

TWO MEDICINE CUT BANK SAND UNIT
CUT BANK, MONTANA



Seismic Analysis

(Deep Oil and Gas Target)



GUSTAVSON ASSOCIATES
GEOLOGISTS • ENGINEERS • ECONOMISTS • APPRAISERS

May 6, 2009

Mr. Pierre G. Mulacek, CEO
Arkanova Energy Corp.
2441 High Timbers Drive
The Woodlands, Texas 77380

RE: Two Medicine Cut Bank Sand Unit Deep Potential Target

Dear Pierre,

The following letter report describes the results of our investigation into the likelihood of deep potential under your Two Medicine Cut Bank Sand Unit. Gustavson reviewed seismic data from the BIA and subsurface data in addition to oil tests in three wells to the north of the Arkanova unit, which were used as analogs for the potential of Bakken Shale equivalent strata in this region. This study concluded Bakken Shale equivalent, Exshaw Formation is expected to be present approximately 1,130 feet below the top of the Madison Group across the Two Medicine Cut Bank Sand Unit.

The report consists of results, procedure, a description of the potential deep target, seismic correlation, a summary of oil tests in the analog wells, and a detailed description of the tasks from the contract. The appendices of the report contain supporting data.

Please contact me to discuss these results or with any questions you may have about this work.

Regards,

Michele Bishop
Chief Geologist



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RESULTS

An analysis of the data from three wells, the Bugbee, Tribal 470, and Tribal 475 located in T33N R6W approximately nine miles north of the Two Medicine Cut Bank Sand Unit, showed that oil was tested from the Madison Group and the Exshaw Formation. Based on seismic character that corresponds to the oil tests in the Bugbee, Tribal 470, and Tribal 475 wells, the strata that correspond to the Exshaw Formation in the above wells should be encountered at an approximate depth of 1,130 feet below the top of the Madison Group under the Two Medicine Cut Bank Sand Unit.

For example, the drilling depth to reach the Exshaw Formation within the southern part of the Two Medicine Cut Bank Sand Unit in the Provident Energy TMCBSU 5994 (4) well in section 10 T31N R6W, would be approximately 4,550 feet or 793 feet sub-sea. In the northern part of the unit at the TMCBSU water well #2 in section 34 T32N R6W, would be at an approximate drilling depth of 4,708 feet or 860 feet sub sea. These two wells are represented on the cross sections.

PROCEDURE

Eight 2D seismic lines and a 3D seismic survey were provided by the BIA. Portions of seismic lines are illustrated in APPENDIX I. Sonic logs for two wells that drilled to the Madison Group and were near the seismic lines were obtained. Synthetic seismograms were created from the sonic logs run in these wells. Synthetic seismograms are used to relate the sonic log signals in a well to seismic data in order to correlate between the intervals in the well and the location of those intervals on seismic data. They are useful in relating time, used in seismic data, to depth, used in logging. One well, which drilled below the Madison Group and through the Exshaw Formation, was used to create a calculated (or synthetic) sonic log using the gamma ray and induction curves, and then to make a synthetic seismogram that was used to correlate to the seismic data (APPENDIX II). In all there are three control points that relate the seismic data to the subsurface drilled and logged in wells. These control points guided the seismic interpretation

and mapping translating formation tops from the wells to seismic horizons on the seismic data (APPENDIX III).

Subsurface correlations were made for 13 wells that were used to construct structural and stratigraphic cross sections to illustrate the relationships among the wells to the north, along the seismic lines, within the Two Medicine Cut Bank Sand Unit, and within the 3D seismic survey (APPENDIX IV). Data used for this analysis included information from scout tickets (APPENDIX V).

DEEP POTENTIAL TARGET

The Exshaw Formation is Mississippian in age and consists of black shale, siltstone and limestone and is time equivalent to the lower and middle members of the Bakken Shale. The Exshaw Formation, when present, overlies the Upper Devonian Three Forks Formation and is at the base of the Mississippian age Madison Group (APPENDIX VI). There is an unconformity, missing depositional time, at the top and base of the Madison Group. This means that in different locations in Montana additional rocks may be present in these intervals or some rocks may be missing. The Madison Group, from youngest to oldest, consists of the Charles Formation (or Sun River), the Mission Canyon Formation, the Lodgepole Formation (sometimes underlain by the Bakken), and in North Central Montana and the Williston Basin, the Bakken Shale. The Rundel, Banff, and Exshaw Formations are terms used in Canada for the same stratigraphic section. This group overlies strata variously termed Three Forks, Potlatch, and Palliser in this region and in Canada.

The Exshaw Formation was encountered in three wells in T33N R6W, the Bugbee well in section 6, the Tribal 470 well in section 7, and the Tribal 475 well in section 8. The Tribal 470 well log over this interval includes a gamma ray log that shows three radioactive or “hot” shales in the interval from 4,690 feet to 4,755 feet (Figure 1). The log character of this shale interval is similar to the producing Bakken Shale further east in Montana. APPENDIX VII compares the interval in the Tribal 470 well and the log character of wells producing from the Bakken Shale in Eastern Montana. The Tribal 475 well log did not include a gamma ray log, which is the best comparison of the shales, but the resistivity log response in the interval resembles the log response in the Tribal 470 well.

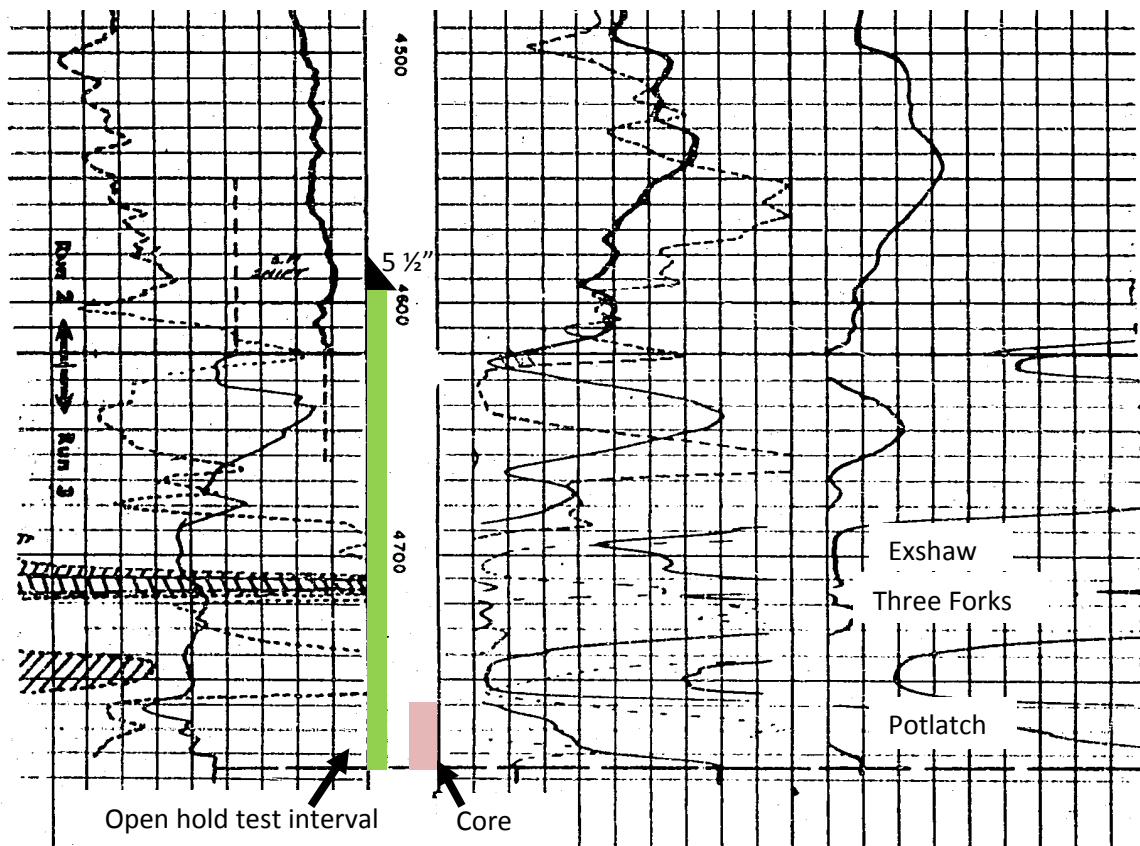


Figure 1. Log Showing the base of the Madison to total depth of Union Oil Tribal 470, sec. 7 T33N R6W Glacier Co. MT.

SEISMIC CORRELATION

Eight 2D seismic lines and the Kye Trout 3D seismic survey (approximately 5.5 sq. mi.) were loaded on a workstation and interpreted using Kingdom Suite Seismic Micro Technology software. The sonic log from the Amoco 1 Tribal well, in section 13 T31N R7W, was used to create a synthetic seismogram to establish a tie to the seismic data. The Union Oil Tribal 470 well log was used to create a sonic log from gamma and resistivity data (APPENDIX II). This pseudo sonic log was compared to the sonic log from the Amoco 1 Tribal well and was then used to create a synthetic seismogram. This synthetic was used to establish a tie between the interval from which oil was tested in the Union Oil Tribal 470 well and the seismic data, Line 8413-19.

The geologic tops from the logs were then transferred to the seismic data to establish seismic mapping horizons (APPENDIX I). A map of the Exshaw seismic horizon as marked on the 2D data set and a map of the Exshaw seismic horizon as marked on the 3D seismic data were

created. These maps are adjacent to the eastern side and the western side of the Two Medicine Cut Bank Sand Unit (APPENDIX III).

These seismic maps indicate that it is reasonable to infer that the seismic character representing the Exshaw interval would be present under the Two Medicine Cut Bank Sand Unit.

OIL TESTS

Union Oil Tribal 470

Union Oil Tribal 470 well was drilled in 1954 to a depth of 4,800 feet. Thirty four openhole production tests are reported on the scout ticket in the interval from 4,595 feet to 4,782 feet (Figure 1) (APPENDIX V). This interval corresponds to the lower Madison, Exshaw, Three Forks, and Potlatch. The average of these tests is 34 bbls of oil per day. The highest test recovered 516 bbls in 24 hours. Five barrels of water were recovered during test 012 and one barrel of water was recovered during test 034 from the same footage interval. The Madison was also tested from 3,997 feet to 4,007 feet with only 50 bbls of water recovered. The tests and cores are marked on the well log in each cross section (APPENDIX IV). Conventional cores were taken throughout the well (Figure 1).

Flank Oil Bugbee 1

Flank Oil Company drilled the Bugbee 1 well in 1956 to a depth of 4,790 feet. One openhole production test from 4,729 feet to 4,790 feet is reported on the scout ticket (APPENDIX V). This interval is interpreted as the Exshaw and Three Forks Formations. No wireline log was available over this interval. Twenty five barrels of oil flowed in one hour from this test interval. Five production tests were recorded in the interval from 4,631 feet to 4,643 feet, called the Lodgepole, and oil was recovered. Conventional cores were also taken in this well (APPENDIX V).

Flank Oil Tribal 475

Flank Oil Company drilled the Tribal 475 well in 1955 to a depth of 4,740 feet. Two production tests were recorded on the scout ticket in the Madison Group from 3,943 feet to 3,958 feet but no recovery was listed on the scout ticket (APPENDIX V). Conventional cores were also taken high in the Madison Group and from the base of the Madison Group through the Three Forks Formation at total depth, 4,600 feet to 4,730 feet (APPENDIX V).

TASKS

The task order regarding the deep target in the Arkanova Two Medicine Cut Bank Sand Unit consisted of the following activities:

1. *Obtain and correlate the logs from the Bugbee, Tribal 470 and Tribal 475 wells located in T33N R6W*
2. *Obtain the well information such as scout tickets and other information*

Gustavson Associates purchased and obtained raster logs for these three wells along with scout tickets and other information (including tops).

3. *Identify the formations that may have been tested in the above wells*

The scout ticket information was examined and plotted on the well logs in order to identify the intervals that tested oil or had oil shows in the three analog wells.

4. *Obtain the missing coordinate data for the 2D seismic lines 8413-19, 8413-23 and 8413-24 generally located in T33N R6W and T32N R6W*

The missing x,y coordinate data were obtained from the BIA in Lakewood, Colorado. 2D seismic lines 8413-19, 8413-23 & 8413-24 were then loaded onto the SMT workstation.

5. *Attempt to create a pseudo sonic log and derive a synthetic seismogram from the well log data*

The best log representation of the three analog wells was digitized. Sonic curves were not available so petrophysical cross plots were made from gamma and induction logs. These were compared to the wells to the south where sonic logs were available from the Amoco Blackfoot Tribal 1 well and the FX Drilling Tribal 1 well. When these comparisons were determined to be valid, a pseudo sonic was made of the Tribal 470 well.

6. *Estimate the seismic time interval of the formations tested in the above wells*

A synthetic seismogram was generated in the Tribal 470 well by using the above referenced pseudo sonic log. The correlation of the Exshaw and Three Forks Formations were established between 1.000 and 1.100 seconds on 2D seismic line 8413-19.

7. *Obtain additional wells as needed to construct a cross section to illustrate the stratigraphic interval*

Raster Logs from several additional wells were purchased and cross sections were constructed from the three analog wells through Arkanova's field.

8. *Jump correlate the seismic time interval from line to line towards the south near the subject Arkanova Cut Bank Field*

Jump correlations of the seismic reflectors for the Bow Island, Dakota, Sunburst Formations, and the Ellis Group and Madison Group, from 2D seismic line 8413-4 (located to the south) to 2D seismic lines 8413-19, 8413-23 and 8413-24 (located to the north) were established. These correlations very closely matched the correlation of the Tribal 470 well synthetic seismogram on 2D seismic line 8413-19 at SP 1102. The Exshaw and Three Forks Formations were then correlated onto 2D seismic line 8413-19 from the Tribal 470 well with a high degree of reliability. The Exshaw Formation (which tested oil in the Tribal 470) was determined to be seismically mappable. This Exshaw seismic reflector was then correlated to all the 2D seismic lines to the south. The presence of the Exshaw reflector on the eastern portions of 2D seismic lines 8413-7 and 8413-8 establishes that the Exshaw Formation is present on the western portion of the Two Medicine Cut Bank Sand Unit.

The Exshaw Formation from 2D seismic lines 8413-7 and 8413-8 was then jump correlated to the Kye Trout 3D seismic survey which is located 4 miles to the east along the eastern border of the Two Medicine Cut Bank Sand Unit. This establishes the likelihood of the presence of the Exshaw Formation along the eastern boundary of the Two Medicine Cut Bank Sand Unit.

A probable explanation for the occurrence of the oil tested in the wells in sections 6, 7 (Tribal 470), and 8 T33N-R6W is that these wells were drilled on a low relief structural closure. This structural closure appears to be coincident with a normal-fault bounded basement feature which is bounded to the north by a down to the north fault (SP 1050) and the south by a down to the south fault (SP 1210) along 2D seismic line 8413-19. These faults appear to have approximately 100-150 feet of throw.

Character ties and synthetic seismogram correlations were made among all the available seismic data.

