



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1192784
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1192784

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Berenergy Corporation
Well Name	Roetzel 'A' 26
Doc ID	1192784

All Electric Logs Run

Gamma Ray - Caliper
Dual Compensated Porosity
Microresistivity Log
Dual Induction Log
Borehole Compensated Sonic
Sonic Cement Bond

Form	ACO1 - Well Completion
Operator	Berenergy Corporation
Well Name	Roetzel 'A' 26
Doc ID	1192784

Tops

Name	Top	Datum
Tarkio	2263	-507
Topeka	2594	-838
Heebner	2846	-1090
Toronto	2862	-1106
Douglas	2881	-1125
Brown Lime	2970	-1214
Lansing-Kansas City	2990	-1234
Arbuckle	3251	-1479

ALLIED OIL & GAS SERVICES, LLC 061886

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Front Road 4

DATE <u>9-25-13</u>	SEC. <u>24</u>	TWP. <u>20</u>	RANGE <u>11</u>	CALLED OUT <u>5:30 AM</u>	ON LOCATION <u>7:30 AM</u>	JOB START <u>1:00 PM</u>	JOB FINISH <u>2:15 PM</u>
LEASE <u>Root 2-1 A</u>	WELL # <u>26</u>	LOCATION <u>281-5 mi Hwy, 1/4 East, 1/2 west</u>			COUNTY <u>Benton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>wait info</u>				

CONTRACTOR Val #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" T.D. 1037'
 CASING SIZE 8 3/8" 24" DEPTH 1037'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 800# MINIMUM 300#
 MEAS. LINE _____ SHOE JOINT 42.74'
 CEMENT LEFT IN CSG. 42.74'
 PERFS. _____
 DISPLACEMENT 63.38 bbls

OWNER Same
 CEMENT
 AMOUNT ORDERED 300 6 3/4 8 3/8 Ad, 370 cc, 1/4" Floerol/sh - 200 clam A 370 cc.

COMMON	<u>200</u>	@	<u>17.90</u>	<u>3580.00</u>
POZMIX		@		
GEL		@		
CHLORIDE	<u>16</u>	@	<u>64.00</u>	<u>1024.00</u>
ASC		@		
ALW	<u>300</u>	@	<u>15.95</u>	<u>4785.00</u>
Floerol	<u>75"</u>	@	<u>2.97</u>	<u>222.75</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>562.20</u>	@	<u>2.48</u>	<u>1391.26</u>
MILEAGE	<u>432 x 2.60</u>			<u>1123.20</u>
TOTAL				<u>12,129.21</u>

REMARKS:

Ran 1037' of 8 3/8 cas. Brake circulation. Pumped 5 bbls H2O. Mixed 300 lbs 6 3/4 8 3/8 Ad, 370 cc, 1/4" Floerol/sh followed by 200 lbs clam A 370 cc. Released plug. Deployed with H2O. Loaded plug at 800#. Released a float. Held. Approx 20 bbls to pit. Cement Ad circulate

SERVICE

DEPTH OF JOB	<u>1037'</u>			
PUMP TRUCK CHARGE				<u>2213.75</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>20</u>	@	<u>7.70</u>	<u>154.00</u>
MANIFOLD		@		
Head Rent		@	<u>275.00</u>	<u>N/C</u>
ALW	<u>20</u>	@	<u>4.40</u>	<u>88.00</u>
TOTAL				<u>2455.75</u>

PLUG & FLOAT EQUIPMENT

<u>8 3/8 Mudslee</u>	<u>460.95</u>		<u>460.95</u>
<u>Float Collar</u>	@ <u>950.04</u>		<u>950.04</u>
<u>2- Stop Rings</u>	@ <u>50.14</u>		<u>112.32</u>
<u>24- Centralizer</u>	@ <u>74.88</u>		<u>1797.12</u>
<u>2- Thread Loc</u>	@ <u>83.07</u>		<u>166.14</u>
<u>Rubber Plug</u>	@ <u>181.85</u>		<u>181.85</u>
TOTAL <u>3569.45</u>			

CHARGE TO: Bereenergy 112
 STREET _____
 CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME L. E. BUCHANAN
 SIGNATURE L. E. Buchanan 9/25/2013

SALES TAX (If Any) _____
 TOTAL CHARGES 18,142.81
 DISCOUNT 5602.18 IF PAID IN 30 DAYS
11,645.63

Date 10-1-13 District HX Bond Ticket No. 010891
 Company Barron Energy Rig Unit 2
 Lease Roughed 10 A Well No. 26
 County Price State 14
 Location _____ Field _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type New Weight 15.5 Collar _____

LEAD: Pump Time _____ hrs. Type ASC
 Excess _____
 Amt. 175 Sks Yield 1.57 ft³/sk Density 14.5 PPG

Casing Depths: Top WB Bottom 3212.2

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. 475 Sks Yield 1.57 ft³/sk Density 14.5 PPG

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 1/8 T.D. 3210 ft. P.B. to _____ ft.

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.
500x 60/40 + 400 Gal

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0329 Lin. ft./Bbl. 32.4065
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Pump Trucks Used 592 - Chad's Kungum
 Bulk Equip. 603 - Manda's Spangenberg

Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type Twin Plex Shoe Depth _____
 Floa: Type 2 Backcats Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars Latch Down Plug and Out
 Special Equip. 27 cent. 20's
 Disp. Fluid Type H2O Amt. 7600 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Wayne Davis

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
2:30 PM						Arrive on loc 5.4 Run up Hard Slatley meeting Raw Float Equip
6:30 PM					4	Broke circulation at 6:30 circulated for 1 hour
7:50			5	5	3	Hard Slatley meeting Raw 5 BBLs water ahead
			15	10	3	Mix 500 Gal ASF
			20	5	3	Raw 5 BBLs Behind
			27.48	7.48	3	Mix 30 BX Rat hole
			32.46	4.98	3	Prove mix 20's
			140.95	108.47	6	Mix 175 SX ASF
						(P) Wash pump lines
8:45	4000 psi			30	5	Release plug start displace ment
	8,000 psi			30	5	
	900			10	5	
	500			6	3	slow down pump hand plug at 1100



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bereenergy Corp.
PO Box 5850
Denver Co. 80217+5850

ATTN: Ryan Thress

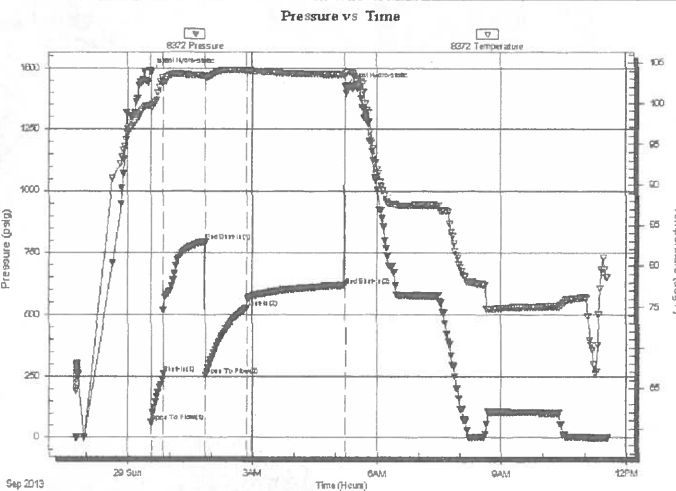
24-20s-11w Barton
Roetzel "A" #26
Job Ticket: 53630 DST#: 1
Test Start: 2013.09.28 @ 22:45:01

GENERAL INFORMATION:

Formation: LKC "D-F"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:34:00
Time Test Ended: 11:33:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 68
Interval: 3016.00 ft (KB) To 3060.00 ft (KB) (TVD)
Reference Elevations: 1755.00 ft (KB)
Total Depth: 3060.00 ft (KB) (TVD) 1745.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8372 Inside
Press@RunDepth: 527.90 psig @ 3021.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.28 End Date: 2013.09.29 Last Calib.: 2013.09.29
Start Time: 22:45:01 End Time: 11:33:30 Time On Btm: 2013.09.29 @ 00:33:30
Time Off Btm: 2013.09.29 @ 05:14:30

TEST COMMENT: IF:(15min) BOB in 1 Min.
ISl:(60min) No Return
FF:(60min) BOB in 2 min.
FSl:(120min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1482.09	99.79	Initial Hydro-static
1	61.56	99.44	Open To Flow (1)
18	261.12	102.65	Shut-In(1)
78	793.39	103.40	End Shut-In(1)
79	253.55	103.22	Open To Flow (2)
139	527.90	104.03	Shut-In(2)
281	618.31	103.54	End Shut-In(2)
281	1425.34	103.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1299.00	MCGW g=15% m=10% w=75%	18.22
1.00	GO	0.01

Gas Rates

	Chole (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

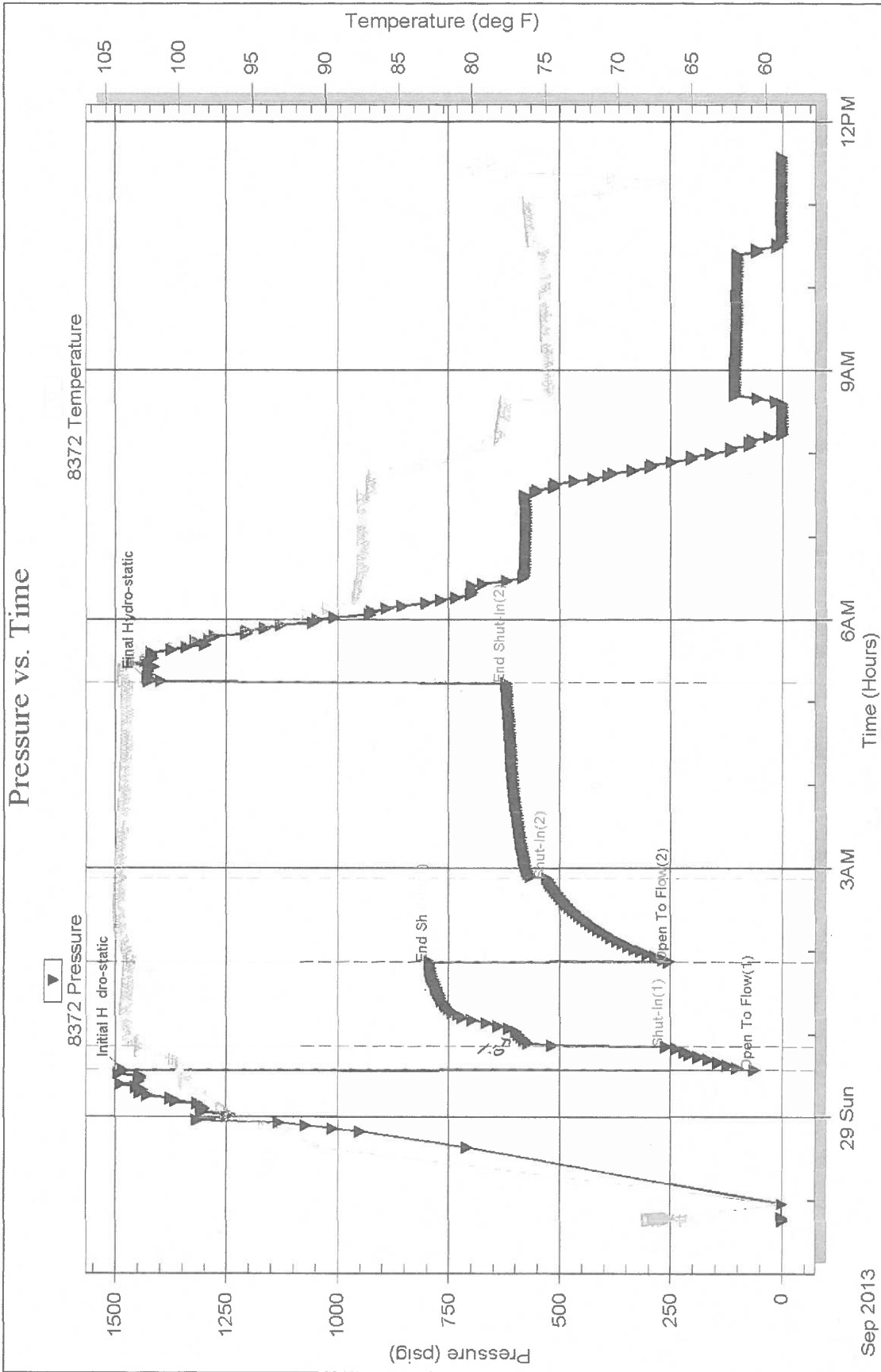
Serial #: 8372

Inside

Berenergy Corp.

Roetzel "A" #25

DST Test Number: 1



Printed: 2013.09.29 @ 12:04:58

Ref. No: 53630

Trilobite Testing, Inc



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53630

4/10

Well Name & No. Roetzel "A" #26 Test No. 1 Date 9-28-13
 Company BE ENERGY CORP Elevation 1755 KB 1745 GL
 Address PO BOX 5850 DENVER CO, 80217+5850
 Co. Rep / Geo. RYAN THRESS Rig VAL #2
 Location: Sec. 24 Twp. 20S Rge. 11W Co. BARTON State Ks

Interval Tested 3016-3060 Zone Tested LKC "D-F"
 Anchor Length 44' Drill Pipe Run 3013 Mud Wt. ~~5.2~~ 8.8
 Top Packer Depth 3011 Drill Collars Run 0 Vis ~~8.8~~ 5.2
 Bottom Packer Depth 3016 Wt. Pipe Run 0 WL 8.8
 Total Depth 3060 Chlorides 6700 ppm System LCM 0

Blow Description IF: BOB 1min
ISI: NO RETURN
FF: BOB 2min
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>30</u>				
<u>1299</u>	<u>MCGW</u>				

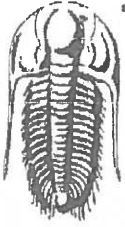
Rec Total 1300 BHT 103° Gravity API RW 273 @ 73° F Chlorides 26000 ppm

(A) Initial Hydrostatic 1482 Test 21:05 T-On Location
 (B) First Initial Flow 61 Jars 22:45 T-Started
 (C) First Final Flow 261 Safety Joint 00:57 42 T-Open
 (D) Initial Shut-In 793 Circ Sub 04:57 T-Pulled
 (E) Second Initial Flow 253 Hourly Standby 5hrs T-Out 11:40
 (F) Second Final Flow 527 Mileage 180RT Comments
 (G) Final Shut-In 618 Sampler 5 hrs standby
 (H) Final Hydrostatic 1425 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder
 Day Standby
 Accessibility

Initial Open 15 Sub Total _____
 Initial Shut-In 60 Total _____
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 120 Sub Total _____

Approved By L. David Bushman 9/29/2013 Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berenergy Corp.
PO Box 5850
Denver Co. 80217+5850
ATTN: Ryan Thress

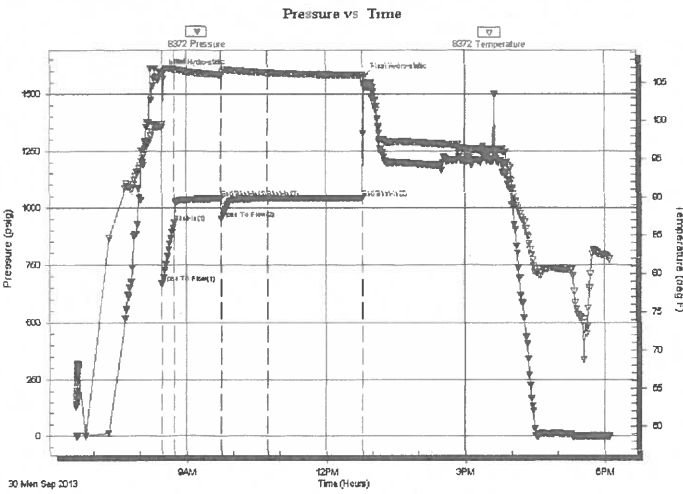
24-20s-11w Barton
Roetzel "A" #26 26
Job Ticket: 53631 **DST#: 2**
Test Start: 2013.09.30 @ 06:38:01

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:28:30
Time Test Ended: 18:07:30
Interval: **3250.00 ft (KB) To 3260.00 ft (KB) (TVD)**
Total Depth: **3260.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Reference Elevations: **1755.00 ft (KB)**
1745.00 ft (CF)
KB to GR/CF: **10.00 ft**
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 68

Serial #: 8372 Inside
Press@RunDepth: 1042.45 psig @ 3251.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.30 End Date: 2013.09.30 Last Calib.: 2013.09.30
Start Time: 06:38:01 End Time: 18:07:30 Time On Btm: 2013.09.30 @ 08:28:00
Time Off Btm: 2013.09.30 @ 12:49:30

TEST COMMENT: IF:(15min) BOB in 20 seconds
ISl:(60min) GTS during bleed off. Blow built to BOB in 12 min. Gas burned w/ orange flame
FF:(60min) BOB immediately. Gas TSTM
FSl:(120min) Return blow, built to BOB in 6 min. after bleed off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1592.50	99.05	Initial Hydro-static
1	671.63	99.44	Open To Flow (1)
17	934.30	106.74	Shut-In(1)
77	1042.27	106.02	End Shut-In(1)
78	950.69	106.05	Open To Flow (2)
137	1042.45	106.30	Shut-In(2)
260	1043.84	105.95	End Shut-In(2)
262	1573.61	104.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1698.00	Water	21.85
932.00	Oil	12.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DST Test Number: 2

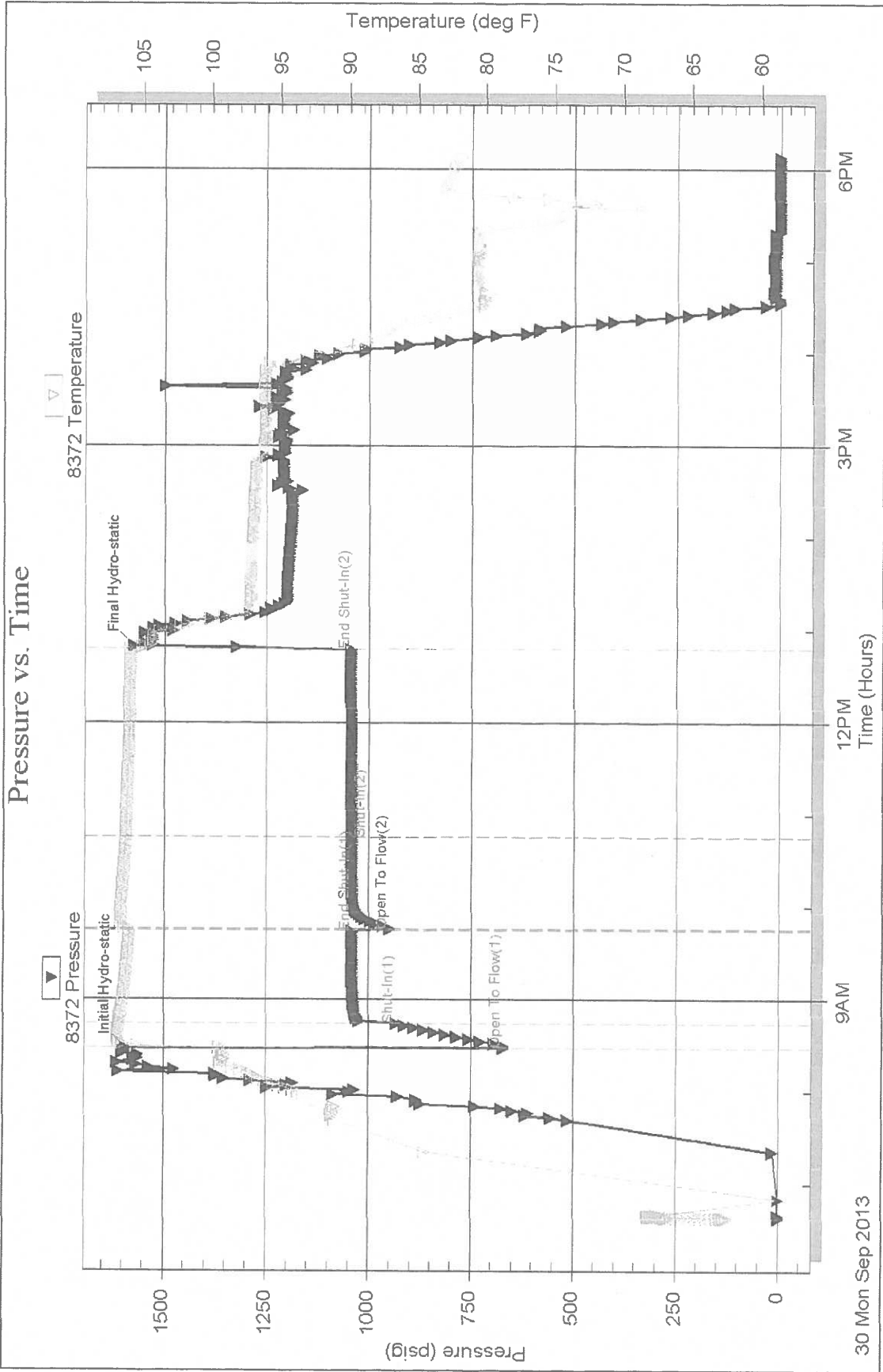
Roetzel "A" #25

Bereenergy Corp.

