



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1216649
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: _____

1216649

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Oil Producers Inc. of Kansas
Well Name	CRAIG J 1
Doc ID	1216649

All Electric Logs Run

Dual Induction Log
Compensated Denisty Neutron PE Log
Micro Log
Sonic Log



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Oil Producers Inc of Kansas

36-20s-21w, Pawnee, KS

Craig J #1

Job Ticket: 58954

DST#: 1

ATTN: Kent Matson

Test Start: 2014.05.12 @ 09:10:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:35:00

Time Test Ended: 16:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 4382.00 ft (KB) To 4390.00 ft (KB) (TVD)

Total Depth: 4390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2253.00 ft (KB)

2241.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8957 Outside

Press@RunDepth: psig @ 4387.00 ft (KB)

Start Date: 2014.05.12

End Date:

2014.05.12

Start Time: 09:10:05

End Time:

16:50:14

Capacity: 8000.00 psig

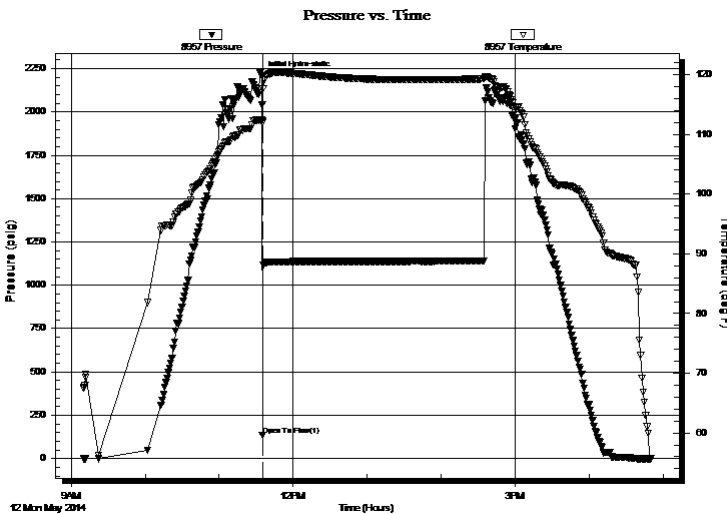
Last Calib.: 1899.12.30

Time On Btm: 2014.05.12 @ 11:34:15

Time Off Btm:

TEST COMMENT: IF-3in blow built to 3 1/4in died back to 3in
IS-No blow
FF-No blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.43	112.39	Initial Hydro-static
1	135.90	112.04	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OS Mud	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Oil Producers Inc of Kansas

36-20s-21w, Pawnee, KS

Craig J #1

Job Ticket: 58954

DST#: 1

ATTN: Kent Matson

Test Start: 2014.05.12 @ 09:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OS Mud	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

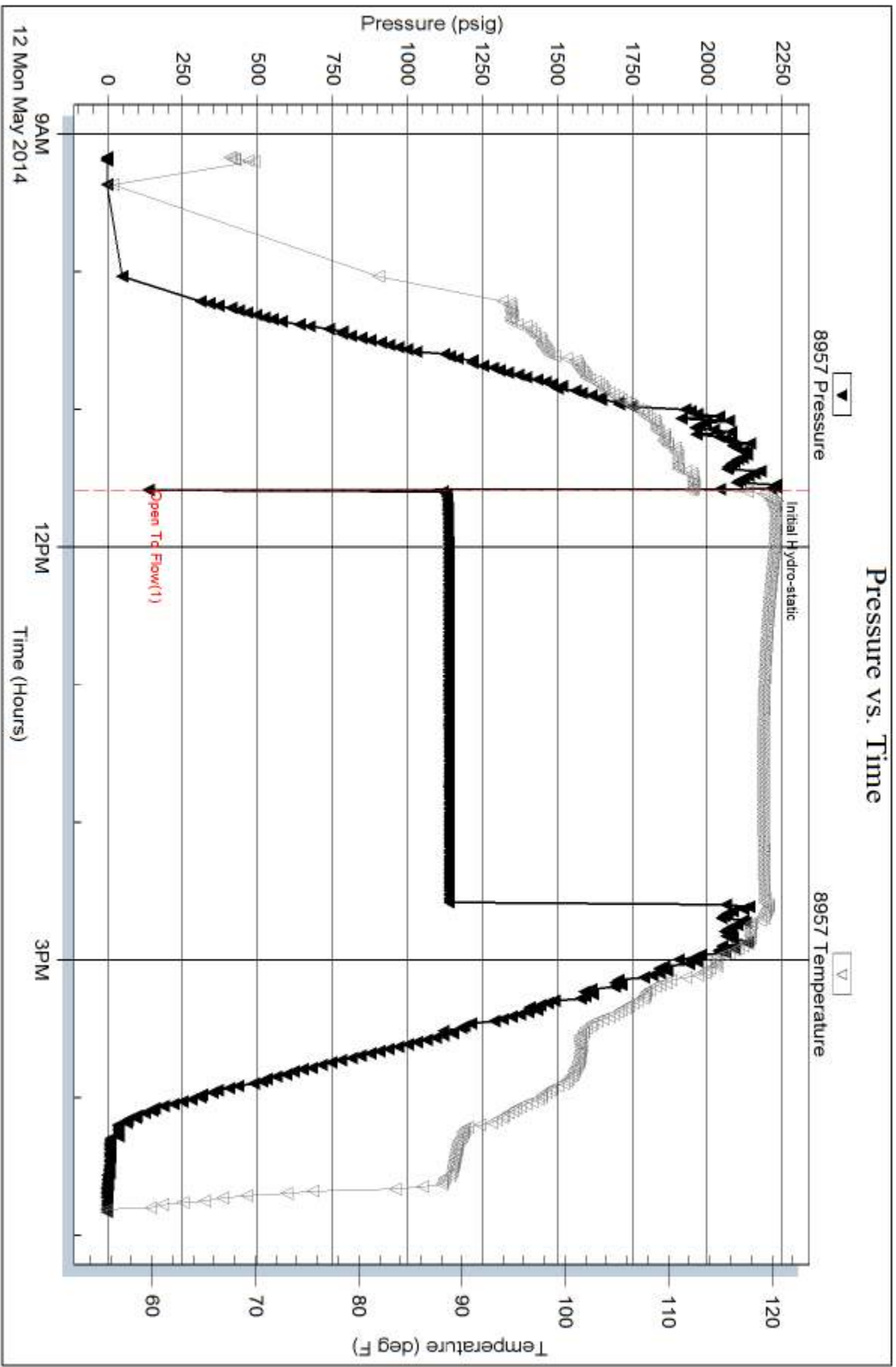
Recovery Comments:

Serial #: 8957

Outside Oil Producers Inc of Kansas

Craig J #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58954

Printed: 2014.05.12 @ 17:21:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Oil Producers Inc of Kansas

36-20s-21w ,Ness,KS

1710 Waterfront PKWY
Wichita KS 67206

Craig J #1

Job Ticket: 58955

DST#: 2

ATTN: Kent Matson

Test Start: 2014.05.12 @ 09:10:00

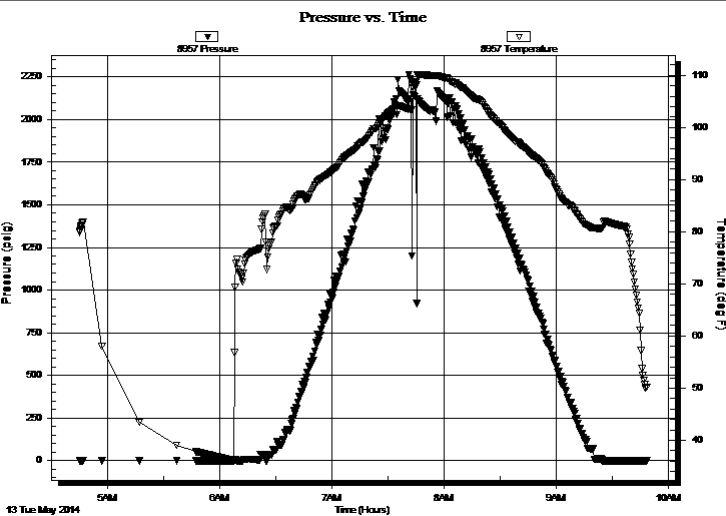
GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Interval: **4382.00 ft (KB) To 4390.00 ft (KB) (TVD)**
 Total Depth: 4390.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2253.00 ft (KB)
 2241.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8957

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.13 End Date: 2014.05.13 Last Calib.: 2014.05.13
 Start Time: 04:45:05 End Time: 09:48:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: Packer Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Mud	1.73

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Oil Producers Inc of Kansas

36-20s-21w ,Ness,KS

1710 Waterfront PKWY
Wichita KS 67206

Craig J #1

Job Ticket: 58955

DST#: 2

ATTN: Kent Matson

Test Start: 2014.05.12 @ 09:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Mud	1.727