9. *Recommend the depth to drill at the Arkanova Two Medicine Cut Bank Sand Unit in order to test the deeper section as seen in the wells in T33N R6W*

Exshaw Time maps were made from the 2D seismic and the 3D seismic data. These seismic maps were compared to the subsurface data and an estimate of the depth to target was concluded.

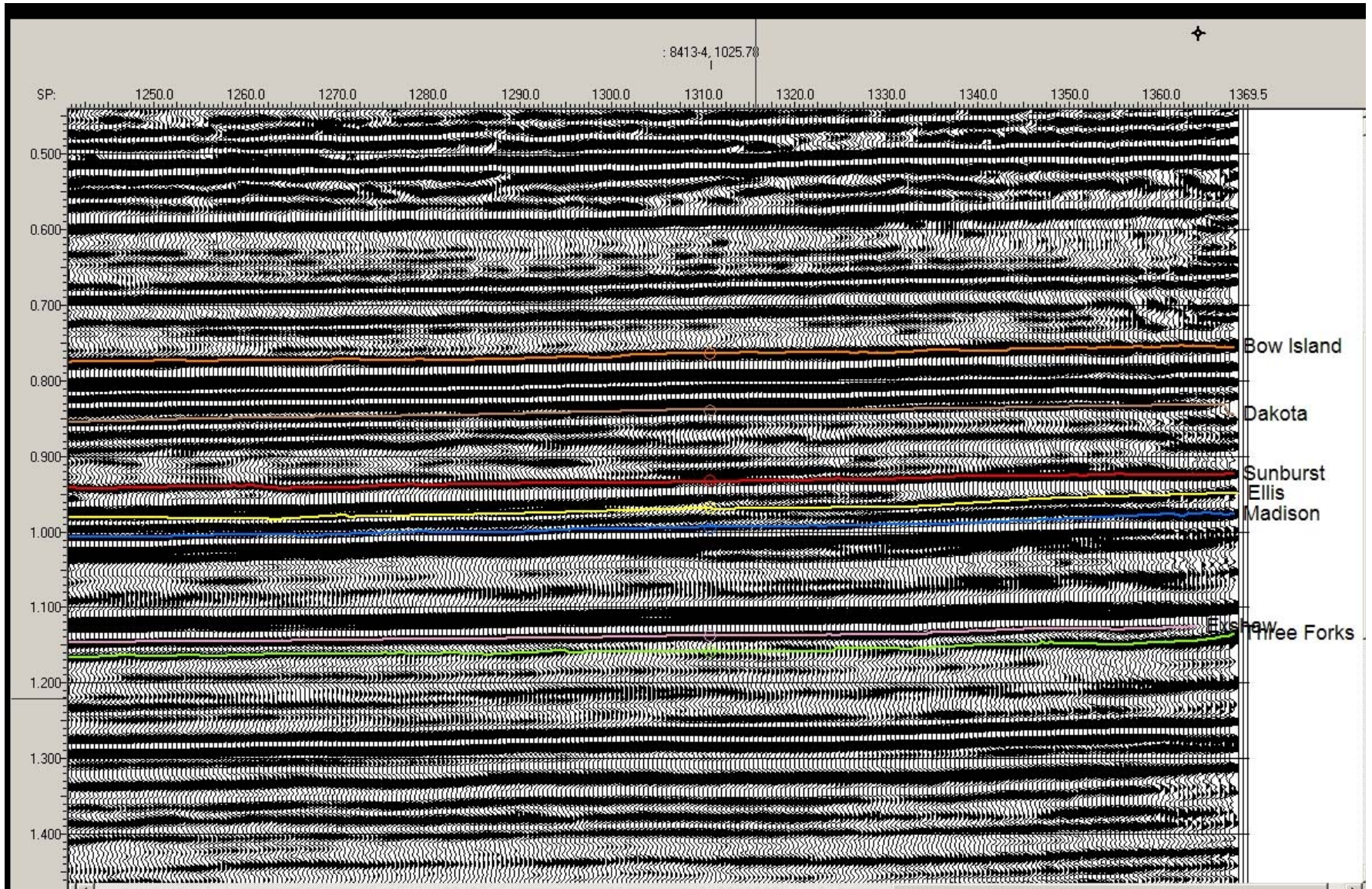
Included are the following appendices:

- I. Seismic Data
- II. Synthetic Log
- III. Seismic Horizon Maps
- IV. Cross Sections
- V. Scout Tickets
- VI. Stratigraphic Column
- VII. Bakken Shale Logs