Inside

Serial #: 8372

Pressure vs. Time



Printed: 2013.09.30 @ 18:37:28

Ref. No: 53631

Trilobite Testing, Inc

WF

NATURAL GAS ANALYSIS REPORT
GPA 2145-09

Sampled by:
Trilobite Testing, Inc.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-482-2371
Fax: 620-626-7108

Lab Number:	20132235	Analyzed:	10/04/13
Sample From:	RUETZEL A-26	Pressure:	
Producer:	BERENERGY CORP	Temperature:	
Date:		Location:	24-20-11
Time:		County:	BARTON
Sampler:		State:	KANSAS
Source:	DST 2	Formation:	ARBUCKLE

	Mole %	GPM
Helium	He: 0.357	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 15.778	0.000
Carbon Dioxide	CO2: 0.027	0.000
Methane	C1: 36.899	0.000
Ethane	C2: 13.129	4.924
Propane	C3: 14.051	5.267
Iso Butane	iC4: 3.128	0.958
Normal Butane	nC4: 7.260	2.309
Iso Pentane	iC5: 2.096	0.575
Normal Pentane	nC5: 2.767	0.765
Hexanes Plus	C6+: 4.508	1.036

TOTAL: 100.000 15.834
Z Fact: 0.9994
SP.GR.: 1.1840
BTU (SAT): 1728.0 @ 14.73 psia
BTU (DRY): 1758.6 @ 14.73 psia
OCTANE RATING: 88.9

COMMENTS: 303-297-951 0.000



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 53631 Date 9-30-13
 Company Name BERENERGY CORP
 Lease Roetzel "A" #26 Test No. 2
 County Barton Sec. 24 Twp. 20s Rng. 11w

SAMPLER RECOVERY

Gas 2800 ML
 Oil 300 ML
 Mud — ML
 Water 900 ML
 Other — ML
 Pressure 29016s ML
 Total 4000 ML

PIT MUD ANALYSIS

Chlorides 8100 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 53
 Mud Weight 9.2
 Filtrate 9.2
 Other 1/2" LCM

SAMPLER ANALYSIS

Resistivity .276 ohms @ 87 F
 Chlorides 19000 ppm.
 Gravity 40 corrected @60F

PIPE RECOVERY

TOP
 Resistivity .276 ohms @ 87 F
 Chlorides _____ ppm.
MIDDLE
 Resistivity " ohms @ " F
 Chlorides " ppm.
BOTTOM
 Resistivity " ohms @ " F
 Chlorides " ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53631

4/10

Well Name & No. Rutzel 'A' #26 Test No. 2 Date 9-30-13
 Company BERENERGY CORP Elevation 1755 KB 1745 GL
 Address PO BOX 5850 DENVER CO. 80217+5850
 Co. Rep / Geo. Ryan Thress Rig VAL #2
 Location: Sec. 24 Twp. 20s Rge. 1W Co. BARTON State Ks

Interval Tested 3250-3260 Zone Tested Arbuckle
 Anchor Length 10' Drill Pipe Run 3231 Mud Wt. 9.2
 Top Packer Depth 3245 Drill Collars Run 0 Vis #9 53
 Bottom Packer Depth 3250 Wt. Pipe Run 0 WL 9.2
 Total Depth 3260 Chlorides 8100 ppm System LCM 1/2#

Blow Description IF: BOB in 20 sec
ISI: GTS during bleedoff, Blow built to BOB in 12 min.
FF: BOB immediately, GAS TSTM
FST: Return Blow built to BOB in 6 min after bleedoff

Rec	Feet of	%gas	%oil	%water	%mud
<u>932</u>	<u>Oil</u>				
<u>1698</u>	<u>Water</u>				

Rec Total 2630 BHT 105° Gravity 40 API RW 276 @ 87° F Chlorides 19000 ppm

(A) Initial Hydrostatic 1592 Test ← T-On Location 05:36
 (B) First Initial Flow 671 Jars ← T-Started 06:38
 (C) First Final Flow 934 Safety Joint ← T-Open 08:30
 (D) Initial Shut-In 1042 Circ Sub _____ T-Pulled 12:45
 (E) Second Initial Flow 950 Hourly Standby 3 hrs T-Out 18:08
 (F) Second Final Flow 1042 Mileage 180 RT Comments Gas burned w/
 (G) Final Shut-In 1043 Sampler ← ORANGE FLAME
 (H) Final Hydrostatic 1573 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 15 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total _____
 Final Flow 60 Day Standby _____ Total _____
 Final Shut-In 120 Accessibility _____ MP/DST Disc't _____
 Sub Total _____

Approved By L. David Buckman 9/30/2013 Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

BERENERGY CORPORATION

H. J. ROETZEL 'A' #26

SE NE SEC 2 T20S R11W

BARTON COUNTY, KANSAS

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SUMMARY

Berenergy Corporation completed the vertical H. J. Roetzel 'A' #26 as an oil well in the Cambrian-Ordovician Arbuckle Group where TD was reached at 3260' MD. Onsite geologic services started after surface casing was set at 1037' MD, and included examination of drill cuttings and Pason total gas/chromatography. Drill-cutting samples were analyzed at 30' intervals from 1370' - 1490' and 2170' - 2300' MD to look at the top of the Chase Group and at the Tarkio Limestone, respectively. 10-ft samples were analyzed from 2590' MD to TD. Open-hole logs were run from the base of the surface casing to TD, and included DIL-GR-SP-CNL-CDL-CAL-MLL.

Drilling

After 8 5/8" surface casing was set at 1037' MD, drilling with fresh water continued to 2520' MD. The remainder of the hole was drilled with water-based mud. At 2285' MD, the surface casing had risen ~2 ft and drilling stopped. Orders to TOOH were given so the excess pipe could be cut off. After open-hole logs were run, it became evident that the bottom joint of surface casing had fallen to 1208' MD. Besides abundant iron filings in the cuttings, no further problems occurred from this incident. DST 1 tested Lansing-Kansas City zones C, D, and E in interval 3016' - 3060' MD. Total depth was reached at 3260' MD, where DST 2 of interval 3250' - 3260' MD was run at the top of the Arbuckle. Lastly, 5 1/2" production casing was set at 3250' MD, allowing for 10 ft of open-hole production from the top of the Arbuckle.

Tarkio Limestone

No significant gas shows were noted while drilling the Tarkio Limestone. No hydrocarbons were observed.

Topeka Limestone

Total gas increased from a background of 20 units to a peak of 347 units when the bit entered the top of the Topeka Limestone. No hydrocarbon shows were observed.

Lansing-Kansas City Groups

Zones A through L were documented at this site. Porosities and shows varied from zone to zone depending on the type of limestone present, ranging from the most common oil-stained vug-type porosity to no-show tight micrite. Total gas averaged 150 to 200 units, with peak formation gas at 546 units and trip gas at 1253 units. DST 1 tested zones C through E and yielded 1 ft of oil on top of 1299 ft of gas-cut muddy water. Solvent tests of drill cuttings yielded a range of results from slow streaming pale yellow cuts to fast streaming blue-white cuts with white halos.

Arbuckle Group

The Arbuckle dolomite was the primary target for the Roetzel 'A' #26 well. Drill cuttings commonly exhibited oil-stained visible porosity and a strong petroliferous odor. Total gas was between 100 and 150 units in the top 9 ft of dolomite. Solvent tests of cuttings commonly yielded instant bright white-blue fast streaming cuts with white halos. DST 2 recovered 1698 ft of water and 932 ft of oil.

Ryan Thress
Consulting Wellsite Geologist
October 2013

Berenergy Corporation
H. J. Roetzel 'A' #26

WELL DATA

OPERATOR: Berenergy Corporation

WELL NAME: H. J. Roetzel 'A' #26

SURFACE LOCATION: 2530' FNL & 775' FEL
SE NE Sec. 2, T20S, R11W
Barton County, Kansas

LAT/LONG: 38.2972944° N, 98.4820429° W

ELEVATIONS: GL 1745' KB 1756'

API NUMBER: 15-009-25867

ROAD DIRECTIONS: From Great Bend, KS, travel east 16 miles on KS-96; turn right on 2nd Rd and travel 4 miles to Ave Q and turn right; travel 1 mile on Ave Q then turn right on SE 160th Ave and travel 1 mile; well on the left.

SURFACE CASING: 8 5/8" set at 1037' MD

PRODUCTION CASING: 5 1/2" set at 3250' MD

SPUD DATE: Morning of September 24, 2013

DRILLING COMPLETED: 02:00 September 30, 2013

TOTAL DEPTH: 3260' MD

LAST FORMATION: Arbuckle Group

WELL STATUS: Open-hole completion in the upper 9' of the Arbuckle Group

OPERATOR REPS: Energy Operating Company Inc.
David Braden – Engineer
Dan Hall – Engineer

WELLSITE SUPERVISION: L.E. Ed Buchanan

FORMATION TOPS--VERTICAL HOLE

Formation KB	Wireline Top MD	Datum 1756.0	Sample Drilled Thickness (ft)
Pennsylvanian	—		
Tarkio	2263	-507	21
Topeka	2594	-838	38
Heebner	2846	-1090	16
Toronto	2862	-1106	19
Douglas	2881	-1125	89
Brown-Lime	2970	-1214	4
Lansing-Kansas City Group	—		
Zone A	2990	-1234	16
Zone B	3006	-1250	12
Zone C	3018	-1262	14
Zone D	3032	-1276	24
Zone E	3056	-1300	7
Zone F	3063	-1307	15
Zone G	3078	-1322	56
Zone H	3134	-1378	16
Zone I	3150	-1394	17
Zone J	3167	-1411	32
Zone K	3199	-1443	36
Zone L	3235	-1479	16
Cambrian-Ordovician	—		
Arbuckle Group	3251	-1495	9
Total Depth Driller	3260	-1504	

Geologic ages from:

Moore et al. (1951); *The Kansas rock column* (No. 89-93). University of Kansas Publications.

LITHOLOGY AND SHOWS

The following descriptions are interpretive. Derrick hands collected lagged 10-ft samples over predefined intervals, along with spot samples to constrain select tops and when drilling activities dictated. Samples were reviewed with the aid of wireline logging tools from 1037' MD to a TD of 3260' MD, and wireline logs were adjusted to rig depths.

Samples were inspected using an Olympus SZ61 stereoscope. Grain sizes were determined by use of an AmStrat grain size comparator. Colors of wet cuttings were determined from the Rock-Color Chart distributed by the Geological Society of America. 10% HCl was used in acid reaction tests, and Alizarin red was used to aid with carbonate species determination.

Selected samples were examined for oil fluorescence with a US GeoSupply brand fluoroscope. Cut tests for liquid hydrocarbons were performed with solvent on wet cuttings. All samples collected were drilled with fresh water-based mud and sieved and rinsed in fresh water.

Significant gas shows, as determined with a Pason Gas Analyzer (TG; C1-C4), are described in each formation overview. The reader should refer to the accompanying mudlogs for the lagged record of all gas shows.

Surface Casing: 8 5/8" set at 1037' KB
Production Casing 5 1/2" set at 3250' KB
Total Depth: 3260' MD

WELLINGTON FM/ CHASE GROUP SAMPLE TOP: N/A' LOG: N/A' TVD: N/A' DATUM: N/A'

Overview: Note: Samples associated with depths 1370' MD - 1490' MD on the log were taken at 30ft intervals and due to lapses in communication were not lagged, and therefore probably represent the base of the Wellington Formation of the Sumner Group instead of the top of the Chase Group. Gray, silty shale predominates but there are also beds of green shale and deposits of dolomite, limestone, gypsum, and anhydrite. No significant gas shows were observed.

1370' – 1490' Predominately **SHALE**: light olive gray to greenish gray, soft to firm, occasional platy cuttings, some zones very calcareous, others non-calcareous without significant difference in appearance. Rare pyrite nodules, rare mollusk fossils, no fluorescence, no cut; locally **SILTSTONE**: medium gray to medium dark gray, firm, blocky cuttings, significant very fine sand, calcareous; with stringers of **LIMY DOLOMITE**: Light gray to medium gray, firm, sub-rounded cuttings, microcrystalline, effervescent in HCl, slight mottled stain in Alizarin, weak, diffuse cloudy dull yellow cut, patchy halo; and **LIMESTONE**: bluish white to light greenish gray, locally very pale orange, firm, platy cuttings, fossiliferous, locally sparry, very effervescent in HCl, no insoluble residue. No fluorescence, no cut, no shows; and **ANHYDRITE**: white to clear, locally dark yellowish brown, semi translucent, firm, rounded cuttings, no reaction in HCl, produces selenite crystals when reprecipitated; **GYPSUM**: selenite crystals <3mm, pearly white to translucent, fibrous structure, soft but brittle. Likely rehydrated and recrystallized anhydrite in fresh-water drilling fluid.

LITHOLOGY AND SHOWS

RICHARDSON GROUP SAMPLE TOP: N/A' LOG: N/A' TVD: N/A' DATUM: N/A'

Overview: The Richardson Subgroup comprises the youngest Pennsylvanian rocks of the Wabaunsee Group and includes strata from the top of the Brownville limestone to the top of the Tarkio limestone. Samples were caught at the base of the Richardson Subgroup to identify the transition into the Tarkio limestone. Predominantly shale with silty lenses and limestone stringers. No significant gas or oil shows were observed in this section.

2170' – 2263' Predominantly alternating species of **SHALE**: medium gray (N5) to medium dark gray (N4), very soft, platy to sub rounded, no to slight reaction in HCl; with **SHALE**: dark reddish brown (10R 3/4) to very dusky red (10R 2/2), platy, soft, slight to moderate reaction to HCl, locally gritty appearance; and also with **SHALE**: dark greenish gray (5GY 4/1), soft, platy, moderate reaction to HCl, light patchy oil staining; local lenses of **SILTSTONE**: medium gray (N5) to medium dark gray (N4), sub blocky, soft, gritty with local areas of high clay content, moderately reacts to HCl; with stringers of **LIMESTONE**: very light gray (N8) to light gray (N7), platy to sub blocky, firm to moderately hard, brittle, very reactive to HCl.

TARKIO LS SAMPLE TOP: 2263' LOG: 2263' TVD: 2263' DATUM: -507'

Overview: The Tarkio limestone is youngest member of the Nemaha Subgroup of the Wabaunsee Group. It is gray to weathered brown and commonly consists of two massive beds separated by a shaly zone. Fossils are very common, especially fusulinids. Algal remains are present in the upper bed. No significant gas or oil shows were observed in this section.

2263' – 2285' **LIMESTONE**: white (N9) to very light gray (N8), sub-blocky, soft to firm, reacts very strongly to HCl, very fossiliferous and local algal remains, no fluorescence, no cut.

SHAWNEE GROUP SAMPLE TOP: 2594' LOG: 2594' TVD: 2594' DATUM: -838'

Overview: The Shawnee group is part of the Upper Pennsylvanian Series and comprises four limestone formations and three shale formations. Thick limestones and a distinctive type of cyclic sedimentation are characteristics that distinguish these rocks from those of neighboring groups. Total Gas increased from a background of 20 units to a peak of 347 units when the bit entered the top of the Topeka Limestone. No hydrocarbon shows were observed.

2594' – 2676' **TOPEKA LIMESTONE**; **LIMESTONE**: mottled white (N9) to light gray (N7) to med. dark gray (N4), crystalline and algal limestone common, blocky, firm to very

LITHOLOGY AND SHOWS

hard, very fossiliferous, vigorous reaction to HCl, locally limestone occurs as a white (N9) grainstone, firm to hard, smells strongly of sulfur while reacting with HCl; and **LIMESTONE**: white (N9) to grayish orange (10YR 7/4), hard, sub blocky cuttings, fossiliferous, subhedral pyrite, rare vugs, locally a grainstone but more commonly dense, pale yellow fluorescence, slow diffuse pale yellow cut, pale yellow halo; interbedded with **SHALE**: light gray (N6) to med. dark gray (N4) to grayish black (N2), platy to sub blocky, very soft to moderately firm, locally micaceous, no reaction to a moderately strong reaction to HCl, pyrite nodules common.

- 2676' – 2701' Zone of **SHALE**: medium gray (N5) to brownish gray (5YR 4/1), platy, smooth, calcareous, trace pale yellow fluorescence; and **SHALE**: dark reddish brown (10R 3/4) to very dusky red (10R 2/2), platy, soft, slight to moderate reaction to HCl, locally gritty appearance.
- 2701' – 2752' Second limestone formation; **LIMESTONE**: moderate yellowish brown (10YR 5/4), firm, sub blocky cuttings, various textures, hacky appearance, unidentifiable fossil debris and possible oolites, locally sparry, no visible porosity, argillaceous to very argillaceous, very dull yellow fluorescence, yellow diffuse cloudy cut.
- 2752' – 2756' Zone of **SHALE**: medium gray (N5) to medium dark gray (N4), firm, platy cuttings, slightly calcareous, no fluorescence.
- 2756' – 2803' Third limestone formation; **LIMESTONE**: very pale orange (10YR 8/2), sub platy cuttings, very effervescent in HCl with minimal residue, micrite, tight, possible remnant finestral porosity with calcite fill, pale yellow with splotches of yellow mineral fluorescence, pale yellow diffuse cut.
- 2803' – 2807' Zone of **SHALE**: medium gray (N5) to medium dark gray (N4), firm, platy cuttings, slightly calcareous, no fluorescence; and **SHALE**: dark reddish brown (10R 3/4) to very dusky red (10R 2/2), platy, soft, slight to moderate reaction to HCl, locally gritty appearance.
- 2807' – 2846' OREAD LIMESTONE: fourth limestone formation of the Shawnee Group; **LIMESTONE**: Light brownish gray (5YR 6/1), very hard, blocky cuttings, micrite, tight, pale dull yellow fluorescence.
- 2846' – 2862' HEEBNER SHALE MEMBER of the OREAD LS: **SHALE**: med dark gray (N4) to dark gray (N3), platy and elongated, firm and brittle, locally very silty, strong reaction to HCl; also locally a very dusky red (10R 2/2), higher silt content, soft, slightly calcareous.
- 2862' – 2881' TORONTO LIMESTONE MEMBER of the OREAD LS: **LIMESTONE**: light brownish gray (5YR 6/1) to white (N9), firm, micrite, local intraclasts, tight, pale yellow fluorescence, pale yellow cut.

LITHOLOGY AND SHOWS

DOUGLAS GROUP SAMPLE TOP: 2881' LOG: 2881' TVD: 2881' DATUM: -1125'

Overview: The Douglas group underlies the Shawnee group conformably. The Douglas Group consists primarily of clastic rocks, the most prominent being shale. Limestones are quantitatively of minor importance. No significant oil or gas shows, though background Total Gas through the Douglas Group was on average 100 units.

2881' – 2970' Predominantly **SHALES**: medium gray (N5) to medium dark gray (N4), firm, platy cuttings, slightly calcareous, no fluorescence; and **SHALES**: moderate brown (5YR 3/4), moderately soft, sub blocky cuttings, gritty, silty, calcareous, no fluorescence; with minor stringers of **LIMESTONE**: light brownish gray (5YR 6/1) to white (N9), firm, micrite, local intraclasts, tight, pale yellow fluorescence, pale yellow cut.

BROWN LIME SAMPLE TOP: 2970' LOG: 2970' TVD: 2970' DATUM: -1214'

Overview: Easily recognizable marker bed right above the Lansing-Kansas City Group. The limestone is commonly dark brown and very hard, easily seen on engineering data. Included in this section is the shale zone that separates the BROWN LIME and the LANSING-KANSAS CITY GROUP. No significant gas or oil shows were observed in this section.

2970' – 2974' **LIMESTONE**: dark yellowish brown (10YR 4/2), blocky, angular, very hard, dense, crystalline, locally fossiliferous, reacts vigorously to HCl.

2974' – 2990' **SHALES**: medium gray (N5) to medium dark gray (N4), firm, platy cuttings, slightly calcareous, no fluorescence.

LANSING-KANSAS CITY GROUP SAMPLE TOP: 2990' LOG: 2990' TVD: 2990' DATUM: -1234'

Overview: The Lansing-Kansas City Group contains 12 limestone formations (zones 'A' through 'L') alternating with marine shale units and has a thickness of about 260 feet in this location. Many of the limestones are cross-bedded, oolitic, and algal. Porosities and shows varied from zone to zone depending on the type of limestone present, ranging from the most common oil-stained vug-type porosity to no-show tight micrite. Total Gas averaged between 150-200 units, with the peak formation gas at 546 units and trip gas at 1253 units. The first DST tested zones 'C' through 'E' and yielded 1' of oil on top of 1299' of gas-cut muddy water. Solvent tests also yielded a range of results from slow streaming pale yellow cuts to fast streaming blue-white cuts with white halos.

2990' – 3006' Zone A; **LIMESTONE**: moderate yellowish brown (10YR 5/4), locally very pale orange (10YR 8/2), firm, blocky cuttings, micrite, less commonly peloidal, local

LITHOLOGY AND SHOWS

vugs and fenestral porosity, oil staining, rare ammonite fossils, slow streaming to cloudy light blue cut, light blue halo; **SHALE**: moderate brown (5YR 3/4), moderately firm, platy to sub platy cuttings, generally smooth, locally gritty/silty, calcareous.

- 3006' – 3018' Zone B; **LIMESTONE**: white (N9) to grayish orange (10YR 7/4), hard, sub blocky cuttings, fossiliferous, subhedral pyrite, rare vugs, locally a grainstone but more commonly dense, local oil staining, pale yellow to yellow fluorescence; **SHALE**: medium gray (N5), firm platy chips and bit scrapings, locally silty, non-calcareous, silty chips remain intact in H₂O, no fluorescence.
- 3018' – 3032' Zone C; **LIMESTONE**: light brownish gray (5YR 6/1), firm, sub platy cuttings, varied textures, fossiliferous, well preserved ammonite, slight porosity and oil staining, yellow fluorescence, light blue streaming cut, patchy halo; **SHALE**: med. dark gray (N4) to black (N1), mod firm, locally calcareous, common pyrite, common thin (< 1mm) black lamina, no fluorescence.
- 3032' – 3056' Zone D; **LIMESTONE**: white (N9) to mod yellowish brown (10YR 5/4), sub blocky to platy, firm, micrite, commonly fossiliferous, locally soft and chalky, trace fenestral porosity, common light oil staining, pale yellow fluorescence, fast streaming to cloudy white blue cut, patchy halo.
- 3056' – 3063' Zone E; **LIMESTONE**: white (N9), boundstone or biolithite with inter- and intra-clastic porosity stained with oil residue, calcareous, slow streaming blue cut, faint halo; and **LIMESTONE**: light brownish gray (5YR 6/1), very firm, micrite, no visible porosity, locally chalky and moderately firm, locally oil stained.
- 3063' – 3078' Zone F; **LIMESTONE**: very pale orange (10YR 8/2), occurs as ~1mm sub-rounded chips, firm to hard, locally fossiliferous - fossils mainly occur as loose crinoid hash, reacts vigorously to HCl, occasional chip has fast streaming blue cut.
- 3078' – 3134' Zone G; A thick sequence of **LIMESTONE**: yellowish gray (5Y 8/1), blocky, very hard, tight, fenestral porosity in-filled with translucent calcite cement, common vug porosity, fossiliferous, occasional oil staining, pale yellow fluorescence, streaming bright yellow cut; and **LIMESTONE**: mottled yellowish gray (5Y 8/1) and greenish gray (5G 6/1) to med bluish gray (5B 5/1) packstone, soft to moderately firm, sub angular chips; and **LIMESTONE**: mod yellowish brown (10YR 5/4), locally very pale orange (10YR 8/2), firm, sub blocky cuttings, micrite but also commonly peloidal, local vug porosity and fenestral porosity, oil staining inside of vugs, rare fossils, instant fast streaming bright white blue cut, bright yellow halo.
- 3134' – 3150' Zone H; **LIMESTONE**: yellowish gray (5Y 8/1), micrite, very hard, sub blocky, local vug porosity and stylolites, vugs and stylolites are oil stained, locally fossiliferous, instant fast streaming blue white cut, dull yellow halo; and **SHALE**: med light gray (N6) to dark greenish gray (5GY 4/1) to dark reddish brown (10R 3/4), mod firm, platy to sub blocky cuttings, generally smooth, locally gritty/silty, locally calcareous.
- 3150' – 3167' Zone I; **LIMESTONE**: white (N9) to med light gray (N6) to mod yellowish brown (10YR 5/4), micrite, locally vuggy with oil stains, common fenestral porosity, also

LITHOLOGY AND SHOWS

oil stained; grainstone to boundstone, very fossiliferous, light intraparticle oil staining, dull yellow fluorescence, slow streaming dull yellow green cut.

