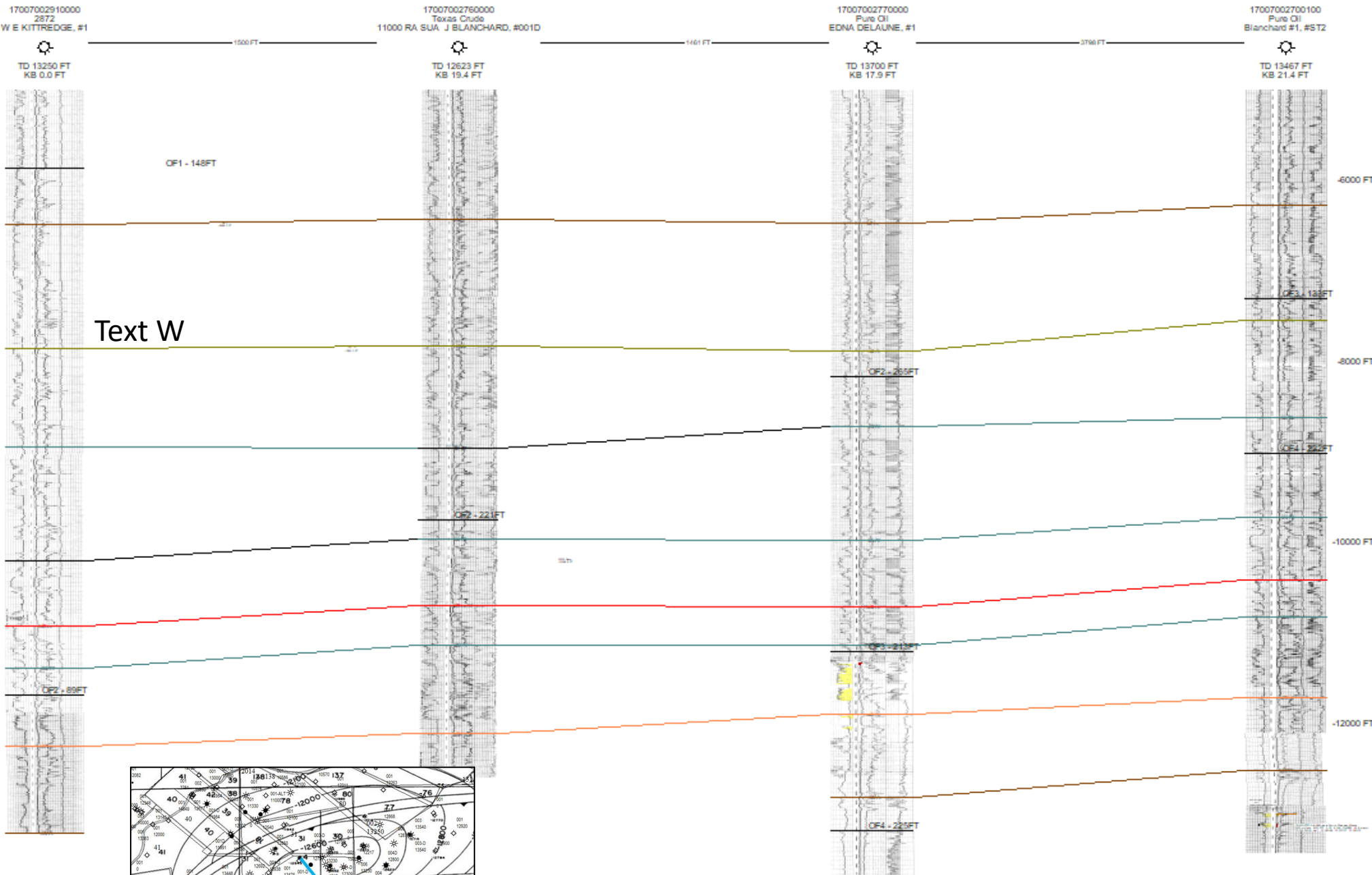




SE

Oakley Cross Section – Structural Cross Section

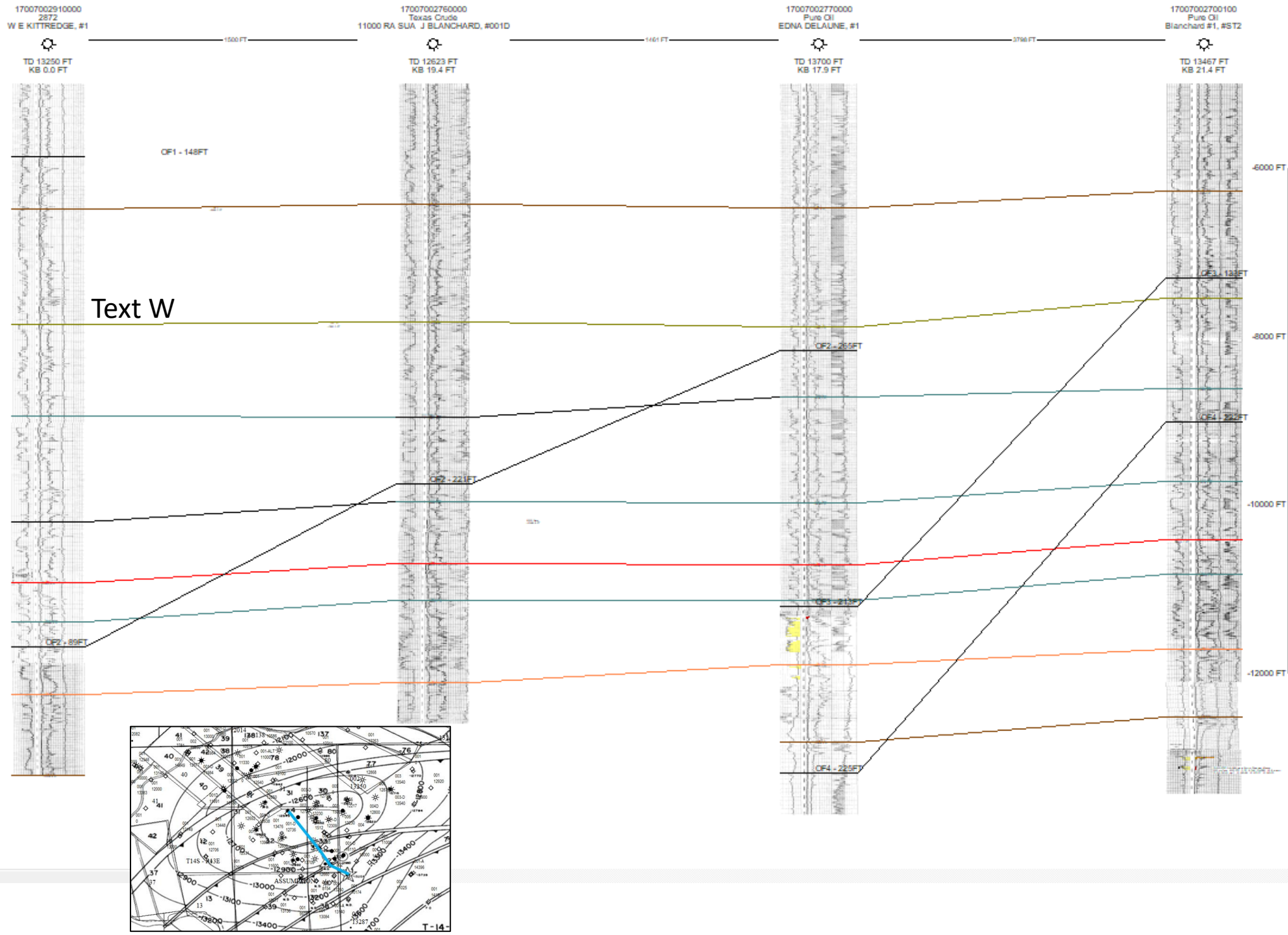
NW



SE

Oakley Cross Section – Structural Cross Section

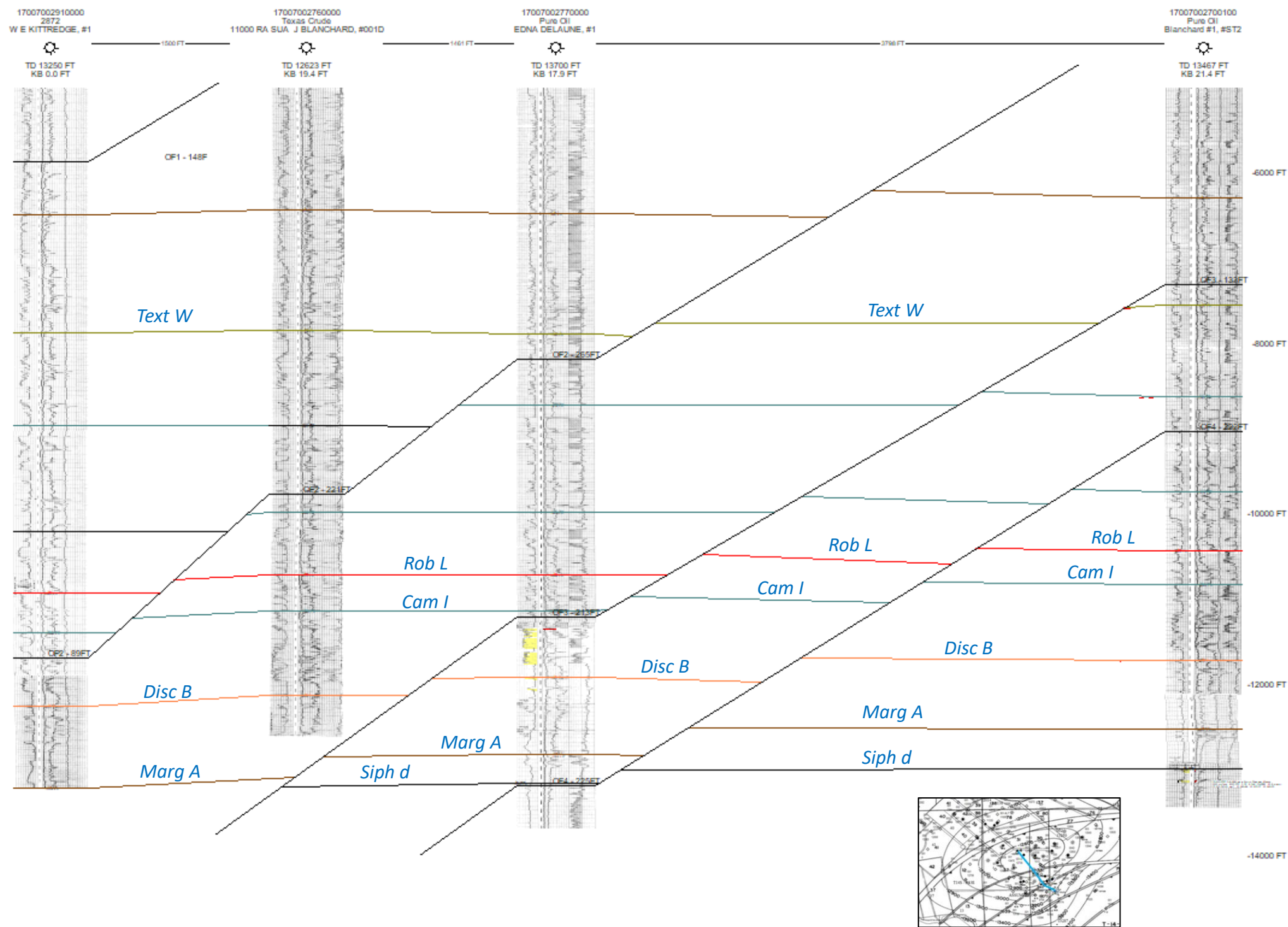
NW

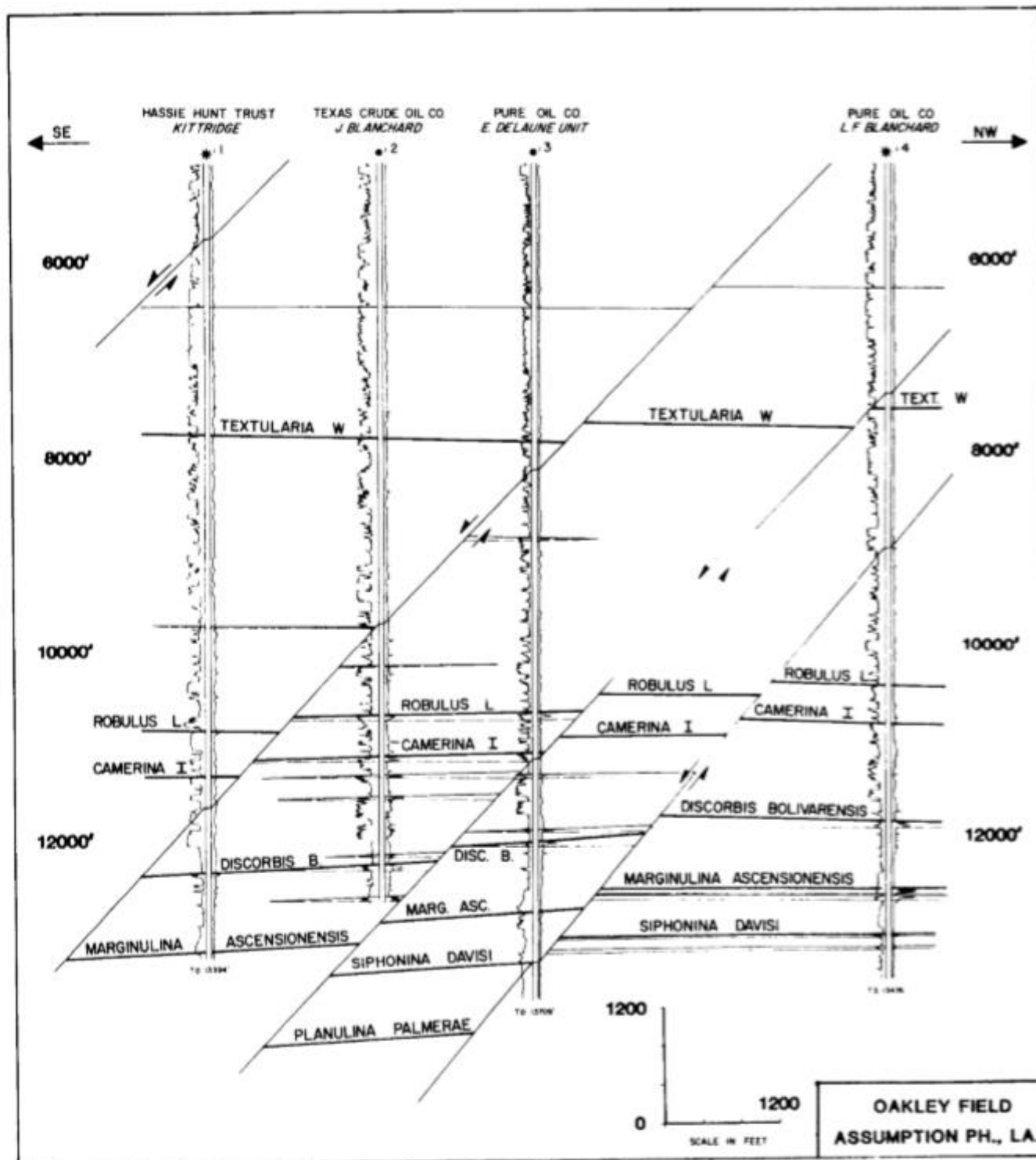


SE

Oakley Field Cross Section – Balanced and Geo-proportional