Total Length: 240.00 ft Total Volume: 1.727 bbl

Num Fluid Samples: 0

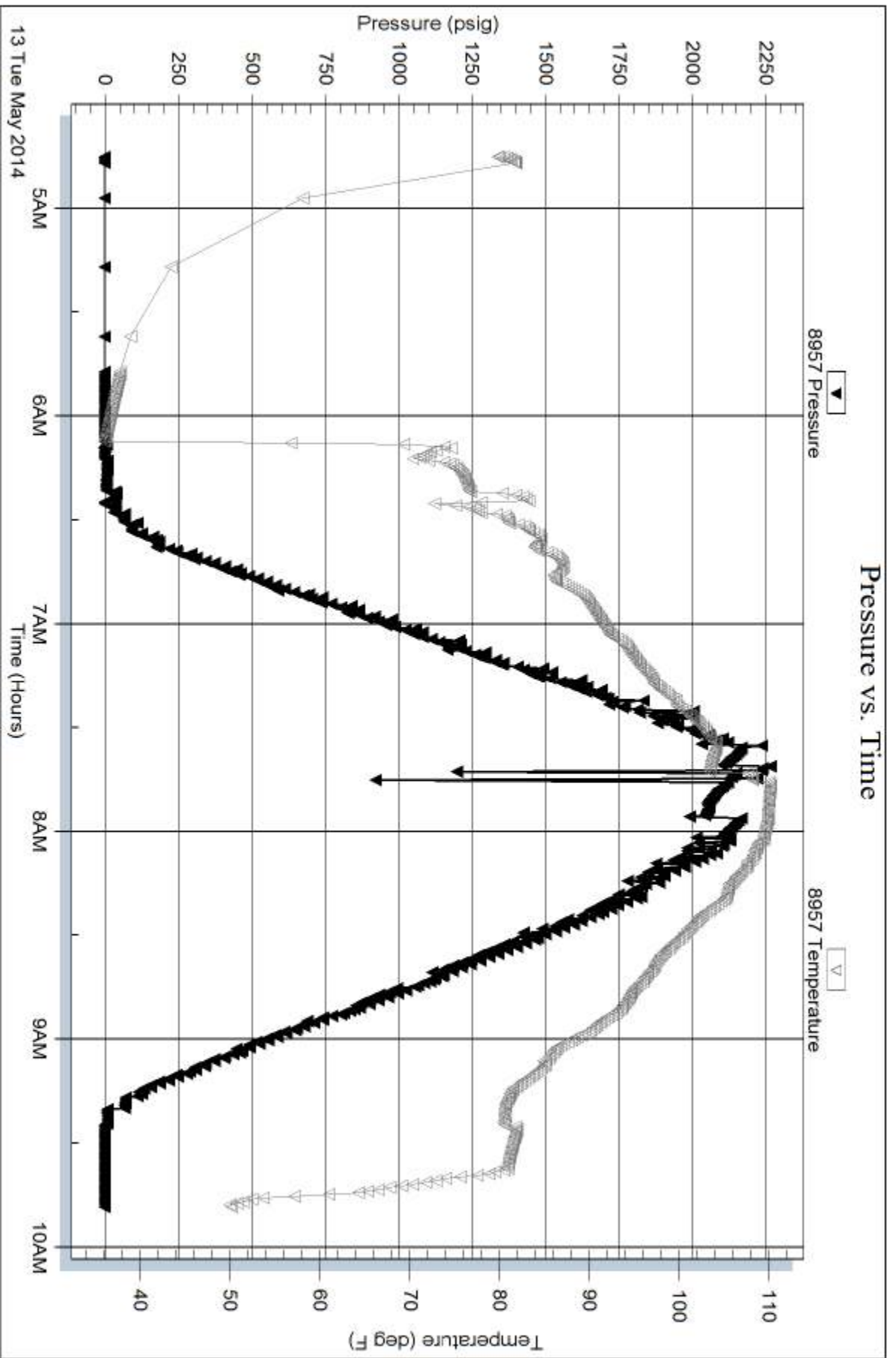
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Oil Producers Inc of Kansas

36-20s-21w, Ness, KS

1710 Waterfront PKWY
Wichita KS 67206

Craig J #1

Job Ticket: 58956

DST#: 3

ATTN: Kent Matson

Test Start: 2014.05.13 @ 08:58:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:39:45

Time Test Ended: 16:52:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4355.00 ft (KB) To 4390.00 ft (KB) (TVD)

Total Depth: 4390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2253.00 ft (KB)

2241.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8957 Outside

Press@RunDepth: 489.61 psig @ 4387.00 ft (KB)

Start Date: 2014.05.13

End Date: 2014.05.13

Start Time: 08:58:05

End Time: 16:52:44

Capacity: 8000.00 psig

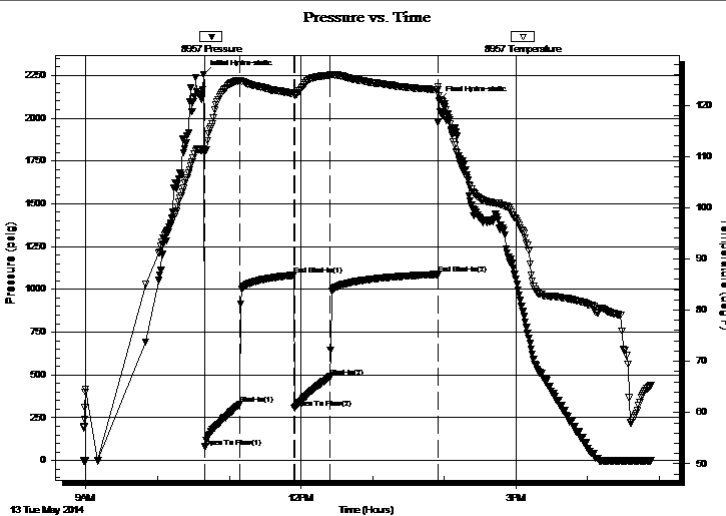
Last Calib.: 2014.05.13

Time On Btm: 2014.05.13 @ 10:38:45

Time Off Btm: 2014.05.13 @ 13:55:45

TEST COMMENT: IF-BOB in 5min
IS-1/2in blow
FF-BOB in 5min
FS-BOB in 23min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.62	111.37	Initial Hydro-static
1	79.90	111.02	Open To Flow (1)
30	327.63	124.83	Shut-In(1)
75	1082.47	122.23	End Shut-In(1)
76	306.59	121.86	Open To Flow (2)
106	489.61	125.82	Shut-In(2)
196	1087.62	122.99	End Shut-In(2)
197	2103.36	121.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Water	3.41
420.00	GVSOMCW 20%G 10%O 20%M 50%W	5.89
180.00	GVSOWCM 20%G 10%O 40%M 30%W	2.52
95.00	GSOWCM 15%G 20%O 40%M 25%W	1.33
0.00	420ft GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Oil Producers Inc of Kansas

36-20s-21w ,Ness,KS

1710 Waterfront PKWY
Wichita KS 67206

Craig J #1

Job Ticket: 58956

DST#: 3

ATTN: Kent Matson

Test Start: 2014.05.13 @ 08:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
360.00	Water	3.410
420.00	GVSOMCW 20%G 10%O 20%M 50%W	5.891
180.00	GVSOWCM 20%G 10%O 40%M 30%W	2.525
95.00	GSOWCM 15%G 20%O 40%M 25%W	1.333
0.00	420ft GIP	0.000

Total Length: 1055.00 ft Total Volume: 13.159 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