- 3167' – 3199' Zone J; **LIMESTONE**: white (N9) to light gray (N7), occurs as ~1mm sub-rounded grains/chips and ~5mm blocky chips, firm to hard, locally fossiliferous - fossils mainly occur as loose crinoid hash, reacts vigorously to HCl; also fossiliferous grainstone, rare pyrite, dull yellow fluorescence, slow streaming blue white cut; and **SHALE**: med dark gray (N4) to a dark greenish gray (5G 4/1), platy to sub blocky, soft to mod firm, locally micaceous, locally calcareous.
- 3199' – 3235' Zone K; **LIMESTONE**: mottled pale yellowish brown (10YR 6/2) with very light gray (N8), crystalline, firm to hard, blocky, locally fossiliferous, locally vuggy with oil residue, rare intercrystal porosity, instant fast streaming to cloudy white cut; and **LIMESTONE**: white (N9) to med light gray (N6) to mod yellowish brown (10YR 5/4), micrite, hard, blocky, locally vuggy, no oil stains, locally fossiliferous, weak slow streaming pale yellow cut; and **SHALE**: grayish black (N2) to a dark greenish gray (5G 4/1), platy, soft to mod firm, locally micaceous, locally silty, calcareous, no fluorescence, no cut.
- 3235' – 3251' Zone L; **LIMESTONE**: white (N9) to med light gray (N6) to moderate yellowish brown (10YR 5/4), micrite, locally crystalline, hard, locally soft and chalky, blocky, locally vuggy, no oil stains, locally fossiliferous, no fluorescence, no cut; and **LIMESTONE**: very pale orange (10YR 8/2) to pale yellowish brown (10YR 6/2), blocky, firm to hard, though can be soft, algal laminations visible, fossiliferous, no oil staining, patchy dull yellow fluorescence, no cut; and **SHALE**: med dark gray (N4) to a dark greenish gray (5G 4/1), platy to sub blocky, long thin blades common, soft to mod firm, locally micaceous, locally calcareous.
- ARBUCKLE GROUP SAMPLE TOP: 3251' LOG: 3251' TVD: 3251' DATUM: -1495'
- Overview: The Arbuckle Dolomite (Cambrian-Ordovician), composed mostly of light gray to white, vuggy dolomite, was the primary target for the Roetzel 'A' #26 well. Drill cuttings commonly had oil-stained, visible porosity and a strong petroliferous odor. Total Gas was between 100-150 units in the top 9' of the dolomite. Solvent tests often yielded instant bright white-blue fast streaming cuts with white halos. The second DST resulted in 932' of oil.
- 3251' – 3260' TD **DOLOMITE**: white (N9) to buff, crystalline, sucrosic texture common, visible porosity, hard, vugs common, no stain in Alizarin Red, slow mild reaction in HCl, strong petroliferous odor, yellow fluorescence, instant bright white blue fast streaming cut and milky cloud, white halo.

SERVICES

CONTRACTOR:	Val Energy Rig 2	Wichita, KS
SUPERVISION:	L.E. Ed Buchanan	661-204-2565
WELLSITE GEOLOGY:	T. M. McCoy & Co., Inc. Ryan J. Thress	Wilson, WY 307-733-4332
RIG INSTRUMENTATION:	Pason Systems	Golden, CO 877-255-3158
WIRELINE SERVICES:	Pioneer Energy Services Dale Legleiter	Hays, KS 785-625-3858
DRILLSTEM TESTING:	Trilobite Testing, Inc. Andy Carriera	Hays, KS 785-625-4778
PRODUCTION CASING:	Murray Casing Crews Inc.	Great Bend, KS 620-793-7587
CEMENT:	Allied Oil & Gas Services	Great Bend, KS 620-793-3600

DAILY OPERATIONS

Day	Report Date	Depth	Ft Cut	Start	End	Hrs	Reported Activity (previous 24 hr leading to 6am report time)
0	9/24	0	0	07:00	21:00	00:00	Mobe in rig & rig up equipment. Welder fabricate sample box for Pason gas detector.
				21:00	23:30	12:00	Drill rat & mouse holes
				23:30	06:00	12:00	Dry watch rig
							Note: Will spud 12.25" surface hole tomorrow morning 9/24/2013
1	9/25	1037	1037	06:00	06:30	12:00	Dry watch rig
				06:30	08:15	18:00	Finish rig up to spud 12.25" hole
				08:15	15:15	00:00	Drlg 12.25" surface hole F/surface T/420'
				15:15	15:30	06:00	Service rig
				15:30	04:00	12:00	Drlg 12.25" surface hole F/420' T/1037'
				04:00	04:30	12:00	Circ hole clean
				04:30	06:00	12:00	Wipe hole to bit
2	9/26	1037	0	06:00	06:45	18:00	Wipe hole RIH tagged at 1022' (15' fill)
				06:45	07:15	12:00	Circ hole clean
				07:15	08:30	06:00	Drop survey tool . Pooh
				08:30	12:15	18:00	3rd party safety meeting with rig crew & casing crew. R/U power tongs. Run 24 jts 24# 1040.27' J-55 ST&C 8rd 8 5/8" csg. Shoe set @ 1037', float collar @ 992'
				12:15	13:00	18:00	Install 8 5/8" circ swedge & circ 12' fill to bottom at 1037'. Reciprocate 20' while circ casing clean. R/D casing tongs. Hold 3rd party safety meeting with rig crew & cementers. Install 8 5/8" cement head
				13:00	14:15	06:00	Test lines to 2000psi. Pump 5bbls fresh water ahead followed by 591/ft3 or 105bbls or 300sx of Lead Cmt Yield=1.97ft3/sx Density=12.5ppg Water=10.7gal/sx followed by 234/ft3 or 41.6bbls or 200sx of Tail Cmt Yield=1.17ft3/sx Water=6.4gal/sx Density=14.8ppg. Drop wiper plug displace with 63.43bbls fresh water. Bump plug with 800psi with 300psi prior. Hold 800 psi for 5 minutes, release pressure, float held (ok) CIP @ 14:15hrs 9/25/2013 Received 23bbls good cmt returns to surface

DAILY OPERATIONS

Day	Report Date	Depth	Ft Cut	Start	End	Hrs	Reported Activity (previous 24 hr leading to 6am report time)
							Monitor cmt for fall back, no fall back (ok) R/D cementers
				14:15	02:15	00:00	Wait on cement
				02:15	05:15	00:00	Break off landing joint, Install Larkin wellhead. N/U annular Bop. Welder cut off 10" top of flow nipple
				05:15	06:00	18:00	Make up bit #2 7.875" tricone bit, BHA & RIH
3	9/27	2022	985	06:00	06:30	12:00	RIH tagged cement at 986'
				06:30	07:00	12:00	Service Rig
				07:00	07:45	18:00	Calibrate Pason recorder equipment
				07:45	08:45	00:00	Drlg out cement & shoe F/986' to shoe @ 1037'. 51' / 1hr / 51 fph
				08:45	14:30	18:00	Drlg 7 7/8" hole F/1037' T/1390'. 353' / 5.75hrs / 61.39 fph
				14:30	14:45	06:00	Service Rig
				14:45	19:00	06:00	Drlg 7 7/8" hole F/1390' to 1585'. 195' / 4.25hrs / 45.88 fph
				19:00	20:00	00:00	Crown-a-matic bracket broke off, release brakes. Pooh 4 stands to 1359'. Weld on crown-a-matic bracket. RIH T/1585'
				20:00	22:45	18:00	Drlg 7 7/8" hole F/1585' T/1771'. 186' / 2.75hrs / 67.63 fph
				22:45	23:00	06:00	Service Rig
				23:00	23:45	18:00	Drlg 7 7/8" hole F/1771' T/1802'. 31' / 0.5hrs / 62 fph
				23:45	00:00	06:00	Repair auto driller
				00:00	05:15	06:00	Drlg 7 7/8" hole F/1802' T/2019'. 217' / 5.25hrs / 41.33 fph
				05:15	05:45	12:00	Survey at 2019'
				05:45	06:00	06:00	Drlg 7/ 7/8" hole F/2019' T/2022'. 3' / 0.25hrs / 12 fph
4	9/28	2688	666	06:00	06:45	18:00	Drlg 7 7/8" hole F/2022' T/2051'. 29' / 0.75hrs / 38.66 fph
				06:45	07:00	06:00	Service Rig
				07:00	12:00	00:00	Drlg 7 7/8" hole F/2051' T/2285'. 234' / 5hrs / 46.8 fph
				12:00	12:30	12:00	Pooh T/1979', main rotary chain busted. Pvc flow line broke off flow nipple from Bop Surface casing has grown 14".

DAILY OPERATIONS

Day	Report Date	Depth	Ft Cut	Start	End	Hrs	Reported Activity (previous 24 hr leading to 6am report time)
				12:30	13:30	00:00	Main input chain in drawworks to rotary clutch broke, repair same
				13:30	14:15	18:00	Pooh F/1979' to surface
				14:15	18:15	00:00	N/D Bope, Have welder cut 2' out of surface csg to lower wellhead by two foot, N/U Bope, install flow line
				18:15	19:15	00:00	RIH T/1037' tagged bridge below shoe
				19:15	19:45	12:00	Wash out bridge F/1037' to 1099'. (wash 62' bridge)
				19:45	20:00	06:00	RIH F/1099' T/2210' tagged bridge
				20:00	20:15	06:00	Wash out bridge F/2210' T/2285' (wash 75' fill to bottom)
				20:15	23:00	18:00	Drlg 7 7/8" hole F/2285' T/2422'. 137' / 2.75hrs / 49.81 fph
				23:00	23:15	06:00	Service Rig
				23:15	00:30	06:00	Drlg 7 7/8" hole F/2422' T/2495'. 73' / 1.25hrs / 58.4 fph
				00:30	01:00	12:00	Clean suction pit to displace hole with chemical mud
				01:00	06:00	00:00	Drlg 7 7/8" hole F/2495' T/2688'. 193' / 5hrs / 38.6 fph (Mud displacement completed at 2520')
5	9/29	3060	372	06:00	06:45	18:00	Drlg 7 7/8" hole F/2688' T/2703'. 15' / 0.75hrs / 20 fph
				06:45	07:00	06:00	Service Rig (EDR down reboot same)
				07:00	15:00	00:00	Drlg 7 7/8" hole F/2703' T/3015'. 312' / 8hrs / 39 fph
				15:00	15:30	12:00	Service Rig
				15:30	17:15	18:00	Drlg 7 7/8" hole F/3015' T/3060'. 45' / 1.75hrs / 25.7 fph
				17:15	17:45	12:00	Circulate bottoms up
				17:45	19:15	12:00	Wipe hole to shoe at 1037'. RIH to 3060'
				19:15	20:15	00:00	Circulate 60 minutes 2 x bottoms up
				20:15	22:15	00:00	Drop survey tool, Pooh for DST #1 (Strap drill pipe out)
				22:15	23:00	18:00	Pick up & make up DST tools
				23:00	00:45	18:00	RIH with DST #1
				00:45	05:15	12:00	Open DST tool. (IF) 15 minutes had 1 minute bottom of bucket blow, (ISI) 60 min, (FF) 60 min, (FSI)120 min

DAILY OPERATIONS

Day	Report Date	Depth	Ft Cut	Start	End	Hrs	Reported Activity (previous 24 hr leading to 6am report time)
				05:15	06:00	18:00	Pooh with DST #1 Note: Bit #2 looks new Note: Pason EDR system went down several times today, Pason showed up @ 03:30hrs 9/29/2013 to repair same
6	9/30	3260	200	06:00	06:30	12:00	Pooh with DST #1, gas at 1330', shut down & wait for daylight
				06:30	07:45	06:00	Wait on daylight to finish Pooh with DST #1
				07:45	08:45	00:00	Pooh with DST #1. 2 hand held H2S montitors alarms going off, 38 & 38.9ppm H2S
				08:45	10:30	18:00	Wait on floor fan & breeze to finish trip out with DST #1. Rig up floor fan
				10:30	11:00	12:00	Pooh with DST #1 (Very gassey)
				11:00	11:45	18:00	Remove clocks & lay down DST tools
				11:45	13:00	06:00	Make up bit #2, BHA & RIH to 493'
				13:00	14:15	06:00	Bit plugged. Pooh BHA rebuild drill string float
				14:15	16:45	12:00	Make up bit #2, BHA & RIH to 3060' (fill pipe at 1458')
				16:45	23:00	06:00	Drlg 7 7/8" hole F/3060' T/3234'. 174' / 6.25hrs / 27.8 fph
				23:00	03:00	00:00	Drlg 7 7/8" hole in 5' increments. Circ samples F/3234' t 3260'. 26' / 4hrs / 6.5 fph
				03:00	04:15	06:00	Wipe hole 10 stands F/3260' T/2609', RIH to 3260'
				04:15	05:15	00:00	Circ hole clean for DST #2
				05:15	06:00	18:00	Pooh for DST #2
7	10/1	3260	0	06:00	07:00	00:00	Pooh for DST #2
				07:00	07:30	12:00	Make up tools for DST #2
				07:30	08:30	00:00	RIH with DST #2
				08:30	13:00	12:00	Open DST for 15 min (IF) bottom of bucket 20 sec. (ISI) 60 min gas to surface bottom of bucket in 12 min. (FF) 60 minutes, bottom of bucket immediately caught gas sample 2nd open (FSI) 120 min
				13:00	13:30	12:00	Release packers. Pooh with DST #2 to 2567', oil & gas at 11 stands out with 28-30 ppm H2S gas
				13:30	14:30	00:00	Wait on vac truck to reverse out oil from DST #2

DAILY OPERATIONS

Day	Report Date	Depth	Ft Cut	Start	End	Hrs	Reported Activity (previous 24 hr leading to 6am report time)
				14:30	16:00	12:00	Reverse out 9bbls live oil to vac truck, reverse 20bbls gassey water to reserve pit (Estimate 12bbls oil recovery DST #2)
				16:00	16:45	18:00	Pooh with DST #2
				16:45	17:45	00:00	Remove clocks & lay down DST tools
				17:45	19:30	18:00	Make up bit #2, BHA & RIH to 3260' (Fill BHA at 500')
				19:30	20:00	12:00	Circulate bottoms up
				20:00	20:30	12:00	Wipe hole 12 stands to 2500', RIH to 3260'
				20:30	22:00	12:00	Circulate hole clean for logs
				22:00	23:30	12:00	Pooh for logs
				23:30	06:00	12:00	Held 3rd party safety meeting with rig crew & Pioneer loggers. R/U logging tools. Run GR-DILL-CND / GR on bottom / Son-Mill. Drillers TD=3260' Loggers TD=3257'. R/D Loggers
8	10/2	3260	0	06:00	06:45	18:00	Make up 7 7/8" bit #2, BHA T/493' (Fill BHA)
				06:45	07:15	12:00	Service Rig
				07:15	08:30	06:00	Crew & Tools cost
				08:30	11:30	00:00	Circulate hole clean for 5.5" production casing (Unload 5.5" casing, drift, clean threads, & strap same)
				11:30	15:45	06:00	Lay down drill pipe, dcs', swivel, kelly, rat hole & mouse hole
				15:45	18:00	06:00	Held 3rd party safety meeting with rig crew & casing crew. R/U power tongs. Run 79 joints of 15.5#/ft 5.5" production csg. Shoe set @ 3250', latch plug @ 3213.10', flag joint @ 2821.44'. R/D casing tongs & tools (Baker-Lok triplex shoe & 2nd jnt csg)
				18:00	19:30	12:00	Install head, circulate to bottom, mark csg & pickup 10' off bottom @ 3250'. Drop ball set cement basket & open sliding sleeve
				19:30	21:00	12:00	Held 3rd party safety meeting with rig crew & cementers while circulate 5.5" csg Test lines to 2000psi, pump 5bbls fresh water, followed by 10bbls mud flush, followed by 5bbls fresh water.

DAILY OPERATIONS

Day	Report Date	Depth	Ft Cut	Start	End	Hrs	Reported Activity (previous 24 hr leading to 6am report time)
							Mix 30sx cmt pump in rat hole, mix 20sx cmt pump in mouse hole. Pump 274.75/ft3 or 48.93bbbls or 175sx of ASC cmt rate of 6 bpm Yield=1.57ft3/sx Water=7.23gal/sx Density=14.5ppg. Shut down flush lines clean, drop latch plug, displace with 76.47bbbls fresh water. Bump plug with 1100psi with 500psi prior to bump rate of 5bpm. Hold 1100psi for 5 minutes, release pressure latch plug held (ok) CIP @ 21:00hrs
				21:00	22:30	12:00	N/D Bop & lift same, set 5.5" csg slips with 56K. Cut off 5.5" csg, L/D Bop. Cap 5.5" csg with weep hole. R/D cementers
				22:30	06:00	12:00	Clean mud pits, shovel out cuttings from same
9	10/3	3260	0	06:00	07:00	00:00	Finish clean out mud pits ((Release Val Rig #2 @ 07:00hrs 10/02/2013))
				07:00	13:00	00:00	Return 7 joints 5.5" & 12' cut 5.5" csg with weld head, nipple, ball valve, bull plug & csg thread dope to Sunrise yard Pason R/D gas detector, geologist work station, rig monitor equipment
				13:00	06:00	00:00	Dry watch rig (Wait for morning to R/D & load out Hoppes & Pason equipment) Hoppes will be Here in the morning between 09:00 /10:00hrs 10/03/2013 to R/D man camp & equipment & move out same Pason will be here in morning 08:00hrs 10/03/2013 to R/D Satelite System & move out same
10	10/4	3260	0	06:00	08:00	00:00	Wait for Pason & Hoppes
				08:00	14:00	00:00	R/D Pason Satelite System, load out same. R/D Hoppes man camp, potable water tank, generator,pump out septic tanks & load out all equipment Rainbow Trucking loading up & moving Val Rig #2 off location at 07:00hrs

MUD RECORD

Date	Depth	Wt	Vis	PV	YP	Gels	WL	Cake	pH	Alkalinity	H ₂ O %	Chlorides	Solids	Sand	Calcium	LCM	Remarks
9/24	0																
9/25	1037	9.8	35														
9/26	1037	9.8	36	5	11	16/18	n/c	n/c	8.0		89	35,000	10.7	1		0.5	
9/27	2022	8.7	26	1	1	0	n/c	n/c	11.5	1.5	99.5	49,000	10.7	trace	hvy	0	
9/28	2688	9.3	30	4	5	2/2	n/c	n/c	7.0	0.0	95.4	49,000	4.6	trace	hvy	0	
9/29	3060	8.8	48	11	11	15/18	8.80	1	11.0	1.1/-	96.7	6,700	3.3	trace	20	0	
9/30	3260	9.2	49	13	11	10/52	9.20	2	10.5	0.45/-	94.7	7,100	5.3	trace	20	0	
10/1	3260	9.2	53	12	12	13/53	9.20	1	11.0	0.59/-	94	8,300	6	trace	0	0.5	
10/2	3260	9.2	68	16	14	18/64	9.60	2	10.5	0.33/-	94.2	9,500	5.8	trace	60	trace	
10/3	3260																
10/4	3260																

ABBREVIATIONS & UNITS

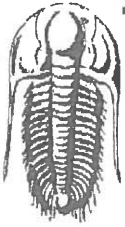
Weight (Wt)	lbs/gal
Viscosity (Vis)	sec/qt
Plastic Viscosity (PV)	centipoise
Yield Point (YP)	lbs/100 sq ft
Gel Strengths (Gels)	lbs/100 sq ft (10 sec / 10 min)
Filter cake	x/32"
Alkalinity	ppm
H ₂ O %	% water by volume
Chlorides	ppm in water phase
Solids	% by volume
Sand	% by volume
Calcium	ppm in water phase
Lost circulation material (LCM)	lb/bbl added

BIT RECORD

Run	Bit	Size	Make	Serial No.	Type	Depth	Ft	Hrs	Ft/Hr	WOB	RPM	Pump	Pump	Nozzle	Condition	Reason
						Out	Cut			K		Press	GPM	Size	TBG	Pulled
1	1	12 1/4	J2	N/A	Reip Tricone	1037	1037	19.5	53.1	15	140	400	335	3x15	6/6/1/8"out	Surface Casing
1	2	7 7/8	J2	1315501	HA20 Tricone	1979	942	33.8	51.8	26-35	80-100	800	358	2x14-1x15	-	
2	2	7 7/8	J2	1315501	HA20 Tricone	3060	1081	44.5	45.7	26-35	80-100	800	358	2x14-1x15	1/1/IN	
3	2	7 7/8	J2	1315501	HA20 Tricone	3260	200	54.5	40.8	35	80	980	300	2x14-1x15	1/1/IN	

DEVIATIONS

MD ft	INC deg
0	0
1037	1
2019	1
3060	1



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berenergy Corp.
PO Box 5850
Denver Co. 80217+5850

ATTN: Ryan Thress

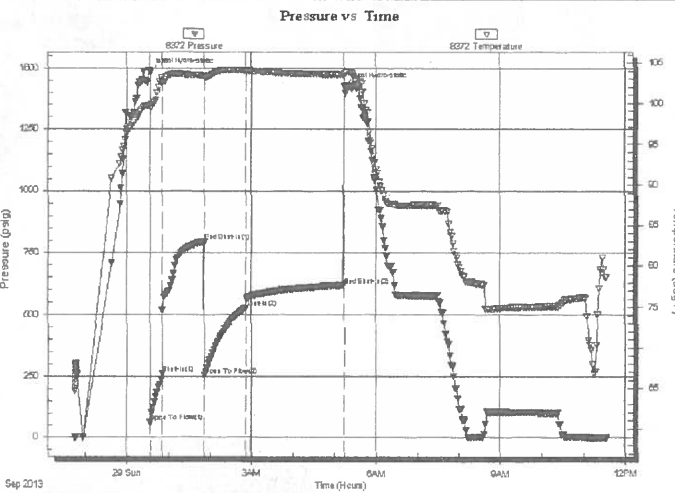
24-20s-11w Barton
Roetzel "A" #26
Job Ticket: 53630 DST#: 1
Test Start: 2013.09.28 @ 22:45:01

GENERAL INFORMATION:

Formation: LKC "D-F"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:34:00
Time Test Ended: 11:33:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 68
Interval: 3016.00 ft (KB) To 3060.00 ft (KB) (TVD)
Reference Elevations: 1755.00 ft (KB)
Total Depth: 3060.00 ft (KB) (TVD) 1745.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8372 Inside
Press@RunDepth: 527.90 psig @ 3021.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.28 End Date: 2013.09.29 Last Calib.: 2013.09.29
Start Time: 22:45:01 End Time: 11:33:30 Time On Btm: 2013.09.29 @ 00:33:30
Time Off Btm: 2013.09.29 @ 05:14:30

TEST COMMENT: IF:(15min) BOB in 1 Min.
ISl:(60min) No Return
FF:(60min) BOB in 2 min.
FSl:(120min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1482.09	99.79	Initial Hydro-static
1	61.56	99.44	Open To Flow (1)
18	261.12	102.65	Shut-in(1)
78	793.39	103.40	End Shut-in(1)
79	253.55	103.22	Open To Flow (2)
139	527.90	104.03	Shut-in(2)
281	618.31	103.54	End Shut-in(2)
281	1425.34	103.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1299.00	MCGW g=15% m=10% w=75%	18.22
1.00	GO	0.01

Gas Rates

Chole (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

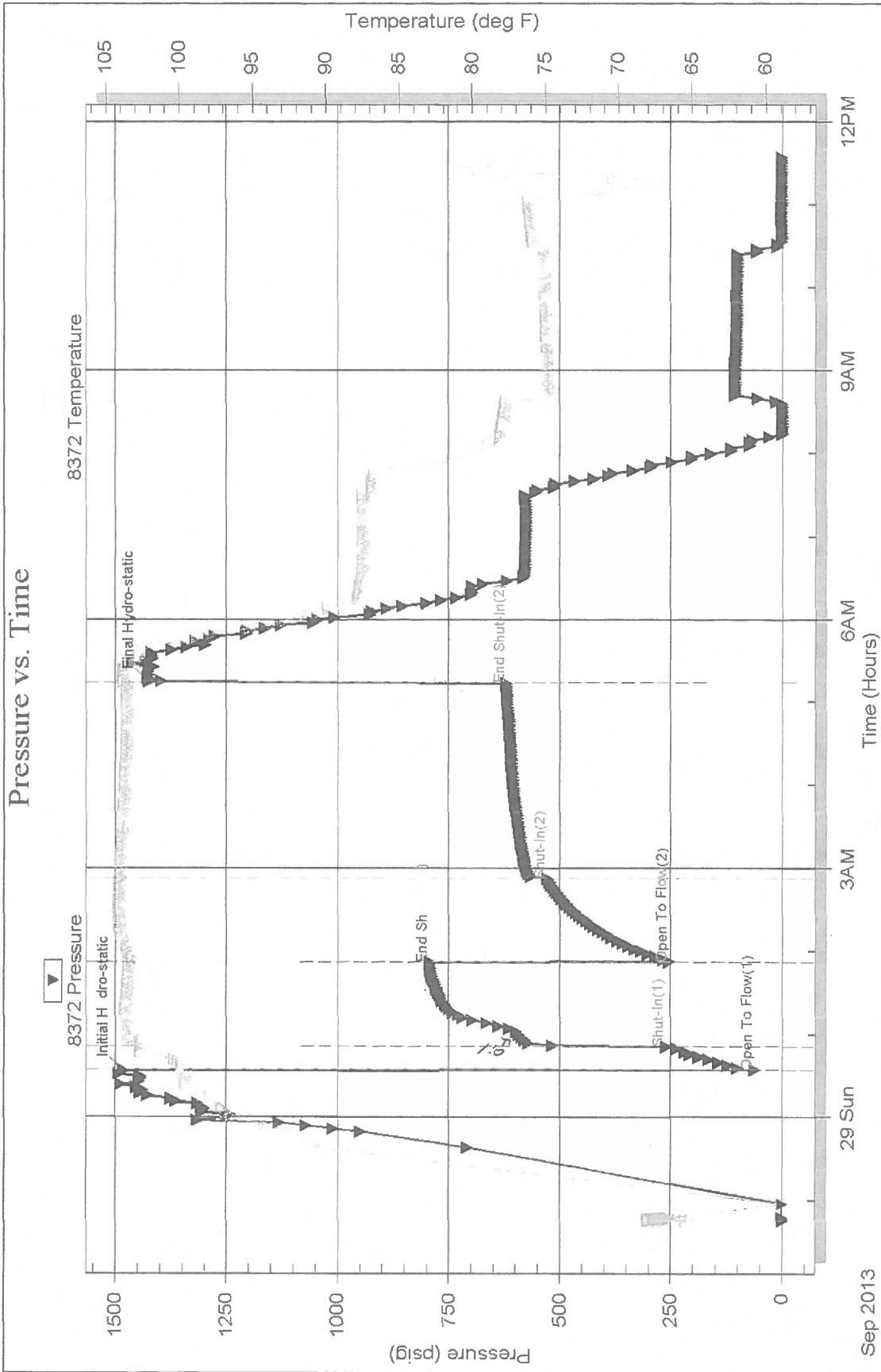
Serial #: 8372

Inside

Berenergy Corp.