NW





Southeast-northwest cross section, Oakley Field, Assumption Parish, Louisiana

Top of Discobis B Zone, Oakley Field, Assumption Parish

Scale: 0.0 mi, 0.5 mi, 1.0 mi, 1.5 mi, 2.0 mi, 2.5 mi

Legend:

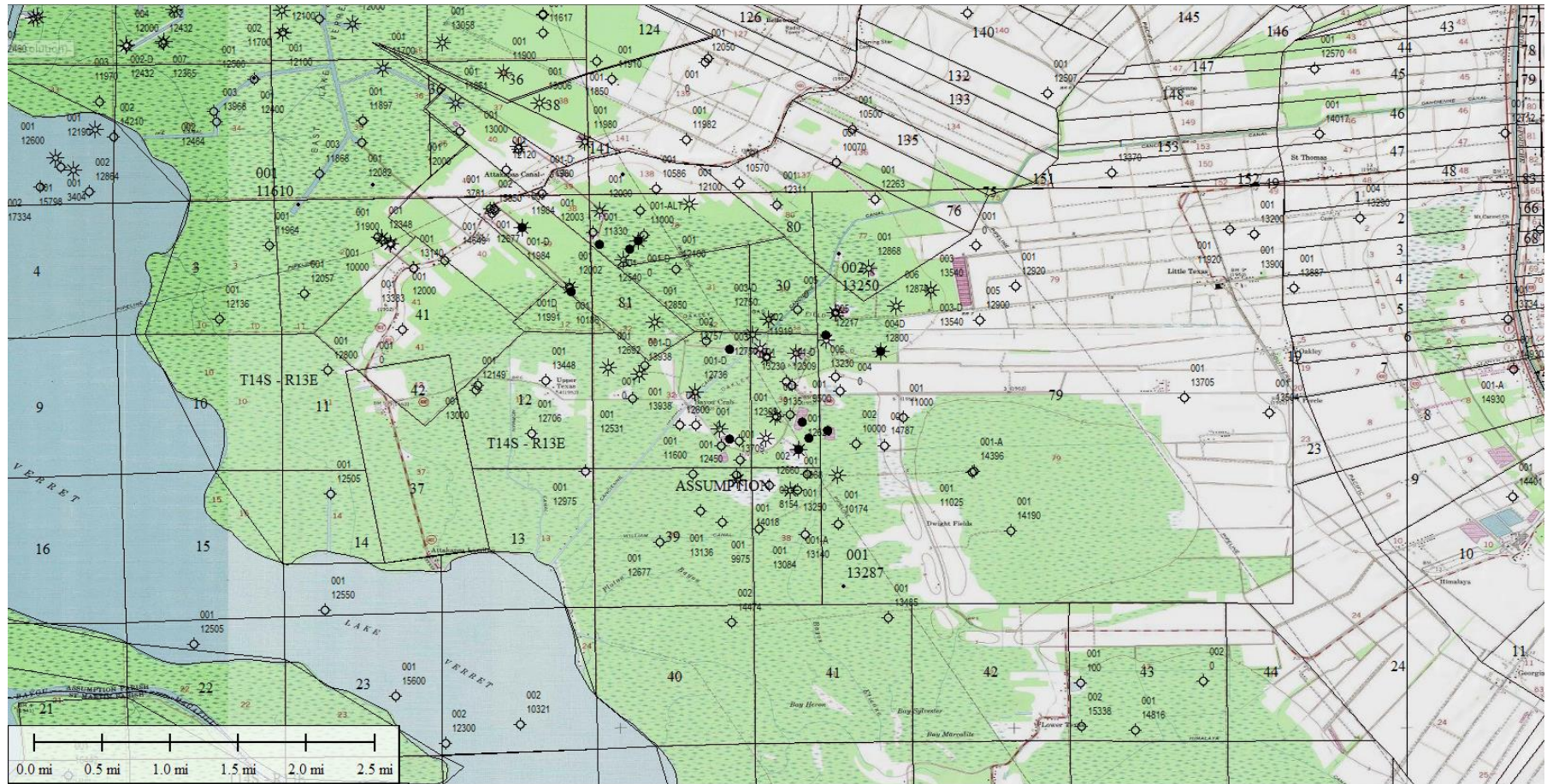
- 0.0 mi
- 0.5 mi
- 1.0 mi
- 1.5 mi
- 2.0 mi
- 2.5 mi