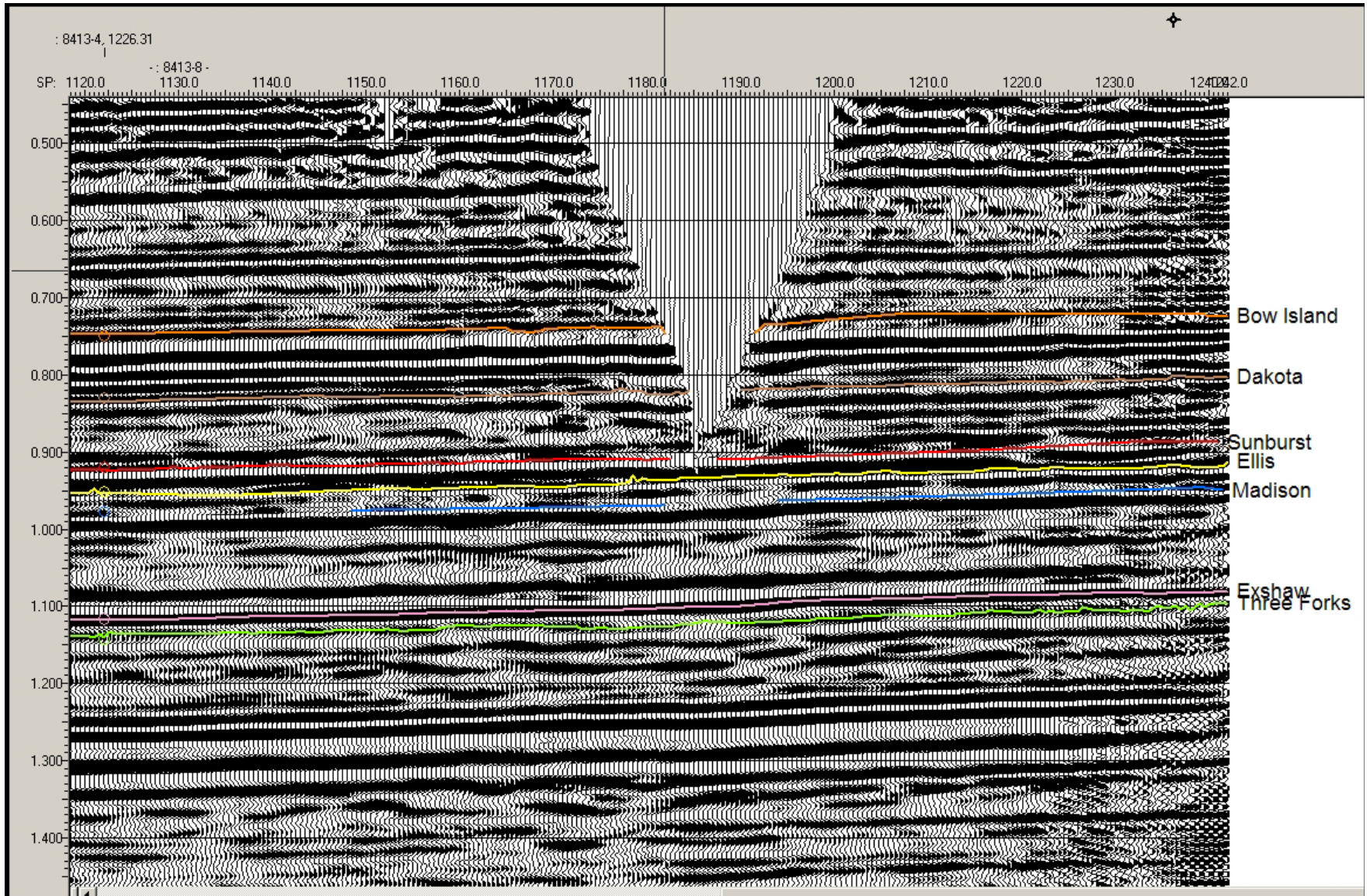
APPENDIX I

Seismic Data

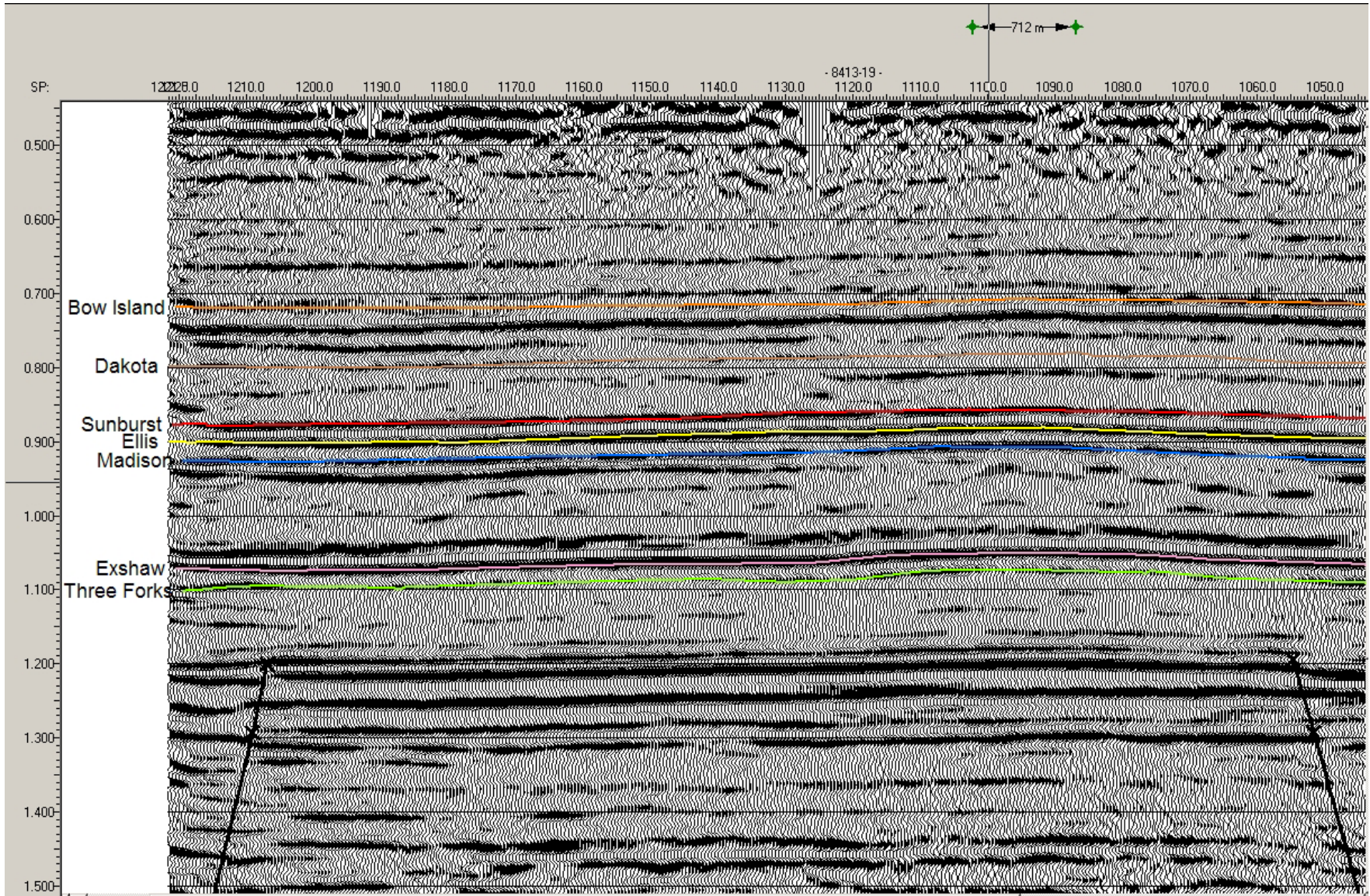
2-D Line 8413-5



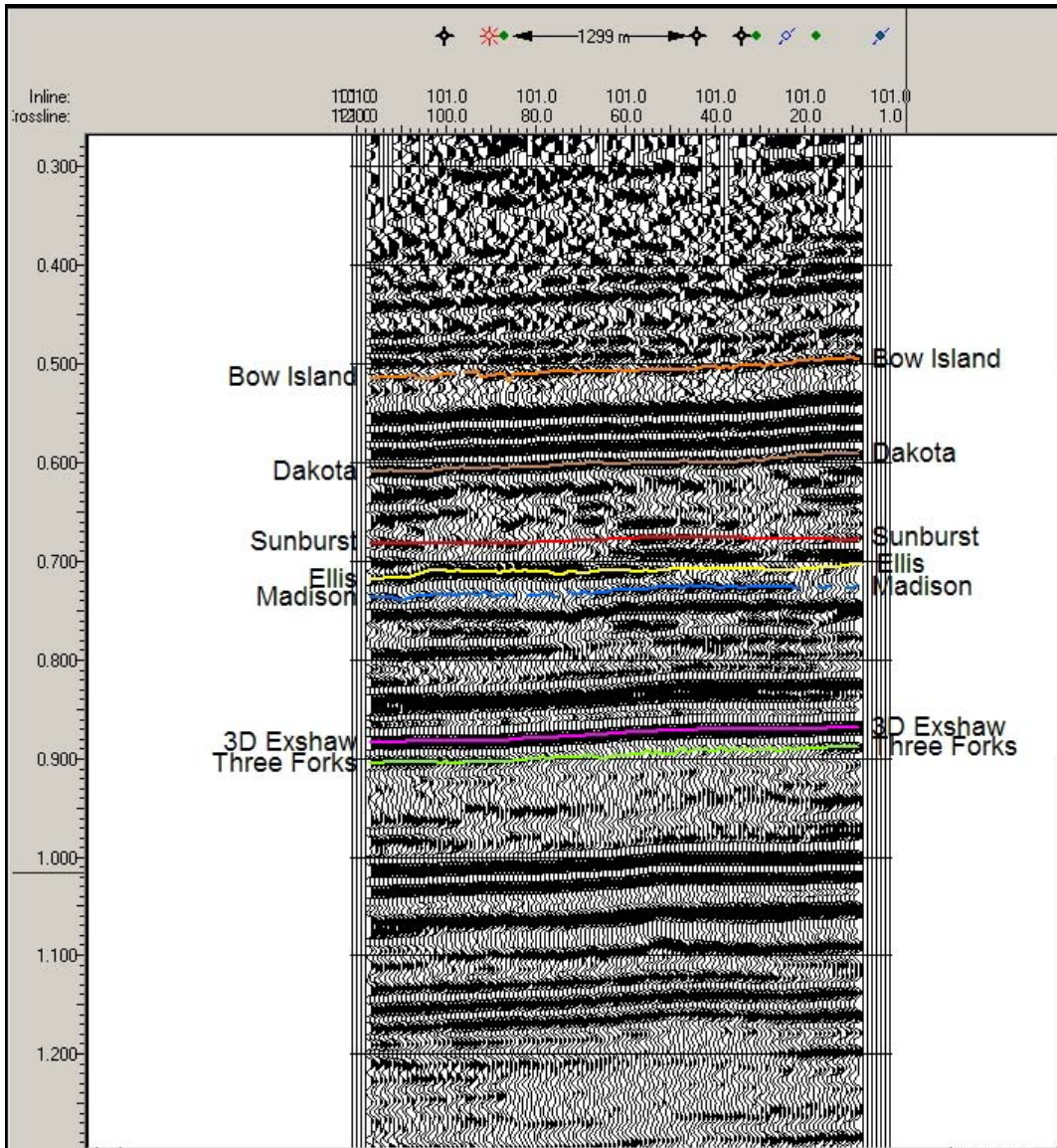
2-D Line 8413-8



2-D Line 8413-19



3-D Inline 101

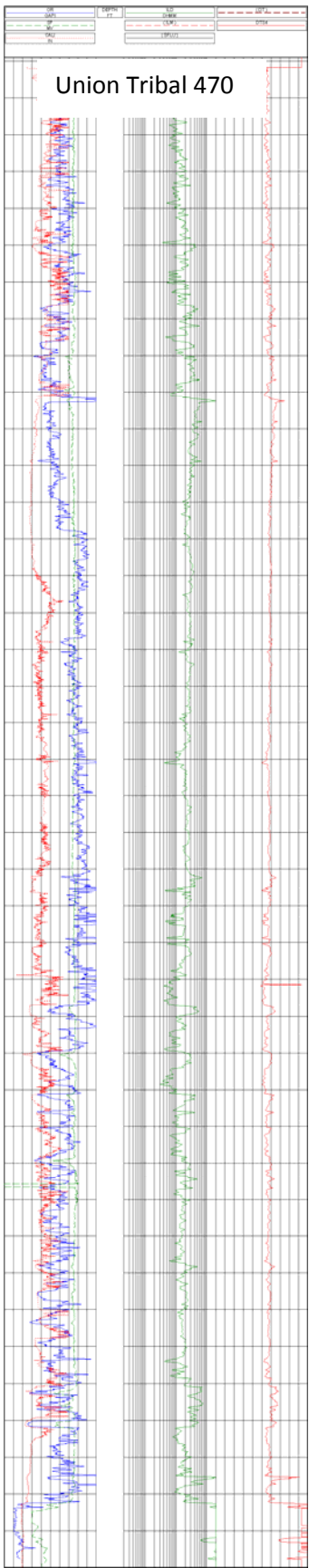


APPENDIX II

Synthetic Log

The best log representation of the three analog wells was digitized. This is the resulting calculated sonic log.

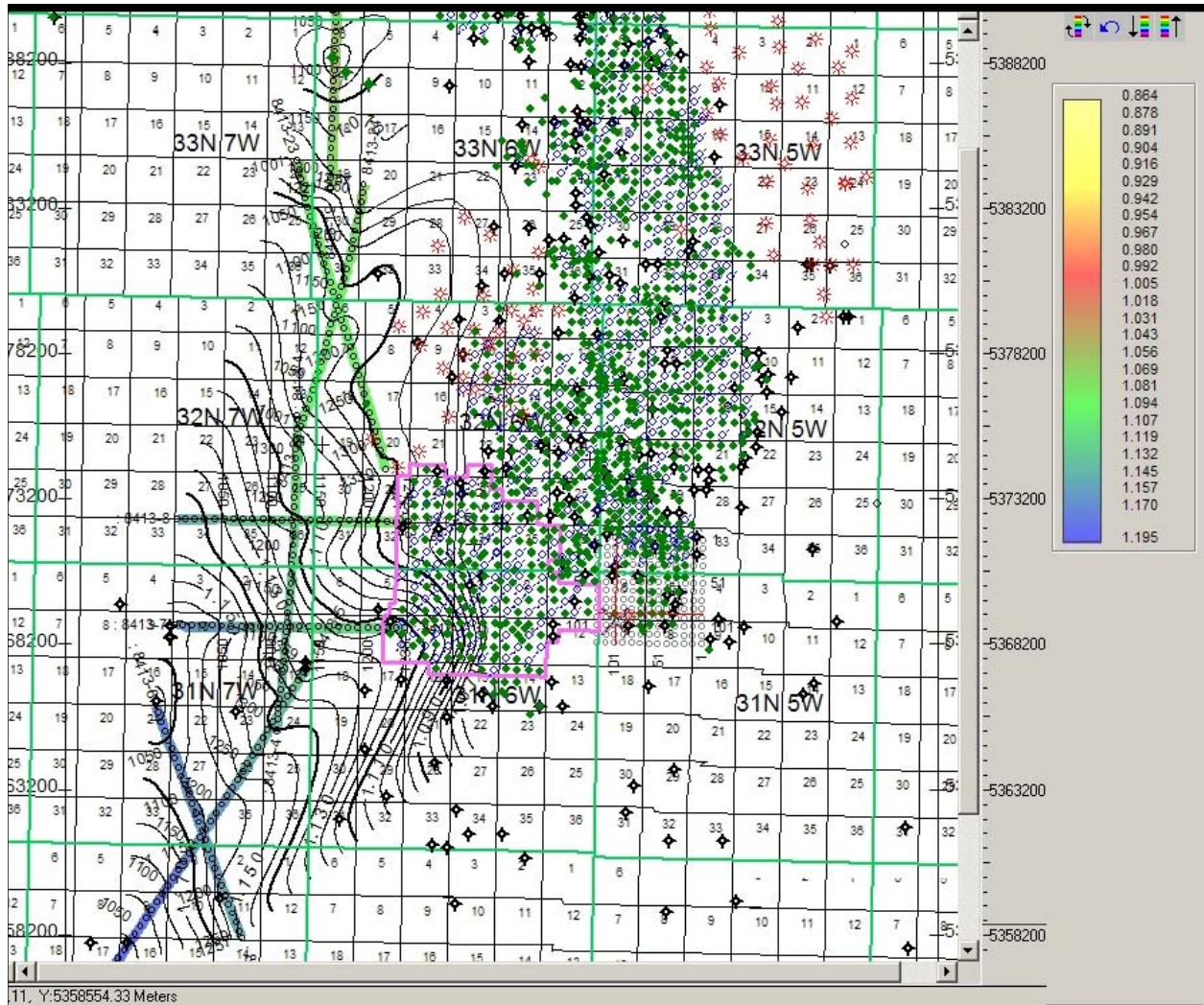
Sonic curves were not available so petrophysical cross plots were made from gamma and induction logs. These were compared to the wells to the south where sonic logs were available, Amoco Blackfeet Tribal 1 and FX Drilling Tribal 1. When these comparisons were determined to be valid, a synthetic sonic was made of the Tribal 470 well.



