



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1173362
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: _____



1173362

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
--	---

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	Stelbar Oil Corporation, Inc.
Well Name	Russell 1-18
Doc ID	1173362

All Electric Logs Run

Compensated Sonic w/Integrated Transit Time Log
Compact Photo Density Compensated Neutron Microresistivity Log
Array Induction Shallow Focused Electric Log
Microresistivity Log
Caliper Log

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Russell 1-18
Doc ID	1173362

Tops

Name	Top	Datum
B/Anhydrite	2363'	+583'
Heebner Sh	3910'	-974'
Lansing	3948'	-1012'
Muncie Creek Sh	4125'	-1189'
Stark Sh	4213'	-1277'
Pawnee	4427'	-1491'
Cherokee Sh	4475'	-1539'
Johnson Zone	4537'	-1601'
Morrow Sh	4570'	-1634'
Mississippian	4610'	-1674'
RTD	4700'	1764'



DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corp**

1625 N Waterfront PKWY
Wichita, KS 67206-6602

ATTN: Dave Goldak

Russell #1-18

18-16s-31w Scott,KS

Start Date: 2013.12.04 @ 22:11:01

End Date: 2013.12.05 @ 08:10:01

Job Ticket #: 54667 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.11 @ 16:25:47



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stelbar Oil Corp
 1625 N Waterfront PKWY
 Wichita, KS 67206-6602
 ATTN: Dave Goldak

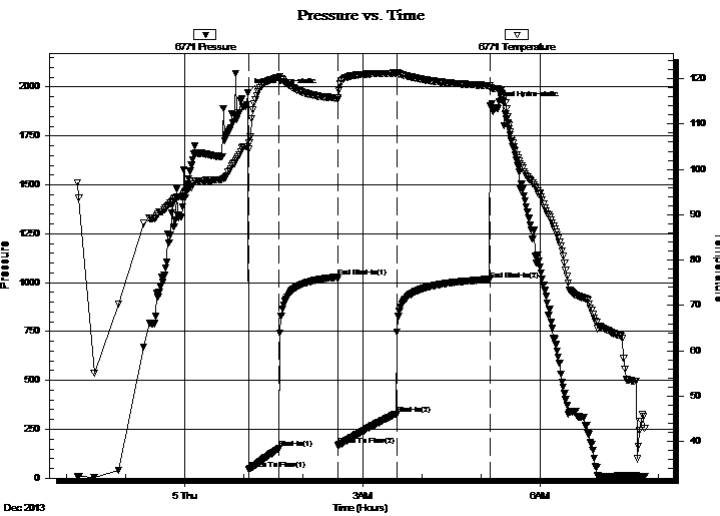
18-16s-31w Scott, KS
Russell #1-18
 Job Ticket: 54667 **DST#: 1**
 Test Start: 2013.12.04 @ 22:11:01

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:04:31
 Time Test Ended: 08:10:01
 Interval: **3970.00 ft (KB) To 3996.00 ft (KB) (TVD)**
 Total Depth: 3996.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2936.00 ft (KB)
 2929.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6771 Inside
 Press@RunDepth: 328.26 psig @ 3971.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.04 End Date: 2013.12.05 Last Calib.: 2013.12.05
 Start Time: 22:11:01 End Time: 07:47:01 Time On Btm: 2013.12.05 @ 01:04:01
 Time Off Btm: 2013.12.05 @ 05:10:01

TEST COMMENT: B.O.B. in 18 min.
 No return
 B.O.B. in 23 min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.44	104.98	Initial Hydro-static
1	46.53	104.44	Open To Flow (1)
32	151.66	120.29	Shut-In(1)
91	1028.69	115.69	End Shut-In(1)
92	168.43	115.32	Open To Flow (2)
151	328.26	121.22	Shut-In(2)
245	1016.02	118.44	End Shut-In(2)
246	1906.40	118.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	water 100%w	5.89
120.00	s m c w 10%m 90%w	1.68
120.00	m c w w/oil spots on top 30%m 70%w	1.68
0.00	show of free oil in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stelbar Oil Corp
1625 N Waterfront PKWY
Wichita, KS 67206-6602
ATTN: Dave Goldak