Scale: 0.0 mi, 0.5 mi, 1.0 mi, 1.5 mi, 2.0 mi, 2.5 mi

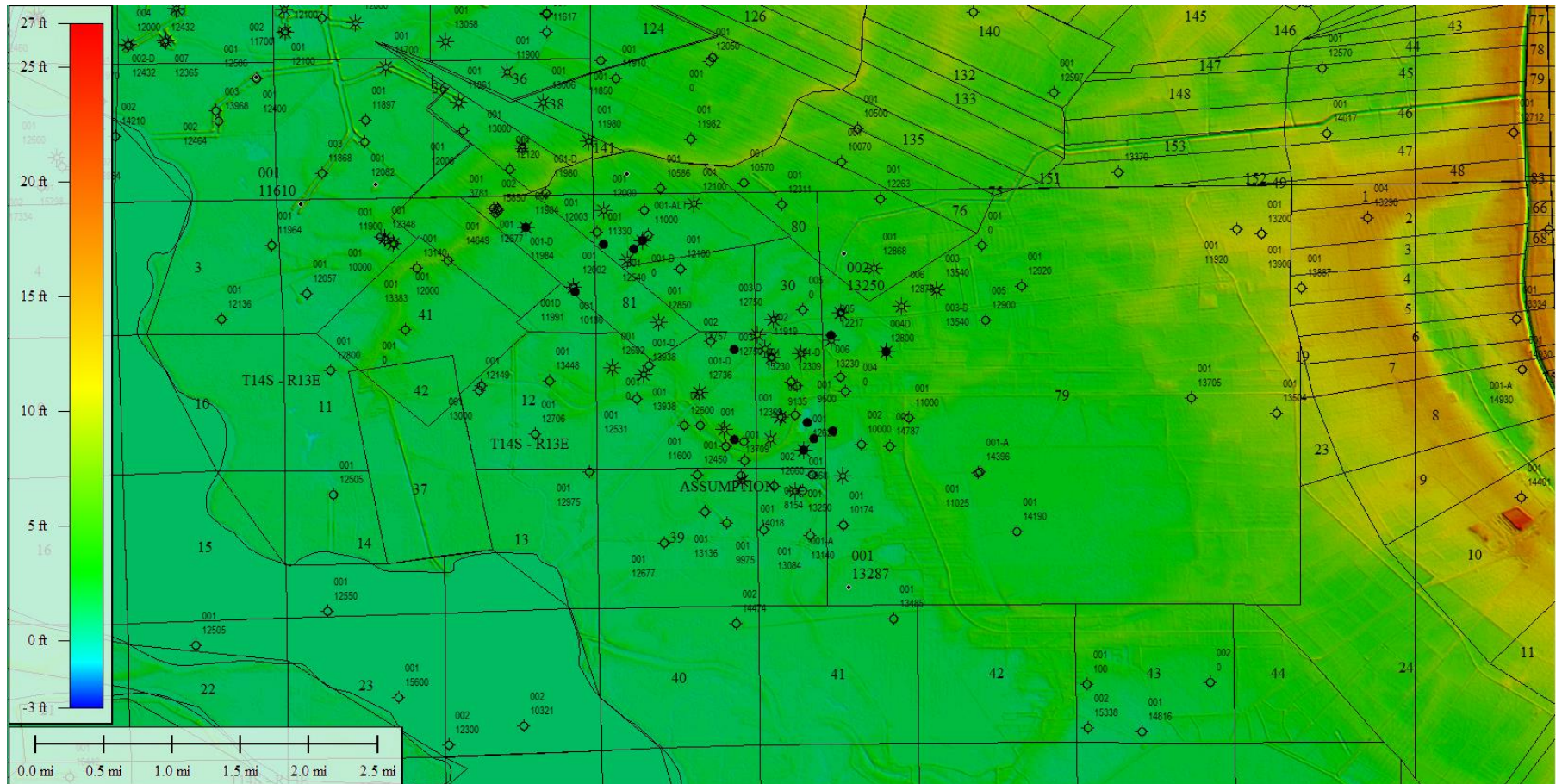
Legend:

- 0.0 mi
- 0.5 mi
- 1.0 mi
- 1.5 mi
- 2.0 mi
- 2.5 mi

Base Map – With USGS Topo Map



Base Map – With Elevation Data



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NOGS CD Availability

GEOLOGY OF GREATER NEW ORLEANS:

Its Relationship to Land Subsidence and Flooding

J. O. Snowden
W. C. Ward
J. R. J. Studlick

With a Geologic Walking Tour of Downtown
New Orleans
by
L. E. Rieg

PUBLISHED BY:

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James A. Seglund, President-Elect

February 1980

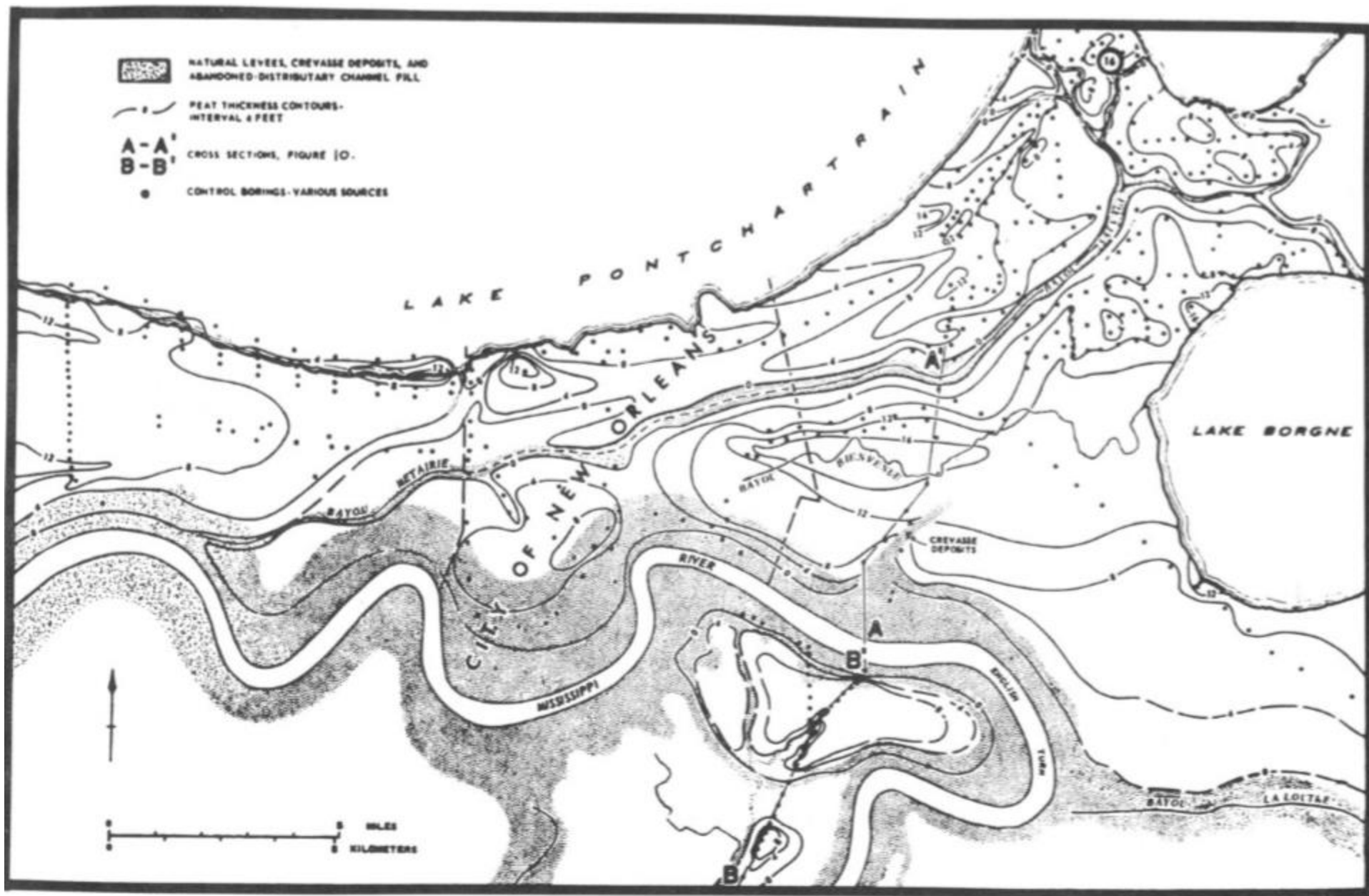


FIGURE 9 – Distribution and thickness of peat deposits in the vicinity of New Orleans (from Fisk, 1960).