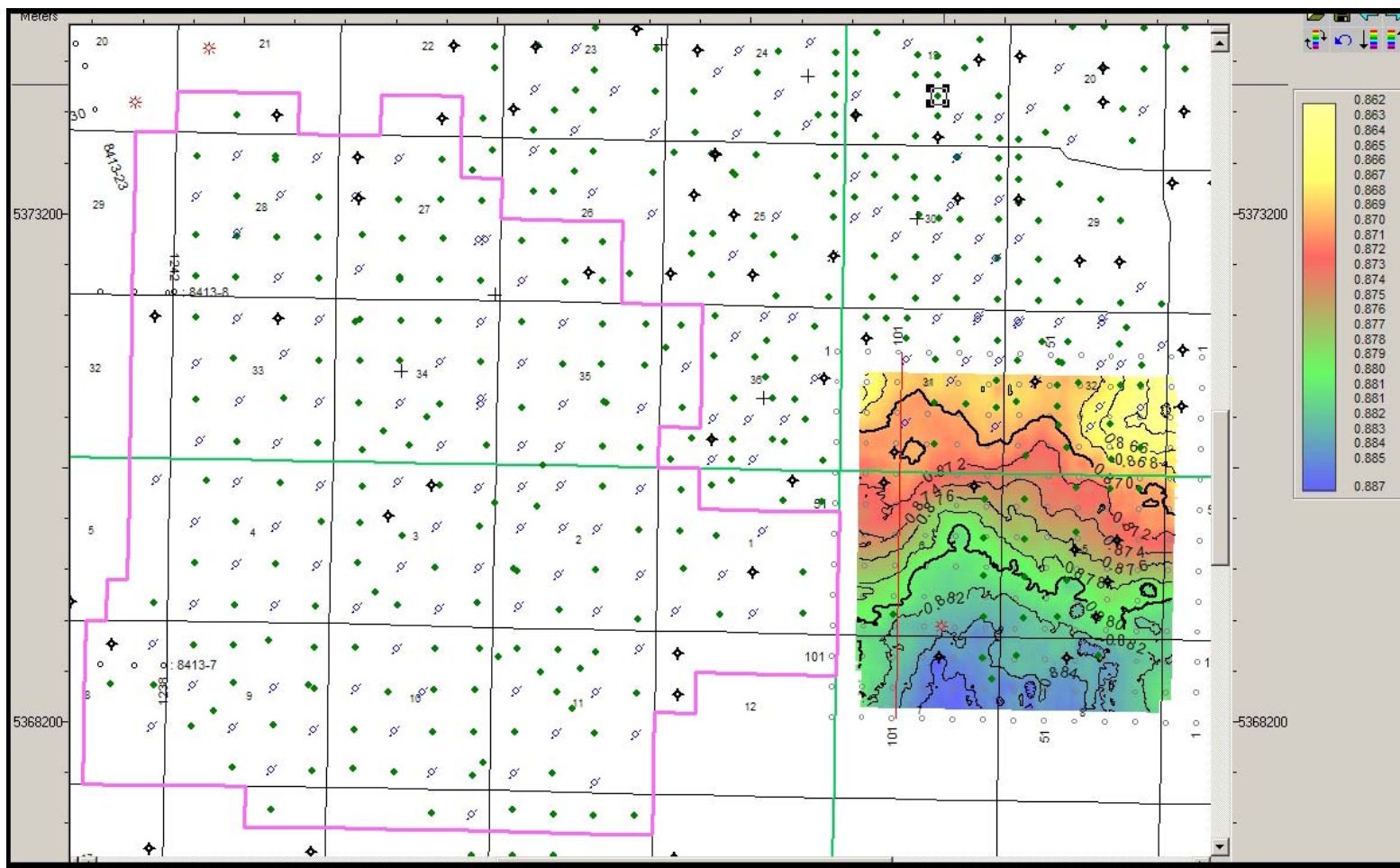
APPENDIX III

Seismic Horizon Maps

Exshaw Shale 2-D Time Structure



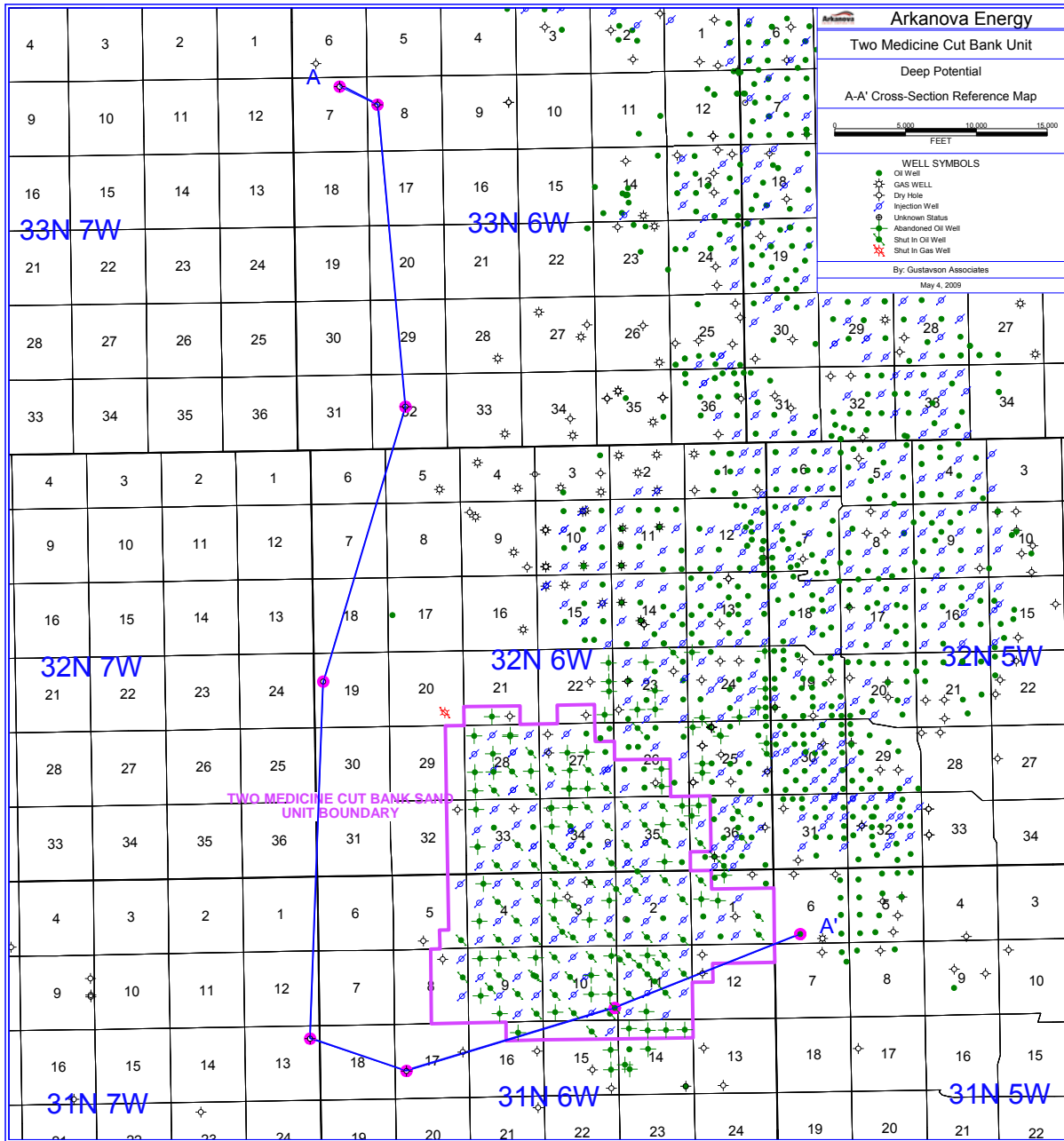
Exshaw Shale 3-D Time Structure



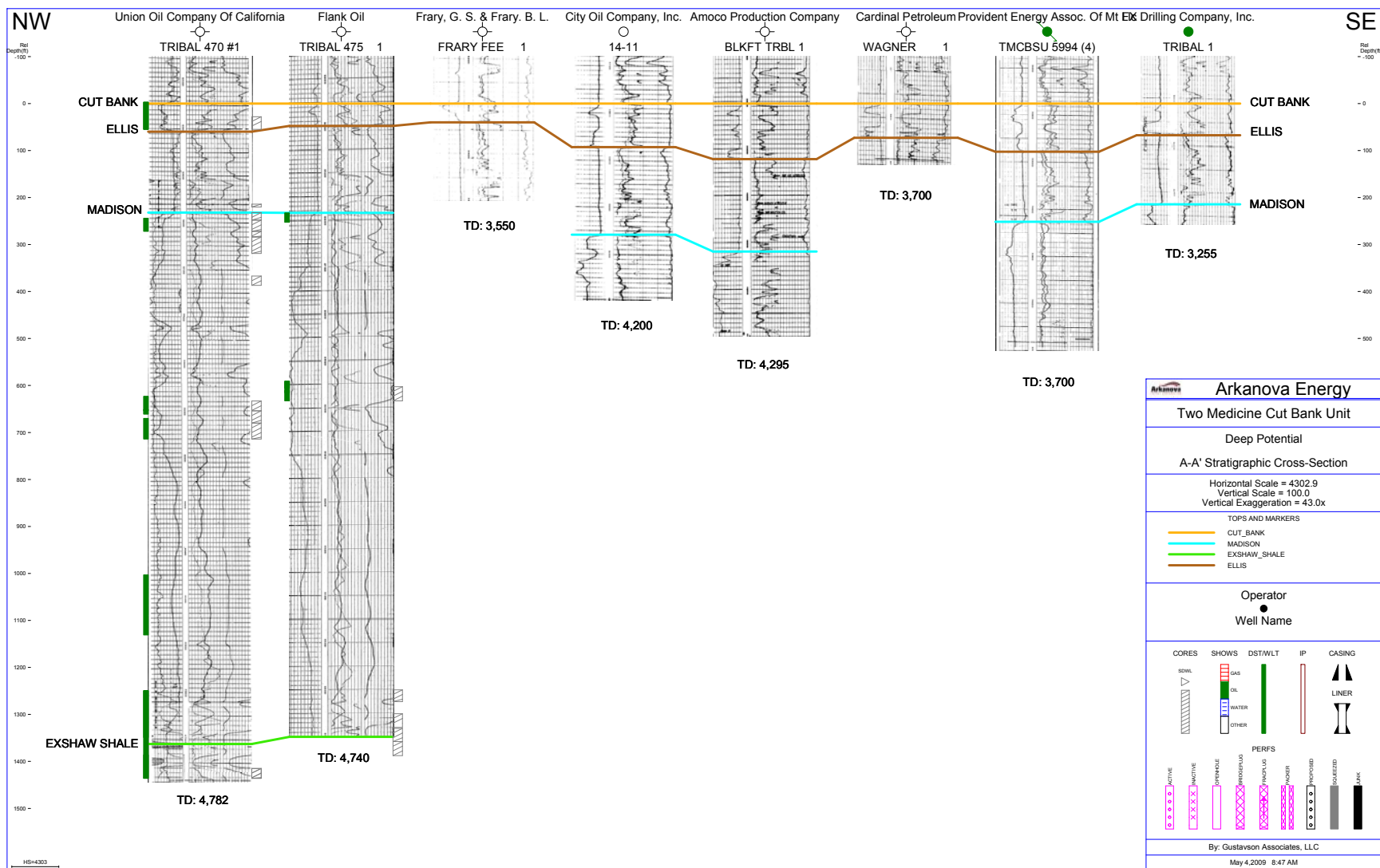
APPENDIX IV

Cross Sections

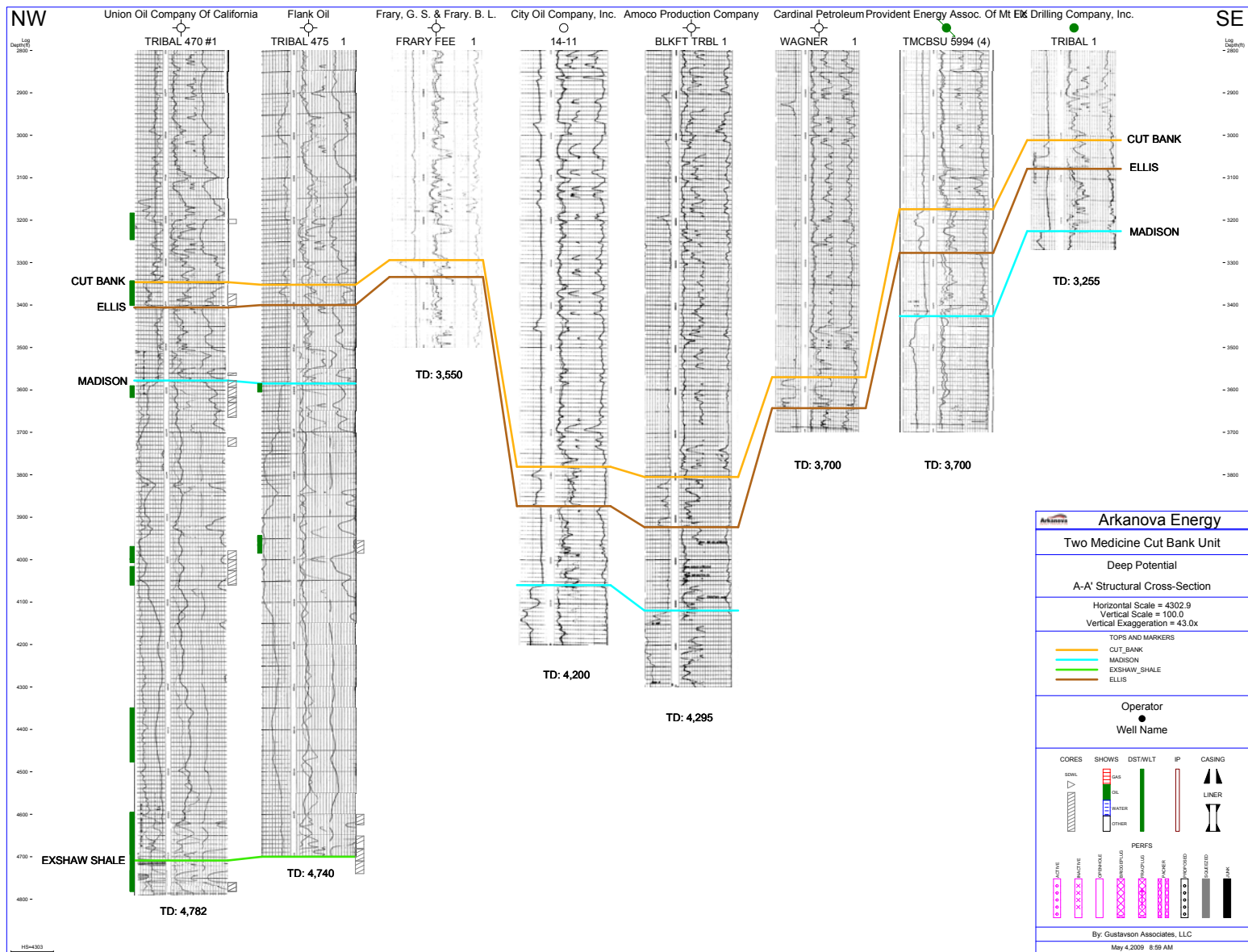
A-A' Cross-Section Reference Map



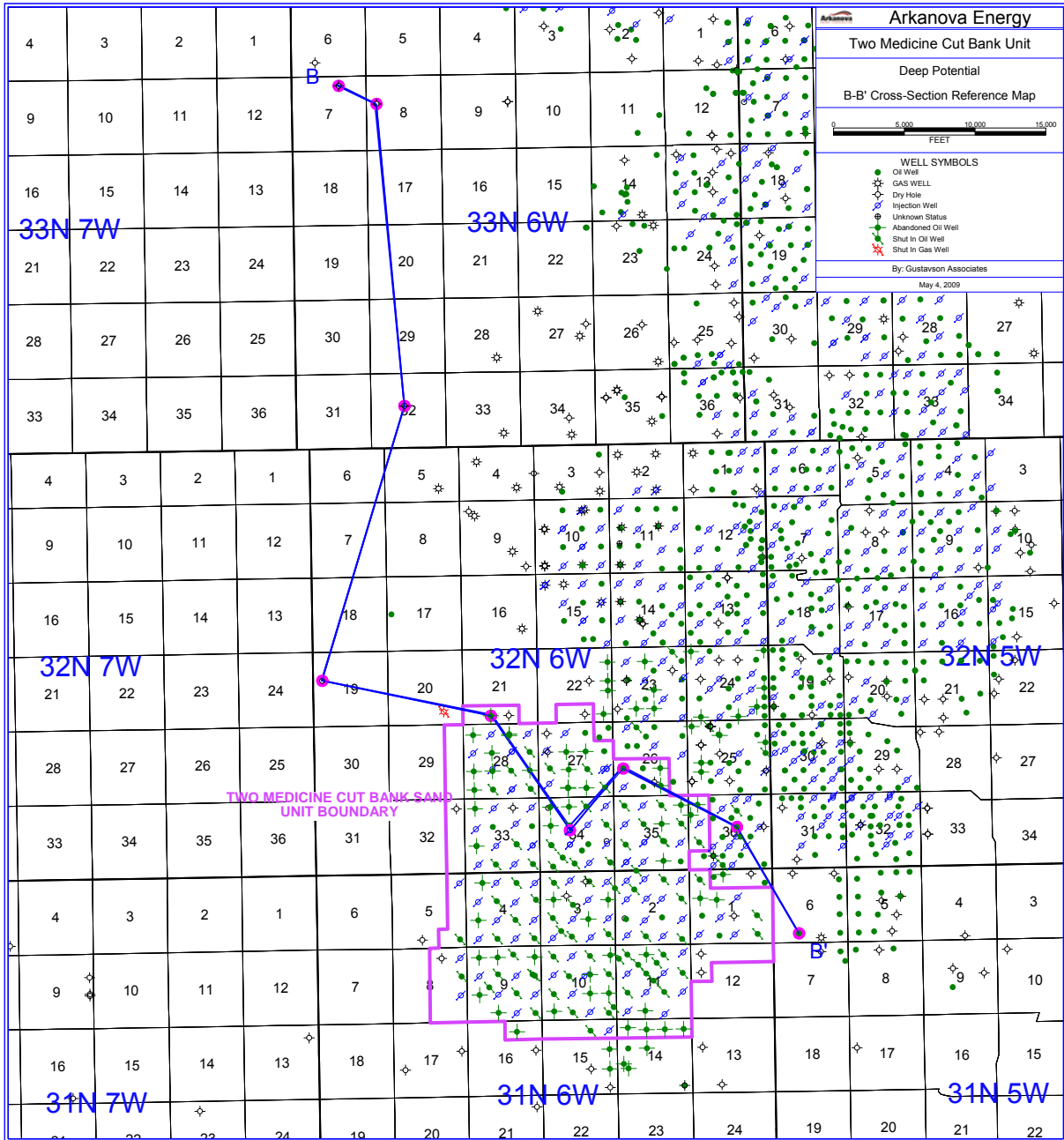
A- A' Stratigraphic Cross-Section



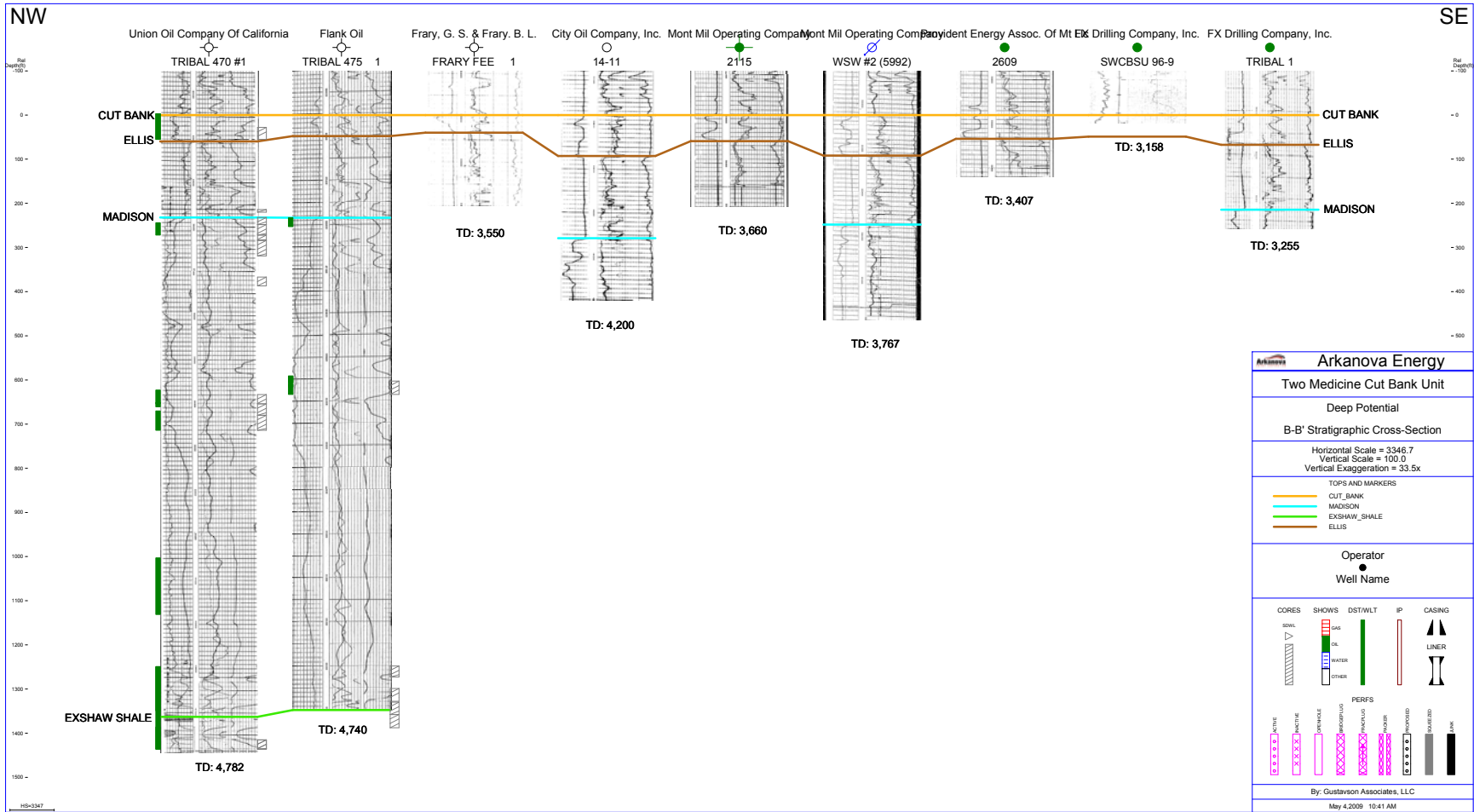
A- A' Structural Cross-Section



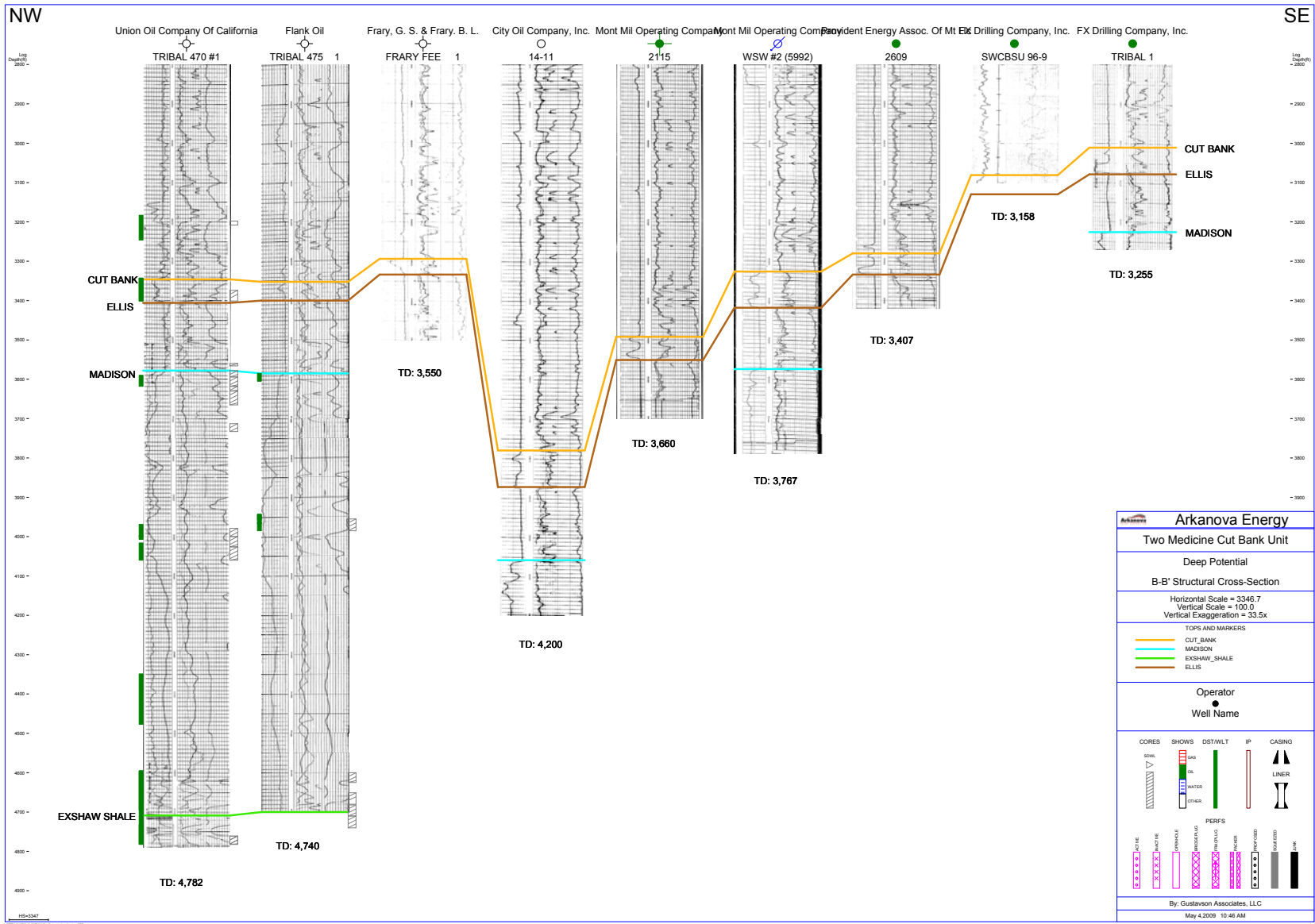
B-B' Cross-Section Reference Map



B to B' Stratigraphic Cross-Section



B to B' Structural Cross-Section



APPENDIX V

Scout Tickets

Scout Ticket



The Source for Critical Information and Insight™

Mon Mar 30, 2009

25035057940000

General Information

1 TRIBAL 475

Data Source:	PI	IC:	
API:	25035057940000	County:	GLACIER
State:	MONTANA	Operator:	FLANK OIL COMPANY
Field:		Final Well Class:	WF
Initial Class:	WF	Target Objective:	
Status:	D&A-O	Hole Direction:	VERTICAL
Permit:	on Sep 05, 1955	Abandonment Date:	
First Report Date:	Sep 01, 1972	Formation:	THREE FORKS
Projected TD:	4,750 FT		

IP Summary:

Oil:	Gas:	Water:	Top Form:	MADISON
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Location

Section, Twp., Range:	8 33N 6W	Data Source:	PI
Spot Code:	SW NW		
Footage NS EW Origin:	1980 FNL 680 FWL CONGRESS SECTION		
Principal Meridian:	MONTANA		
Lat/Long:	+48.6332397 -112.4254181	Lat/Long Source:	IH

Dates and Depths

Data Source:	PI	Spud Date Code:	
Spud:	Sep 15, 1955	TD Date:	
TD:	4,740 FT	PlugBack Depth:	
TVD:			

Scout Ticket

Mon Mar 30, 2009

Formation Code TD:	306TRFK	Formation Name TD:	THREE FORKS
Ref. Elevation:	3,909 FT DF	KB. Elevation:	
Ground Elevation:	3,902 FT GR	LTD:	4,732 FT
Contractor:		Final Drilling:	
Completed:	Dec 01, 1955	Rig #:	
Rig Release Date:			

Production Tests

PT: 001

Data Source:	PI	Top Formation Code:	359MDSN
Top Formation Name:	MADISON	Base Formation Code:	359MDSN
Base Formation Name:	MADISON	Condensate:	
Oil:		Water:	
Gas:		Method:	UNDESIGNATED
Interval:	3,943 - 3,958	Choke:	
Duration of Test:	Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	X
Prod Method:	PERF		

PT: 002

Data Source:	PI	Top Formation Code:	359MDSN
Top Formation Name:	MADISON	Base Formation Code:	359MDSN
Base Formation Name:	MADISON	Condensate:	
Oil:		Water:	
Gas:		Method:	UNDESIGNATED
Interval:	3,963 - 3,968	Choke:	
Duration of Test:	Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	X
Prod Method:	PERF		

Scout Ticket

Mon Mar 30, 2009

Remarks on PT Test: Data Source: PI SWBD 10BFPH

Perforations

Test	Data Source	Interval	Count	Type	Status	Shots/ Ft	Prod Method	Top Form Code	Top Form Name
001	PI	3943 - 3958				4 FT	PERF	359MDSN	MADISON
002	PI	3963 - 3968				4 FT	PERF	359MDSN	MADISON

Treatments

Treatment: 100

Data Source: Interval: 3,943 - 3,958

Fluid: 1,000 GAL ACID Type: A

Additive:

Prop Agent: Amount:

Form. Break Down Pressure:

Average Injection Rate:

Stages: Remarks:

Drill Stem Tests

Data Source: PI

DST: 001

Show: S Formation: MADISON

Interval: 3585 - 3605 BHT:

Choke: Top: Bottom:

Data Source: PI

DST: 002

Show: S Formation: MADISON

Interval: 3944 - 3985 BHT:

Choke: Top: Bottom:

Pipe Recovery

Data Source		Rec	
Test	Recovery	Type	Method
001	PI	180 FT	GCMZW
001	PI	675 FT	GCZW
002	PI	200 FT	HOCM

Pressure and Time

Data Source: PI

Test	Hydro		Init Flow		Final Flow		Shutin		Open Time		Shutin Time	
	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
001		1940	140	390				1140	60			15
002		1920	40	340				1050	60			15

Cores

CORE ID: 001

Formation: 359MDSN MADISON

Interval: 3955-3985

Rec: 30 FT

Core Type: CONV

Show Type: OIL

Description: 5 LM, LT GREY, XLN, MANY STYLS, SH PTGS
 HORZ FRACS, FOSS
 3 LM, AS ABOVE, PP PORO W/TRC OIL
 3.5 LM, AS ABOVE, FR PORO, BLDO THRUOUT
 HIGHLY FOSS
 4 LM, GREY XLN, PP PORO IN BANDS, VERT
 TYPE FRACS, SLI FOSS
 1.5 LM, GREY CRYPTOXLN, SLI PTGS, DNS
 6 LM, GREY, GENERALLY XLN, NUM FI STYLS
 SHALE BANDS

5 LM, DNS-CRYPTOXLN, SH PTGS
 2 LM, GREY XLN, GD-FR PORO, BLDO THRUOUT

Lithology:
Porosity:
Footage:
Show: BLDO **Dip:**

CORE ID: 002

Formation: 359MDSN MADISON
Interval: 4600-4625 **Rec: 25 FT**
Core Type: CONV **Show Type:**
Description: 25 LM, HD, DNS, TIGHT, BLK, PETROL ODOR

CORE ID: 003

Formation: 359MDSN MADISON
Interval: 4625-4650 **Rec: 25 FT**
Core Type: CONV **Show Type:**
Description: 25 AS ABOVE, SEE CORE NO 2, W/FEW INCLS
 & INTERBDD BLK CHERT FROM 4630-4643

CORE ID: 004

Formation: 359MDSN MADISON
Interval: 4651-4680 **Rec: 25 FT**
Core Type: CONV **Show Type: GODR**
Description: 25 LM, DNS, HD & TIGHT, FEW SCATT FISS
 W/GOOD ODOR

CORE ID: 005

Formation: 319EXSH EXSHAW
Interval: 4682-4710 **Rec: 28 FT**
Core Type: CONV **Show Type:**

Scout Ticket

Mon Mar 30, 2009

Description:	28 LM, LT GREY, DNS & TIGHT		
CORE ID: 006			
Formation:	306TRFK THREE FORKS		
Interval:	4710-4740	Rec:	30 FT
Core Type:	CONV	Show Type:	
Description:	0.25 LIMESTONE AS ABOVE SEE CORE NO 5		
	6 SHALE		
	13 SHALE, LIMY		
	10.75 SHALE GREEN		

Casing, Liner, Tubing

Casing	Size	Base Depth	Cement
CASING	10 3/4 IN	268 FT	100 SACK
CASING	5 1/2 IN	4,020 FT	150 SACK