Roetzel "A" #25

DST Test Number: 1



Printed: 2013.09.29 @ 12:04:58

Ref. No: 53630

Trilobite Testing, Inc



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53630

Well Name & No. Roetzel "A" #26 Test No. 1 Date 9-28-13
 Company BE ENERGY CORP Elevation 1755 KB 1745 GL
 Address PO BOX 5850 DENVER CO, 80217+5850
 Co. Rep / Geo. RYAN THRESS Rig VAL #2
 Location: Sec. 24 Twp. 20S Rge. 11W Co. BARTON State Ks

Interval Tested 3016-3060 Zone Tested LKC "D-F"
 Anchor Length 44' Drill Pipe Run 3013 Mud Wt. ~~5.2~~ 8.8
 Top Packer Depth 3011 Drill Collars Run 0 Vis ~~8.8~~ 5.2
 Bottom Packer Depth 3016 Wt. Pipe Run 0 WL 8.8
 Total Depth 3060 Chlorides 6700 ppm System LCM 0

Blow Description IF: BOB 1min
ISI: NO RETURN
FF: BOB 2min
FSI: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>30</u>				
<u>1299</u>	<u>MCGW</u>				

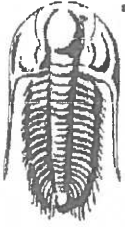
Rec Total 1300 BHT 103° Gravity API RW 273 @ 73° F Chlorides 26000 ppm

(A) Initial Hydrostatic 1482 Test 21:05 T-On Location
 (B) First Initial Flow 61 Jars 22:45 T-Started
 (C) First Final Flow 261 Safety Joint 00:57 42 T-Open
 (D) Initial Shut-In 793 Circ Sub 04:57 T-Pulled
 (E) Second Initial Flow 253 Hourly Standby 5hrs T-Out 11:40
 (F) Second Final Flow 527 Mileage 180RT Comments
 (G) Final Shut-In 618 Sampler 5 hrs standby
 (H) Final Hydrostatic 1425 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder
 Day Standby
 Accessibility

Initial Open 15 Sub Total _____
 Initial Shut-In 60 Total _____
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 120 Sub Total _____

Approved By L. David Bushman 9/29/2013 Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berenergy Corp.
PO Box 5850
Denver Co. 80217+5850
ATTN: Ryan Thress

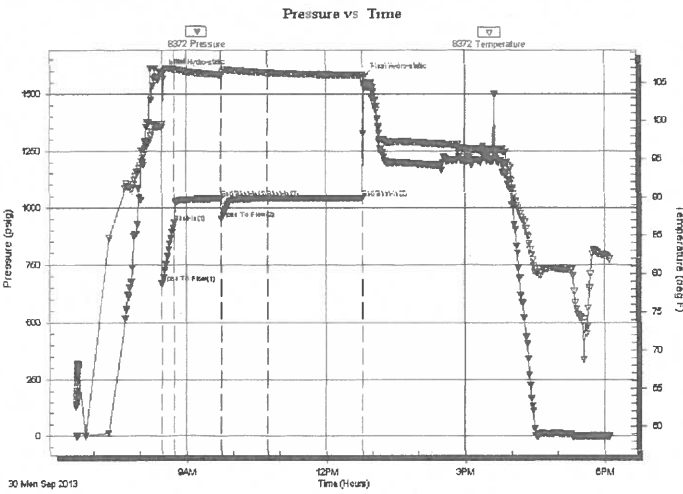
24-20s-11w Barton
Roetzel "A" #26 26
Job Ticket: 53631 DST#: 2
Test Start: 2013.09.30 @ 06:38:01

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:28:30
Time Test Ended: 18:07:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 68
Interval: **3250.00 ft (KB) To 3260.00 ft (KB) (TVD)**
Total Depth: 3260.00 ft (KB) (TVD)
Reference Elevations: 1755.00 ft (KB)
1745.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 10.00 ft

Serial #: 8372 Inside
Press@RunDepth: 1042.45 psig @ 3251.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.09.30 End Date: 2013.09.30 Last Calib.: 2013.09.30
Start Time: 06:38:01 End Time: 18:07:30 Time On Btm: 2013.09.30 @ 08:28:00
Time Off Btm: 2013.09.30 @ 12:49:30

TEST COMMENT: IF:(15min) BOB in 20 seconds
ISl:(60min) GTS during bleed off. Blow built to BOB in 12 min. Gas burned w/ orange flame
FF:(60min) BOB immediately. Gas TSTM
FSl:(120min) Return blow, built to BOB in 6 min. after bleed off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1592.50	99.05	Initial Hydro-static
1	671.63	99.44	Open To Flow (1)
17	934.30	106.74	Shut-In(1)
77	1042.27	106.02	End Shut-In(1)
78	950.69	106.05	Open To Flow (2)
137	1042.45	106.30	Shut-In(2)
260	1043.84	105.95	End Shut-In(2)
262	1573.61	104.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1698.00	Water	21.85
932.00	Oil	12.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DST Test Number: 2

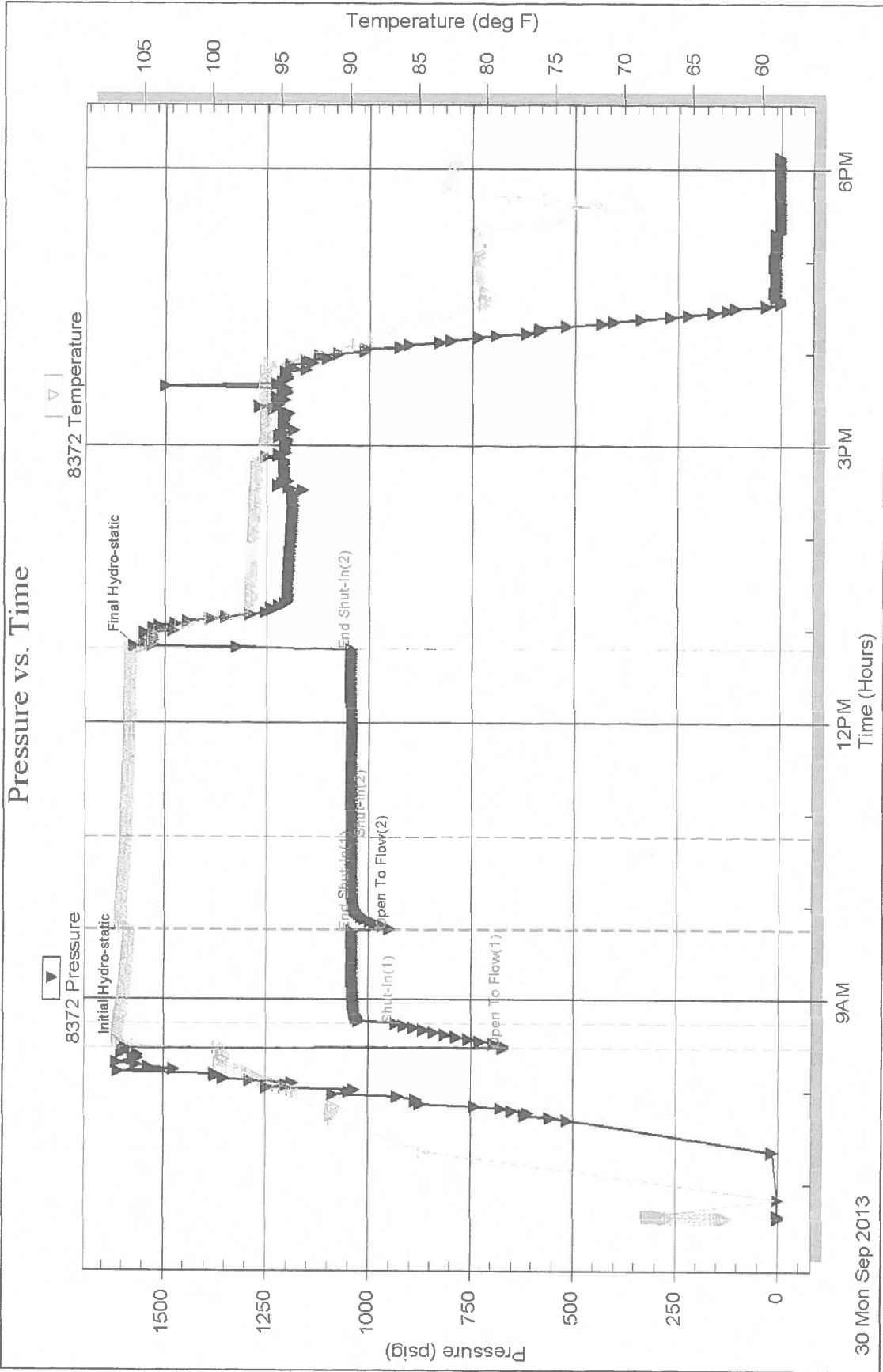
Roetzel "A" #25

Bereenergy Corp.

Inside

Serial #: 8372

Pressure vs. Time



Printed: 2013.09.30 @ 18:37:28

Ref. No: 53631

Trilobite Testing, Inc

WF

NATURAL GAS ANALYSIS REPORT
GPA 2145-09

Sampled by:
Trilobite Testing, Inc.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-482-2371
Fax: 620-626-7108

Lab Number: 20132235 Analyzed: 10/04/13
Sample From: RUETZEL A-26 Pressure:
Producer: BERENERGY CORP Temperature:
Date: Location: 24-20-11
Time: County: BARTON
Sampler: State: KANSAS
Source: DST 2 Formation: ARBUCKLE

	Mole %	GPM
Helium He:	0.357	0.000
Hydrogen H2:	0.000	0.000
Oxygen O2:	0.000	0.000
Nitrogen N2:	15.778	0.000
Carbon Dioxide CO2:	0.027	0.000
Methane C1:	36.899	0.000
Ethane C2:	13.129	4.924
Propane C3:	14.051	5.267
Iso Butane iC4:	3.128	0.958
Normal Butane nC4:	7.260	2.309
Iso Pentane iC5:	2.096	0.575
Normal Pentane nC5:	2.767	0.765
Hexanes Plus C6+:	4.508	1.036

TOTAL: 100.000 15.834
Z Fact: 0.9994
SP.GR.: 1.1840
BTU (SAT): 1728.0 @ 14.73 psia
BTU (DRY): 1758.6 @ 14.73 psia
OCTANE RATING: 88.9

COMMENTS: 303-297-951 0.000



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 53631 Date 9-30-13
 Company Name BERENERGY CORP
 Lease Roetzel "A" #26 Test No. 2
 County Barton Sec. 24 Twp. 20s Rng. 11w

SAMPLER RECOVERY

Gas 2800 ML
 Oil 300 ML
 Mud — ML
 Water 900 ML
 Other — ML
 Pressure 29016s ML
 Total 4000 ML

PIT MUD ANALYSIS

Chlorides 8100 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 53
 Mud Weight 9.2
 Filtrate 9.2
 Other 1/2 * LCM

SAMPLER ANALYSIS

Resistivity .276 ohms @ 87 F
 Chlorides 19000 ppm.
 Gravity 40 corrected @60F

PIPE RECOVERY

TOP
 Resistivity .276 ohms @ 87 F
 Chlorides _____ ppm.
MIDDLE
 Resistivity " ohms @ " F
 Chlorides " ppm.
BOTTOM
 Resistivity " ohms @ " F
 Chlorides " ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53631

4/10

Well Name & No. Rutzel 'A' #26 Test No. 2 Date 9-30-13
 Company BERENERGY CORP Elevation 1755 KB 1745 GL
 Address PO BOX 5850 DENVER CO. 80217+5850
 Co. Rep / Geo. Ryan Thress Rig VAL #2
 Location: Sec. 24 Twp. 20s Rge. 1W Co. BARTON State Ks

Interval Tested 3250-3260 Zone Tested Arbuckle
 Anchor Length 10' Drill Pipe Run 3231 Mud Wt. 9.2
 Top Packer Depth 3245 Drill Collars Run 0 Vis #9 53
 Bottom Packer Depth 3250 Wt. Pipe Run 0 WL 9.2
 Total Depth 3260 Chlorides 8100 ppm System LCM 1/2#

Blow Description IF: BOB in 20 sec
ISI: GTS during bleedoff, Blow built to BOB in 12 min.
FF: BOB immediately, GAS TSTM
FST: Return Blow built to BOB in 6 min after bleedoff

Rec	Feet of	%gas	%oil	%water	%mud
<u>932</u>	<u>Oil</u>				
<u>1698</u>	<u>Water</u>				

Rec Total 2630 BHT 105° Gravity 40 API RW 276 @ 87° F Chlorides 19000 ppm

(A) Initial Hydrostatic 1592 Test ← T-On Location 05:36
 (B) First Initial Flow 671 Jars ← T-Started 06:38
 (C) First Final Flow 934 Safety Joint ← T-Open 08:30
 (D) Initial Shut-In 1042 Circ Sub _____ T-Pulled 12:45
 (E) Second Initial Flow 950 Hourly Standby 3 hrs T-Out 18:08
 (F) Second Final Flow 1042 Mileage 180 RT Comments Gas burned w/
 (G) Final Shut-In 1043 Sampler ← ORANGE FLAME
 (H) Final Hydrostatic 1573 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 15 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total _____
 Final Flow 60 Day Standby _____ Total _____
 Final Shut-In 120 Accessibility _____ MP/DST Disc't _____
 Sub Total _____

Approved By L. David Buckman 9/30/2013 Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

T. M. MCCOY & CO., INC.

CONSULTING GEOLOGISTS
P.O. BOX 608 · WILSON, WYOMING 83014 · 307-733-4332

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Berenergy Corporation H.J. Roetzel 'A' #26
Location: Barton County, Kansas
License Number: 15-009-25867
Spud Date: September 24, 2013
Surface Coordinates: 2530' FNL & 775 FEL
SE NE Sec. 2, T20S, R11W
Bottom Hole Coordinates: Vertical Hole
Region: Drilling Completed: September 30, 2013
Ground Elevation (ft): 1745' K.B. Elevation (ft): 1756'
Logged Interval (ft): 1400' To: TD Total Depth (ft): 3260'
Formation: Chase Group through Arbuckle
Type of Drilling Fluid: Fresh water and water based mud
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Berenergy Corporation
Address: 1888 Sherman St #600
Denver, Colorado
80203

GEOLOGIST

Name: Ryan Thress
Company: T. M. McCoy & Co., Inc.
Address: P.O. Box 608
Wilson, WY 83014
307-733-4332

ROCK TYPES

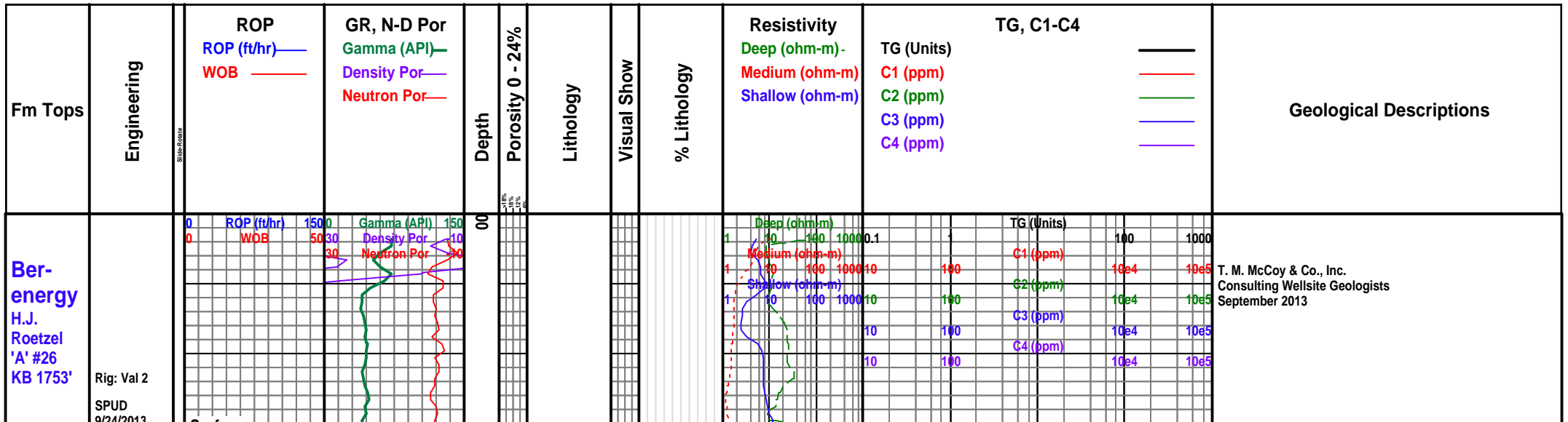
<ul style="list-style-type: none"> Gypsum Anhy Cht Cgl ss Dol Lmst 	<ul style="list-style-type: none"> Salt Shale Sh gybrn Sh red-brn Sh gy-grn Sltst-gray 	<ul style="list-style-type: none"> Sltst- red brn Ss Bent Sh--green Sltst brn Sh-brn-blk 	<ul style="list-style-type: none"> Sltly sh rd-brn Lmy sh brn-blk Cement
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ACCESSORIES

<h4>MINERAL</h4> <ul style="list-style-type: none"> Anhy Arg Calc Carb Chtdk Chtlt Dol Glau Gyp Minxl 	<ul style="list-style-type: none"> Nodule Pyr Sandy Silt Sil <h4>FOSSIL</h4> <ul style="list-style-type: none"> Brach Fossil Pellet 	<h4>STRINGER</h4> <ul style="list-style-type: none"> Sltstrg brn Sltsstrg rd-brn Shstrg gybrn Shstrg red-brn Shstrg gy red Arg Bent Dol Ls Sltsstrg gray 	<ul style="list-style-type: none"> Ssstrg Anhystrg Shstrg gy-grn Shstrg brn-blk Chtstrg Salt strg <h4>TEXTURE</h4> <ul style="list-style-type: none"> Chalky Cryxln Microxln
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OTHER SYMBOLS

<h4>POROSITY</h4> <ul style="list-style-type: none"> Earthy Fenest Fracture Inter 	<ul style="list-style-type: none"> Moldic Organic Pinpoint Vuggy 	<h4>OIL SHOW</h4> <ul style="list-style-type: none"> Csg shoe right Csg shoe left 	<ul style="list-style-type: none"> Off btm Connection Fm-bit line Csg shoe
---------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------



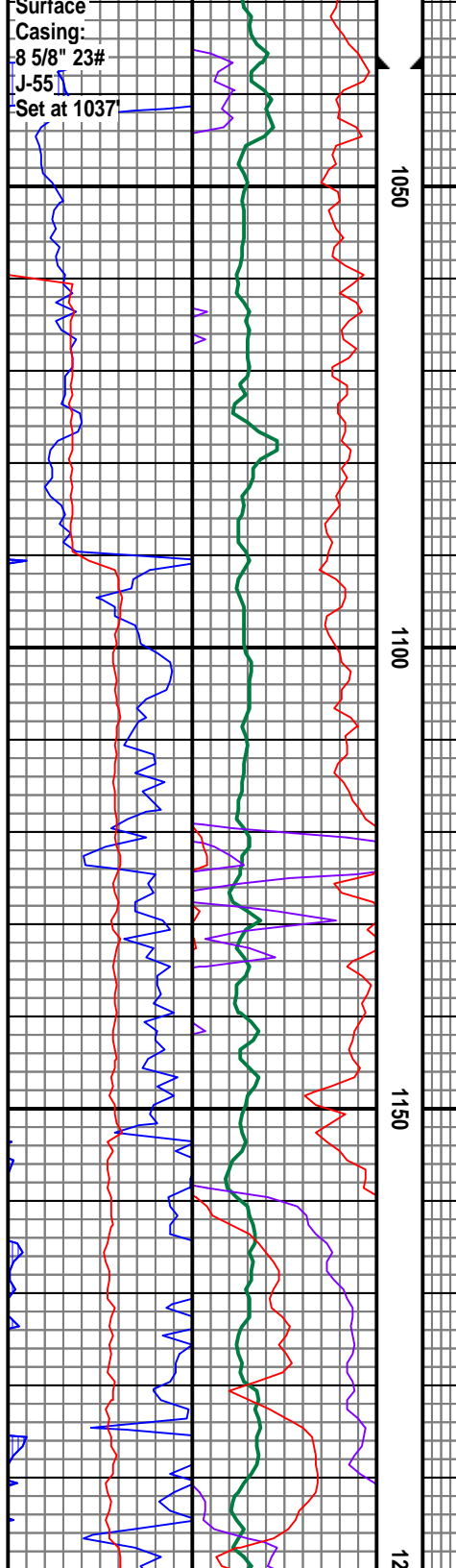
9/24/2013
Drill with
fresh water
9/26/2013
9:00 am
WOB 0
RPM 86
PSI 444