Stratigraphic Relationship of Peat Deposits

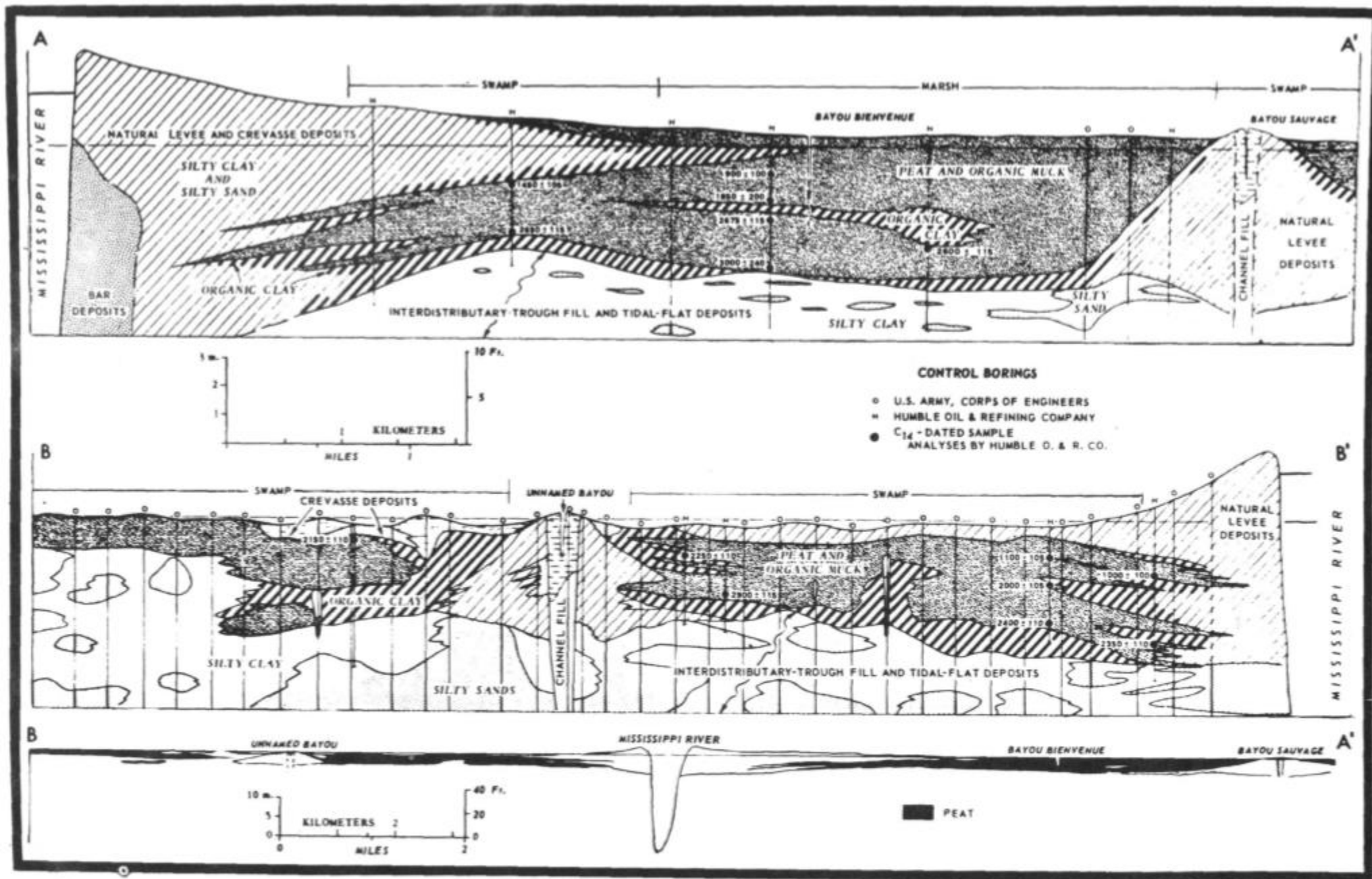


FIGURE 10 — Stratigraphic relationships and radiocarbon ages of peat deposits in the vicinity of New Orleans. Locations of the cross-sections are shown in Figure 9 (from Fisk, 1960).

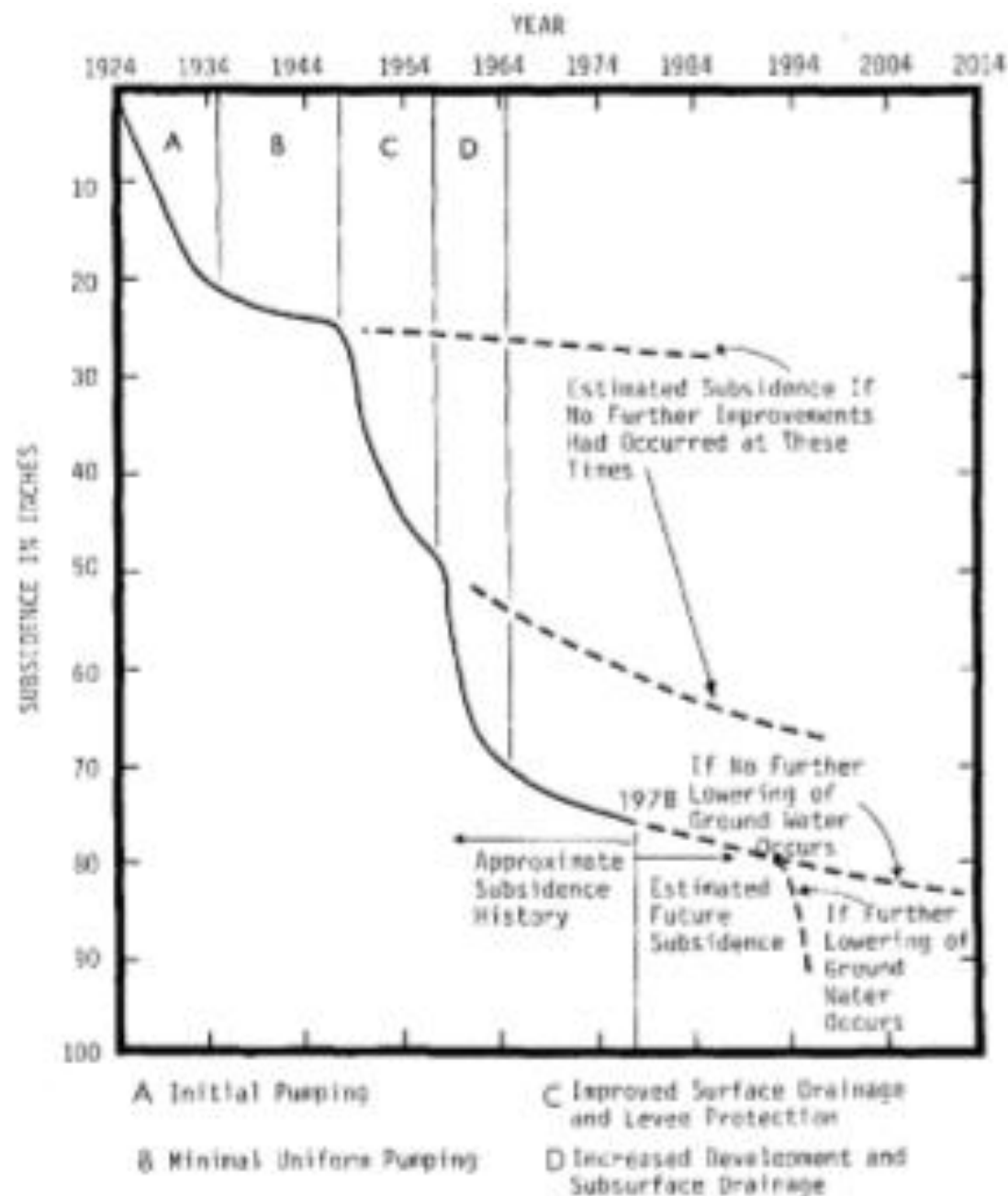
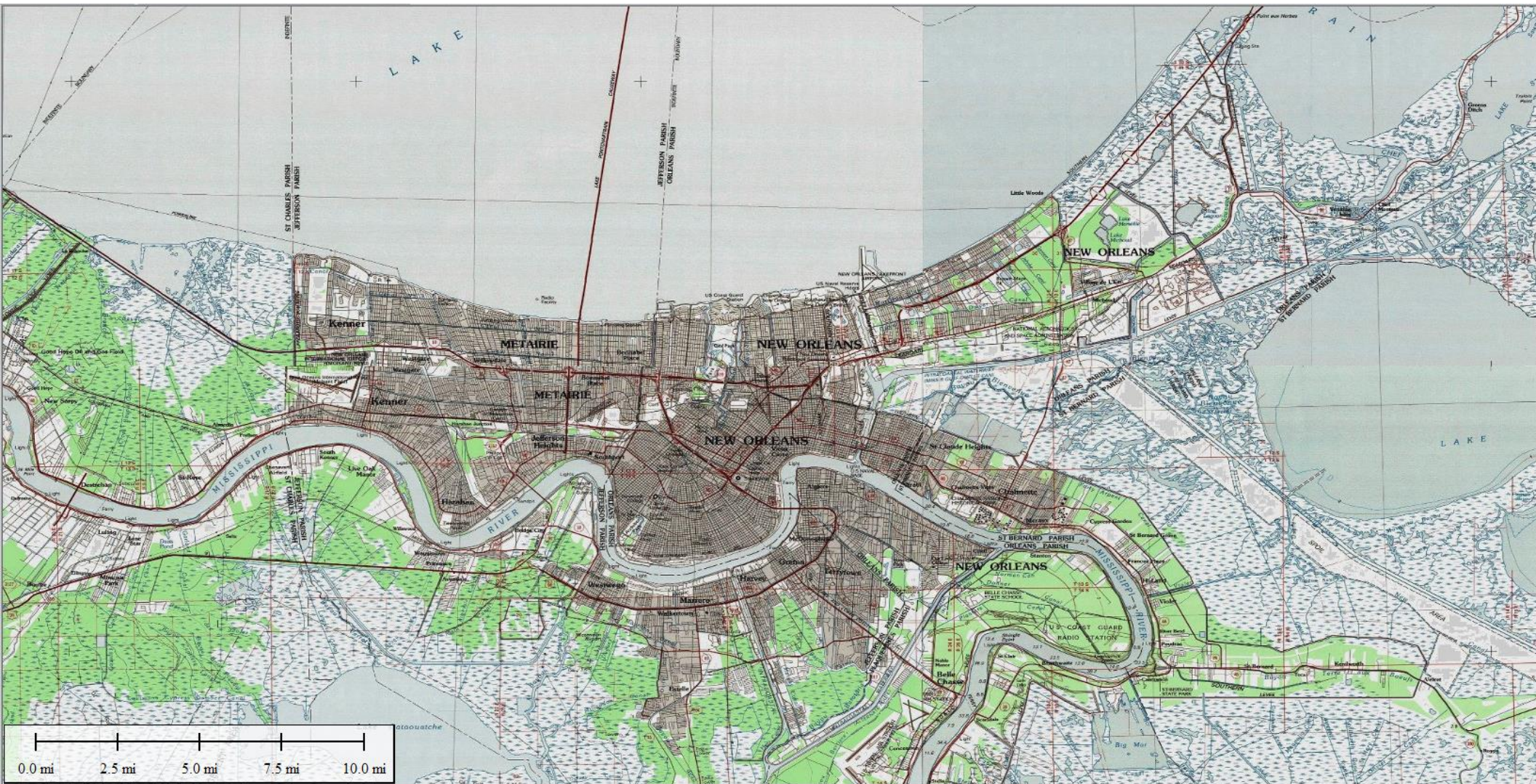
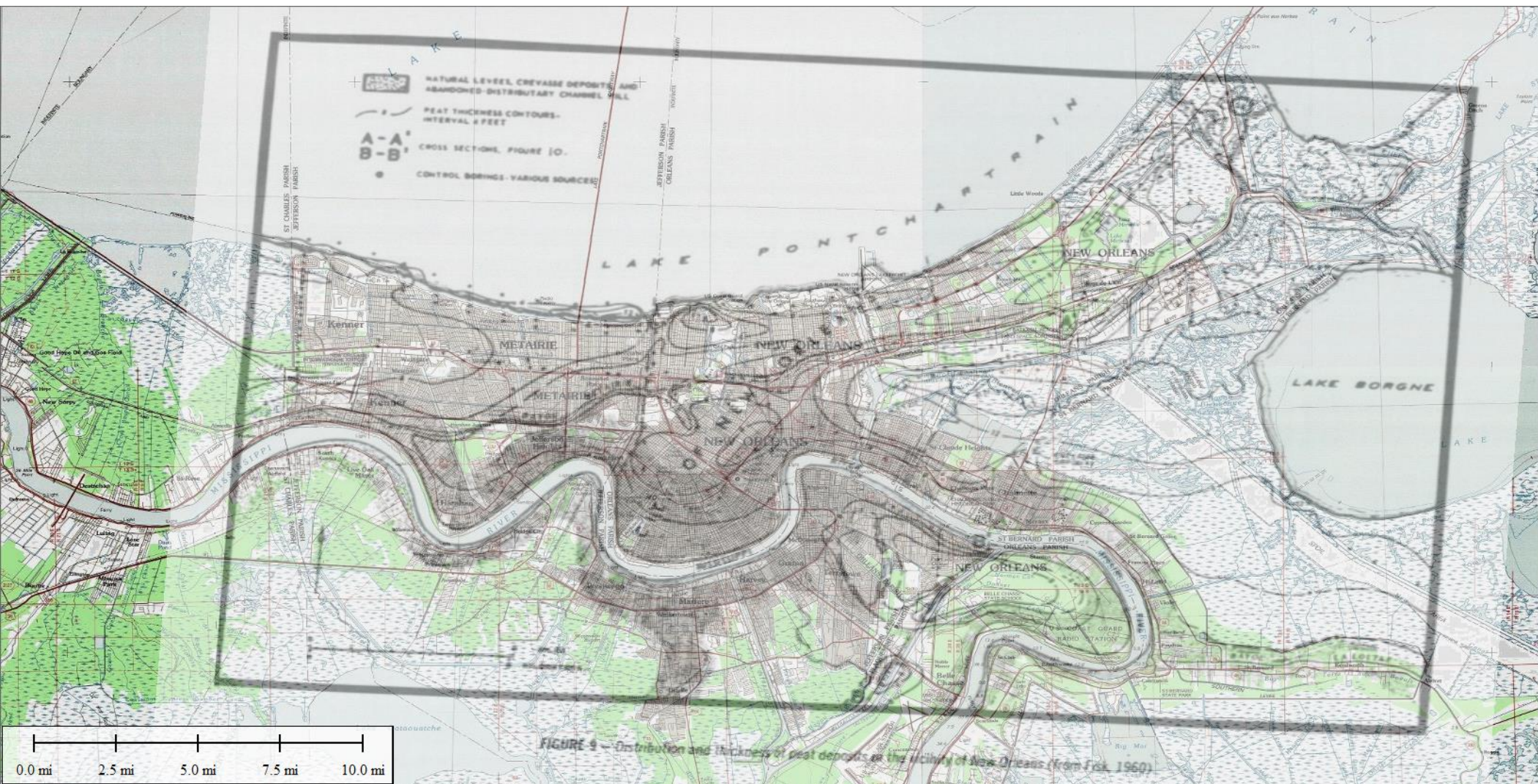