Formations

Form Code	Data Source	Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age Code
604EGLE	PI	EAGLE	660				LOG		604
604EGLE	PI	EAGLE	690				SPL		604
603CLRDN	PI	COLORADO /COLO GROUP/ COLORADOAN/	990				LOG		603
603CLRDN	PI	COLORADO /COLO GROUP/ COLORADOAN/	990				SPL		603
602BCKF	PI	BLACKLEAF	1,920				LOG		602
602BCKF	PI	BLACKLEAF	1,940				SPL		602
602KOTN	PI	KOOTENAI	2,793				LOG		602
602CBNK	PI	CUTBANK /CUT BANK/	3,312				LOG		602
602CBNK	PI	CUTBANK /CUT BANK/	3,375				SPL		602
553ELLS	PI	ELLIS /GROUP/	3,400				LOG		553
553ELLS	PI	ELLIS /GROUP/	3,415				SPL		553

Scout Ticket

Mon Mar 30, 2009

Form Code	Data Source	Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age Code
359MDSN	PI	MADISON		3,585			LOG		359
359MDSN	PI	MADISON		3,590			SPL		359
319EXSH	PI	EXSHAW		4,700			LOG		319
306TRFK	PI	THREE FORKS		4,710			LOG		306

Logs

Data Source		Log	Type	Top Depth	Base Depth	Logging Co.	BHT	since circ.
1	PI		EL			153789		

Dwights Energydata Narrative

Accumulated through 1997

Scout Ticket

Mon Mar 30, 2009

25035058080000

General Information

1 TRIBAL 470

Data Source:	PI	IC:	
API:	25035058080000	County:	GLACIER
State:	MONTANA	Operator:	UNION OIL CO OF CAL
Field:	WILDCAT	Final Well Class:	WF
Initial Class:	WF	Target Objective:	O&G
Status:	D&A-OG	Hole Direction:	VERTICAL
Permit:	on May 12, 1954	Abandonment Date:	
First Report Date:	Sep 01, 1972	Formation:	POTLATCH
Projected TD:	4,800 FT		

IP Summary:

Oil:	14 BBL	Gas:		Water:	5 BBL	Top Form:	DEVONIAN
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Location

Section, Twp., Range:	7 33N 6W	Data Source:	PI
Spot Code:	C NW NE		
Footage NS EW Origin:	660 FNL 1980 FEL CONGRESS SECTION		
Principal Meridian:	MONTANA		
Lat/Long:	+48.6369107 -112.4363840	Lat/Long Source:	IH

Location Narrative

Data Source	Type	Remark
PI	SCALED_FOOT	REGULATORY
PI	IRREG_SECT	N
PI	DST_TOWN	4.8 MI W CUT BANK, MT

Scout Ticket

Mon Mar 30, 2009

Data Source	Type	Remark
PI	DST_FIELD	2.7 MI SW CUT BANK FLD(CUTBANK /CUT BANK/)
Dates and Depths		
Data Source:	PI	
Spud:	May 22, 1954	Spud Date Code: A
TD:	4,782 FT	TD Date:
TVD:		PlugBack Depth:
Formation Code TD:	306PTLC	Formation Name TD: POTLATCH
Ref. Elevation:	3,912 FT DF	KB. Elevation:
Ground Elevation:	3,905 FT GR	LTD:
Contractor:	KRUGLER DRILLING	
Completed:	Oct 08, 1954	Final Drilling:
Rig Release Date:		Rig #:
Production Tests		
PT: 001		
Data Source:	PI	
Top Formation Name:	DEVONIAN	Top Formation Code: 309DVNN
Base Formation Name:	DEVONIAN	Base Formation Code: 309DVNN
Oil:	14 BBL	Condensate:
Gas:		Water:
Interval:	4,595 - 4,782	Method: SWABBING
Duration of Test:	12 Hours	Choke:
Oil Gravity:		GOR:
Cond Gravity:		Cond Ratio:
Prod Method:	OPENHOLE	Main Fluid Code:
PT: 002		
Data Source:	PI	
Top Formation Name:	DEVONIAN	Top Formation Code: 309DVNN

Scout Ticket

Mon Mar 30, 2009

Base Formation Name: DEVONIAN
Oil: 20 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 12 Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Base Formation Code: 309DVNN
Condensate:
Water:
Method: SWABBING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 003

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 32 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 10 Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: SWABBING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 004

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 10 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 10 Hours
Oil Gravity:
Cond Gravity:

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: SWABBING
Choke:
GOR:
Cond Ratio:

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Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 005			
Data Source:	PI		
Top Formation Name:	DEVONIAN	Top Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Oil:	11 BBL	Condensate:	
Gas:		Water:	
Interval:	4,595 - 4,782	Method:	SWABBING
Duration of Test:	Hours	Choke:	
Oil Gravity:		GOR:	
Cond Gravity:		Cond Ratio:	
Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 006			
Data Source:	PI		
Top Formation Name:	DEVONIAN	Top Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Oil:	44 BBL	Condensate:	
Gas:		Water:	
Interval:	4,595 - 4,782	Method:	FLOWING
Duration of Test:	1 Hours	Choke:	
Oil Gravity:		GOR:	
Cond Gravity:		Cond Ratio:	
Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 007			
Data Source:	PI		
Top Formation Name:	DEVONIAN	Top Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Oil:	516 BBL	Condensate:	
Gas:		Water:	

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Interval: 4,595 - 4,782
Duration of Test: 24 Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Method: FLOWING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 008

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 6 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 3 Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: SWABBING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 009

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 225 BPD
Gas:
Interval: 4,595 - 4,782
Duration of Test: Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: SWABBING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 010