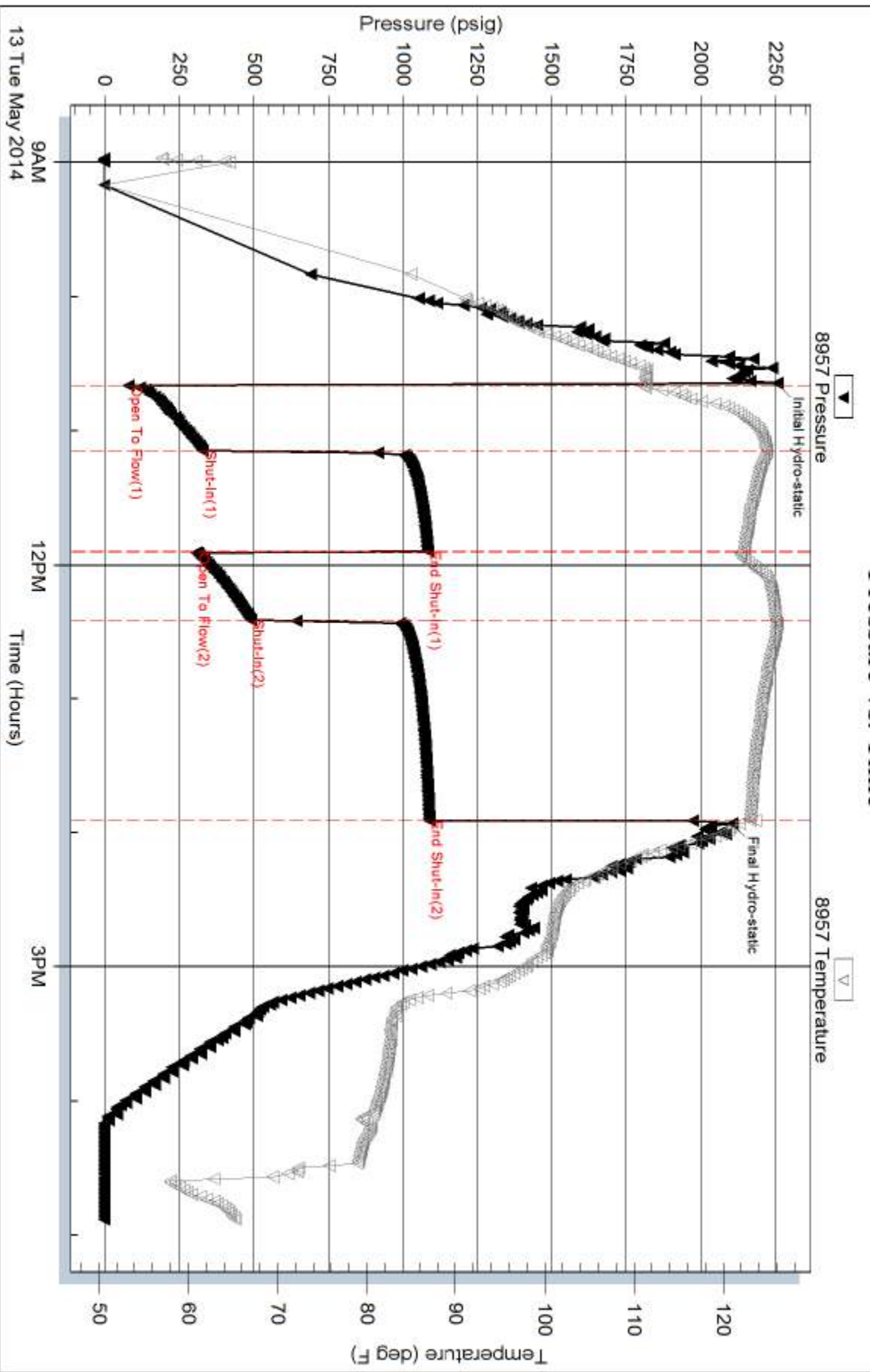
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Oil Producers Inc of Kansas

36-20s-21w ,Ness,KS

1710 Waterfront PKWY
Wichita KS 67206

Craig J #1

Job Ticket: 58957

DST#: 4

ATTN: Kent Matson

Test Start: 2014.05.14 @ 03:50:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:09:00

Time Test Ended: 12:03:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4398.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 2253.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

2241.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8957 Outside

Press@RunDepth: 173.01 psig @ 4407.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.14

End Date:

2014.05.14

Last Calib.:

2014.05.14

Start Time: 03:50:05

End Time:

12:03:29

Time On Btm:

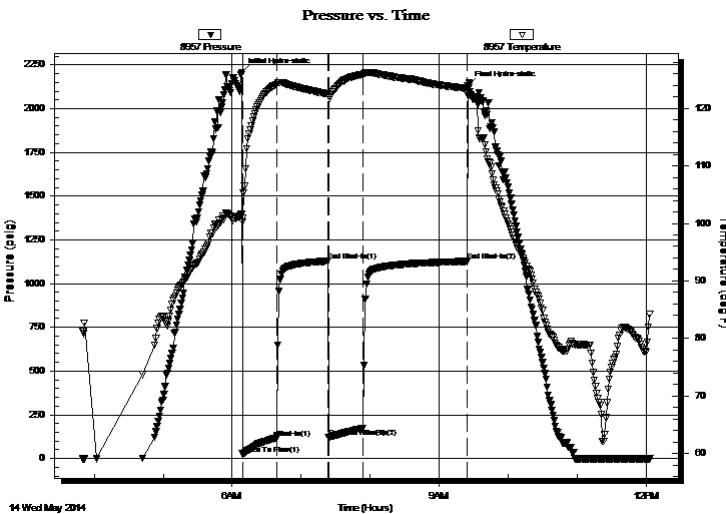
2014.05.14 @ 06:08:15

Time Off Btm:

2014.05.14 @ 09:25:15

TEST COMMENT: IF-BOB in 10min
IS-Very weak surface blow
FF-BOB in 19min
FS-Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2206.96	101.50	Initial Hydro-static
1	23.27	100.86	Open To Flow (1)
31	117.75	124.14	Shut-In(1)
75	1128.71	122.48	End Shut-In(1)
76	122.11	122.00	Open To Flow (2)
106	173.01	125.88	Shut-In(2)
196	1127.16	123.49	End Shut-In(2)
197	2129.63	123.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
305.00	VSGMCW 5%G 5%M 90%W	2.64
44.00	VSGOWCM 10%G 2%O 20%W 68%M	0.62
1.00	Free Oil	0.01
0.00	120ft GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Oil Producers Inc of Kansas

36-20s-21w ,Ness,KS

1710 Waterfront PKWY
Wichita KS 67206

Craig J #1

Job Ticket: 58957

DST#: 4

ATTN: Kent Matson

Test Start: 2014.05.14 @ 03:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
305.00	VSGMCW 5%G 5%M 90%W	2.639
44.00	VSGOWCM 10%G 2%O 20%W 68%M	0.617
1.00	Free Oil	0.014
0.00	120ft GIP	0.000

Total Length: 350.00 ft

Total Volume: 3.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

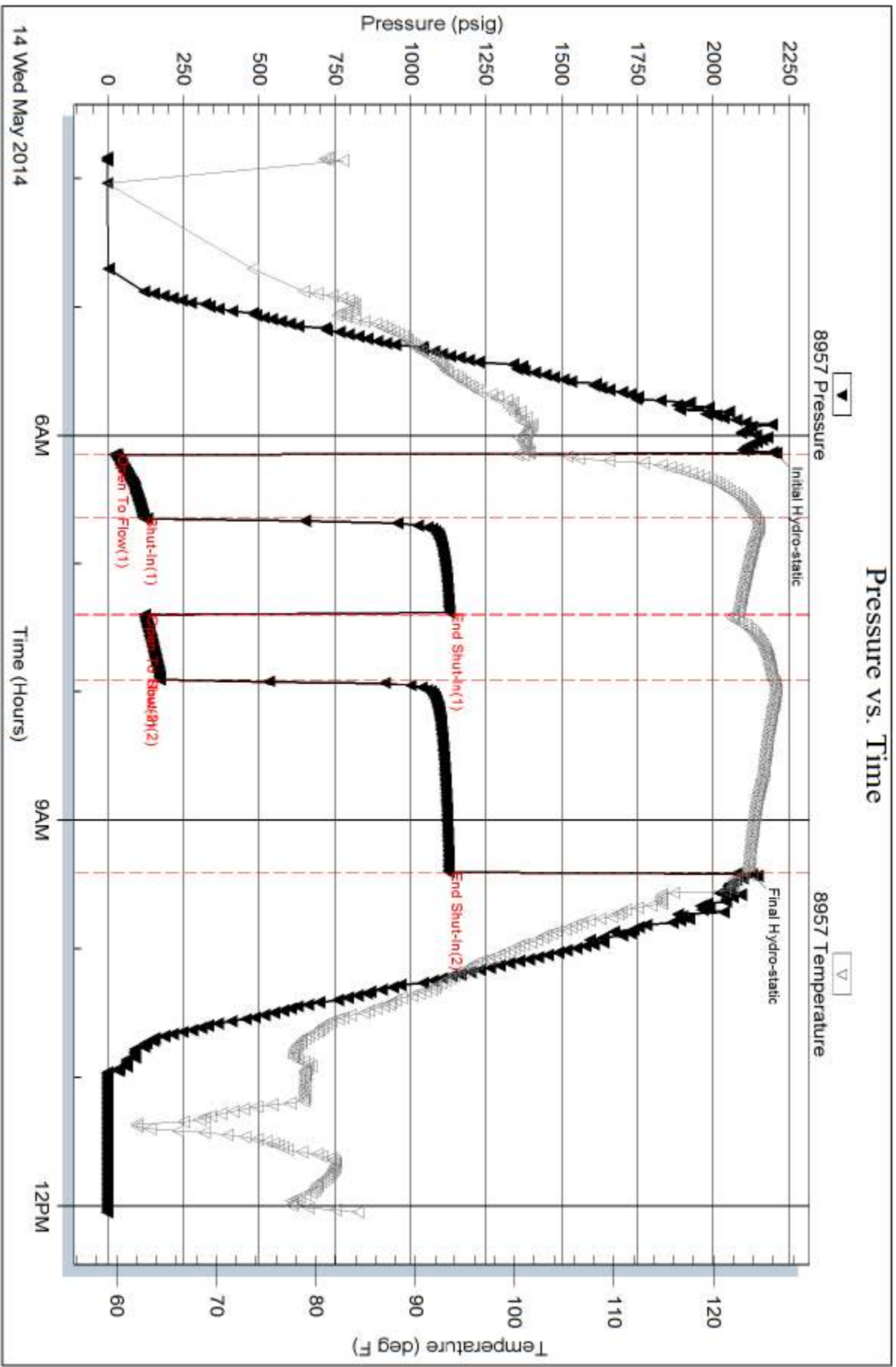
Recovery Comments:

Serial #: 8957

Outside Oil Producers Inc of Kansas

Craig J#1

DST Test Number: 4



ALLIED OIL & GAS SERVICES, LLC 062927

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Geantford

DATE <u>5-5-14</u>	SEC. <u>36</u>	TWP. <u>20</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION <u>3 p</u>	JOB START <u>12:30 AM</u>	JOB FINISH <u>1 AM</u>
LEASE <u>Crain</u>	WELL # <u>1</u>	LOCATION <u>Alexander 135 2w</u>		COUNTRY <u>MO</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Pickrell OWNER _____

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. _____

CASING SIZE 8 5/8 DEPTH 223.39

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 FT

PERFS. _____

DISPLACEMENT 13,27 bbl freshwater

EQUIPMENT _____

PUMP TRUCK CEMENTER Josh Gees

308 HELPER Ben Smith

BULK TRUCK DRIVER Brian Long

_____ DRIVER _____

BULK TRUCK DRIVER _____

REMARKS:

*Dr location - Rig #1
Run 8 5/8 casing - Break circulation
Pump 5001 Pressure
With 150 SKS Class A - 30 cc Thylol
Displace 13,27 bbl freshwater
Start in Circulation
Cement did Circulate
Rig down*

CHARGE TO: Oil producers Inc
STREET _____ 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 X Mike Kern
SIGNATURE X ymike Kern

Thank you!

CEMENT AMOUNT ORDERED 150 SKS Class A 30cc Thylol

COMMON 150 @ 17.90 = 2.685.00
POZMIX @ _____
GEL 3 @ 23.40 = 70.20
CHLORIDE 423 @ .80 = 338.40
ASC @ _____

Materials @ _____ = 3,093.60
Dies @ 20% = 618.72

HANDLING 162.5 @ 2.48 = 403.00
MILEAGE 7.4 x 35 x @ 2.60 = 673.40

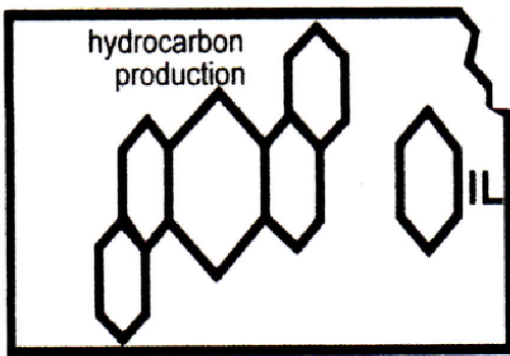
DEPTH OF JOB 223.39
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @ _____
MILEAGE Hum 35 @ 7.70 = 269.50
MANIFOLD Hum 35 @ 4.40 = 154.00

TOTAL 3,012.15
(20%) 602.43

PLUG & FLOAT EQUIPMENT

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
(0%) TOTAL 0

SALES TAX (If Any) _____
TOTAL CHARGES 6,105.75
DISCOUNT 1,221.15 IF PAID IN 30 DAYS
4,884.60



OIL PRODUCERS, INC. OF KANSAS

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

Well Name: Craig J #1
Well Id:
Location: 1815' FSL, 335' FEL, 36-20S-21W, Ness County, Kansas
License Number: API: 15-135-25742 **Region:** Ness County
Spud Date: 05/05/2014 **Drilling Completed:** 05/14/2014
Surface Coordinates: Lat: 38.2670688
Long: -99.5849889
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2243' **K.B. Elevation (ft):** 2253'
Logged Interval (ft): 3700' **To:** RTD **Total Depth (ft):** 4470'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

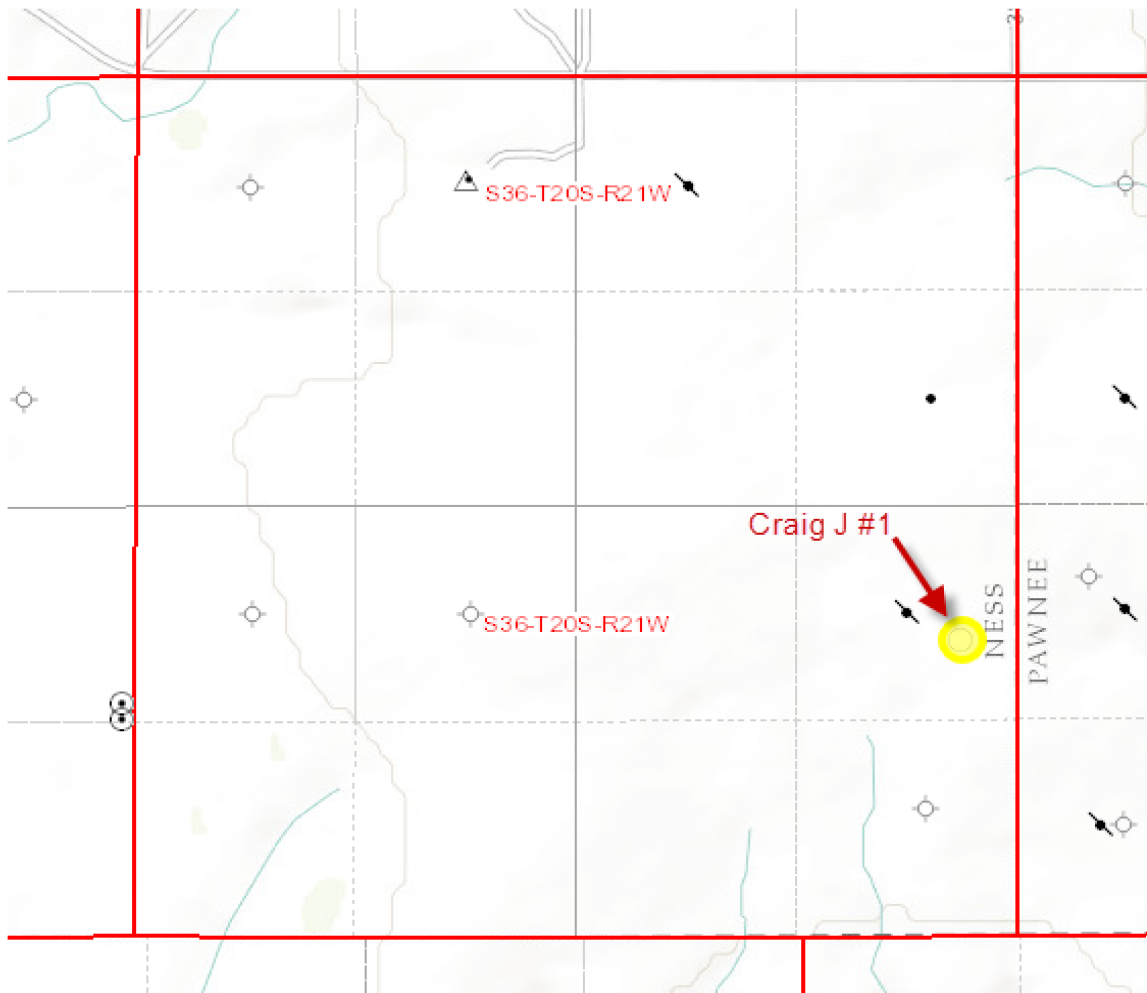
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Oil Producers, Inc. of Kansas (OPIK)
Address: 1710 N. Waterfront Parkway
Wichita, KS 67206-6603
316-681-0231

GEOLOGIST

Name: Kent R. Matson
Company: Matson Geological Services, LLC
Address: 33300 W. 15th Street S.
Garden Plain, Kansas 67050
316-644-1975



COMMENTS

Contractor: Pickrell Drilling Company, Rig #1.

Tool Pusher: Mike Kern.