FIGURE 14 — Approximate subsidence history and estimated future subsidence for Kenner, Louisiana, north of Interstate 10. Normalized for peat thickness of 8 feet (from Traugher, Snowden, and Simmons, 1978).

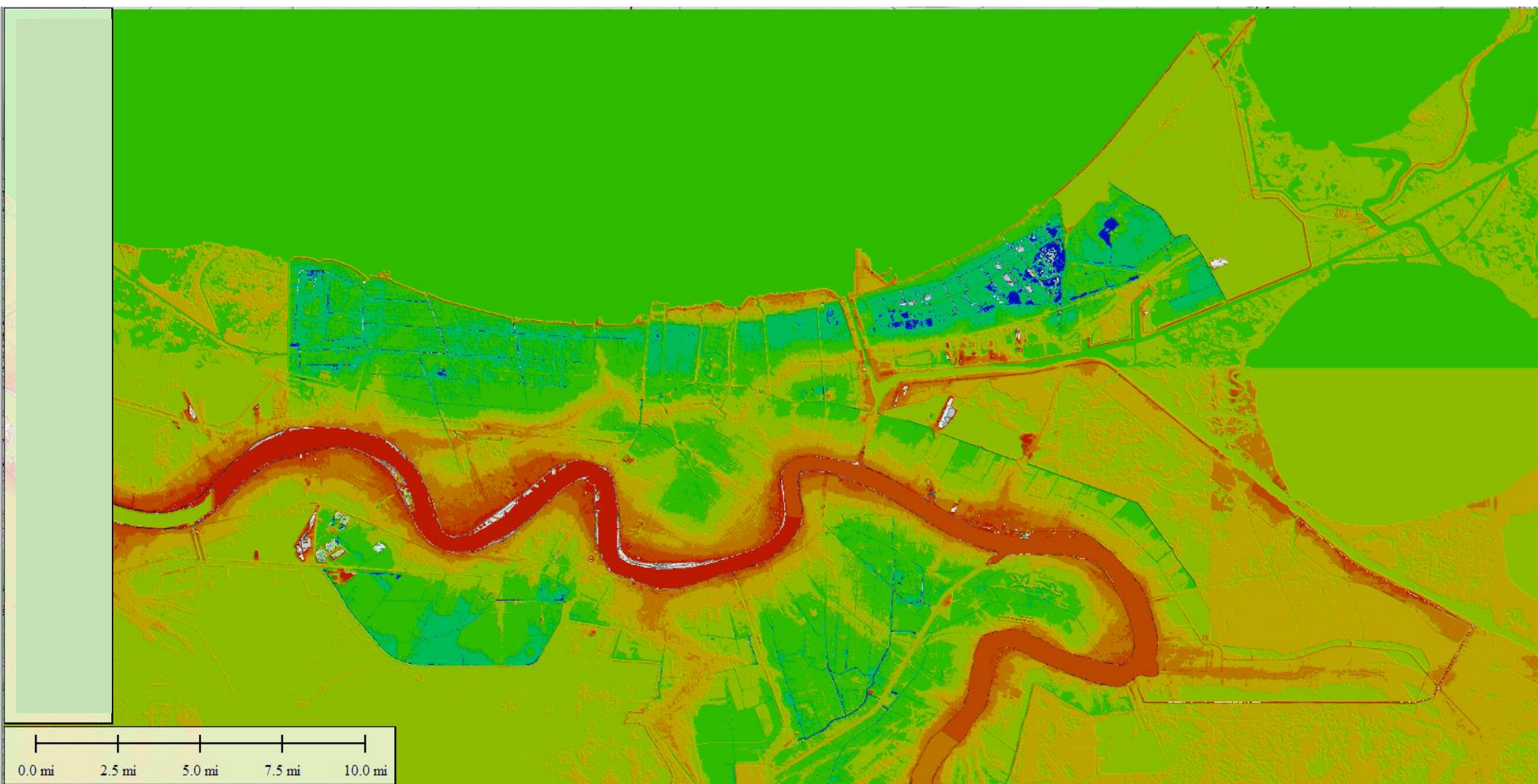
USGC Topographic Map of GNO



USGC Topographic Map of GNO With Georeferenced Fisk Peat Isopach (1960)



Relative Elevation Display of GNO



Relative Elevation Display of GNO With Fisk Peat Isopach (1960)