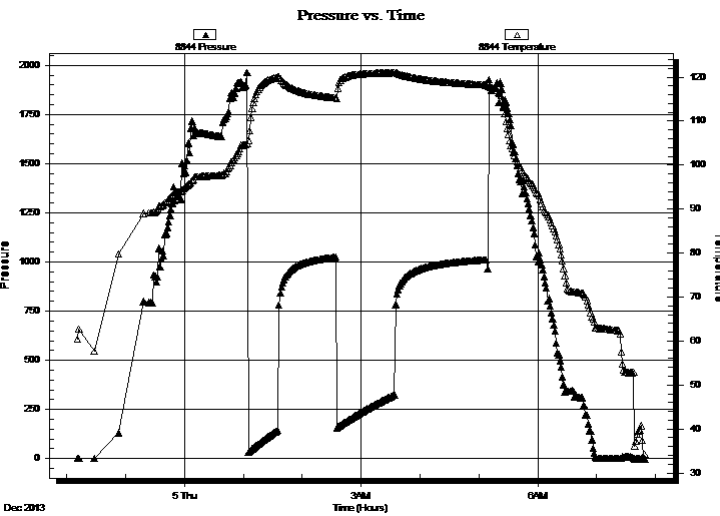
18-16s-31w Scott,KS
Russell #1-18
Job Ticket: 54667 **DST#: 1**
Test Start: 2013.12.04 @ 22:11:01

GENERAL INFORMATION:

Formation: **KC**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 01:04:31 Tester: Shane McBride
Time Test Ended: 08:10:01 Unit No: 55
Interval: 3970.00 ft (KB) To 3996.00 ft (KB) (TVD) Reference Elevations: 2936.00 ft (KB)
Total Depth: 3996.00 ft (KB) (TVD) 2929.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8844 Outside
Press@RunDepth: psig @ 3971.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.04 End Date: 2013.12.05 Last Calib.: 2013.12.05
Start Time: 22:11:09 End Time: 07:49:39 Time On Btm:
Time Off Btm:

TEST COMMENT: B.O.B. in 18 min.
No return
B.O.B. in 23 min.
No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
420.00	water 100%w	5.89
120.00	s m c w 10%m 90%w	1.68
120.00	m c w w/oil spots on top 30%m 70%w	1.68
0.00	show of free oil in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54667

DST#: 1

ATTN: Dave Goldak

Test Start: 2013.12.04 @ 22:11:01

Tool Information

Drill Pipe:	Length: 3964.00 ft	Diameter: 3.80 inches	Volume: 55.60 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3970.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3941.00	
Shut In Tool	5.00			3946.00	
Sampler	2.00			3948.00	
Hydraulic tool	5.00			3953.00	
Jars	5.00			3958.00	
Safety Joint	3.00			3961.00	
Packer	5.00			3966.00	30.00 Bottom Of Top Packer
Packer	4.00			3970.00	
Stubb	1.00			3971.00	
Recorder	0.00	6771	Inside	3971.00	
Recorder	0.00	8844	Outside	3971.00	
Perforations	20.00			3991.00	
Bullnose	5.00			3996.00	26.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54667

DST#: 1

ATTN: Dave Goldak

Test Start: 2013.12.04 @ 22:11:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31500 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.53 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
420.00	w ater 100%w	5.891
120.00	s m c w 10%m 90%w	1.683
120.00	m c w w /oil spots on top 30%m 70%w	1.683
0.00	show of free oil in tool	0.000