Surface Casing: 8 5/8" set at 223' (KB) w/150sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log review, production casing was not installed and the hole was plugged and abandoned.

Mud by: MudCo.

DST's by: Trilobite Testing - Brett Dickinson.

Logs by: Nabors Production Service (DIL w/SP, CN-CD, ML, Sonic).

RTD= 4470'.

LTD= 4470'.

05/13, DST #2 @ 4390'.
05/14, DST #4 @ 4410', TD @ 4470'.

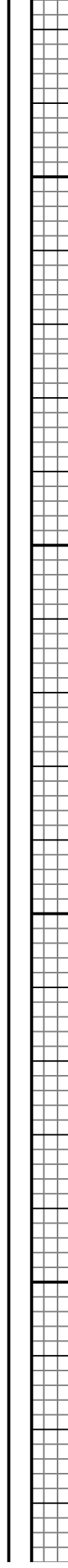
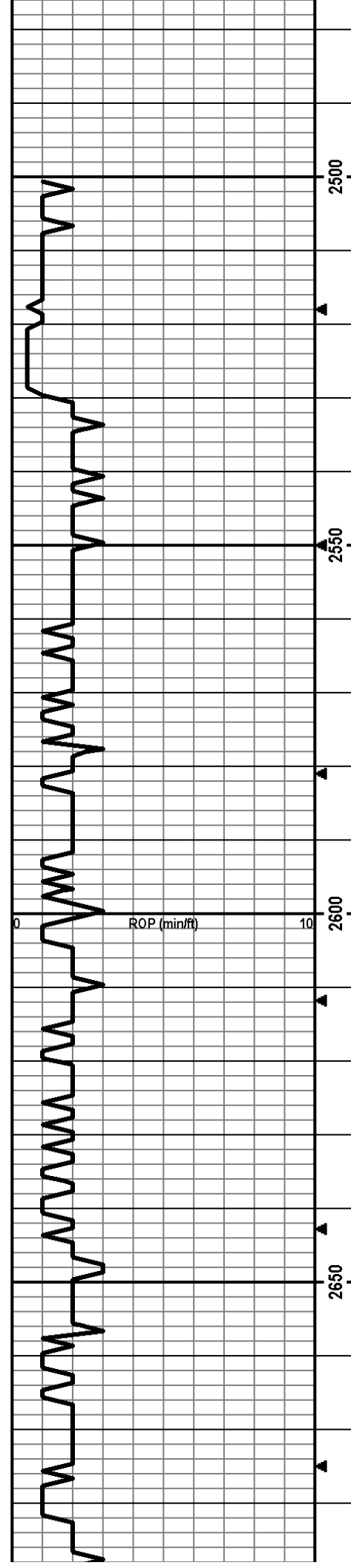
n/c 0

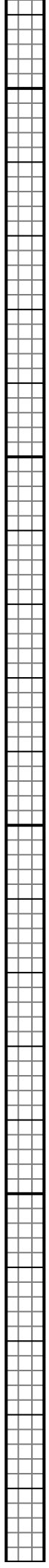
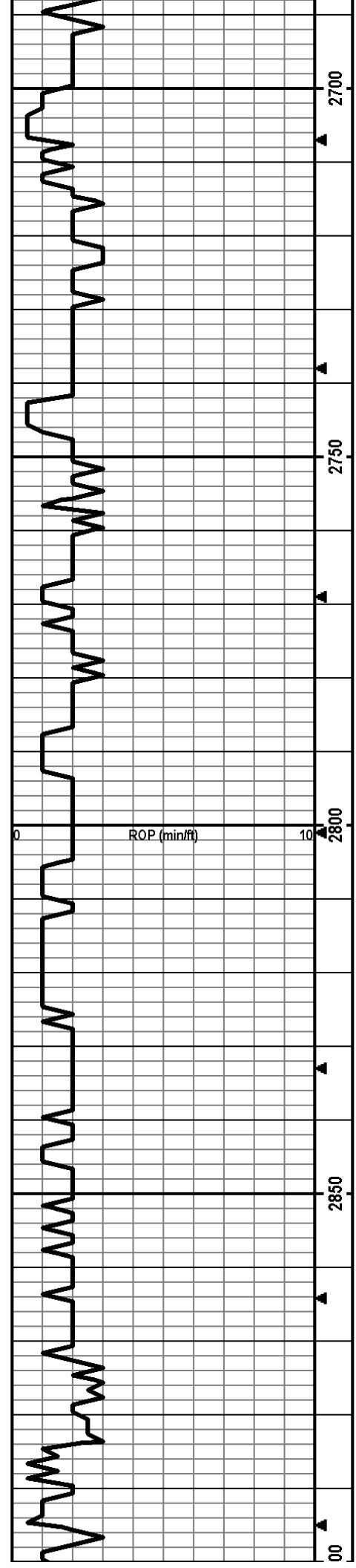
Mudco Check #3 @ 1768'
05/07/14 12:35pm
wt vis pH chl
9.4 29 7.0 5800
Filt LCM
n/c 0

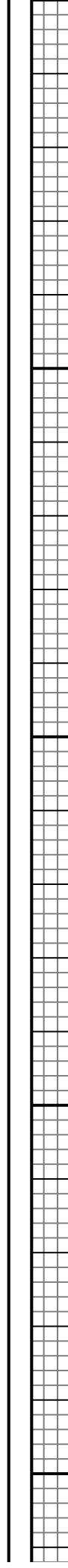
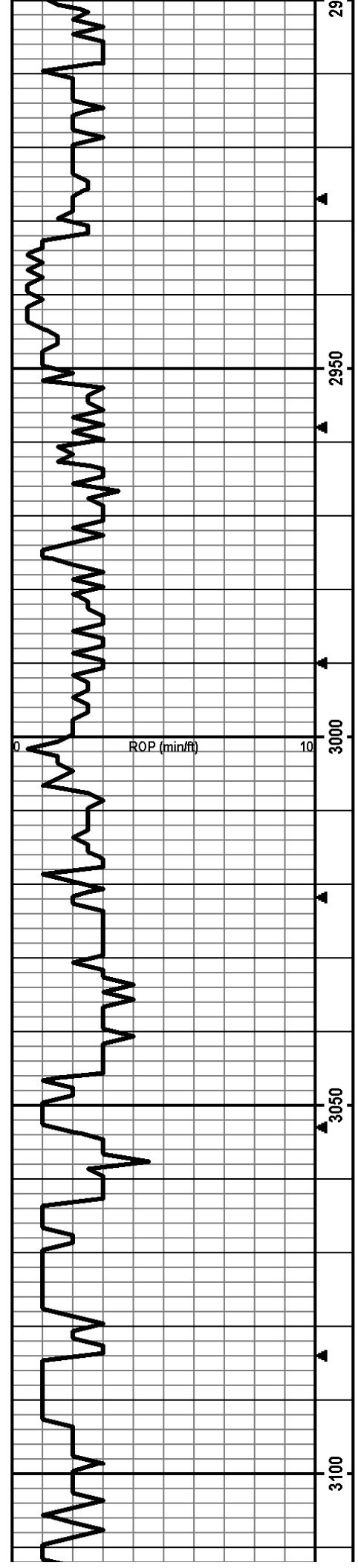
Anhydrite: Top @ 1409', Bottom @ 1435'

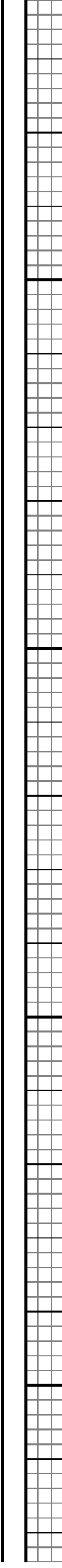
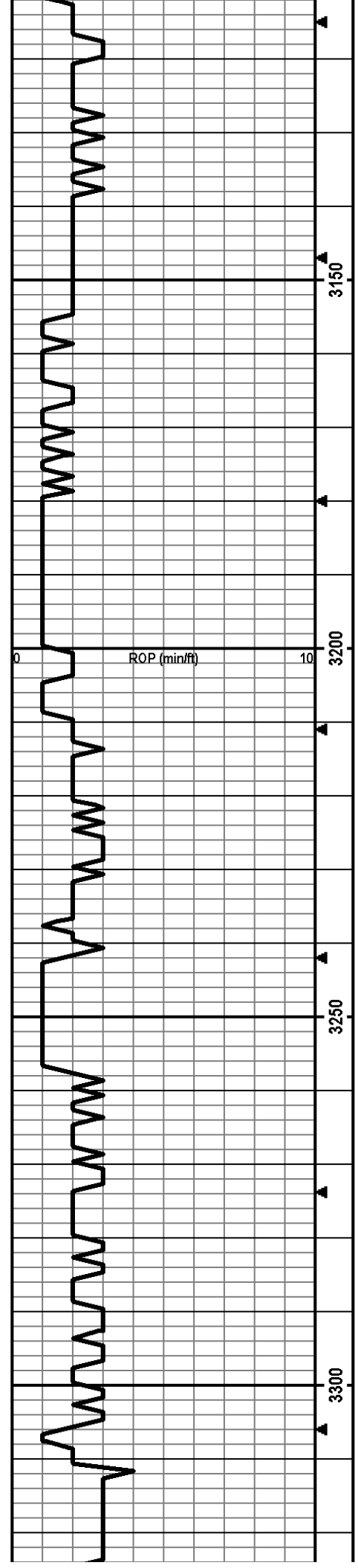
ROP Data begins @ 2500' on 05/08/2014