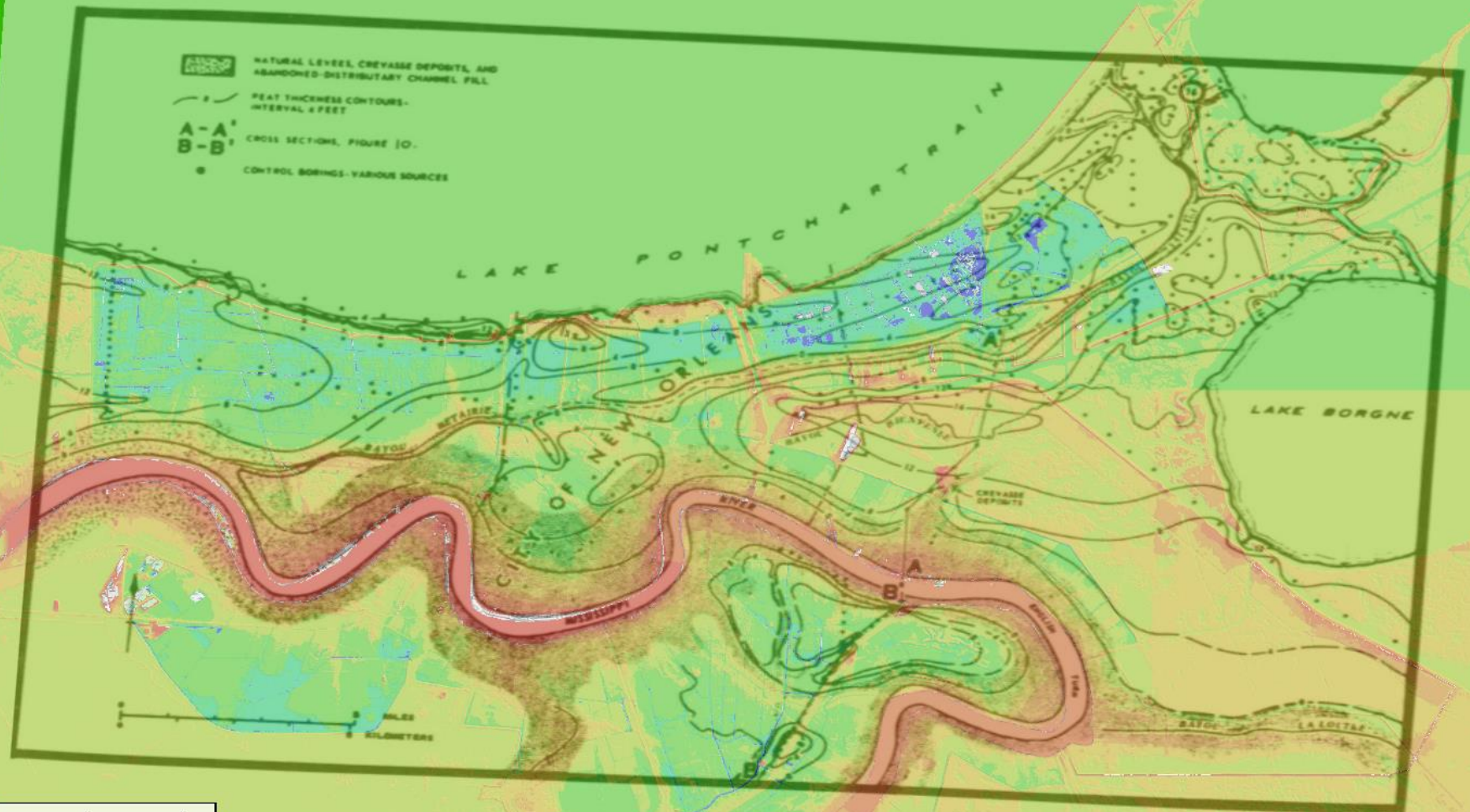
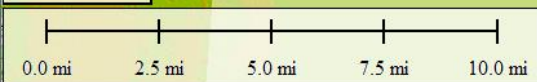
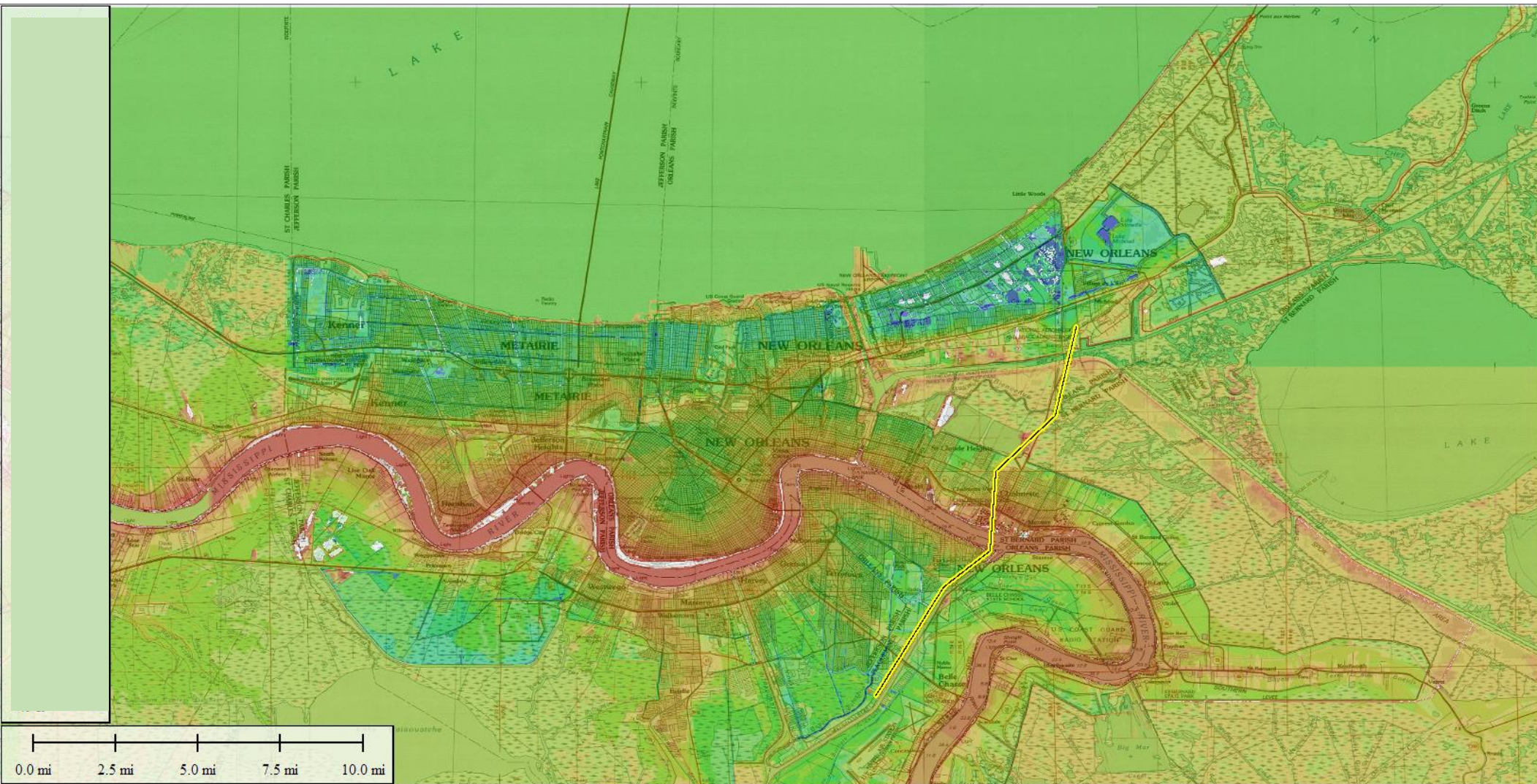


FIGURE 9 – Distribution and thickness of peat deposits in the vicinity of New Orleans (from Fisk, 1960).



Relative Elevation Display of GNO With USGS Topo Map Overlay



SW

Elevation Transect of Lidar Elevation

NE

Elevation

Westbank

Eastbank

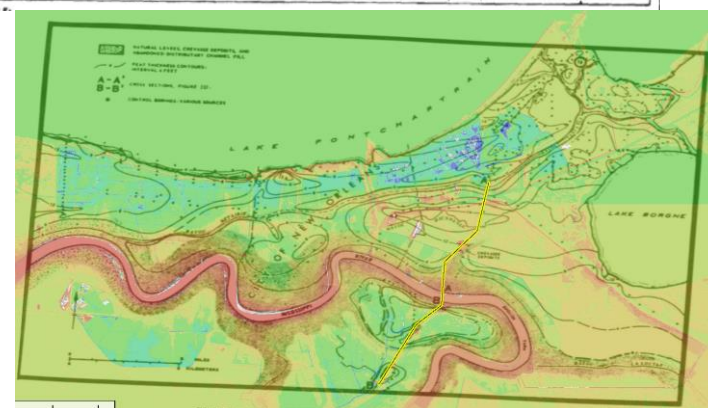
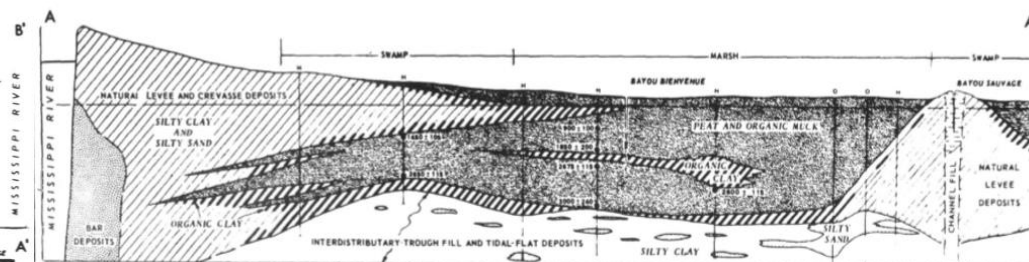
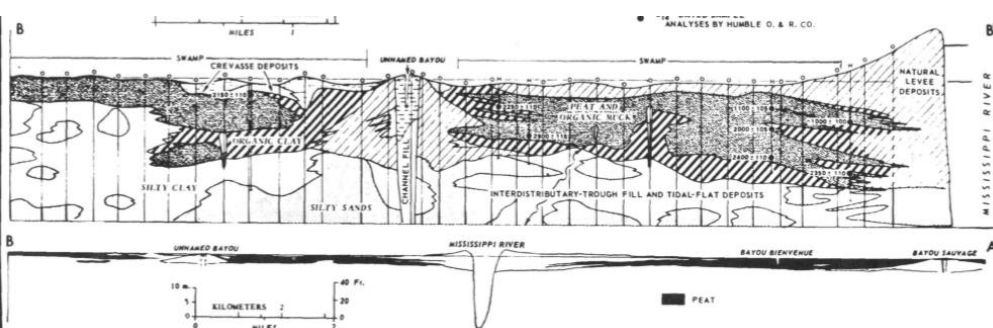
2.5 mi