Surface
Casing:
8 5/8" 23#
J-55
Set at 1037

WOB 28
RPM 110
PSI 561

WOB 29
RPM 116
PSI 644

WOB 31



1050

1100

1150

1200

17u TG
294 ppm C1
257 ppm C2
655 ppm C3
528 ppm C4

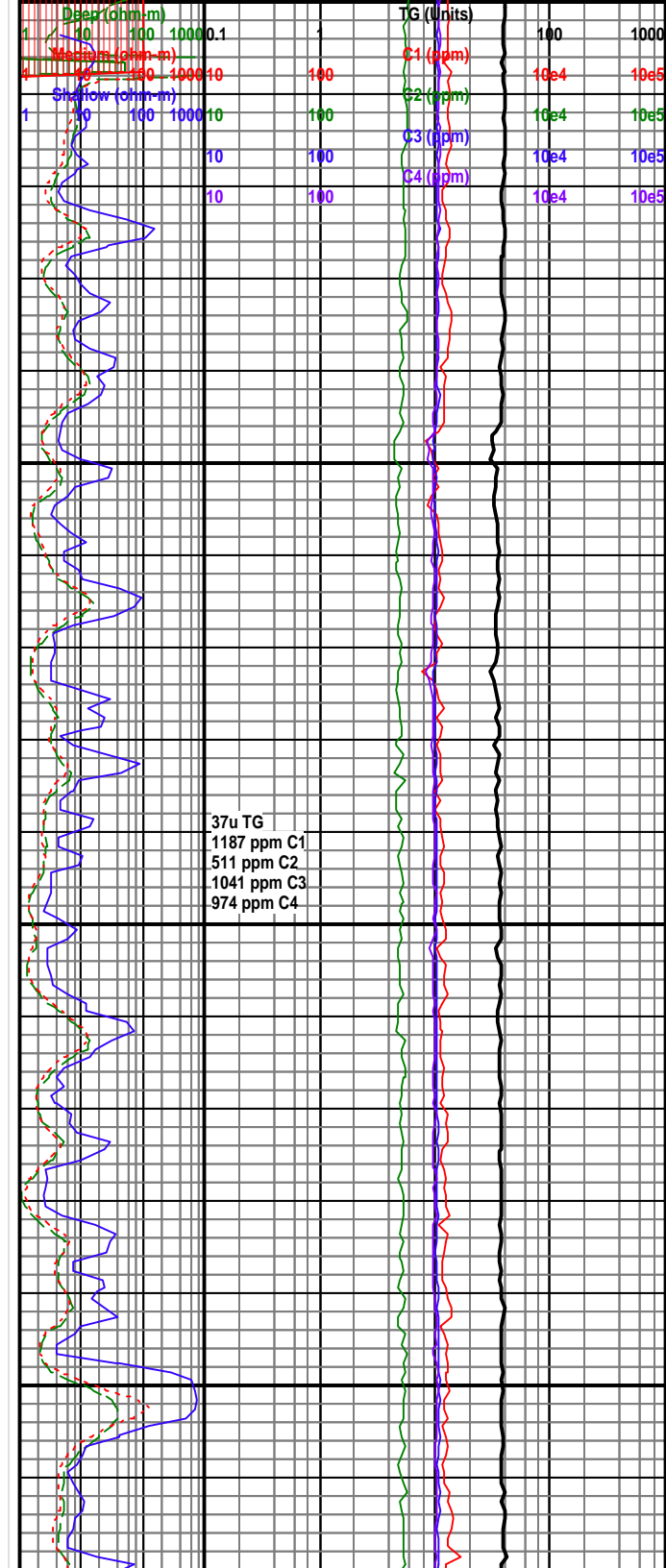
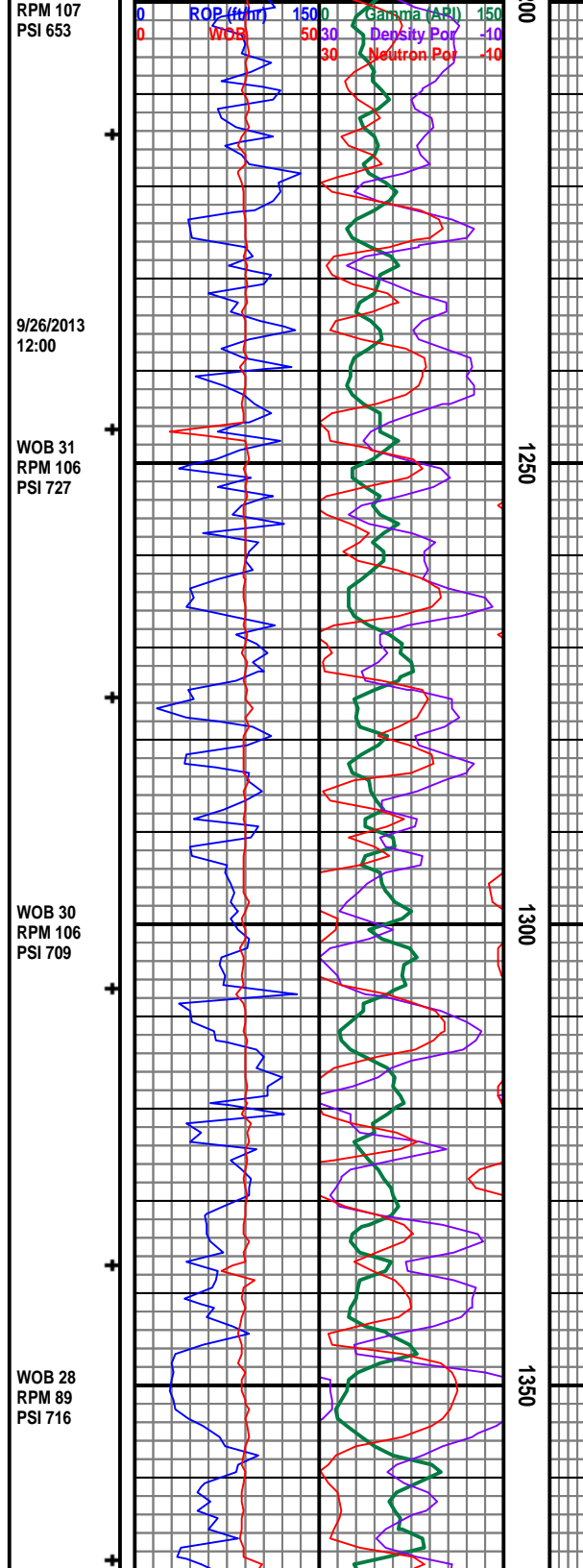
42u TG
1421 ppm C1
583 ppm C2
1047 ppm C3
1131 ppm C4

40u TG
1370 ppm C1
574 ppm C2
1070 ppm C3
1110 ppm C4

Samples were not regularly caught until 2600' MD @ 10' intervals.

The intervals 1370'-1490' and 2170'-2300' were sampled @ 30' intervals to look at the top of the Chase Group and at the Tarkio, respectively.

Note: bottom joint of surface casing fell from 1037' MD to 1208' MD.

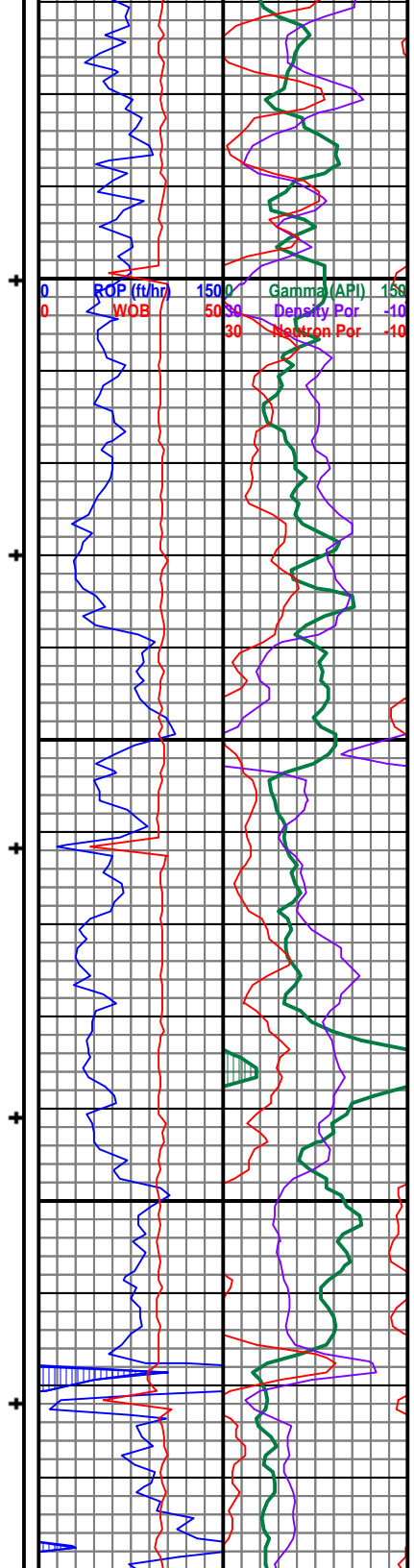


30' sample intervals from 1400' - 1490' MD

Note: Abundant cement and iron filings were found in samples 1400'-1490' MD. Most likely due to the bottom joint of the shoe falling down.

CEMENT: medium light gray, firm to hard, rounded cuttings, lower very fine grained, black flecks, reacts in HCl and stains

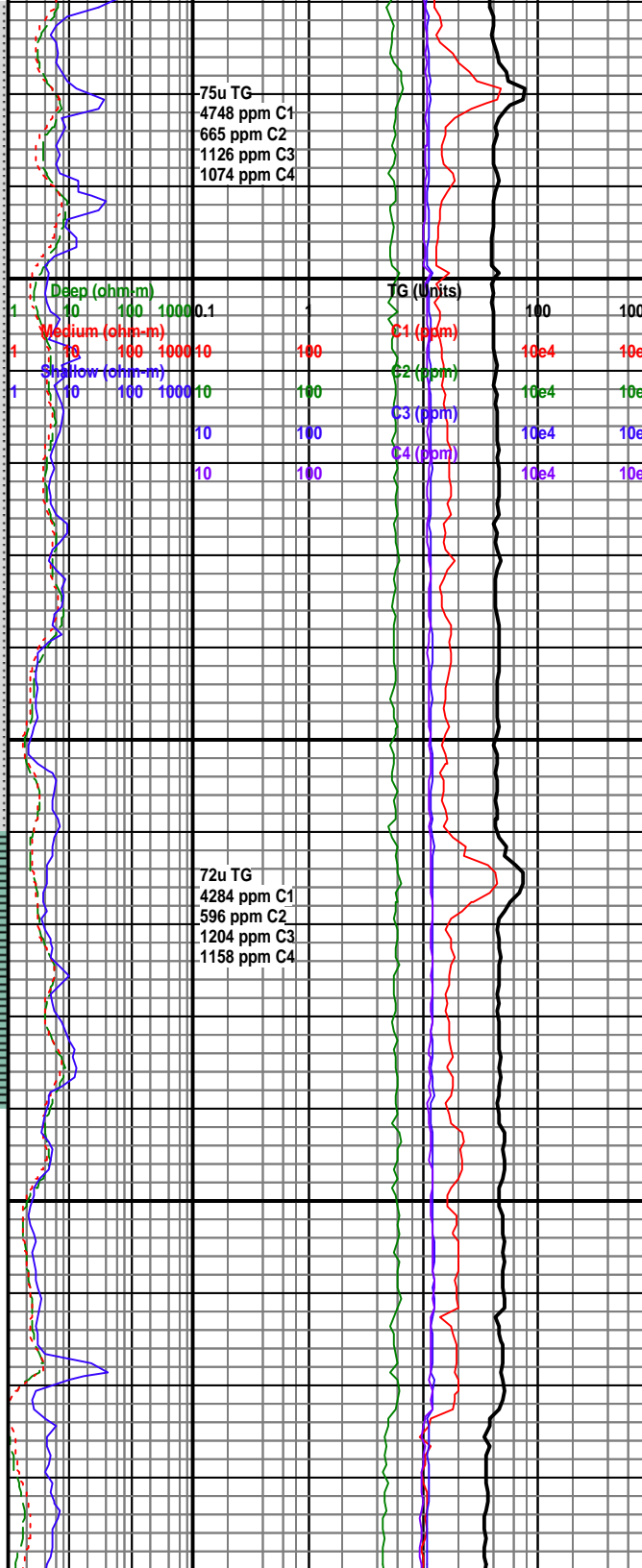
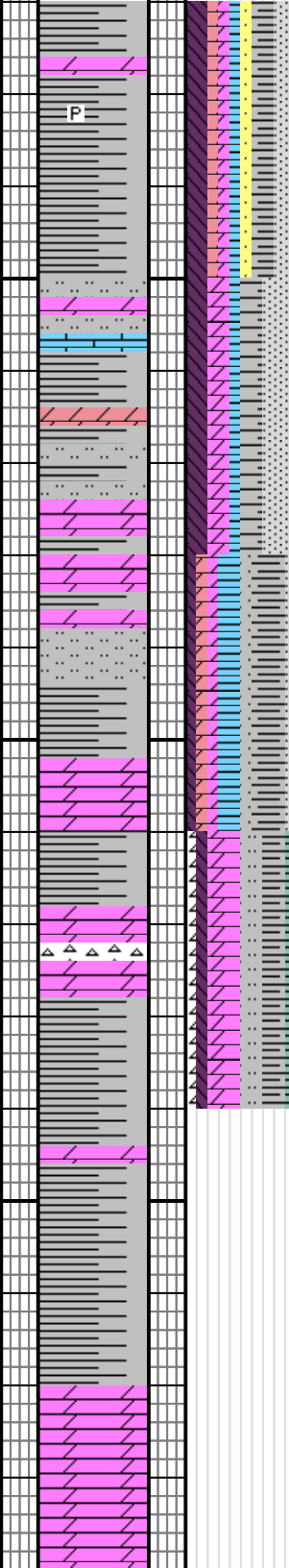
WOB 35
RPM 63
PSI 753



1400

1450

1500



red in Alizarin

LIMESTONE: bluish white to light greenish gray, locally very pale orange, firm, platy cuttings, fossiliferous, locally sparry, very effervescent in HCl, no insoluble residue. No fluorescence, no cut, no shows.

SHALE: light olive gray to greenish gray, soft to firm, occasional platy cuttings, some zones very calcareous, others non calcareous, without significant difference in appearance. Rare pyrite nodules, rare mollusc fossil.

GYPSUM: selenite crystals <3mm, pearly white to translucent, fibrous stucture, soft but brittle. Likely rehydrated and recrystallized anhydrite.

ANHYDRITE: white to semi translucent, firm, amorphous structure, rounded, no reaction in HCl, produces selenite crystals when reprecipitated.

SHALE: light olive gray to greenish gray, soft to firm, occasional platy cuttings, some zones very calcareous, others non calcareous, without significant difference in appearance, no fluorescence, no cut

ANHYDRITE: white to clear, locally dark yellowish brown, semi translucent, firm, rounded cuttings, no reaction in HCl, produces selenite crystals when reprecipitated.

SILTSTONE: medium gray to medium dark gray, firm, blocky cuttings, significant very fine sand, calcareous.

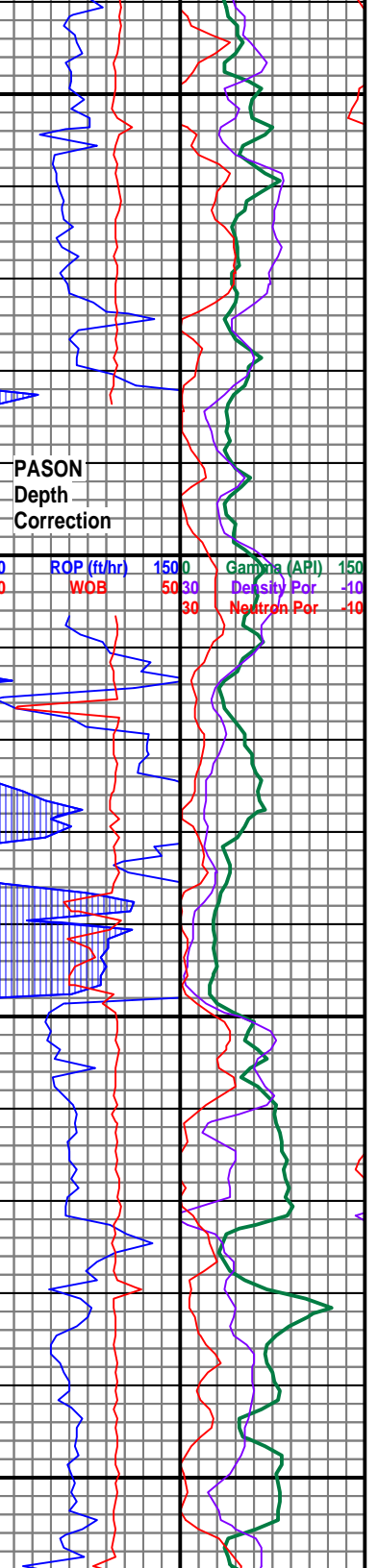
LIMY DOLOMITE: Light gray to medium gray, firm, sub-rounded cuttings, microcrystalline, effervescent in HCl, slight mottled stain in Alizarin, weak, diffuse cloudy dull yellow cut, patchy halo

trace CHERT: white to clear, hard, conchoidal fracture, no reaction with HCl.

WOB 33
RPM 122
PSI 719

WOB 32
RPM 110
PSI 735

WOB 32
RPM 107
PSI 740

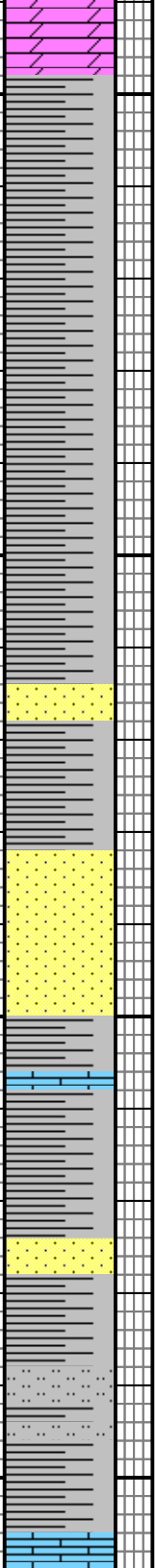


1550

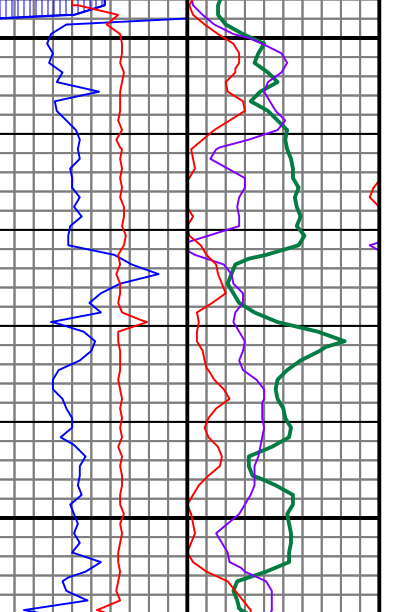
1600

1650

1700



WOB 33
RPM 95
PSI 745



1650

1700



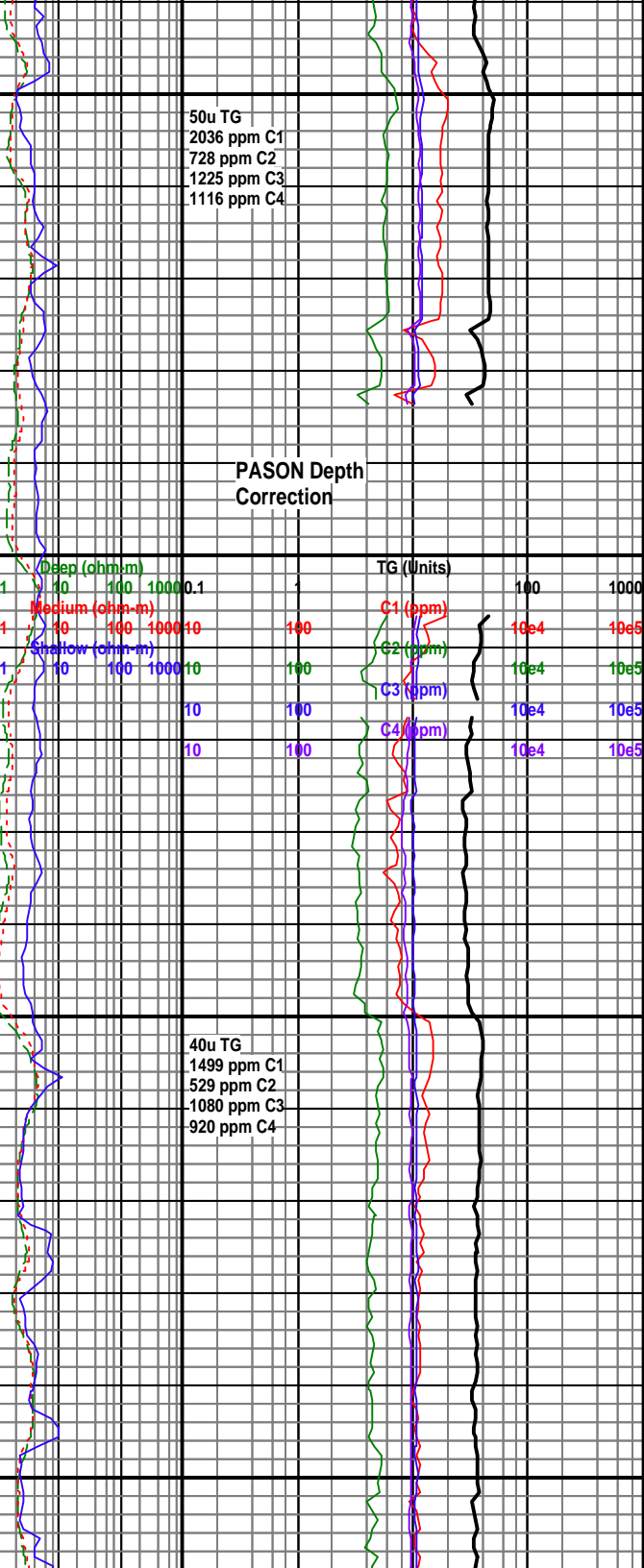
WOB 32
RPM 103
PSI 786



1700



50u TG
2036 ppm C1
728 ppm C2
1225 ppm C3
1116 ppm C4



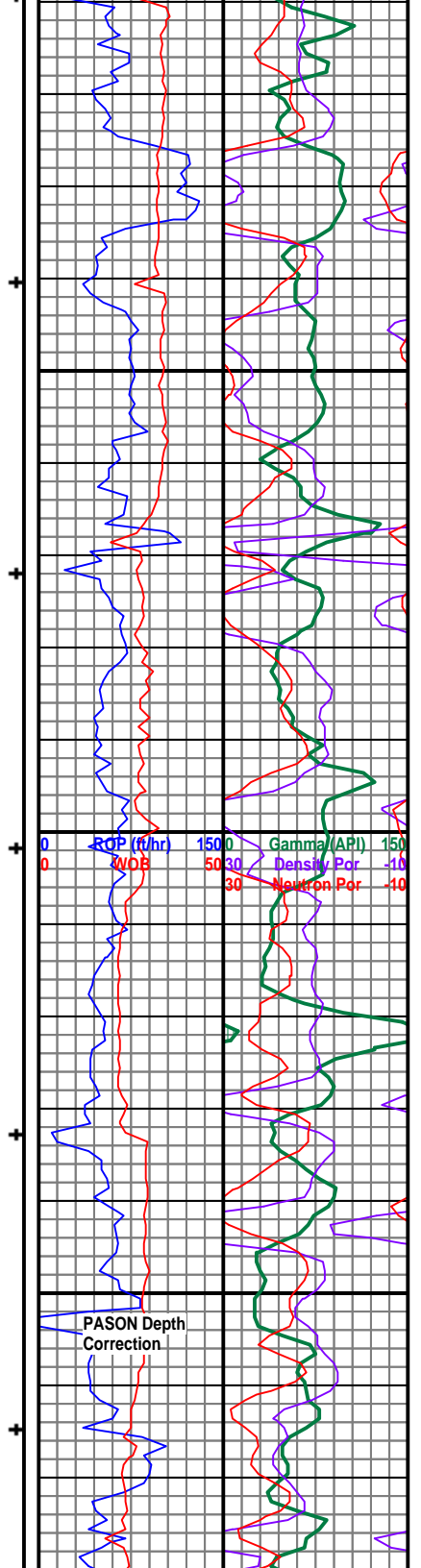
40u TG
1499 ppm C1
529 ppm C2
1080 ppm C3
920 ppm C4