Data Source: PI

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Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 6 BPD
Gas:
Interval: 4,595 - 4,782
Duration of Test: Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: SWABBING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 011

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 6 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 24 Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: SWABBING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 012

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 5 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 4 Hours
Oil Gravity:

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water: 5 BBL
Method: BAILING
Choke:
GOR:

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Cond Gravity:		Cond Ratio:	
Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 013			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	50 BBL	Water:	
Gas:		Method:	SWABBING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	8 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		
PT: 014			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	8 BBL	Water:	
Gas:		Method:	SWABBING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	8 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		
PT: 015			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	28 BBL		

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Gas:		Water:	
Interval:	4,595 - 4,782	Method:	PUMPING
Duration of Test:	24 Hours	Choke:	
Oil Gravity:		GOR:	
Cond Gravity:		Cond Ratio:	
Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 016			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	27 BBL	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	24 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		
PT: 017			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	24 BBL	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	24 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		
PT: 018			

Scout Ticket

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Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 17 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 24 Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 019

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 14 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 24 Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 020

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 15 BBL
Gas:
Interval: 4,595 - 4,782
Duration of Test: 24 Hours

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:

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Oil Gravity:		GOR:	
Cond Gravity:		Cond Ratio:	
Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 021			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	6 BBL	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	24 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		
PT: 022			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	11 BBL	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	24 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		
PT: 023			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN		

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Oil:	6 BBL	Condensate:	
Gas:		Water:	
Interval:	4,595 - 4,782	Method:	PUMPING
Duration of Test:	24 Hours	Choke:	
Oil Gravity:		GOR:	
Cond Gravity:		Cond Ratio:	
Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 024			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	6 BBL	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	24 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		
PT: 025			
Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	9 BBL	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	24 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		

Scout Ticket

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PT: 026

Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	9 BPD	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		

PT: 027

Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	6 BPD	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782	Choke:	
Duration of Test:	Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		

PT: 028

Data Source:	PI	Top Formation Code:	309DVNN
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN
Base Formation Name:	DEVONIAN	Condensate:	
Oil:	5 BPD	Water:	
Gas:		Method:	PUMPING
Interval:	4,595 - 4,782		

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Duration of Test: Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 029

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 3 BPD
Gas:
Interval: 4,595 - 4,782
Duration of Test: Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 030

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 3 BPD
Gas:
Interval: 4,595 - 4,782
Duration of Test: Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 031

Data Source: PI
Top Formation Name: DEVONIAN

Top Formation Code: 309DVNN

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Base Formation Name: DEVONIAN
Oil: 1 BPD
Gas:
Interval: 4,595 - 4,782
Duration of Test: Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 032

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 1 BPD
Gas:
Interval: 4,595 - 4,782
Duration of Test: Hours
Oil Gravity:
Cond Gravity:
Prod Method: OPENHOLE

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:
GOR:
Cond Ratio:
Main Fluid Code:

PT: 033

Data Source: PI
Top Formation Name: DEVONIAN
Base Formation Name: DEVONIAN
Oil: 1 BPD
Gas:
Interval: 4,595 - 4,782
Duration of Test: Hours
Oil Gravity:
Cond Gravity:

Top Formation Code: 309DVNN
Base Formation Code: 309DVNN
Condensate:
Water:
Method: PUMPING
Choke:
GOR:
Cond Ratio:

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Prod Method:	OPENHOLE	Main Fluid Code:				
PT: 034						
Data Source:	PI	Top Formation Code:	309DVNN			
Top Formation Name:	DEVONIAN	Base Formation Code:	309DVNN			
Base Formation Name:	DEVONIAN	Condensate:				
Oil:	2 BBL	Water:	1 BBL			
Gas:		Method:	BAILING			
Interval:	4,595 - 4,782	Choke:				
Duration of Test:	Hours	GOR:				
Oil Gravity:		Cond Ratio:				
Cond Gravity:		Main Fluid Code:				
Prod Method:	OPENHOLE					
PT: 035						
Data Source:	PI	Top Formation Code:	359MDSN			
Top Formation Name:	MADISON	Base Formation Code:	359MDSN			
Base Formation Name:	MADISON	Condensate:				
Oil:	0 BPH	Water:	50 BBL			
Gas:		Method:	SWABBING			
Interval:	3,997 - 4,007	Choke:				
Duration of Test:	Hours	GOR:				
Oil Gravity:		Cond Ratio:				
Cond Gravity:		Main Fluid Code:				
Prod Method:	PERF					
Bottom Hole Pressures						
Data Source						
Test	Data Source	FBHP	BHT	Depth	Period	Description
024	PI	22 PSIG	102 FAR			
034	PI	75 PSIG				

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Perforations

Test	Data Source		Shots/ Ft	Prod Method	Top Form Code	Top Form Name
	Interval	Count Type Status				
001	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
002	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
003	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
004	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
005	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
006	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
007	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
008	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
009	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
010	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
011	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
012	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
013	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
014	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
015	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
016	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
017	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
018	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
019	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
020	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
021	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
022	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
023	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
024	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
025	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN
026	PI	4595 - 4782		OPENHOLE	309DVNN	DEVONIAN

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Test	Data Source	Interval	Count	Type	Status	Shots/ Ft	Prod Method	Top Form Code	Top Form Name
027	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
028	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
029	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
030	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
031	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
032	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
033	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
034	PI	4595 - 4782					OPENHOLE	309DVNN	DEVONIAN
035	PI	3997 - 4007				4 FT	PERF	359MDSN	MADISON

Treatments

Treatment: 100

Data Source: **Interval:** 4,595 - 4,782

Fluid: 2,000 GAL **ACID** **Type:** A

Additive:

Prop Agent: **Amount:**

Form. Break Down Pressure:

Average Injection Rate:

Stages: **Remarks:**

Treatment: 101

Data Source: **Interval:** 4,595 - 4,782

Fluid: 10,000 GAL **FRAC** **Type:** A

Additive:

Prop Agent: SAND **Amount:** 5,000 LB

Form. Break Down Pressure:

Average Injection Rate:

Stages: **Remarks:**

Treatment: 102

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Data Source: **Interval:** 3,997 - 4,007
Fluid: 1,000 GAL **ACID** **Type:** A
Additive:
Prop Agent: **Amount:**
Form. Break Down Pressure:
Average Injection Rate:
Stages: **Remarks:**

Drill Stem Tests

Data Source: PI

DST: 001

Show: S **Formation:** CUTBANK /CUT BANK/
Interval: 3343 - 3401 **BHT:**
Choke: Top: **Bottom:**

Data Source: PI

DST: 002

Show: S **Formation:** LANDER SD /MT/
Interval: 3183 - 3246 **BHT:**
Choke: Top: **Bottom:**

Data Source: PI

DST: 003

Show: **Formation:**
Interval: - **BHT:**
Choke: Top: **Bottom:**

Data Source: PI

WLT: 003

Show: **Formation:**
Interval: - **BHT:**
Choke: Top: **Bottom:**

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Data Source: PI

DST: 004

Show: S
Interval: 3590 - 3618
Choke: Top:

Formation: MADISON
BHT:
Bottom:

Data Source: PI

DST: 005

Show: S
Interval: 3969 - 4000
Choke: Top:

Formation: MADISON
BHT:
Bottom:

Data Source: PI

DST: 006

Show: S
Interval: 4016 - 4060
Choke: Top:

Formation: MADISON
BHT:
Bottom:

Data Source: PI

DST: 007

Show:
Interval: 4349 - 4477
Choke: Top:

Formation: MADISON
BHT:
Bottom:

Data Source: PI

DST: 008

Show: S
Interval: 4596 - 4695
Choke: Top:

Formation: MADISON
BHT:
Bottom:

Data Source: PI

DST: 009

Show: **Formation:** THREE FORKS

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Interval: 4732 - 4782

BHT:

Choke: Top:

Bottom:

Pipe Recovery

Data Source		Rec		
Test		Recovery	Type	Method
001	PI	250 FT	GCM	PIPE
001	PI	630 FT	GCXW	PIPE
004	PI	300 FT	WM	PIPE
004	PI	2,220 FT	GCZW	PIPE
005	PI	100 FT	GCM	PIPE
006	PI	150 FT	SGCM	PIPE
006	PI	40 FT	SGCZW	PIPE
007	PI	10 FT	M	PIPE
008	PI	150 FT	M	PIPE
008	PI	65 FT	SOCM	PIPE
008	PI	400 FT	HOCM	PIPE
008	PI	3,200 FT	MCO	PIPE
009	PI	10 FT	M	PIPE

Materials to Surface

Data Source		Amount	
Test	Fluid	To Surface	
008	PI GAS	9 MIN	

Period Analysis

Data Source: PI

Water: Tot: Temp: Resist.:

Pressure and Time

Data Source: PI

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Test	Hydro		Init Flow		Final Flow		Shutin		Open Time		Shutin Time	
	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
001		1745	20	405				895	90			30
002												
003		1905						1155				60
003												
004		1940	50	1020				1175	120			60
005		2200	20	70				1280	120			60
006		2270	40	265				1365	20			15
007		2570		10				35	120			60
008	2610	2600	1235	1475				1640	120			60
009				0				0	120			60

Cores

CORE ID: 001

Formation: 602LNDR LANDER SD /MT/

Interval: 3198-3208

Rec: 0 FT

Core Type: CONV

Show Type:

Description: NO RECOVERY

CORE ID: 002

Formation: 602CBNK CUTBANK /CUT BANK/

Interval: 3322-3374

Rec: 52 FT

Core Type: CONV

Show Type:

Description: 1 SANDSTONE, FINE GRAINED
16.25 SHALE, MTL D
34.75 SANDSTONE, LT GREY, FI-MED GRND

CORE ID: 003

Formation: 602CBNK CUTBANK /CUT BANK/

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Interval: 3374-3401 **Rec:** 26 FT
Core Type: CONV **Show Type:**
Description: 11 SS, FI-MED GRND, LAM W/SHALE
12.5 SS, MED GREY, MED-CRSE GRND
2.5 CONGLOMERATE

CORE ID: 004

Formation: 553ELLS ELLIS /GROUP/
Interval: 3560-3566 **Rec:** 6 FT
Core Type: CONV **Show Type:**
Description: 6 SHALE, BLACK

CORE ID: 005

Formation: 359MDSN MADISON
Interval: 3578-3594 **Rec:** 16 FT
Core Type: CONV **Show Type:** OIL
Description: 9 LM, ARG, HD, DNS W/SOME LIVE OIL IN
BEDDED PLANES
4 LM, AS ABOVE W/FAC LEAVING FODR & STNG
1 LM & SHALE
2 LIMESTONE, MED XLN, FAIR PORO, FAIR STN
GOOD STN ON FRESH BREAKS

CORE ID: 006

Formation: 359MDSN MADISON
Interval: 3594-3918 **Rec:** 24 FT
Core Type: CONV **Show Type:** OSTN
Description: 4, LM, HD, GREY, FAIR INT-XLN PORO, SOME
LIVE OSTN & MUCH DOIL STN, GFLU
20 LM, AS ABOVE W/SULF ODOR

CORE ID: 007

Formation: 359MDSN MADISON
Interval: 3618-3630 **Rec:** 12 FT
Core Type: CONV **Show Type:**
Description: 5.5 LM, TIGHT, GREY, MED-CRSE XLN, SOME
 VERT FRAC, FR-GD INT-XLN PORO, BLK SULF STN
 6.5 LM, AS ABOVE, FI-XLN 2 FT IS
 CHERTY IN BOTTOM

CORE ID: 008

Formation: 359MDSN MADISON
Interval: 3630-3665 **Rec:** 35 FT
Core Type: CONV **Show Type:** ODOR
Description: 7 LM, LT GREY, MED-FN XLN, CHERTY, SULF ODOR
 28 LM, LT GREY, V HD & FNLY XLN, CHERTY
 STYL, OCC SH PTGS, UP TO 1/2 INCH IN
 THICKNESS, BTM 5 FT HAS MANY 1-2 MM VUGS

CORE ID: 009

Formation: 359MDSN MADISON
Interval: 3713-3733 **Rec:** 20 FT
Core Type: CONV **Show Type:**
Description: 16.5 LIMESTONE, HARD
 3.5 LIMESTONE, V FNLY XLN, SOME PP PORO

CORE ID: 010

Formation: 359MDSN MADISON
Interval: 3979-4000 **Rec:** 20 FT
Core Type: CONV **Show Type:** BLDO
Description: 20 LM, LT GREY, CRSE XLN, BLDG & PORO ON SPOTS

Scout Ticket

Mon Mar 30, 2009

CORE ID: 011

Formation: 359MDSN MADISON
Interval: 4000-4026 **Rec:** 26 FT
Core Type: CONV **Show Type:** OSTN
Description: 26 LIMESTONE, GD STN

CORE ID: 012

Formation: 359MDSN MADISON
Interval: 4026-4060 **Rec:** 34 FT
Core Type: CONV **Show Type:**
Description: 34 LIMESTONE

CORE ID: 013

Formation: 306PTLC POTLATCH
Interval: 4761-4782 **Rec:** 21 FT
Core Type: CONV **Show Type:**
Description: 21 ANHYDRITE W/SHALE STRINGERS

Casing, Liner, Tubing

Casing	Size	Base Depth	Cement
CASING	10 3/4 IN	340 FT	145 SACK
CASING	5 1/2 IN	4,595 FT	185 SACK

Participating Interests Journal

Participating Interests	#	Remark
	1	PART INTERESTS- CARTER OIL

Formations

Form Code	Data Source Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age Code
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Scout Ticket

Mon Mar 30, 2009

Form Code	Data Source	Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age Code
603CLRDN	PI	COLORADO /COLO GROUP/ COLORADOAN/	990				LOG		603
603CLRDN	PI	COLORADO /COLO GROUP/ COLORADOAN/	990				SPL		603
602BCKF	PI	BLACKLEAF	1,930				LOG		602
602BCKF	PI	BLACKLEAF	1,970				SPL		602
602KOTN	PI	KOOTENAI	2,720				SPL		602
602KOTN	PI	KOOTENAI	2,790				LOG		602
602MLTN	PI	MOULTON	3,152				LOG		602
602LNDR	PI	LANDER SD /MT/	3,190				LOG		602
602SBRS	PI	SUNBURST	3,298				LOG		602
602CBNK	PI	CUTBANK /CUT BANK/	3,340				SPL		602
602CBNK	PI	CUTBANK /CUT BANK/	3,346				LOG		602
553ELLS	PI	ELLIS /GROUP/	3,404				LOG		553
359MDSN	PI	MADISON	3,574				SPL		359
359MDSN	PI	MADISON	3,578				LOG		359
319EXSH	PI	EXSHAW	4,618				SPL		319
319EXSH	PI	EXSHAW	4,709				LOG		319
306TRFK	PI	THREE FORKS	4,718				LOG		306
306TRFK	PI	THREE FORKS	4,718				SPL		306
306PTLC	PI	POTLATCH	4,761				SPL		306
306PTLC	PI	POTLATCH	4,765				LOG		306

Logs

Data Source		Type	Top Depth	Base Depth	Logging Co.	BHT	since circ.
1	PI	EL					
2	PI	SRS					