5.0 mi

7.5 mi

10.0 mi

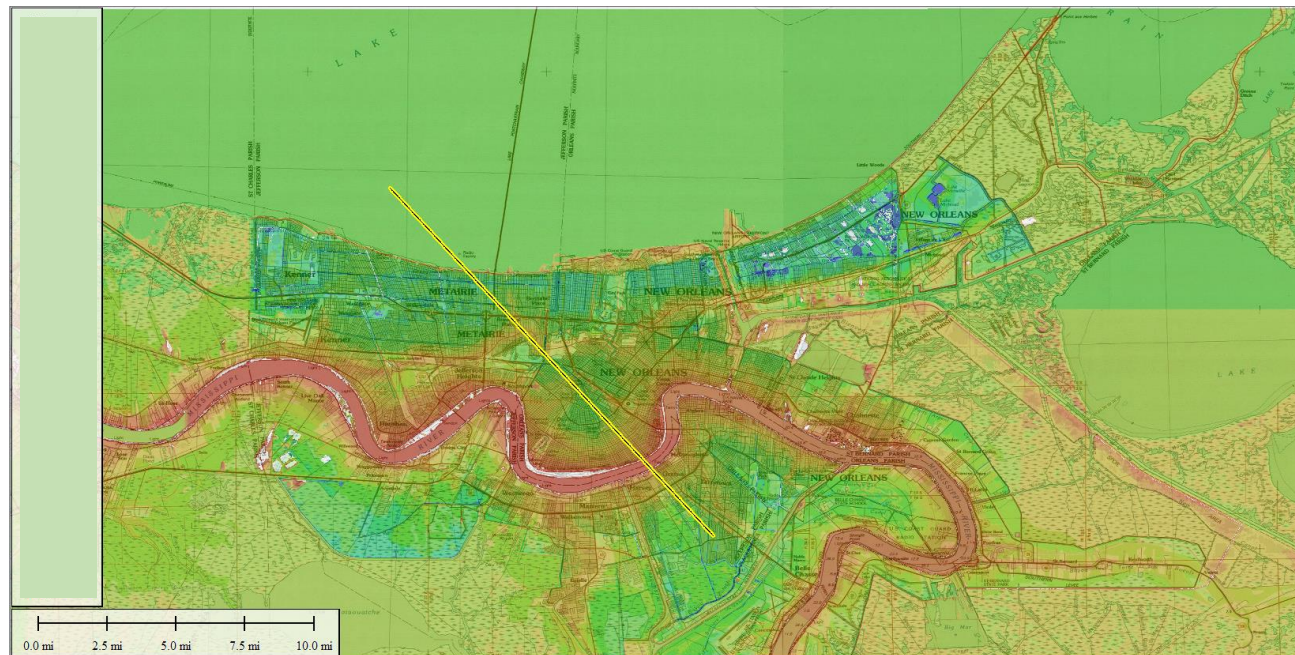
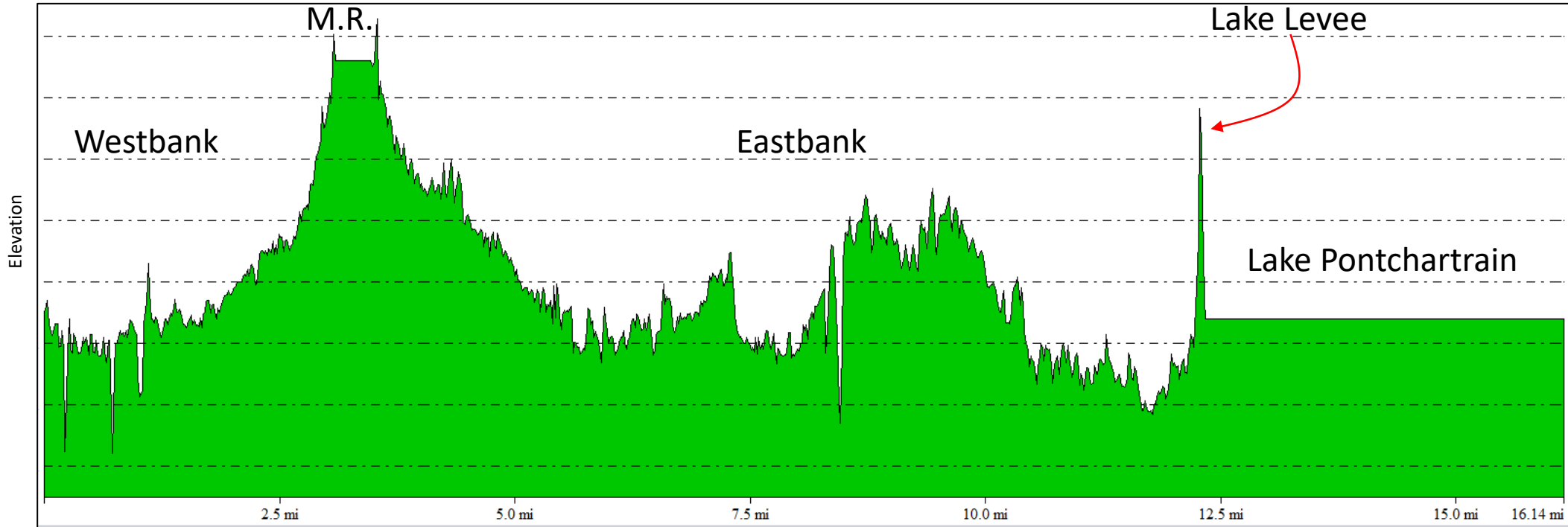
12.80 mi