Depth (ohm-m) TG (Units)
1 10 100 1000 0.1 1 100 1000
Medium (ohm-in) C1 (ppm)
1 10 100 1000 10 100 10e4 10e5
Shallow (ohm-in) C2 (ppm)
1 10 100 1000 10 100 10e4 10e5
C3 (ppm)
10 100 10e4 10e5
C4 (ppm)
10 100 10e4 10e5

WOB 34
RPM 106
PSI 816

WOB 33
RPM 113
PSI 698
9/27/2013
00:00

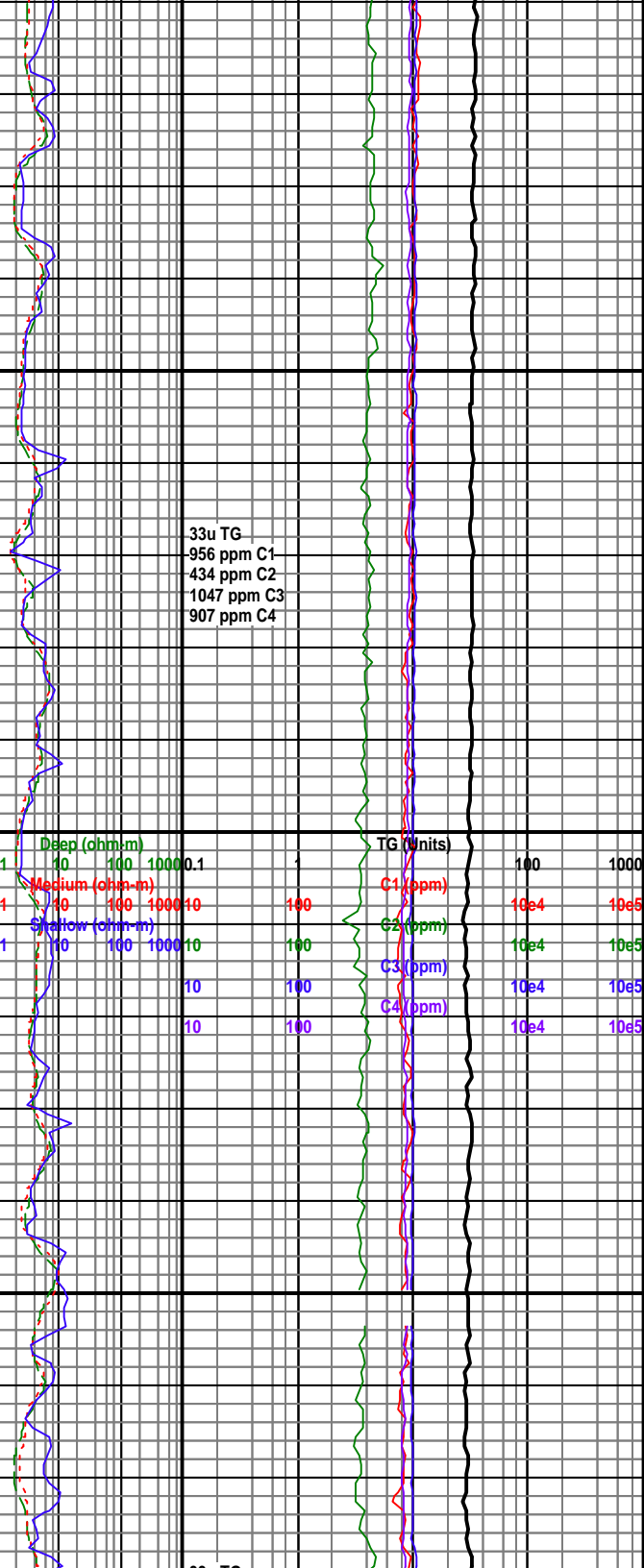
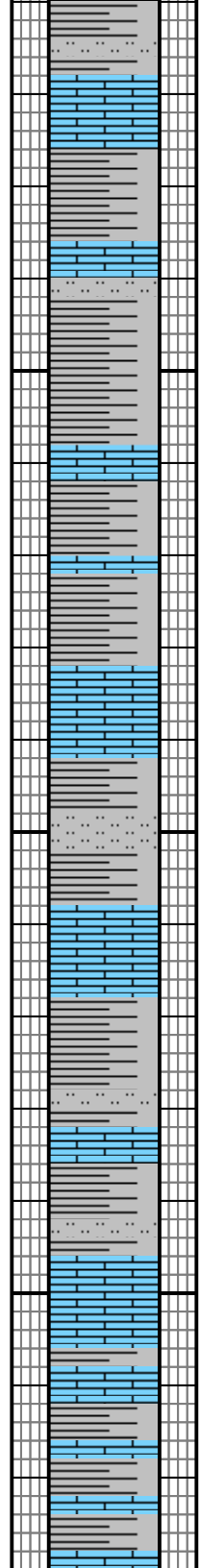
WOB 29
RPM 82
PSI 682



1750

1800

1850



33u TG
956 ppm C1
434 ppm C2
1047 ppm C3
907 ppm C4

1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
1	10	100	1000	10000	100000	1000000	10000000	100000000	1000000000
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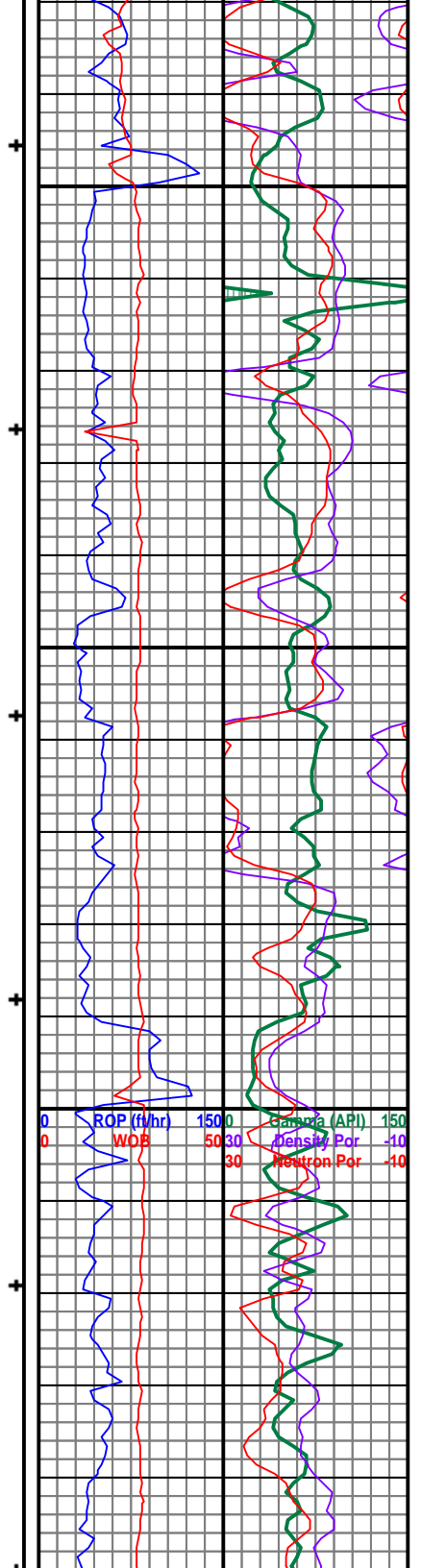
33u TG

WOB 26
RPM 107
PSI 708

WOB 27
RPM 87
PSI 759

WOB 29
RPM 62
PSI 764

WOB 26

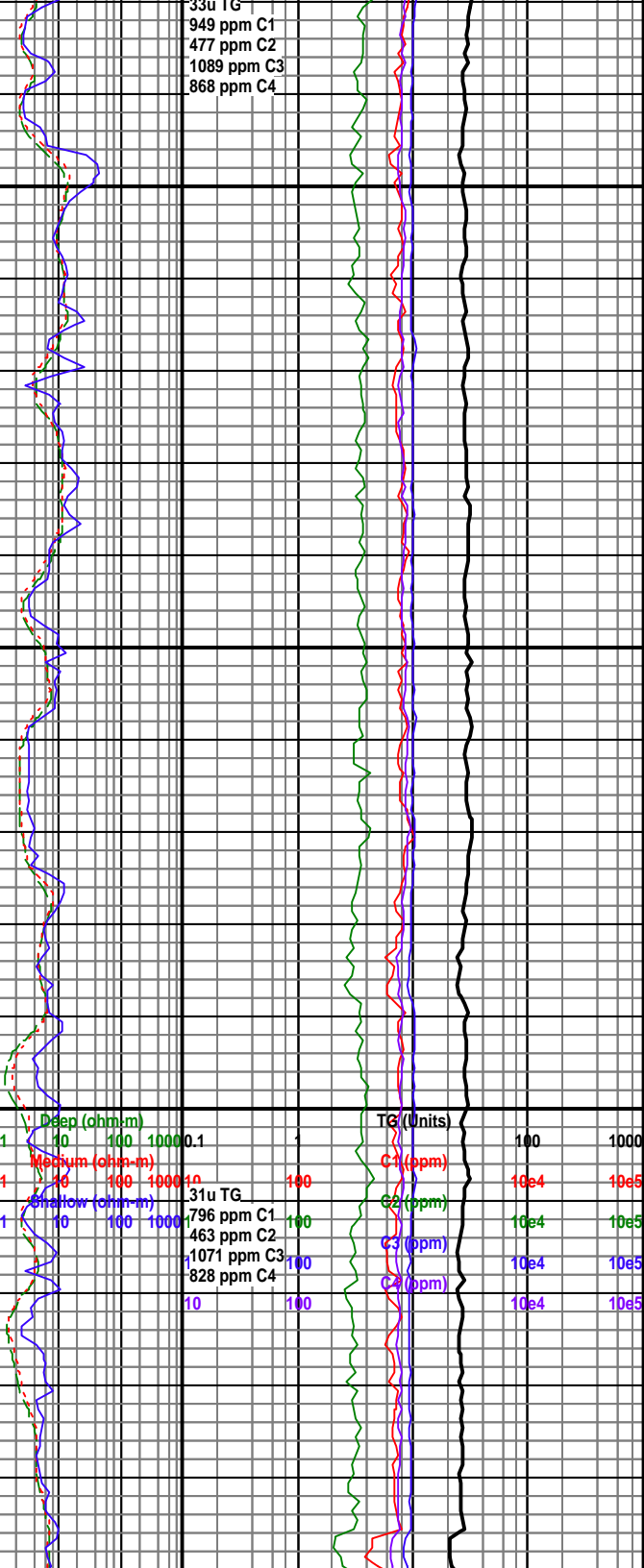
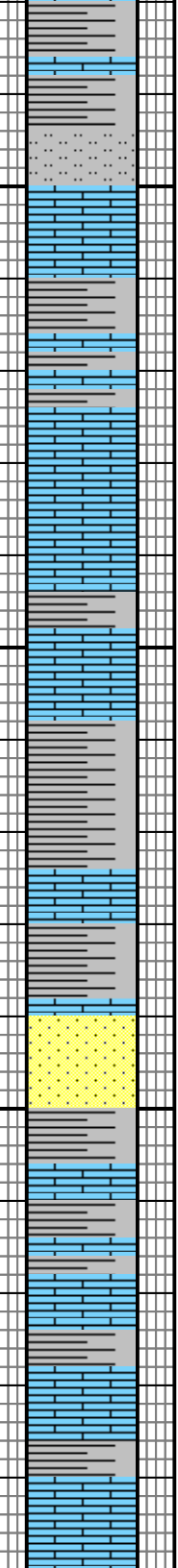


1900

1950

2000

2050



33u TG
949 ppm C1
477 ppm C2
1089 ppm C3
868 ppm C4

Curve	Scale	Units
Deep (ohm-m)	10, 100, 1000	0.1
Medium (ohm-m)	10, 100, 1000	100
Shallow (ohm-m)	10, 100, 1000	100
TG (Units)	100, 1000	100, 1000
C1 (ppm)	10, 100, 1000	10e4, 10e5
C2 (ppm)	10, 100, 1000	10e4, 10e5
C3 (ppm)	10, 100, 1000	10e4, 10e5
C4 (ppm)	10, 100, 1000	10e4, 10e5

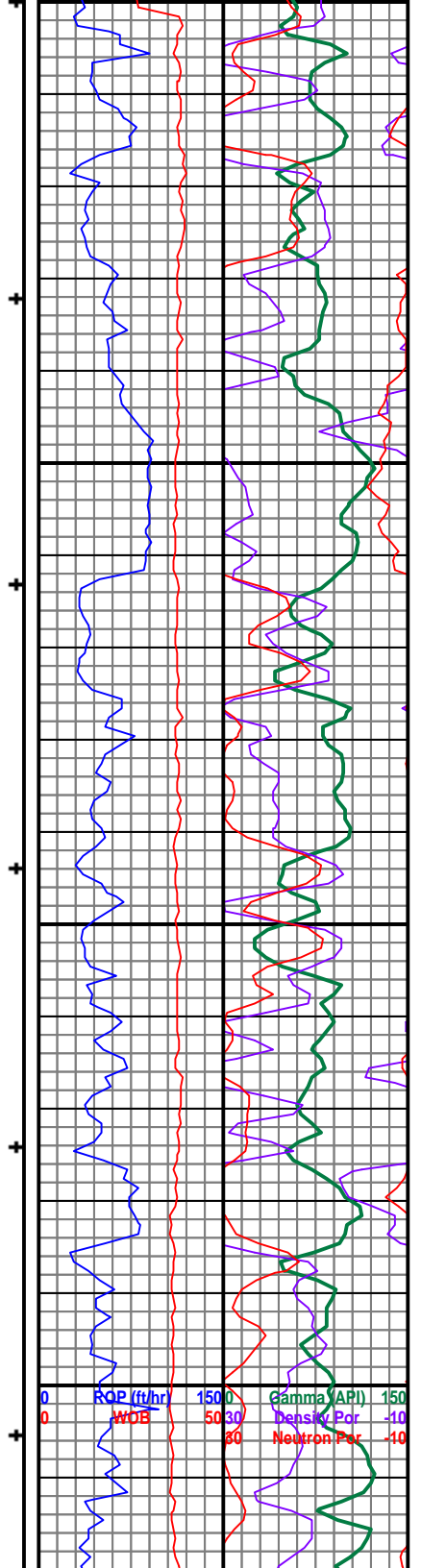
31u TG
796 ppm C1
463 ppm C2
1071 ppm C3
828 ppm C4
10 100

RPM 78
PSI 739

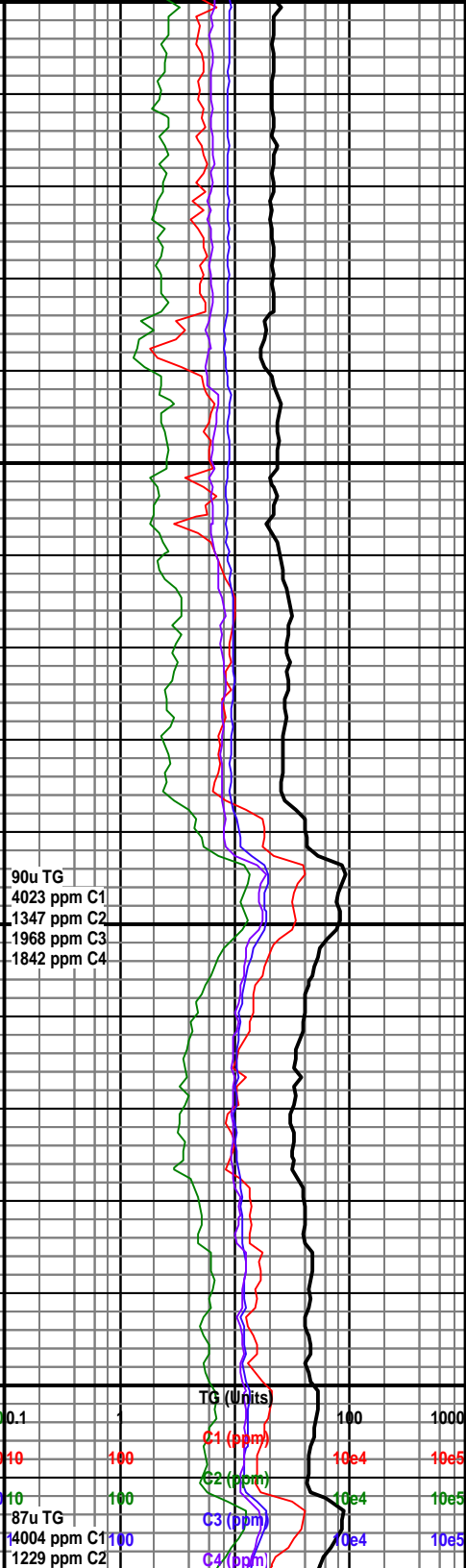
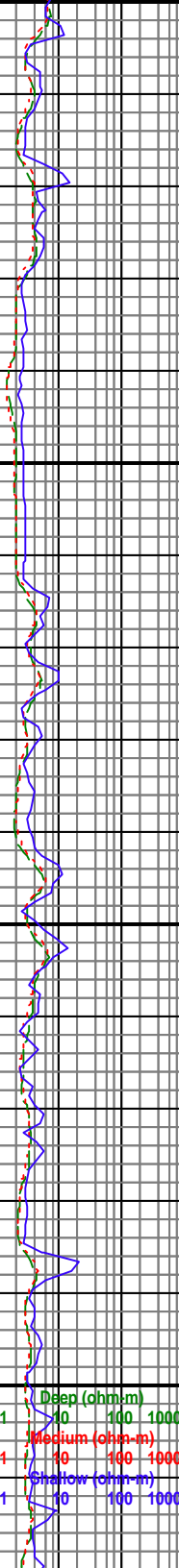
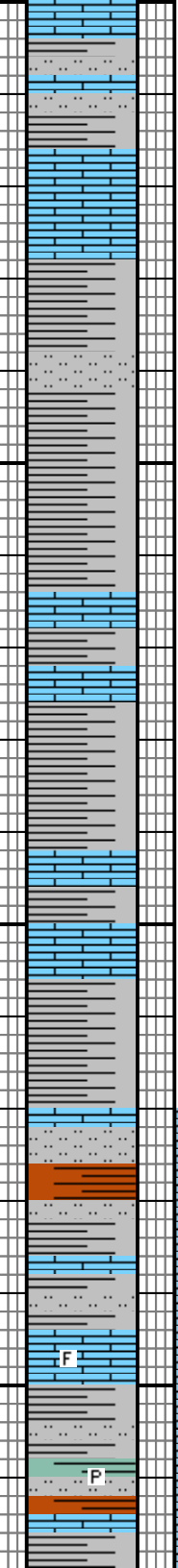
WOB 37
RPM 74
PSI 823

WOB 37
RPM 89
PSI 734

WOB 38
RPM 76
PSI 720



50
2100
2150
2200



LIMESTONE: white (N9), platy to sub-blocky, soft to firm, reacts very strongly to HCl, very fossiliferous

SILTSTONE: medium gray (N5) to medium dark gray (N4), sub blocky, soft, gritty with local areas of high clay content, moderately reacts to HCl

LIMESTONE: very light gray (N8) to light gray (N7), platy to sub blocky, firm to moderately hard, brittle, very reactive to HCl