Mudco Check #4 @ 2566'
05/08/14 12:20pm
wt vis pH chl
9.9 29 7.0 76000
Filt LCM
n/c 0

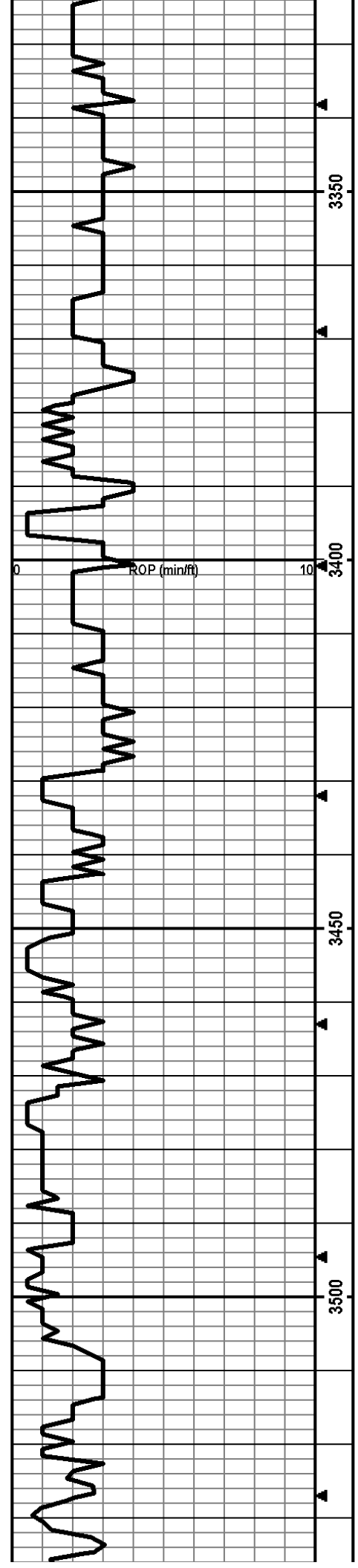




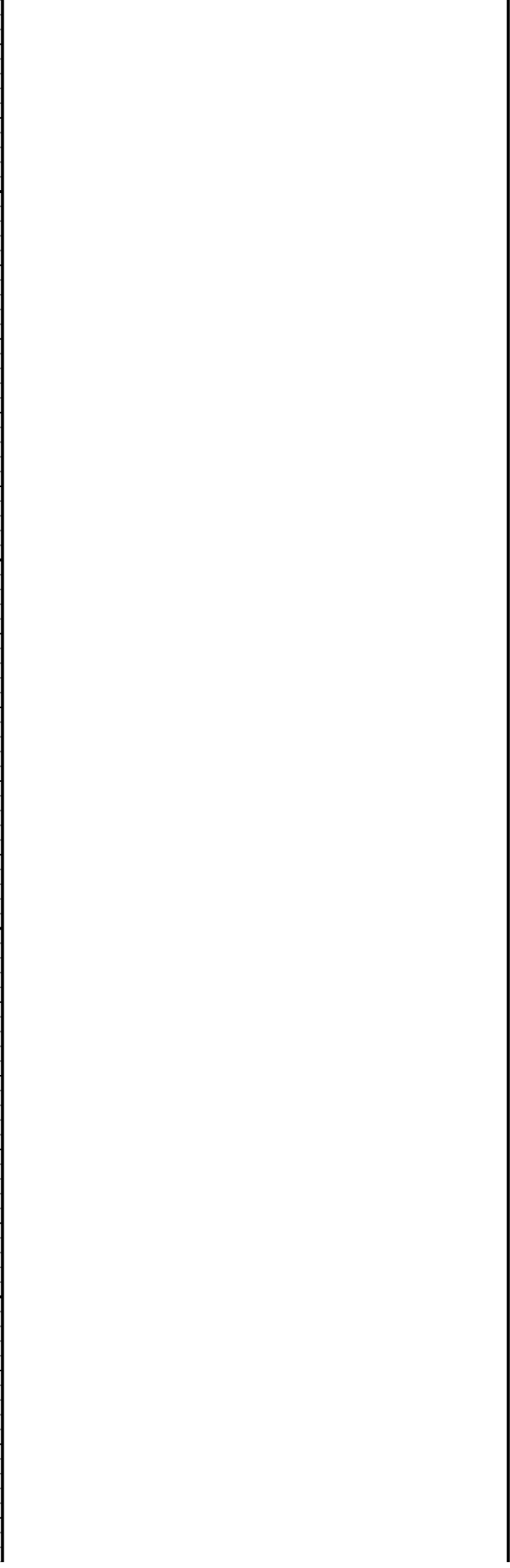




Mudco Check #5 @3242'
 05/09/14 12:10pm
 wt vis pH chl
 9.8 29 7.0 57000
 Filt LCM
 n/c 0



Depth (ft)	ROP (min/ft)
3350	5.0
3360	5.0
3370	5.0
3380	5.0
3390	5.0
3400	10.0
3410	10.0
3420	10.0
3425	2.0
3430	2.0
3440	2.0
3450	2.0
3460	2.0
3470	2.0
3475	8.0
3480	8.0
3490	8.0
3500	8.0



Larsh 3550
(-1297)

3550

ROP (min/ft)

3600

Queen Hill
3626 (-1373)

3626

3650

3700

Heebner
3744
(-1491)

3744

Drill cutting samples at 10' intervals start at 3700'.

LS: crm/lt brn/lt gry, micro-med xtal, some foss frags/fusln, vry silty/sndy, min ppt-fn in-xtal por, no odor, ns.

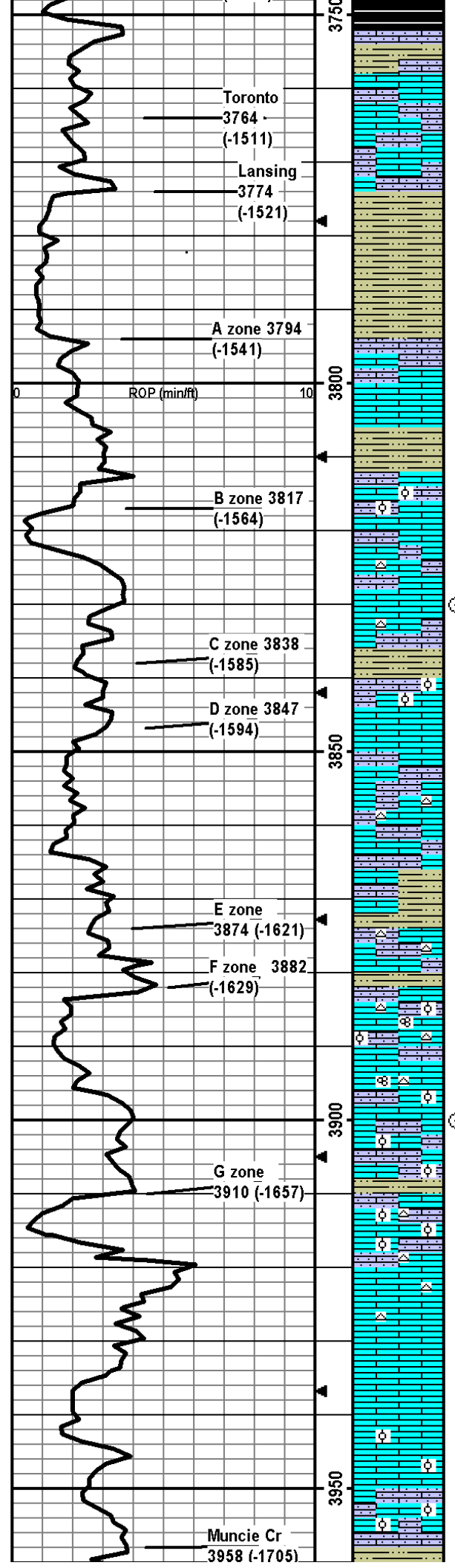
LS: crm/lt-med brn, micro-fn xtal, some foss frags, some vry silty, some ppt in-xtal por, no odor, ns.