Dwights Energydata Narrative

Accumulated through 1997



Scout Ticket

Mon Mar 30, 2009

25035058290000

General Information

1 BUGBEE

Data Source:	PI	IC:	
API:	25035058290000	County:	GLACIER
State:	MONTANA	Operator:	FLANK OIL COMPANY
Field:	CUT BANK	Final Well Class:	WOE
Initial Class:	WO	Target Objective:	
Status:	OIL	Hole Direction:	VERTICAL
Permit:	on Dec 12, 1956	Abandonment Date:	
First Report Date:	Sep 01, 1972	Formation:	THREE FORKS
Projected TD:	4,800 FT		

IP Summary:

Oil:	25 BBL	Gas:		Water:		Top Form:	THREE FORKS
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Location

Section, Twp., Range:	6 33N 6W	Data Source:	PI
Spot Code:	SE SW		
Footage NS EW Origin:	990 FSL 1650 FWL CONGRESS SECTION		
Principal Meridian:	MONTANA		
Lat/Long:	+48.6414846 -112.4431513	Lat/Long Source:	IH

Dates and Depths

Data Source:	PI	Spud Date Code:	
Spud:	Dec 22, 1956	TD Date:	
TD:	4,790 FT	PlugBack Depth:	
TVD:			

Scout Ticket

Mon Mar 30, 2009

Formation Code TD:	306TRFK	Formation Name TD:	THREE FORKS
Ref. Elevation:	3,915 FT KB	KB. Elevation:	3,915 FT
Ground Elevation:		LTD:	
Contractor:	WAGGNER LANSFORD		
Completed:	Aug 09, 1957	Final Drilling:	
Rig Release Date:		Rig #:	

Initial Potential Tests

IP: 001	Data Source: PI		
Top Formation Name:	THREE FORKS	Top Formation Code:	306TRFK
Base Formation Name:	THREE FORKS	Base Formation Code:	306TRFK
Oil:	25 BBL	Condensate:	
Gas:		Water:	
Interval:	4,729 - 4,790	Method:	FLOWING
Duration of Test:	1 Hours	Choke:	
Oil Gravity:		GOR:	
Cond Gravity:		Cond Ratio:	

Perforations

	Data Source	Interval	Count	Type	Status	Shots/ Ft	Prod Method	Top Form Code	Top Form Name
Test	PI	4729 - 4790					OPENHOLE	306TRFK	THREE FORKS

Treatments

Treatment: 1

Interval:	4,729 - 4,790		
Fluid:		FRAC	Type: O
Additive:			
Prop Agent:	SAND	Amount:	
Form Break Down Pressure:			

Scout Ticket

Mon Mar 30, 2009

Average Injection Rate:

Stages: **Remarks:**

Production Tests

PT: 001

Data Source:	PI	Top Formation Code:	306TRFK
Top Formation Name:	THREE FORKS	Base Formation Code:	306TRFK
Base Formation Name:	THREE FORKS	Condensate:	
Oil:	25 BBL	Water:	
Gas:		Method:	FLOWING
Interval:	4,729 - 4,790	Choke:	
Duration of Test:	1 Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	
Prod Method:	OPENHOLE		

PT: 002

Data Source:	PI	Top Formation Code:	351LDGP
Top Formation Name:	LODGEPOLE	Base Formation Code:	351LDGP
Base Formation Name:	LODGEPOLE	Condensate:	
Oil:		Water:	
Gas:		Method:	UNDESIGNATED
Interval:	4,631 - 4,643	Choke:	
Duration of Test:	Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	X
Prod Method:	OPENHOLE		

PT: 003

Data Source:	PI	Top Formation Code:	351LDGP
Top Formation Name:	LODGEPOLE		

Scout Ticket

Mon Mar 30, 2009

Base Formation Name:	LODGEPOLE	Base Formation Code:	351LDGP
Oil:	52 BBL	Condensate:	
Gas:		Water:	
Interval:	4,631 - 4,643	Method:	SWABBING
Duration of Test:	Hours	Choke:	
Oil Gravity:		GOR:	
Cond Gravity:		Cond Ratio:	
Prod Method:	OPENHOLE	Main Fluid Code:	
PT: 004			
Data Source:	PI	Top Formation Code:	351LDGP
Top Formation Name:	LODGEPOLE	Base Formation Code:	351LDGP
Base Formation Name:	LODGEPOLE	Condensate:	
Oil:		Water:	
Gas:		Method:	UNDESIGNATED
Interval:	4,629 - 4,643	Choke:	
Duration of Test:	Hours	GOR:	
Oil Gravity:		Cond Ratio:	
Cond Gravity:		Main Fluid Code:	X
Prod Method:	OPENHOLE		
Remarks on PT Test:	Data Source: PI	SWBD 4BFPH	
PT: 005			
Data Source:	PI	Top Formation Code:	351LDGP
Top Formation Name:	LODGEPOLE	Base Formation Code:	351LDGP
Base Formation Name:	LODGEPOLE	Condensate:	
Oil:	15 BPD	Water:	
Gas:		Method:	PUMPING
Interval:	4,629 - 4,643	Choke:	
Duration of Test:	Hours	GOR:	
Oil Gravity:			

Scout Ticket

Mon Mar 30, 2009

Cond Gravity:

Prod Method: OPENHOLE

Cond Ratio:

Main Fluid Code:

PT: 006

Data Source: PI

Top Formation Name: LODGEPOLE

Top Formation Code: 351LDGP

Base Formation Name: LODGEPOLE

Base Formation Code: 351LDGP

Oil: 8 BPD

Condensate:

Gas:

Water:

Interval: 4,629 - 4,643

Method: PUMPING

Duration of Test: Hours

Choke:

Oil Gravity:

GOR:

Cond Gravity:

Cond Ratio:

Prod Method: OPENHOLE

Main Fluid Code:

Pressures

Data Source		FTP		FCP		SITP		SICP	
Test									
002	PI		150 PSIG						

Perforations

Test	Data Source	Interval	Count	Type	Status	Shots/ Ft	Prod Method	Top Form Code	Top Form Name
001	PI	4729 - 4790					OPENHOLE	306TRFK	THREE FORKS
002	PI	4631 - 4643					OPENHOLE	351LDGP	LODGEPOLE
003	PI	4631 - 4643					OPENHOLE	351LDGP	LODGEPOLE
004	PI	4629 - 4643					OPENHOLE	351LDGP	LODGEPOLE
005	PI	4629 - 4643					OPENHOLE	351LDGP	LODGEPOLE
006	PI	4629 - 4643					OPENHOLE	351LDGP	LODGEPOLE

Treatments

Scout Ticket

Mon Mar 30, 2009

Treatment: 100

Data Source: **Interval:** 4,729 - 4,790
Fluid: FRAC **Type:** O
Additive:
Prop Agent: SAND **Amount:**
Form. Break Down Pressure:
Average Injection Rate:
Stages: **Remarks:**

Treatment: 101

Data Source: **Interval:** 4,631 - 4,643
Fluid: 13,756 GAL FRAC **Type:** O
Additive: FLA
Prop Agent: SAND **Amount:** 8,200 LB
Form. Break Down Pressure: 4,200 PSIG
Average Injection Rate:
Stages: **Remarks:** 30 LBS

Treatment: 102

Data Source: **Interval:** 4,631 - 4,643
Fluid: 2,650 GAL ACID **Type:** A
Additive:
Prop Agent: **Amount:**
Form. Break Down Pressure:
Average Injection Rate:
Stages: **Remarks:**

Treatment: 103

Data Source: **Interval:** 4,629 - 4,643
Fluid: 65 QT FRAC **Type:** UNKNOWN
Additive: NTGN
Prop Agent: **Amount:**

Scout Ticket

Mon Mar 30, 2009

Form. Break Down Pressure:

Average Injection Rate:

Stages: **Remarks:**

Treatment: 104

Data Source: **Interval:** 4,629 - 4,643

Fluid: 4,000 GAL **ACID** **Type:** A

Additive:

Prop Agent: **Amount:**

Form. Break Down Pressure:

Average Injection Rate:

Stages: **Remarks:**

Drill Stem Tests

Data Source: PI

DST: 001

Show: S **Formation:** MADISON

Interval: 4625 - 4643 **BHT:**

Choke: Top: **Bottom:**

Data Source: PI

DST: 002

Show: S **Formation:** LODGEPOLE

Interval: 4612 - 4631 **BHT:**

Choke: Top: **Bottom:**

Data Source: PI

DST: 003

Show: S **Formation:** LODGEPOLE

Interval: 4625 - 4643 **BHT:**

Choke: Top: **Bottom:**

Pipe Recovery

Scout Ticket

Mon Mar 30, 2009

Data Source		Recovery	Type	Rec Method
001	PI	5 FT	SOCM	PIPE
002	PI	2,550 FT	O	PIPE

Materials to Surface

Data Source		Fluid	To Surface	Amount
001	PI	GAS	2 MIN	1,300 MCFD
001	PI	MUD	15 MIN	
001	PI	OIL	23 MIN	
002	PI	GAS	7 MIN	100 MCFD
003	PI	GAS	2 MIN	130 MCFD
003	PI	MUD	15 MIN	
003	PI	OIL	22 MIN	20 BPD

Pressure and Time

Data Source: PI

Test	Hydro		Init Flow		Final Flow		Shutin		Open Time		Shutin Time	
	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
001				0				0		60		15
002		2385	350	1450				1685		240		30
003				435				1840		60		30

Cores

CORE ID: 001

Formation: 359MDSN MADISON
 Interval: 3989-3998
 Core Type: CONV

Rec: 9 FT
 Show Type:

Description:	9 LIMESTONE, DENSE, CHERT 5 SILTSTONE, HD, DOLO & DNS 40 SS, GREEN, SHLY, TIGHT, SFLU	
CORE ID: 002		
Formation:	359MDSN MADISON	
Interval:	4608-4631	Rec: 23 FT
Core Type:	CONV	Show Type:
Description:	23 LIMESTONE, W/HORZ & VERT FRACS, FROM 4629-4631, 3 SHALE 2 SILTSTONE 2 SHALE	
CORE ID: 003		
Formation:	359MDSN MADISON	
Interval:	4631-4643	Rec: 12 FT
Core Type:	CONV	Show Type: OIL
Description:	12 LIMESTONE, W/HORZ & VERT FRACS LIVE OIL FROM 4631-4640 12 SHALE 3 SANDSTONE, FI GRND, S&P 4 SS, GREY, S&P, GOOD PORO, WTR WET	
CORE ID: 004		
Formation:	602CBNK CUTBANK /CUT BANK/	
Interval:	3565-3585	Rec: 20 FT
Core Type:	CONV	Show Type:
Description:	10.5 SHALE, DK-GREY BLK 9.5 DOLO, GREY, DENSE, TIGHT	

Scout Ticket

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CORE ID: 005

Formation: 359MDSN MADISON

Interval: 3585-3592

Core Type: CONV

Description: 7 DOLO, GREY, FI-MICROXLN, DNS, TIGHT, FEW
VERT & HORZ HAIRLINE FRACS, BLDG GASEY WATER
AFTER 15 MINS

Rec: 7 FT

Show Type: GAS

CORE ID: 006

Formation: 359MDSN MADISON

Interval: 3592-3611

Core Type: CONV

Description: 9.5 DOLO, GREY, FI-XLN, VERT HAIRLINE FRACS W/DOIL
STNS ON FRAC PLANES
4.5 DOLO, TAN-GREY, FI-XLN, CHERT NOD SCATT
THRU, FAIR PP & VUG PORO, SOME LIVE OSTN IN VUGS
#5 DOLO, TAN-GREY, FOSS, GD PP & VUG
PORO W/LIVE OSTN IN VUGS, SULF ODOR

Rec: 19 FT

Show Type: OSTN

CORE ID: 007

Formation: 359MDSN MADISON

Interval: 3954-3988

Core Type: CONV

Description: 34 LM, DNS, WHT-GREY, INTERBDD W/GREY CHERT
SOME FRAC, SLI FLUOR 3980-3988

Rec: 34 FT

Show Type: SFLU

CORE ID: 008

Formation: 359MDSN MADISON

Interval: 3988-3997

Core Type: CONV

Rec: 9 FT

Show Type:

Scout Ticket

Mon Mar 30, 2009

Description:	9 LM HD, DNS, INTERBDD W/CHERT		
CORE ID: 009			
Formation:	351LDGP LODGEPOLE		
Interval:	4607-4631	Rec:	24 FT
Core Type:	CONV	Show Type:	BLDO
Description:	24 LM, DNS, BLK, BTM 3 FT HORZ & VERT FRACS BLDG LIVE OIL		
CORE ID: 010			
Formation:	351LDGP LODGEPOLE		
Interval:	4631-4643	Rec:	12 FT
Core Type:	CONV	Show Type:	BLDO
Description:	9, LM, BLK, FRAC, BLDG LIVE OIL 3 LM, AS ABOVE		

Casing, Liner, Tubing

Casing	Size	Base Depth	Cement
CASING	10 3/4 IN	300 FT	125 SACK
CASING	7 IN	4,625 FT	100 SACK

Participating Interests Journal

Participating Interests	#	Remark
	1	PART INTERESTS- WAGGONER & LANSFORD

Formations

Form Code	Data Source	Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age Code
603CLRDN	PI	COLORADO /COLO GROUP/ COLORADOAN/	992				LOG		603
602BCKF	PI	BLACKLEAF	1,935				LOG		602

Scout Ticket

Mon Mar 30, 2009

Form Code	Data Source	Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age Code
602KOTN	PI	KOOTENAI		2,655			LOG		602
602MLTN	PI	MOULTON		3,126			LOG		602
602SBRS	PI	SUNBURST		3,285			LOG		602
602CBNK	PI	CUTBANK /CUT BANK/		3,335			SPL		602
602CBNK	PI	CUTBANK /CUT BANK/		3,353			LOG		602
553ELLS	PI	ELLIS /GROUP/		3,405			LOG		553
359MDSN	PI	MADISON		3,575			SPL		359
359MDSN	PI	MADISON		3,582			LOG		359
351BNFF	PI	BANFF		4,690			SPL		351
319EXSH	PI	EXSHAW		4,720			SPL		319
306TRFK	PI	THREE FORKS		4,729			SPL		306

Logs

Data Source		Type	Top Depth	Base Depth	Logging Co.	BHT	since circ.
1	PI	EL					

Dwights Energydata Narrative

Accumulated through 1997

Scout Ticket

Mon Mar 30, 2009

25035058290001

General Information

1 BUGBEE

Data Source:	PI	IC:	
API:	25035058290001	County:	GLACIER
State:	MONTANA	Operator:	BANNER OIL CO INC
Field:		Final Well Class:	WF
Initial Class:	WFD	Target Objective:	
Status:	D&AWOG	Hole Direction:	VERTICAL
Permit:	on Jan 06, 1958	Abandonment Date:	
First Report Date:	Sep 01, 1972	Formation:	THREE FORKS
Projected TD:	4,790 FT		

Location

Section, Twp., Range:	6 33N 6W	Data Source:	PI
Spot Code:	SE SW		
Footage NS EW Origin:	990 FSL 1650 FWL CONGRESS SECTION		
Principal Meridian:	MONTANA		
Lat/Long:	+48.6414846 -112.4431513	Lat/Long Source:	IH