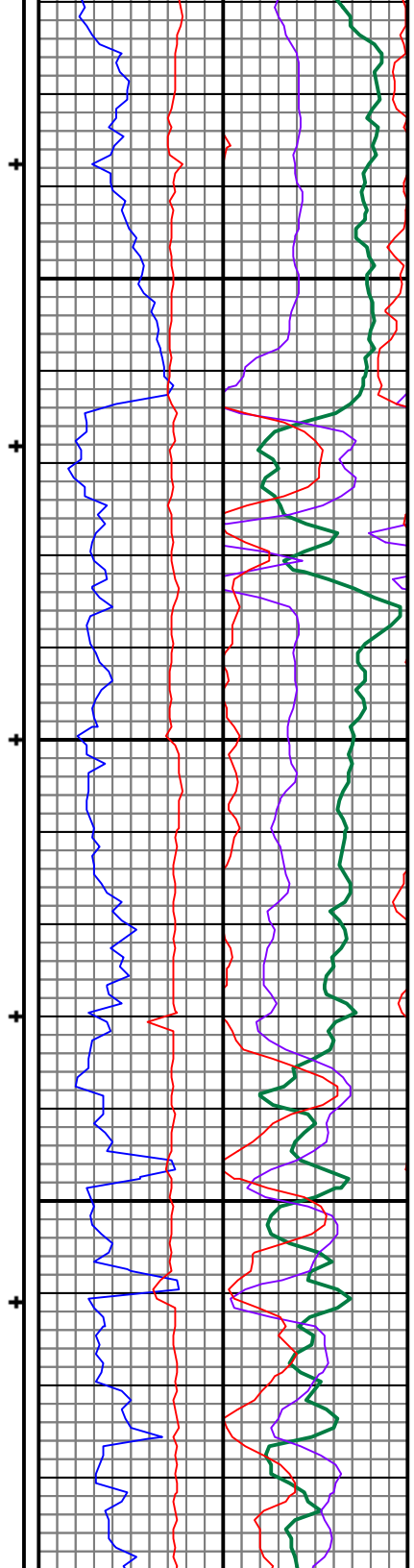
87u TG
14004 ppm C1
1229 ppm C2

2263 MD
Tarkio Ls

WOB 36
RPM 91
PSI 839

WOB 34
RPM 98
PSI 264

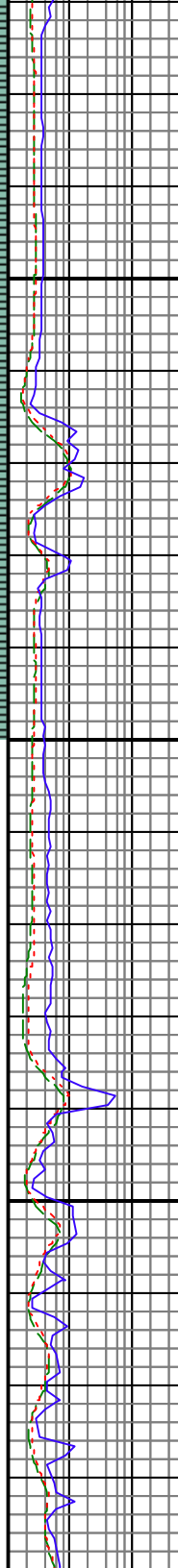
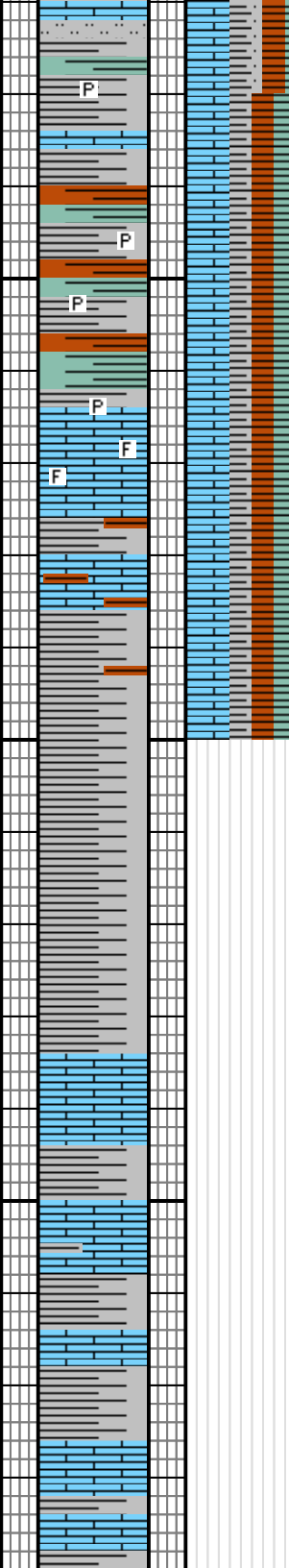
WOB 36
RPM 100
PSI 805



2250

2300

2350



1891 ppm C3
1633 ppm C4

PASON LagD
Reset

57u TG
2288 ppm C1
750 ppm C2
1518 ppm C3
1179 ppm C4

146u TG
5013 ppm C1
2564 ppm C2

10e4

10e5

SHALE: dark reddish brown (10R 3/4) to very dusky red (10R 2/2), platy, soft, slight to moderate reaction to HCl, locally gritty appearance

SHALE: medium gray (N5) to medium dark gray (N4), very soft, platy to sub rounded, no to slight reaction in HCl

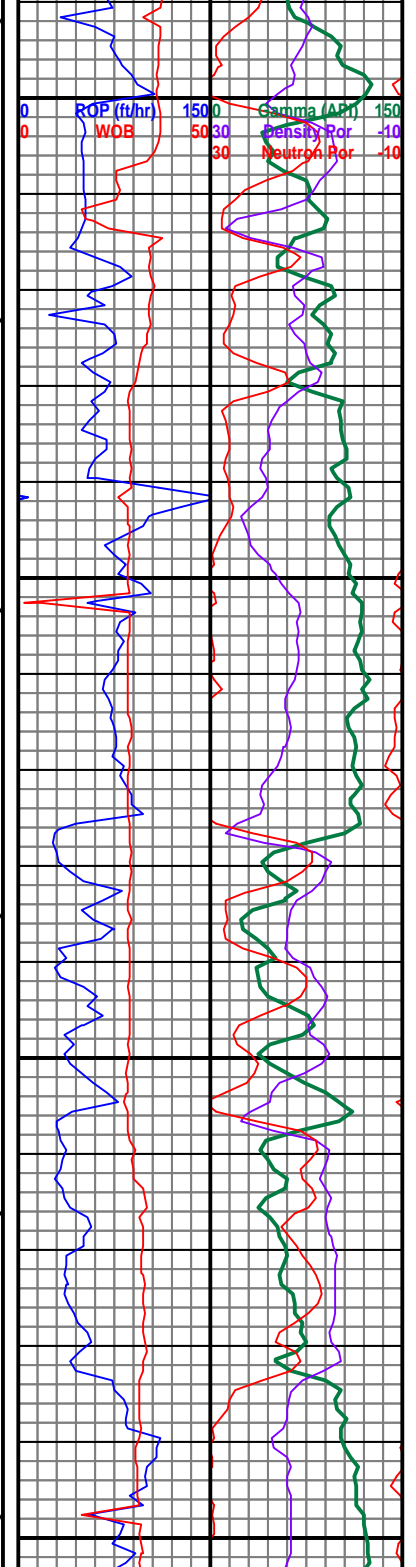
LIMESTONE: white (N9), sub-blocky, soft to firm, reacts very strongly to HCl, very fossiliferous

SHALE: dark greenish gray (5GY 4/1), soft, platy, moderate reaction to HCl, light patchy oil staining

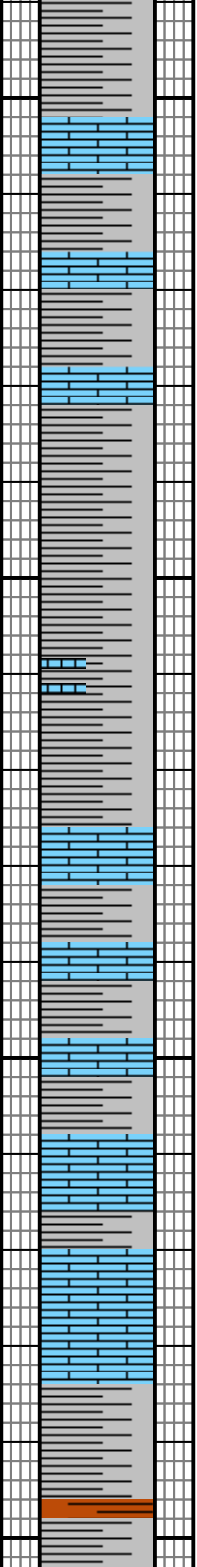
TOOH @ 2285' MD

No samples caught between 2300'-2590' MD

WOB 36
RPM 114
PSI 792



2400
2450
2500
2550



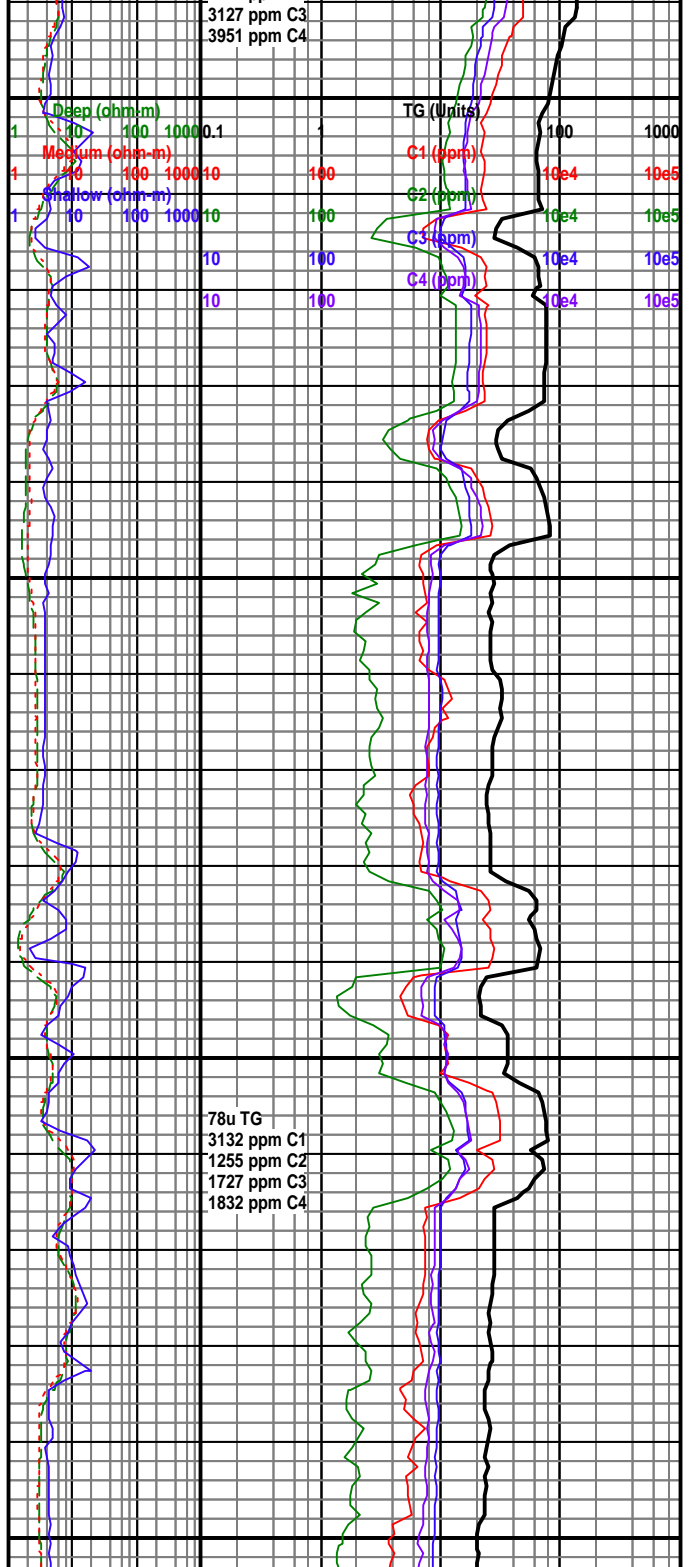
WOB 29
RPM 108
PSI 805

9/28/2013
00:00

WOB 28
RPM 93
PSI 733

WOB 32
RPM 69
PSI 1050

3127 ppm C3
3951 ppm C4



78u TG
3132 ppm C1
1255 ppm C2
1727 ppm C3
1832 ppm C4

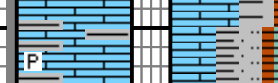
10' sample intervals from 2590' to TD

2594 MD
Topeka Ls

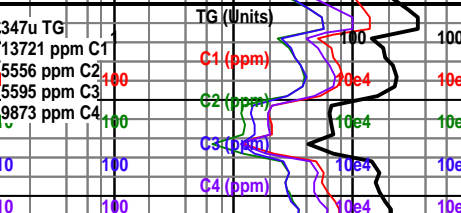
WOB 32
RPM 87
PSI 1048

ROP (ft/hr) 150.0
WDB 50.30
Gamma (API) 150
Density Por -10
Neutron Por -10

2600



Deep (ohm-m) 347u TG
Medium (ohm-m) 13721 ppm C1
Shallow (ohm-m) 5556 ppm C2
100 5595 ppm C3
100 9873 ppm C4



LIMESTONE: mottled white (N9) to light gray (N7) to med. dark gray (N4), crystalline and algal limestone common, blocky, firm to very hard, very fossiliferous, vigorous reaction to HCl, locally limestone occurs as a white (N9) grainstone, firm to hard, smells strongly of sulfur while reacting with HCl

SHALE: light gray (N6) to med. dark gray (N4) to grayish black (N2), platy to sub blocky, very soft to moderately firm, locally micaceous, no reaction to a moderately strong reaction to HCl, pyrite nodules common

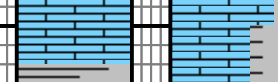
LIMESTONE: white (N9) to grayish orange (10YR 7/4), hard, sub blocky cuttings, fossiliferous, subhedral pyrite, rare vugs, locally a grainstone but more commonly dense, pale yellow fluorescence, slow diffuse pale yellow cut, pale yellow halo

SHALE: dark greenish gray (5GY 4/1), soft, platy, moderate reaction to HCl, light patchy oil staining

SHALE: dark reddish brown (10R 3/4) to very dusky red (10R 2/2), platy, soft, slight to moderate reaction to HCl, locally gritty appearance

WOB 29
RPM 81
PSI 1148

2650



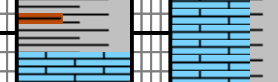
146u TG
5653 ppm C1
2473 ppm C2
2484 ppm C3
3995 ppm C4

SILTSTONE: medium gray (N5) to medium dark gray (N4), platy to sub blocky, soft, gritty with local areas of high clay content and locally micaceous, slight to no reaction in HCl

SHALE: medium gray (N5) to brownish gray (5YR 4/1), platy, smooth, calcareous, trace pale yellow fluorescence

WOB 25
RPM 77
PSI 1192

2700



PASON EDR Shutdown

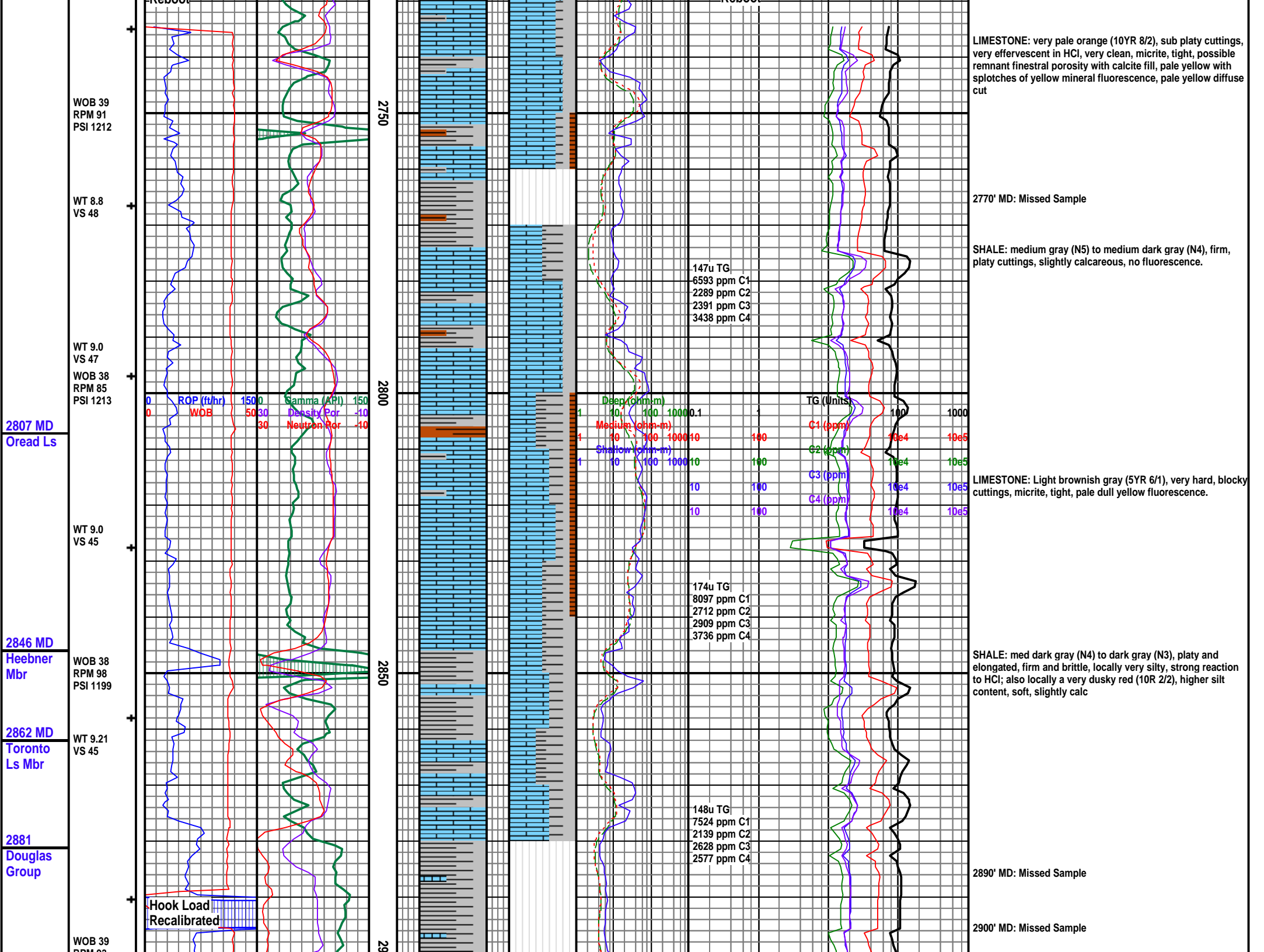
LIMESTONE: moderate yellowish brown (10YR 5/4), firm, sub blocky cuttings, various textures, hacky appearance, unidentifiable fossil debris and possible oolites, locally sparry, no visible porosity, argillaceous to very argillaceous, very dull yellow fluorescence, yellow diffuse cloudy cut

WT 8.8
VS 49

PASON EDR Shutdown

PASON EDR Reboot

PASON EDR Reboot



WOB 39
RPM 91
PSI 1212

WT 8.8
VS 48

WT 9.0
VS 47
WOB 38
RPM 85
PSI 1213

2807 MD
Oread Ls

WT 9.0
VS 45

2846 MD
Heebner
Mbr

WOB 38
RPM 98
PSI 1199

2862 MD
Toronto
Ls Mbr

WT 9.21
VS 45

2881
Douglas
Group

WOB 39
RPM 85
PSI 1213

Hook Load
Recalibrated

2750

2800

2850

2900

ROP (ft/hr) 150
WDB 50
Gamma (API) 150
Density Por 30
Neutron Por 10

Deep (ohm-m) 1
Medium (ohm-m) 1
Shallow (ohm-m) 1

TG (Units) 100
C1 (ppm) 10e4
C2 (ppm) 10e4
C3 (ppm) 10e4
C4 (ppm) 10e4

147u TG
6593 ppm C1
2289 ppm C2
2391 ppm C3
3438 ppm C4

174u TG
8097 ppm C1
2712 ppm C2
2909 ppm C3
3736 ppm C4

148u TG
7524 ppm C1
2139 ppm C2
2628 ppm C3
2577 ppm C4

LIMESTONE: very pale orange (10YR 8/2), sub platy cuttings, very effervescent in HCl, very clean, micrite, tight, possible remnant finestral porosity with calcite fill, pale yellow with splotches of yellow mineral fluorescence, pale yellow diffuse cut

2770' MD: Missed Sample

SHALE: medium gray (N5) to medium dark gray (N4), firm, platy cuttings, slightly calcareous, no fluorescence.

LIMESTONE: Light brownish gray (5YR 6/1), very hard, blocky cuttings, micrite, tight, pale dull yellow fluorescence.

SHALE: med dark gray (N4) to dark gray (N3), platy and elongated, firm and brittle, locally very silty, strong reaction to HCl; also locally a very dusky red (10R 2/2), higher silt content, soft, slightly calc