LS: lt-med brn/lt-med gry, micro-med xtal w/min 2ndry crs xtal, some foss frags, vry silty/sndy, some ppt-fn in-xtal por, no odor, ns

LS: same as above, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-fn xtal, min foss frags, vry silty/sndy, some ppt-fn in-xtal por, no odor, ns.

SU: med-dk grn/blk, some silty, carb. firm, fissile



On: med-dk gry/brn, some silty, carb, firm, fissile.

LS: crm/lt brn/ltgry, micro-fn xtal, min foss frags, some vry silty, ppt-fn in-xtal por, no odor, ns. Some med-dk gry firm silty SH.

LS: crm/lt-med brn, micro-fn xtal, some silty, min ppt in-xtal and frac por, no odor, ns.

SH: med-dk gry/red brn, some silty, some carb, firm, fissile.

SH: med-dk gry/brn/red brn, greenish gry, some silty, some carb, firm, fissile.

LS: crm/lt gryish brn, micro-fn xtal, min foss frags, some vry silty, no vis por, no odor, ns.

LS: crm/lt brn/red brn, micro-fn xtal, min foss frags, some vry silty, min ppt-fn in-xtal por, ns.

SH: med-dk gry/brn/red brn/green gry, silty, carb, soft-firm, fissile.

LS: crm/lt brn/gry, micro-med xtal, foss frags/ool, some vry silty, ppt-fn in-xtal/oo-castic por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags, some vry silty, min wht/lt gry chert, min ppt in-xtal por, no odor, ns.

LS: crm/lt brn, micro-med xtal, some foss frags, some silty, min lt brn chert, min ppt in-xtal por, no odor, ns.

SH: med-dk gry/brn/red brn, silty, carb, soft-firm, fissile.

LS: crm/lt-med brn, micro-med xtal, foss frags/ool clusters w/SH matrix, some silty, min ppt in-xtal por, no odor, ns.

LS: crm/lt brn/lt gryish brn, micro-med xtal, foss frags, some vry silty, some wht/lt gry chert, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags, some vry silty, min ppt in-xtal por, no odor, ns.

SH: med-dk gry/green gry/red brn, carb, silty, firm, fissile.

LS: crm/lt-med brn, micro-med xtal, some foss frags, some vry silty, some lt brn chert, min ppt in-xtal por, no odor, ns.

SH: gry/green gry/brn, silty, slt carb, firm, fissile.

LS: lt brn, micro-med xtal, foss frags/fusln/ool, some vry silty, some lt brn chert, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt-med brn/lt gryish brn, micro-med xtal, foss frags/fusln/ool, some silty, some wht/lt brn chert, some ppt-fn in-xtal/frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags/some ool, some silty, min ppt in-xtal por, no odor, ns. Some lt-med gry/brn silty SH.

LS: crm/lt brn, micro-med xtal, foss frags/abund ool, some silty, lt brn chert, ppt-fn in-xtal and fn-med oo-castic por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, foss frags, some lt brn chert, min frac por, no odor, ns.

LS: crm, micro-fn xtal w/some med 2ndry xtal, min foss frags, some chalky, some frac por, no odor, ns.

LS: crm/lt gry, micro-fn xtal, min foss frags/some dense ool pcs, some chalky, some frac por, no odor, ns.

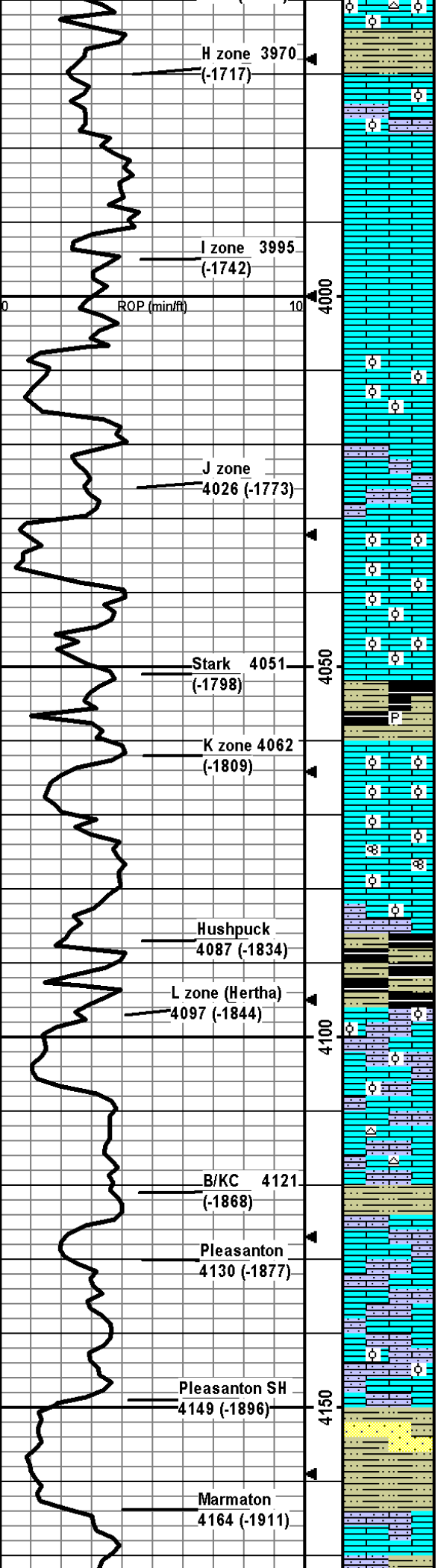
LS: crm/lt brn/lt gry, micro-fn xtal, foss frags w/abund ool, some silty, some chalky, ppt-med in-xtal/oo-castic por, no odor, ns.

SH: med-dk gry, silty, stly carb, soft-firm, fissile.

CFS @ 3830'
30"60"

Mudco Check #6 @ 3850'
05/10/14 01:45pm
wt vis pH chl
9.2 56 10.0 4000
Filt LCM
9.6 0

CFS @ 3900'
30"60"



LS: crm/lt brn/lt gry, micro-med xtal, foss frags/abund ool, some chalky, some lt brn chert, ppt-fn in-xtal and fn-med oo-castic por, no odor, ns.

SH: med-dk gry, silty, stly carb, soft-firm, fissile.

LS: crm/lt gry, micro-fn xtal, min foss frags/dense ool pcs, some silty, some stly chalky, min ppt in-xtal/frac por, no odor, ns.

CFS @ 3980'
30"60"

LS: crm/lt gryish brn, micro-fn, min foss frags, some frac por, no odor, ns.

LS: crm/lt gryish brn/lt gry, micro-fn xtal w/some med 2ndry xtal, some chalky, min foss frags, some frac por, no odor, ns.

LS: lt brn/lt gryish brn, micro-med xtal, min foss frags w/abund ool, fn-med oo-castic por, no odor, ns.

CFS @ 4020'
30"60"

LS: wht/crm/lt brn, micro-fn xtal, min foss frags, some silty, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags/abund ool, fn-crs oo-castic por, no odor, ns.

LS: crm/lt gryish brn/lt gry, micro-med xtal, foss frags/abund ool pcs, some chalky, fn-med oo-castic por, no odor, ns.

SH: med-dk gry/blk/greenish gry, silty, pyritic, carb, firm, fissile.

LS: crm/lt-med brn/lt gry, micro-med xtal, foss frags/ool, some chalky, fn-med oo-castic por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal, some chalky, foss frags/fusln/ool, fn-med oo-castic por, no odor, ns.

CFS @ 4080'
30"60"

LS: crm/lt brn, micro-med xtal, foss frags/ool, grainy, silty, chalky, some ppt-fn in-xtal por, no odor, ns.

SH: med-dk gry/blk, silty, stly carb, firm, fissile.

LS: crm/lt-med brn, micro-med xtal, foss frags/ool, some vry silty, some chalky, ppt-med in-xtal/oo-castic por, no odor, ns.

LS: crm/lt brn/lt gryish brn, micro-med xtal, foss frags w/some ool, some silty, some chalky, min ppt-fn in-xtal por w/fn-med oo-castic por, no odor, ns.

CFS @ 4111'
30"60"

LS: crm/lt-med brn, micro-med xtal, foss frags, some silty, some wht chert, min frac por, no odor, ns.

SH: med-dk gry/brn/maroon brn, vry silty, carb, soft-firm, fissile.