SE

GNO Transect 1

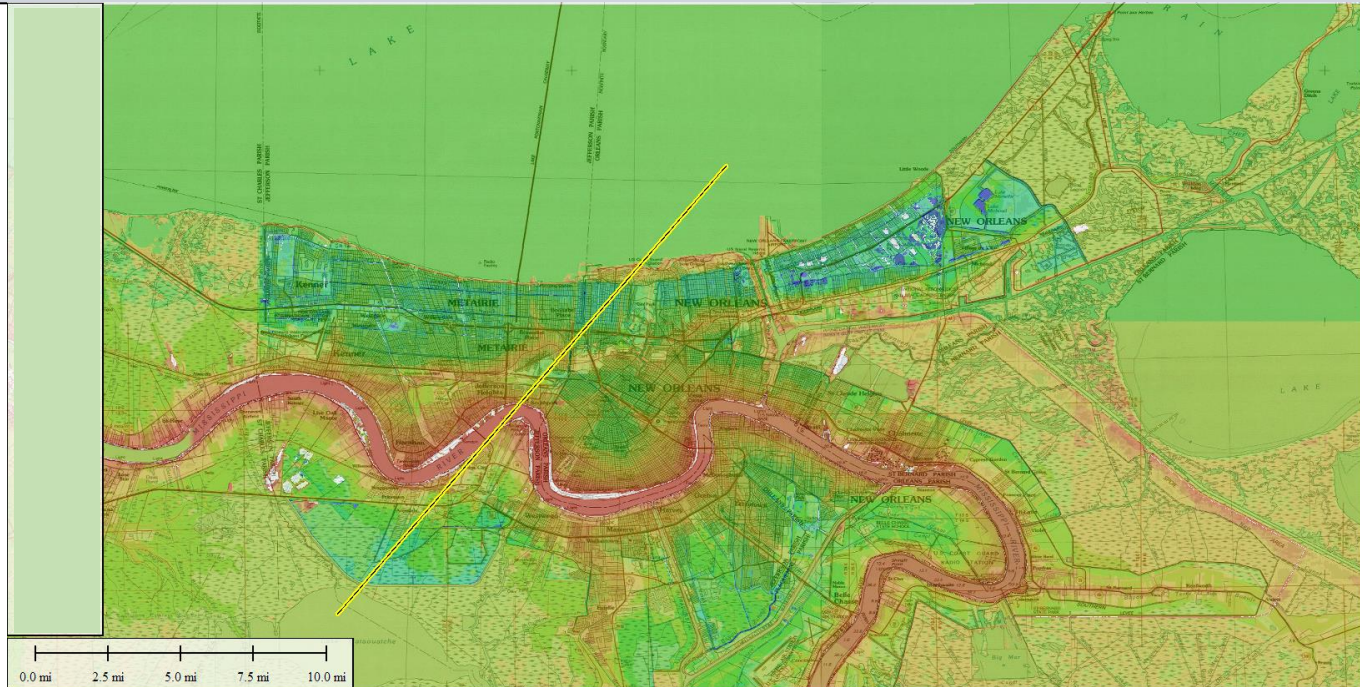
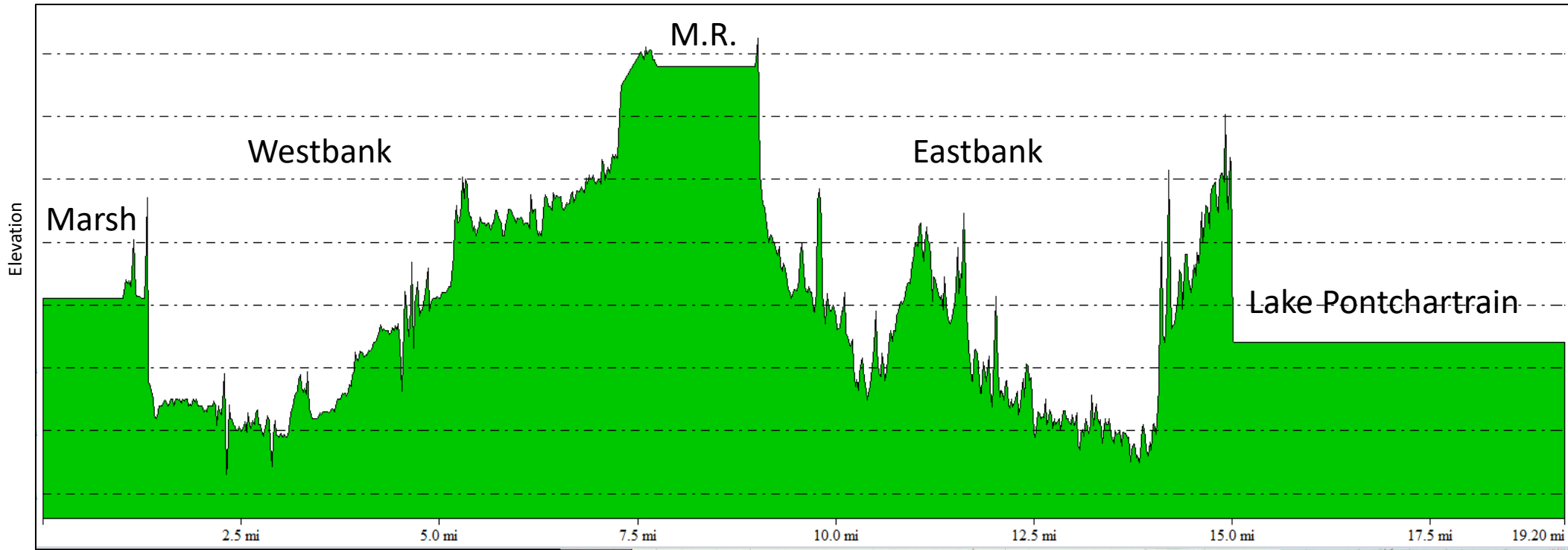
NW

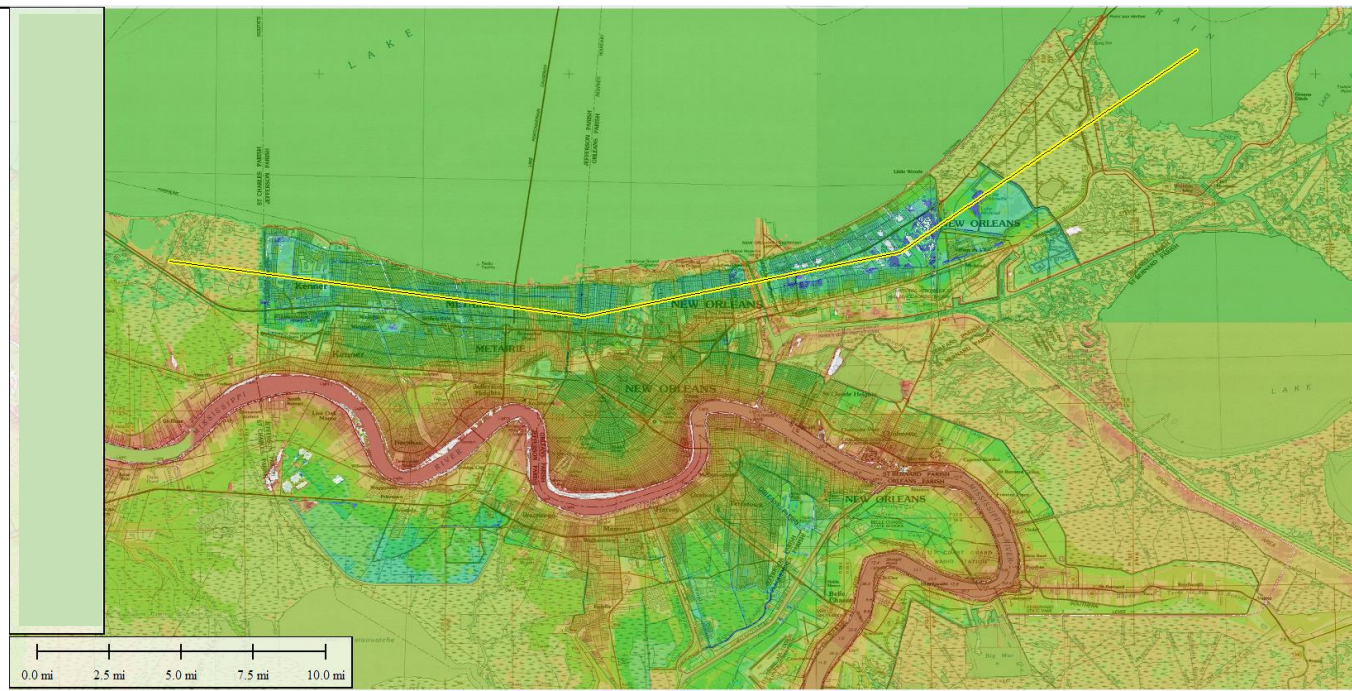
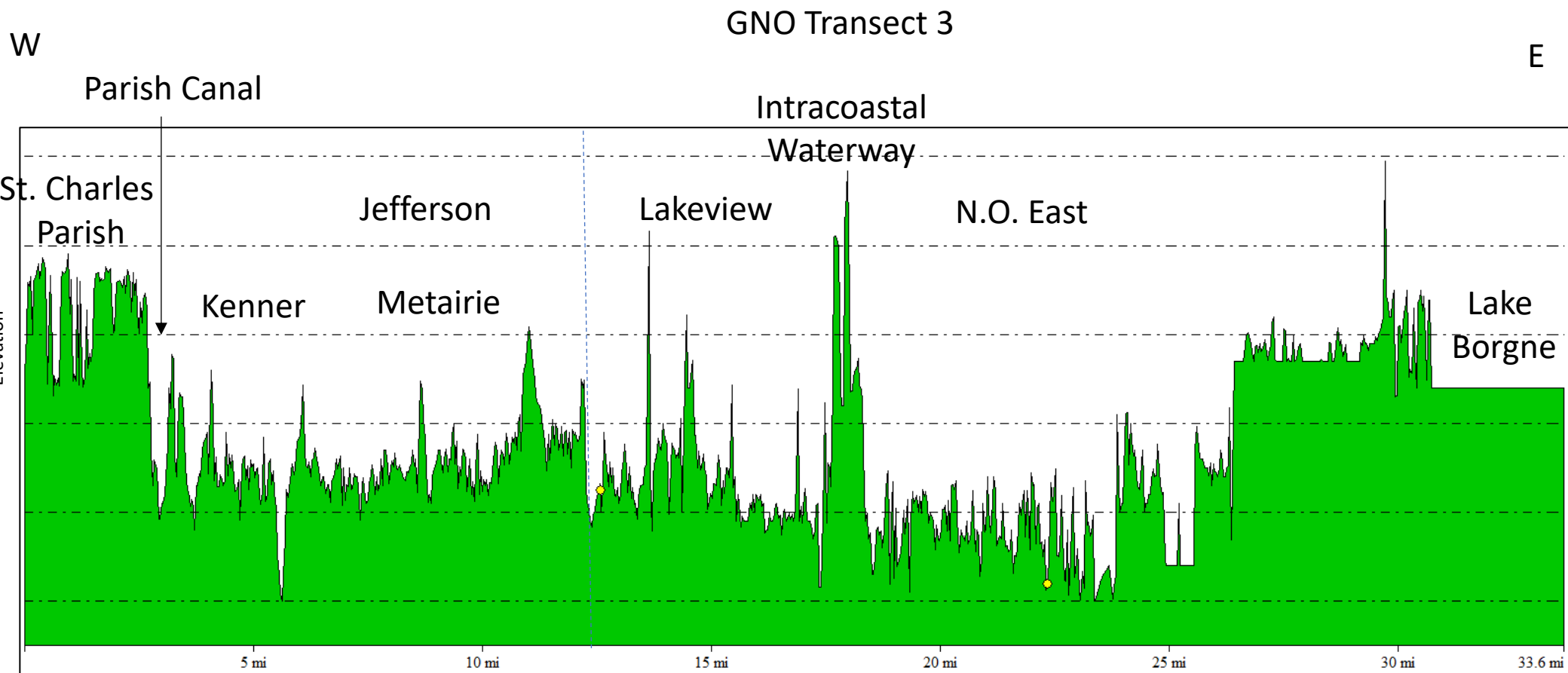


SW

GNO Transect 2

NE





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The NOGS CD volume sets can be purchased through

AAPG Datapages

Nogs Website at nogs.org

Thank you.