2890' MD: Missed Sample

2900' MD: Missed Sample

RPM 93
PSI 1219

WT 9.1
VS 50

WOB 38
RPM 97
PSI 1226

WT 9.1
VS 52

2970 MD
Brown
Lime

2990 MD
Lansing-
Kansas
City

WOB 40
RPM 90
PSI 1225

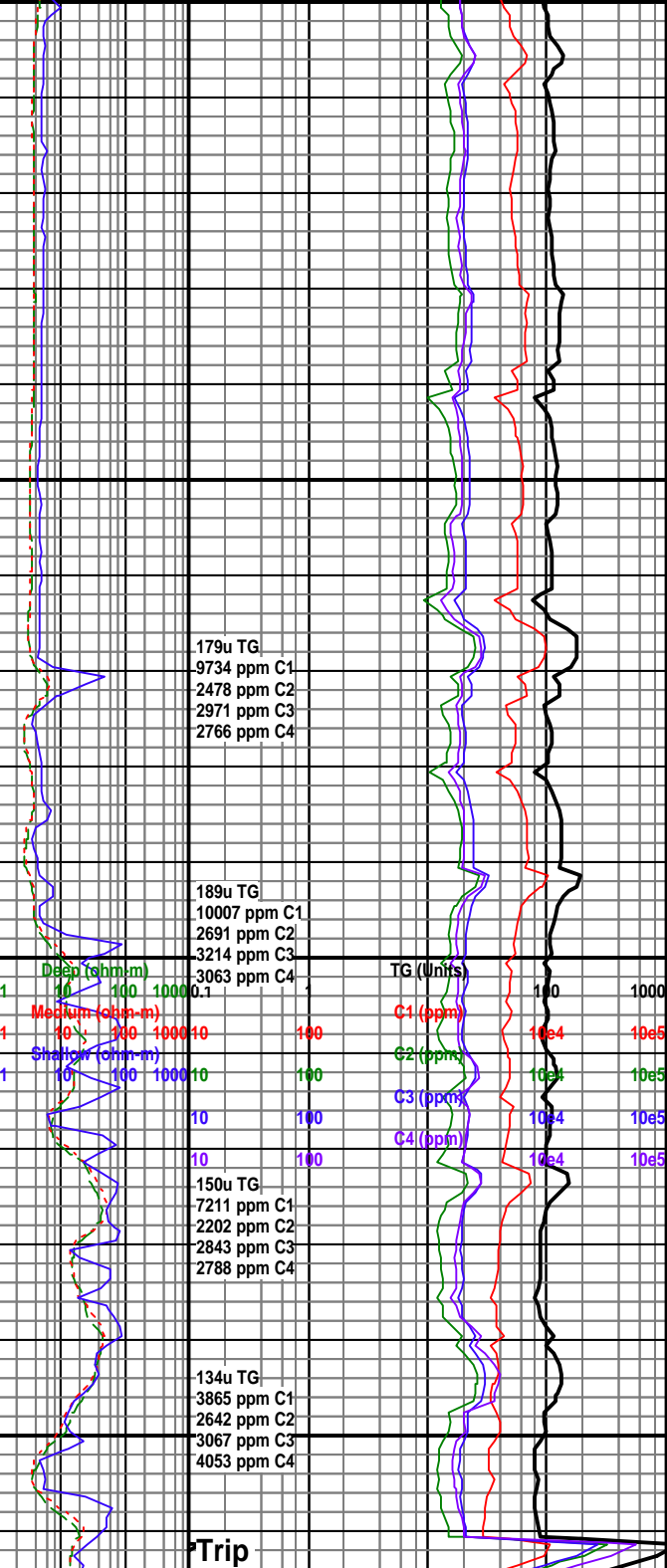
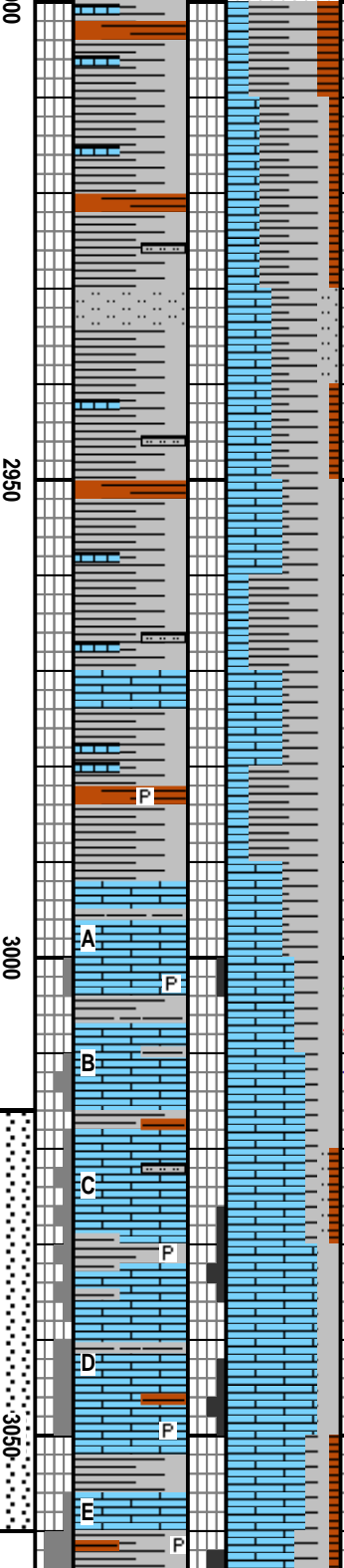
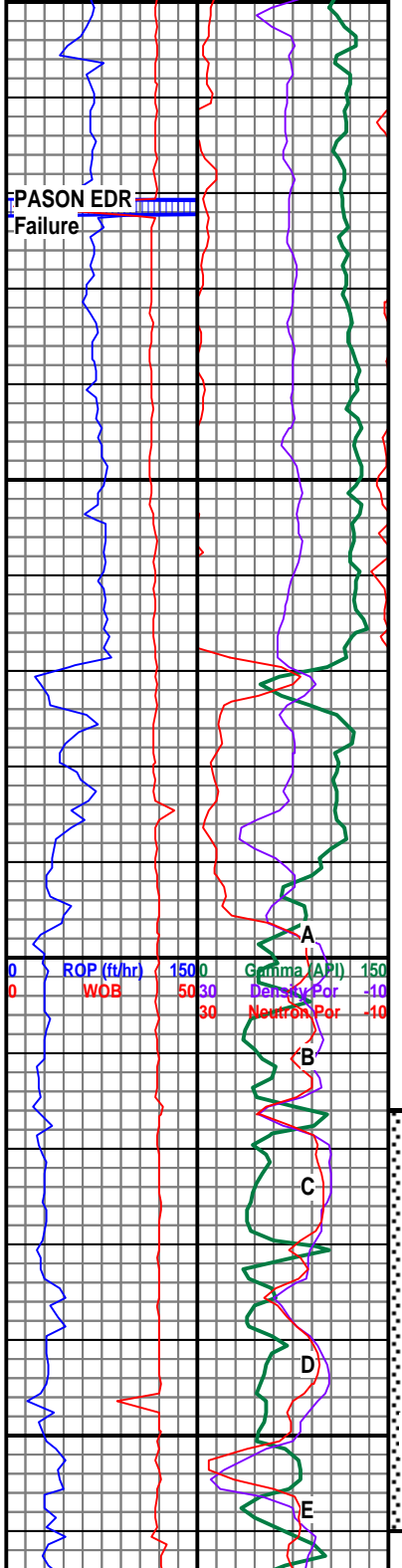
DST #1
3016'-3060'
15-60-60-120
min

IH 1482
IF 61
BOB 1min
ISI 793
BB none
FF 527
BOB 2min
FSI 618
BB none
FH 1425

Recovery:
1299' MCGW
1' GO

WOB 39
RPM 99
PSI 1001

WT 9.1
VS 50
9/29/2013
00:00



SHALE: moderate brown (5YR 3/4), moderately soft, sub blocky cuttings, gritty, silty, calcareous, no fluorescence.

LIMESTONE: light brownish gray (5YR 6/1) to white (N9), firm, micrite, local intraclasts, tight, pale yellow fluorescence, pale yellow cut

SHALE: medium gray (N5) to medium dark gray (N4), firm, platy cuttings, slightly calcareous, no fluorescence.

LIMESTONE: dark yellowish brown (10YR 4/2), blocky, angular, very hard, dense, crystalline, locally fossiliferous, reacts vigorously to HCl

LIMESTONE: moderate yellowish brown (10YR 5/4), locally very pale orange (10YR 8/2), firm, blocky cuttings, micrite, less commonly peloidal, local vugs and fenestral porosity, oil staining, rare ammonite fossils, slow streaming to cloudy light blue cut, light blue halo

SHALE: moderate brown (5YR 3/4), moderately firm, platy to sub platy cuttings, generally smooth, locally gritty/silty, calcareous.

LIMESTONE: white (N9) to grayish orange (10YR 7/4), hard, sub blocky cuttings, fossiliferous, subhedral pyrite, rare vugs, locally a grainstone but more commonly dense, local oil staining, pale yellow to yellow fluorescence.

LIMESTONE: light brownish gray (5YR 6/1), firm, sub platy cuttings, varied textures, fossiliferous, well preserved ammonite, slight porosity and oil staining, yellow fluorescence, light blue streaming cut, patchy halo

SHALE: med. dark gray (N4) to black (N1), mod firm, locally calc, common pyrite, common thin (< 1mm) black lamina, no fluorescence.

LIMESTONE: white (N9) to mod yellowish brown (10YR 5/4), sub blocky to platy, firm, micrite, commonly fossiliferous, locally soft and chalky, trace fenestral porosity, common lig oil staining, pale yellow fluorescence, fast streaming to cloudy white blue cut, patchy halo

LIMESTONE: white (N9), boundstone or biolithite with inter- and intra- clastic porosity stained with oil residue, calc, slow streaming blue cut, faint halo

LIMESTONE: light brownish gray (5YR 6/1), very firm, micrit no visible porosity, locally chalky and moderately firm, loca

179u TG
9734 ppm C1
2478 ppm C2
2971 ppm C3
2766 ppm C4

189u TG
10007 ppm C1
2691 ppm C2
3214 ppm C3
3063 ppm C4

150u TG
7211 ppm C1
2202 ppm C2
2843 ppm C3
2788 ppm C4

134u TG
3865 ppm C1
2642 ppm C2
3067 ppm C3
4053 ppm C4

Trip Gas

WT 8.8
VS 51
WOB 36
RPM 102
PSI 844

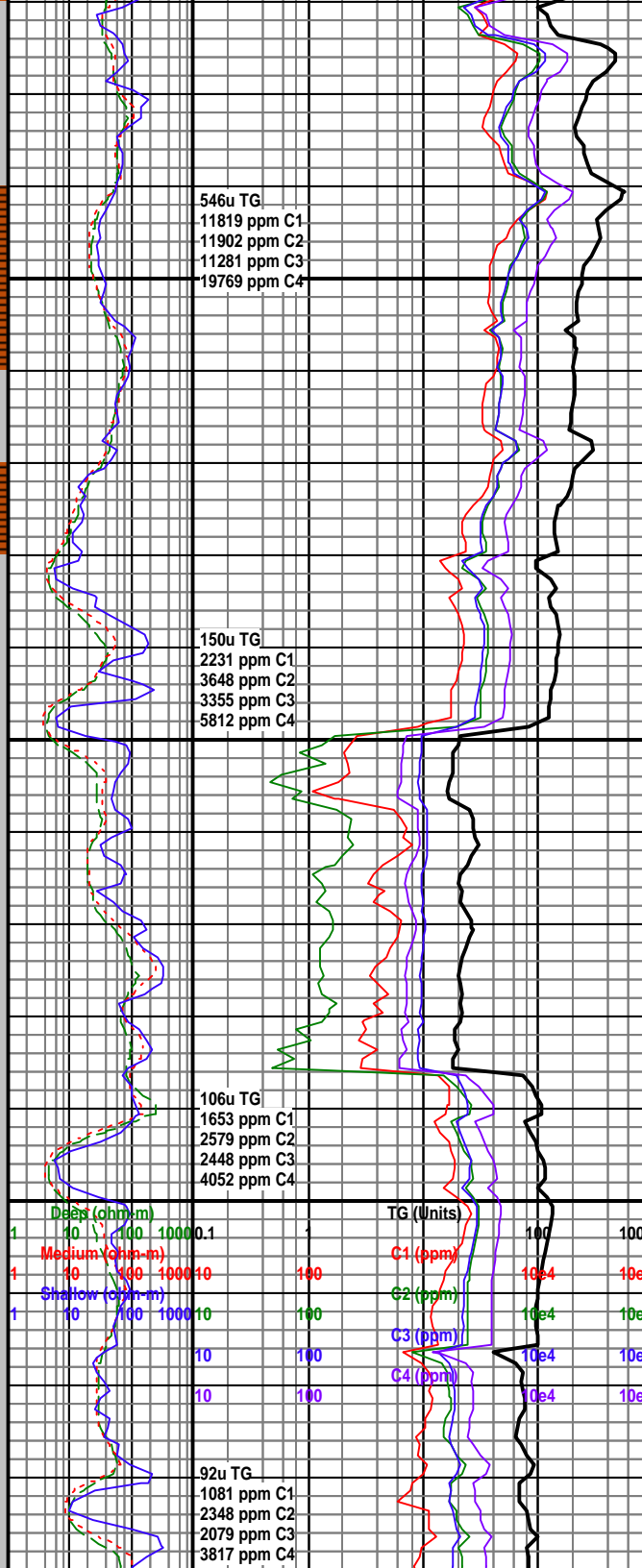
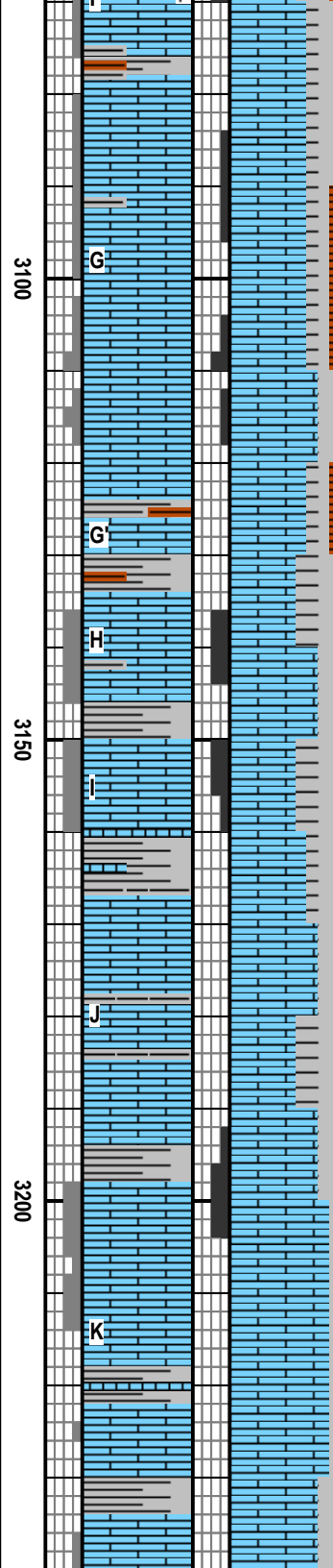
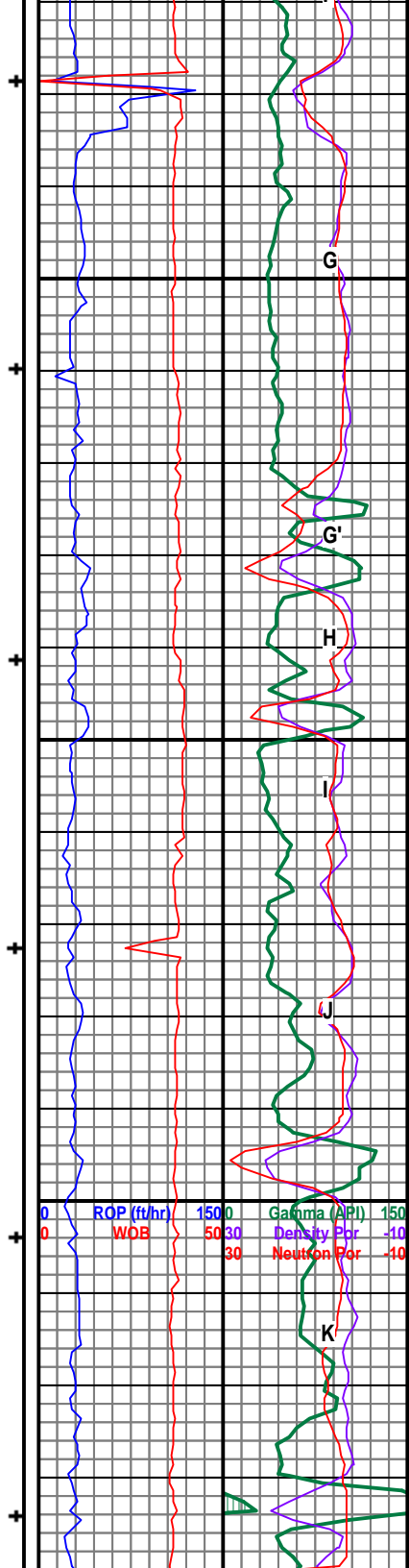
WT 9.1
VS 47

WOB 40
RPM 84
PSI 795

WT 9.2
VS 46

WOB 37
RPM 75
PSI 863
WT 9.2
VS 56

WT 9.2
VS 50



oil stained

LIMESTONE: very pale orange (10YR 8/2), occurs as ~1mm subrounded chips, firm to hard, locally fossiliferous - fossils mainly occur as loose crinoid hash, reacts vigorously to HCl, occasional chip has fast streaming blue cut

LIMESTONE: yellowish gray (5Y 8/1), blocky, very hard, tight, fenestral porosity infilled with translucent calcite cement, common vug porosity, fossiliferous, occasional oil staining, pale yellow fluorescence, streaming bright yellow cut

LIMESTONE: mottled yellowish gray (5Y 8/1) and greenish gray (5G 6/1) to med bluish gray (5B 5/1) packstone, soft to moderately firm, sub angular chips

LIMESTONE: mod yellowish brown (10YR 5/4), locally very pale orange (10YR 8/2), firm, sub blocky cuttings, micrite but also commonly peloidal, local vug porosity and fenestral porosity, oil staining inside of vugs, rare fossils, instant fast streaming bright white blue cut, bright yellow halo

SHALE: med light gray (N6) to dark greenish gray (5GY 4/1) to dark reddish brown (10R 3/4), mod firm, platy to sub blocky cuttings, generally smooth, locally gritty/silty, locally calc

LIMESTONE: yellowish gray (5Y 8/1), micrite, very hard, sub blocky, local vug porosity and stylolites, vugs and stylolites are oil stained, locally fossiliferous, instant fast streaming blue white cut, dull yellow halo

LIMESTONE: white (N9) to med light gray (N6) to mod yellowish brown (10YR 5/4), micrite, locally vuggy with oil stains, common fenestral porosity, also oil stained; grainstone to boundstone, very fossiliferous, light intraparticle oil staining, dull yellow fluorescence, slow streaming dull yellow green cut

LIMESTONE: white (N9) to light gray (N7), occurs as ~1mm subrounded grains/chips and ~5mm blocky chips, firm to hard, locally fossiliferous - fossils mainly occur as loose crinoid hash, reacts vigorously to HCl; also fossiliferous grainstone, rare pyrite, dull yellow fluorescence, slow streaming blue white cut

SHALE: med dark gray (N4) to a dark greenish gray (5G 4/1), platy to sub blocky, soft to mod firm, locally micaceous, locally calc

LIMESTONE: mottled pale yellowish brown (10YR 6/2) with very light gray (N8), crystalline, firm to hard, blocky, locally fossiliferous, locally vuggy with oil residue, rare intercrystal porosity, instant fast streaming to cloudy white cut

SHALE: grayish black (N2) to a dark greenish gray (5G 4/1), platy, soft to mod firm, locally micaceous, locally silty, calc, no fluorescence, no cut

LIMESTONE: white (N9) to med light gray (N6) to mod yellowish brown (10YR 5/4), micrite, hard, blocky, locally vuggy, no oil stains, locally fossiliferous, weak slow streaming pale yellow cut

SHALE: med dark gray (N4) to a dark greenish gray (5G 4/1), platy to sub blocky, long thin blades common, soft to mod firm, locally micaceous, locally calc

LIMESTONE: white (N9) to med light gray (N6) to mod yellowish brown (10YR 5/4), micrite, locally crystalline, locally vuggy, no oil stains, locally fossiliferous, weak slow streaming pale yellow cut

3251 MD
Arbuckle

WT 9.2
VS 53

WOB 35
RPM 55
PSI 952

3260

Rig TD

TD 3260'
9/30/2013
02:00

DST #2
3250'-3260'
15-60-60- 120
min
IH 1592
IF 671
BOB 20sec
ISI 1042
BOB 12min
FF 1042
BOB 1sec
FSI 1043
BOB 6min
FH 1573

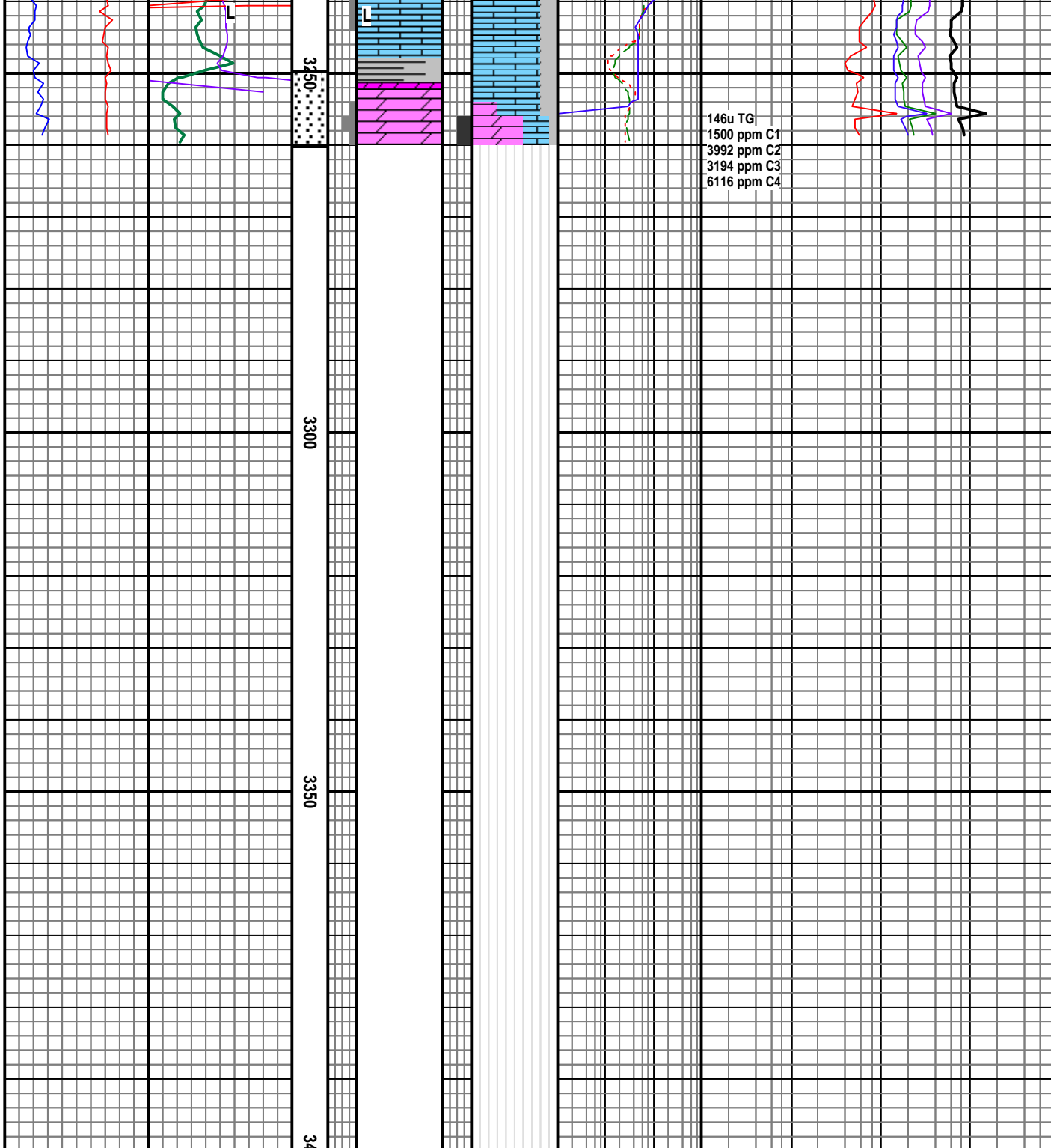
Recovery:
1698' Water
932' Oil

3250

3300

3350

3400



146u TG
1500 ppm C1
3992 ppm C2
3194 ppm C3
6116 ppm C4

hard, locally soft and chunky, blocky, locally vuggy, no o
stains, locally fossiliferous, no fluorescence, no cut

LIMESTONE: very pale orange (10YR 8/2) to pale yellowish
brown (10YR 6/2), blocky, firm to hard, though can be soft,
algal laminations visible, fossiliferous, no oil staining, patchy
dull yellow fluorescence, no cut

DOLOMITE: white (N9) to buff, crystalline, sucrosic texture
common, visible porosity, hard, vugs common, no stain in
Alizarin Red, slow mild reaction in HCl, strong petroliferous
odor, yellow fluorescence, instant bright white blue fast
streaming cut and milky cloud, white halo

Note:

Bottoms up sample for 3055' MD contained no dolomite.

Spot check sample caught between BU 3055' MD and BU
3060' MD contained dolomite chips and had a strong
petroliferous odor

Bottoms up sample 3060' MD: dolomite and strong
petroliferous odor

T. M. McCoy & Co., Inc.
Geologist: Ryan Thress

0	RQP (ft/hr)	150	0	Gamma (API)	150
0	WDB	50	30	Density Por	-10
			30	Neutron Por	-10

	Deep (ohm-m)		TG (Units)		
1	10	100	1000	0.1	100
	Medium (ohm-in)		C1 (ppm)		
1	10	100	1000	10	100
	Shallow (ohm-in)		C2 (ppm)		
					10e4
					10e5

0	ROP (ft/hr)	150	0	Gamma (API)	150
0	WDB	50	30	Density Por	-10
		30		Neutron Por	-10

3600

3650

3700

37

	Deep (ohm-m)			TG (Units)			
1	10	100	1000	0.1		100	1000
	Medium (ohm-m)				C1 (ppm)		
1	10	100	1000	10	100	10e4	10e5
	Shallow (ohm-m)				C2 (ppm)		
1	10	100	1000	10	100	10e4	10e5
					C3 (ppm)		
				10	100	10e4	10e5
					C4 (ppm)		
				10	100	10e4	10e5