Dates and Depths

Data Source:	PI	Spud Date Code:	
Spud:	Jan 16, 1958	TD Date:	
TD:	5,345 FT	PlugBack Depth:	4,880 FT
TVD:		Formation Name TD:	THREE FORKS
Formation Code TD:	306TRFK	KB. Elevation:	3,915 FT
Ref. Elevation:	3,915 FT KB	LTD:	
Ground Elevation:			

Scout Ticket

Mon Mar 30, 2009

Contractor: M H O DRILLING COMPANY
Completed: Oct 02, 1958
Rig Release Date:
Final Drilling:
Rig #:

Casing, Liner, Tubing

Casing	Size	Base Depth	Cement
CASING	10 3/4 IN	300 FT	125 SACK
CASING	7 IN	4,625 FT	100 SACK

Drilling Journal

Show

Obs	Data Source	Top Depth	Base Depth	Type	Top Form	Base Form	Sample
1	PI	5,026	5,030	O&G	306TRFK	306TRFK	

Formations

Form Code	Data Source	Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology	Age Code
351BNFF	PI	BANFF		4,690			LOG		351
319EXSH	PI	EXSHAW		4,720			LOG		319
306TRFK	PI	THREE FORKS		4,729			LOG		306

Dwights Energydata Narrative

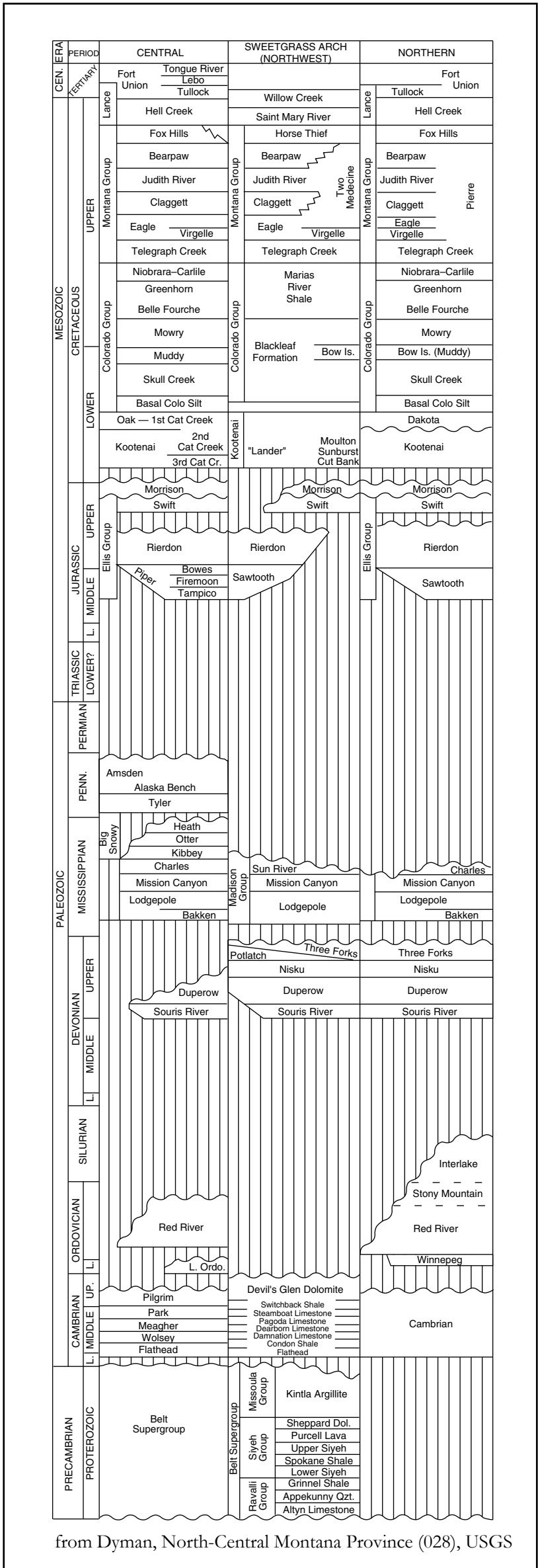
Accumulated through 1997

Old Information

Spud Date: Jan 16, 1958
Old TD: 4,790 FT

APPENDIX VI

Stratigraphic Column



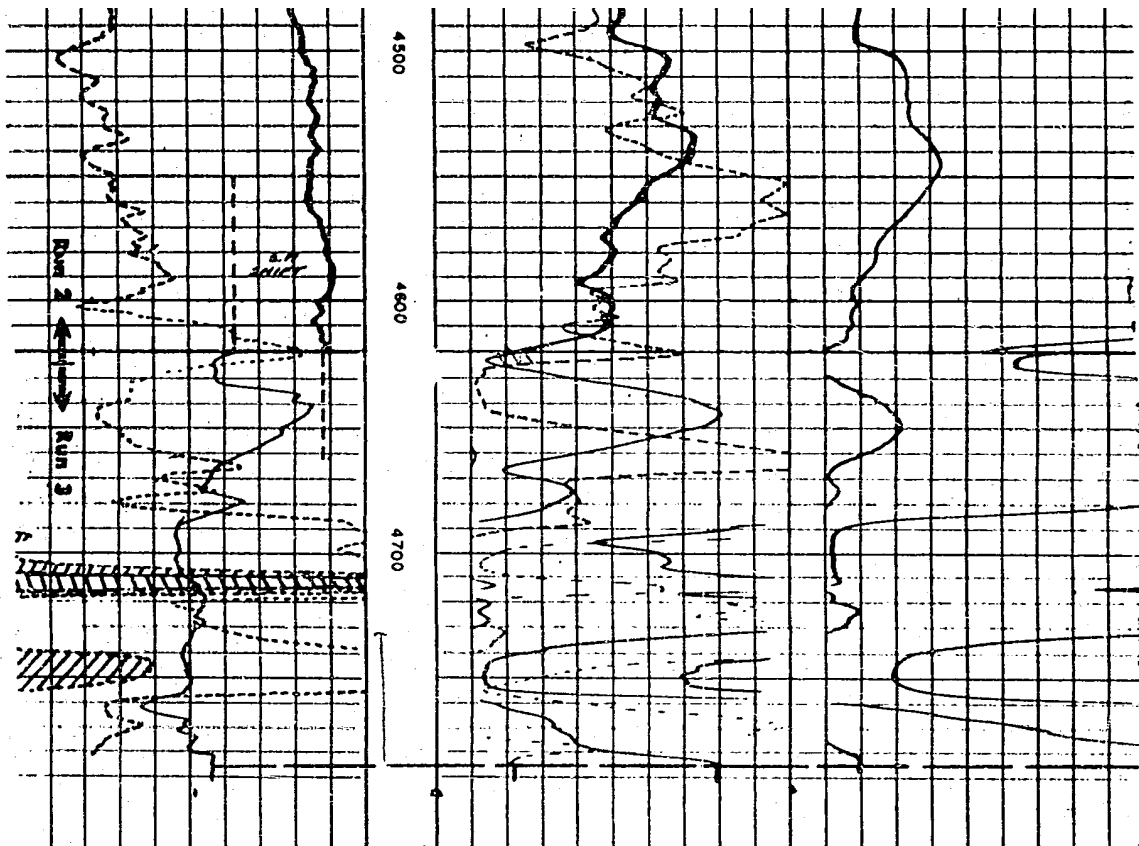
from Dyman, North-Central Montana Province (028), USGS

APPENDIX VII

Bakken Shale Logs

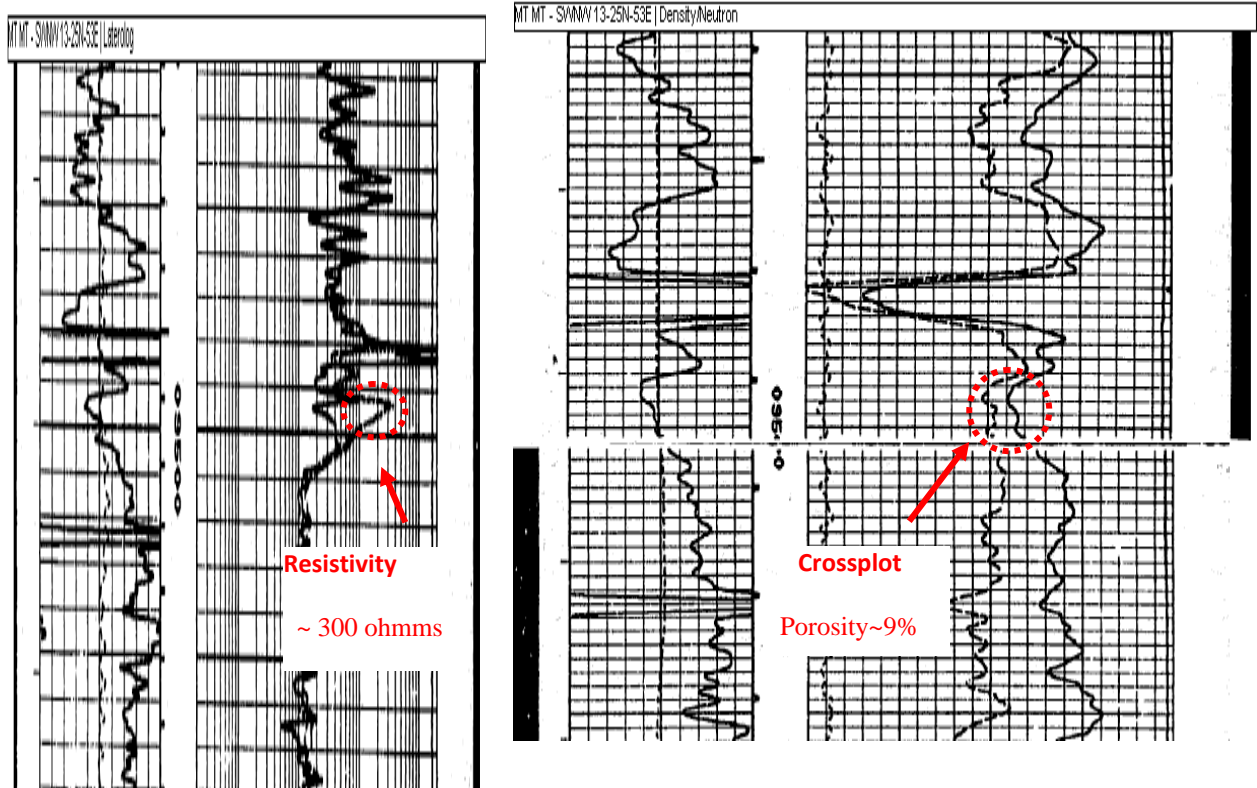
The Exshaw interval, of the Tribal 470 well in Glacier Co. Mt., is compared to log intervals openhole log characteristics of wells penetrating the Bakken Shale in the Richland Co. MT, Bakken productive area

Scout ticket tops from the log in the Tribal 470 call the Exshaw at 4,709', the Three Forks at 4,718', and the Potlatch at 4,765'.

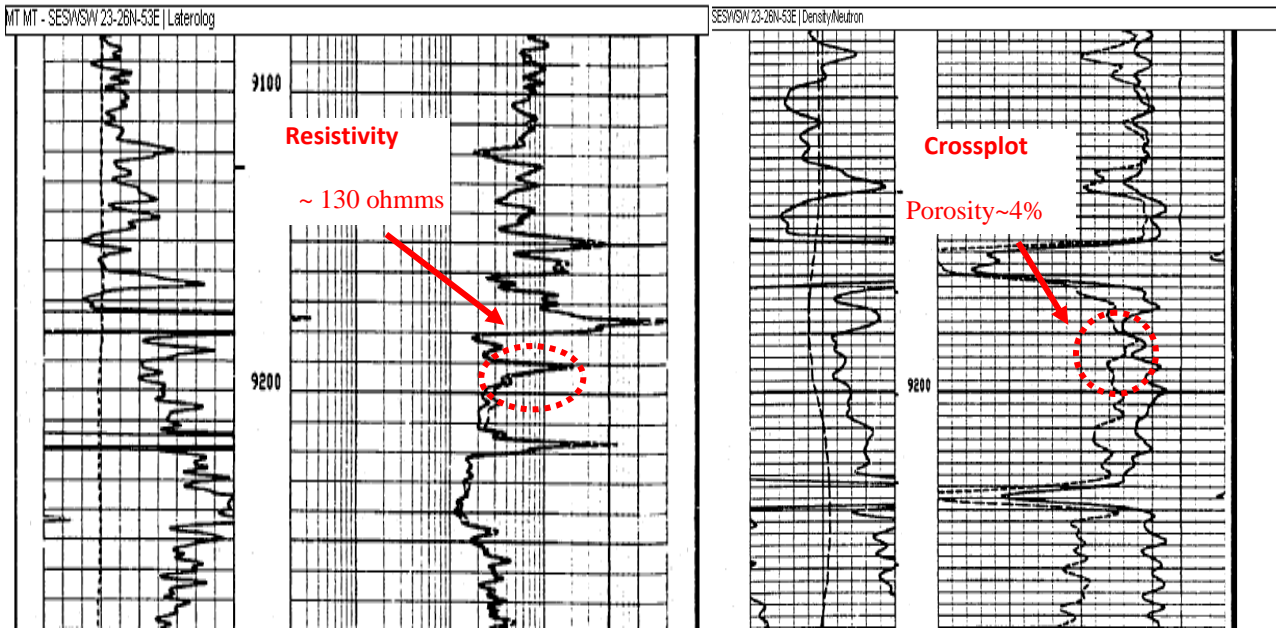


Union Oil Tribal 470, sec. 7 T33N R6W Glacier Co. MT

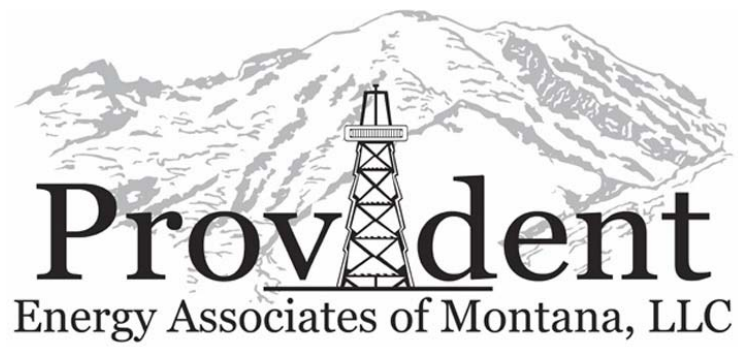
The following two vertical wells from Elm Coulee, Richland Co. are from an area of good oil production (Porosity~9% in the first) and poor Bakken production (Porosity~4% in the second illustration). The resistivity is greater than 100 ohms over these siltstone reservoirs, which indicates a high oil saturation, which is supported by production.



Logs from sec. 13, T25N-R53E over the Bakken, Richland Co.



Logs from sec. 23, T26N-R53E over the Bakken, Richland Co.



**2441 High Timbers Drive, Suite 120
The Woodlands, TX 77380
281-298-9555 (T)
281-298-9558 (F)**