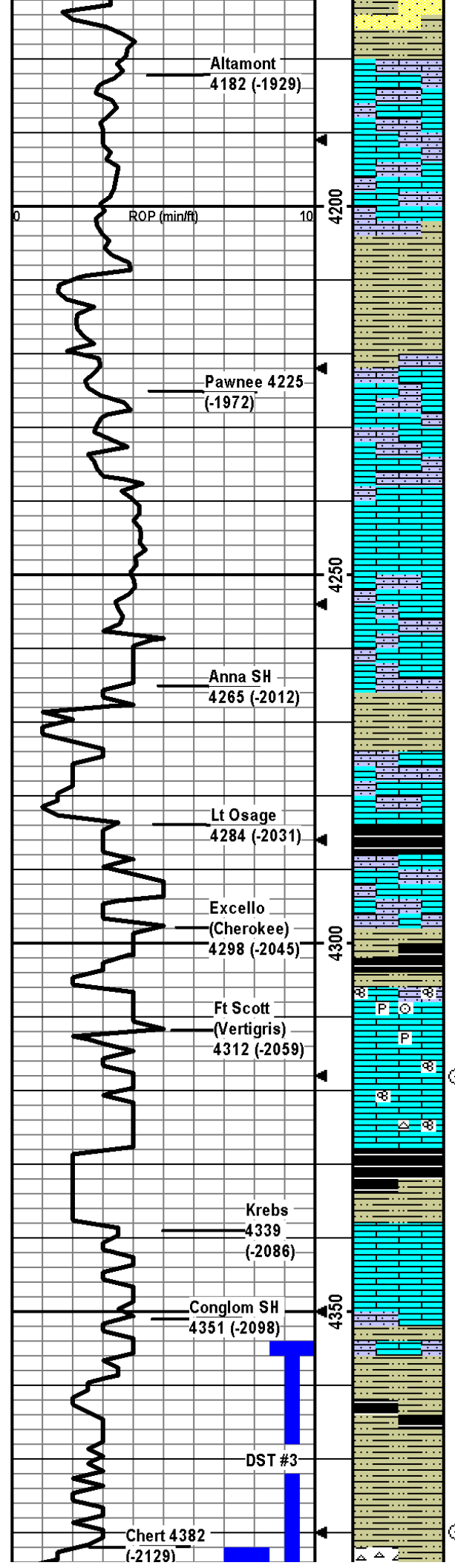
LS: crm/lt-med brn, micro-med xtal, foss frags, grainy, some silty, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags, some silty, min frac por, no odor, ns.

LS: crm/lt brn/lt gryish brn, micro-med xtal, foss frags/dense ool, some vry silty, some chalky, some frac por, no odor, ns.

SH: lt-dk gry/green gry/brn, some vry silty, slt carb, soft-firm, fissile; some SS: brn/gry, vf-f, sa-sr, pred qtz; no odor, ns.

LS: crm/lt gryish brn, micro-med xtal, foss frags, some silty, min frac por, no odor, ns.



SH: med-dk gry/green gry/brn, stly carb, silty, firm, soft-firm, fissile; some SS: gry, vf-f, sr-wr, pred qtz, friable; no odor, ns.

LS: crm/lt-med brn/lt gry, micro-fn xtal, foss frags, some silty, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-fn xtal, silty, some chalky, min ppt in-xtal/frac por, no odor, ns.

SH: med-dk gry/green gry/red brn/maroon, stly carb, silty, firm, fissile.

SH: same as above.

LS: crm/lt-med brn/lt gry, micro-med xtal, min foss frags, some silty, min frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, some silty, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal w/2ndry xtals, min foss frags, some frac por, no odor, ns.

LS: crm/lt gry, micro-fn w/some 2ndry xtal, min foss frags, some silty, min ppt in-xtal por, no odor, ns.

SH: med-dk gry/gryish brn/red brn, silty, slt carb, soft-firm, fissile.

LS: crm/lt brn-dk brn, micro-med xtal w/some 2ndry xtal, some foss frags, some silty, min ppt in-xtal/frac por, no odor, ns.

SH: dk gry/blk, slt silty, stly carb, firm, fissile.

LS: crm/lt brn-dk brn, micro-med xtal, some foss frags, some silty, min ppt in-xtal/frac por, no odor, ns.

SH: med-dk gry/green gry/red brn/blk, silty, some slt carb, firm, fissile.

LS: crm/lt brn/lt-med gry, micro-med xtal, foss frags/fusln/crin, stly pyritic, some chalky, some silty, min frac por, no odor, ns.

LS: crm/lt brn/lt-med gry, micro-fn xtal, some foss frags/fusln, some lt brn chert, some chalky, min frac por, no odor, ns.

SH: med-dk gry/green gry/blk, some silty, carb, firm, fissile.

LS: crm/lt brn, micro-fn w/med 2ndry xtals, some foss frags, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, some foss frags, some silty, some chalky, min frac por, no odor, ns.

SH: med-dk gry/green gry/maroon, some silty, some carb, firm, fissile, no odor, ns.

SH: same as above, no odor, ns.

Mudco Check #7 @ 4213'
05/11/14 01:50pm
wt vis pH chl
9.3 70 10.0 3500
Filt LCM
11.6 0

**DST1: 4382-4390
Mississippian
(Failed Test,
Plugged Tool)**

30/45/45/60
1st) 3" blow built to 3 1/4"
then reduced to 3", no BB.
2nd) No blow, no BB.
IFP 135# (tool plugged)
ISIP n/a
FFP n/a
FSIP n/a
IHP 2211#
Recvd: 65' OS mud.

NOTE: After DST #1, shut
down due to high winds from
approx 5pm to 9pm Monday
05/12/14.

**DST2: 4382-4390
Mississippian
(Failed Test,
Packer Failure)**

NOTE: Prior to TIH for DST
#3, sample box continued to
be full after 1.5 hrs of cir.
Slowed pump from 60 to 45
strokes/min and cutting vol in
box decreased significantly.
Continued this process at all
circulation points.

CFS @ 4318'
30"60"

**DST3: 4355-4390
Mississippian**

30/45/30/90
1st) BOB in 5 min, 1/2" BB.
2nd) BOB in 5 min, BOB in 23
min BB.
IFP 80-328#
ISIP 1082#
FFP 307-490#
FSIP 1088#
HP 2256-2103#
Recvd: 420' GIP, 95'
GSOWCM (15%G, 20%O),
180' GVSOWCM (20%G,
10%O), 420' GVSOMCW
(20%G, 10%O), 360' Water.

CFS @ 4380'
30"60"

DST #1 & #2

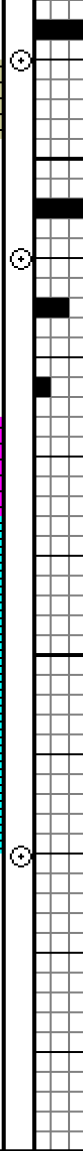
ROP (min/ft)

DST #4

MISS 4427 (-2174)

RTD 4470', -2217
LTD 4470', -2217

4400
4450
00



Chert: wht/lt yel/lt brn, opa, some ppt-fn in-xtal/frac por, oil staining and free oil, yel flor, gd cup odor, vgsfo.

SH: crm/gry/green gry/maroon/mustard yel, some vry silty, some LS nod, some chert, some carb, firm, fissile, slt odor, nsfo.

Chert: wht/crm/lt yel/lt brn, micro-fn xtal, staining, 28 pcs in 30 min and 16 pcs in 60 min smpls w/ppt-med in-xtal por w/sfo, brn oil and blk tar oil, yel flor/cut, gd cup odor, vgsfo.

Chert: same as above w/11 pcs w/fo, thick dk brn/blk, dul yel flor/yel cut, slt cup odor, gsfo.

Chert: same as above w/4 pcs w/fo.

DOLO: wht/crm, micro-fn xtal, some glau, suger tex, mostly dense w/some friable, ppt in-xtal por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal, min foss frags w/some dense ool, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal, foss frags, frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, min foss frags w/some dense ool pcs, frac por, no odor, ns.

TD @ 4470'.

CFS @ 4390'
30"60"

Mudco Check #8 @ 4390'
05/12/14 12:50pm
wt vis pH chl
9.4 55 10.0 3500
Filt LCM
11.2 0

CFS @ 4410'
30"60"

Mudco Check #9 @ 4390'
05/13/14 01:05pm
wt vis pH chl
9.4 75 9.0 4600
Filt LCM
11.6 0

DST4: 4398-4410
Mississippian
30/45/30/90
1st) BOB in 10 min, very weak surface BB.
2nd) BOB in 19 min, very weak surface BB.
IFP 23-118#
ISIP 1129#
FFP 122-173#
FSIP 1127#
HP 2206-2130#
Recvd: 120' GIP, 1' Oil, 44' VSGOWCM (10%G, 2%O), 305' VSGMCW (5%G).

Mudco Check #10 @ 4410'
05/14/14 01:05pm
wt vis pH chl
9.1 58 9.0 6600
Filt LCM
12.4 0

CFS @ 4470' 30"60";
Cir 1.5 hrs to clean hole.