Total Length: 660.00 ft Total Volume: 9.257 bbl

Num Fluid Samples: 0

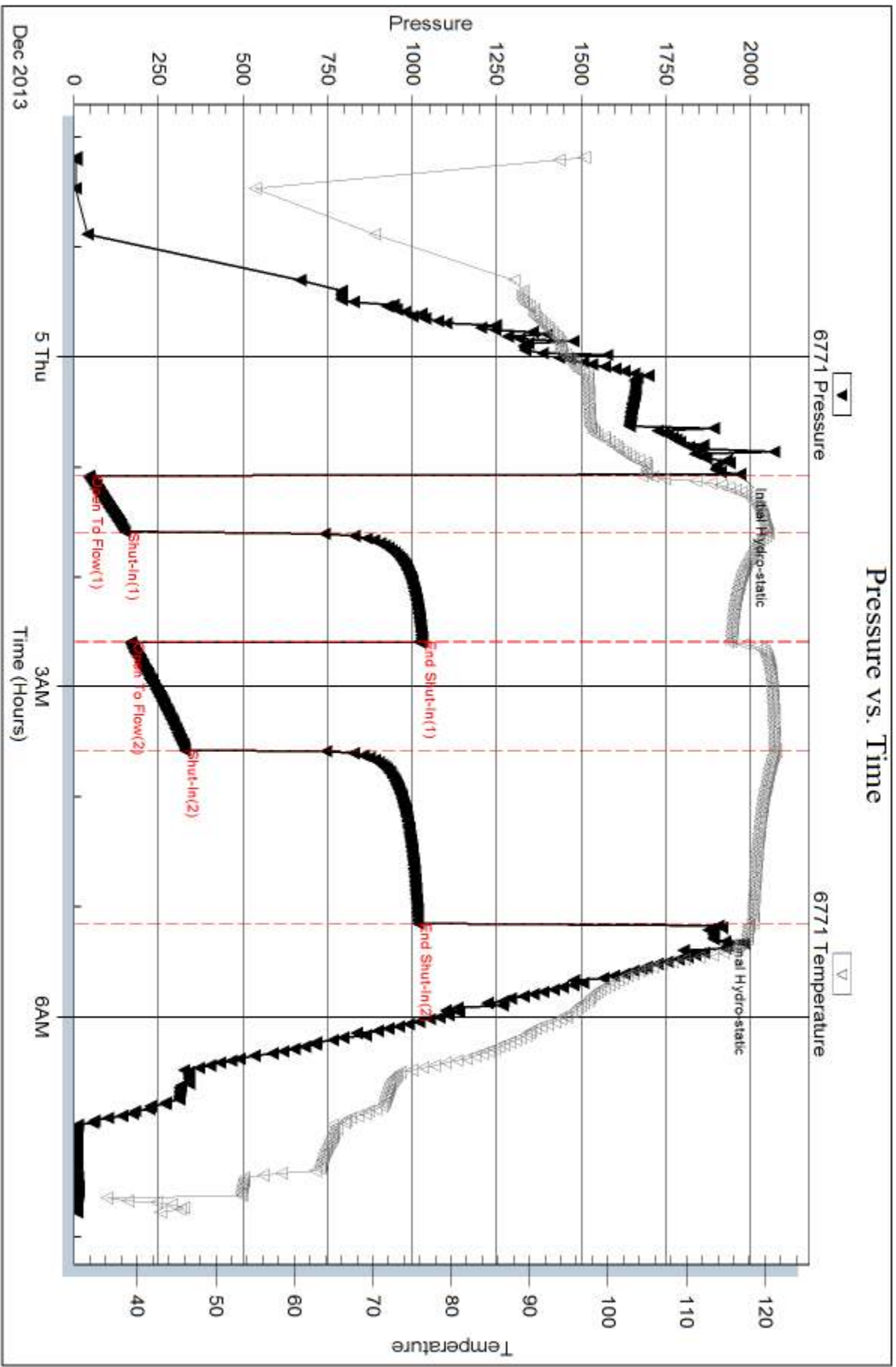
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 1900 ml w ater 100ml oil 260 psi
rw .215 @ 73*f = 31,500 chlor

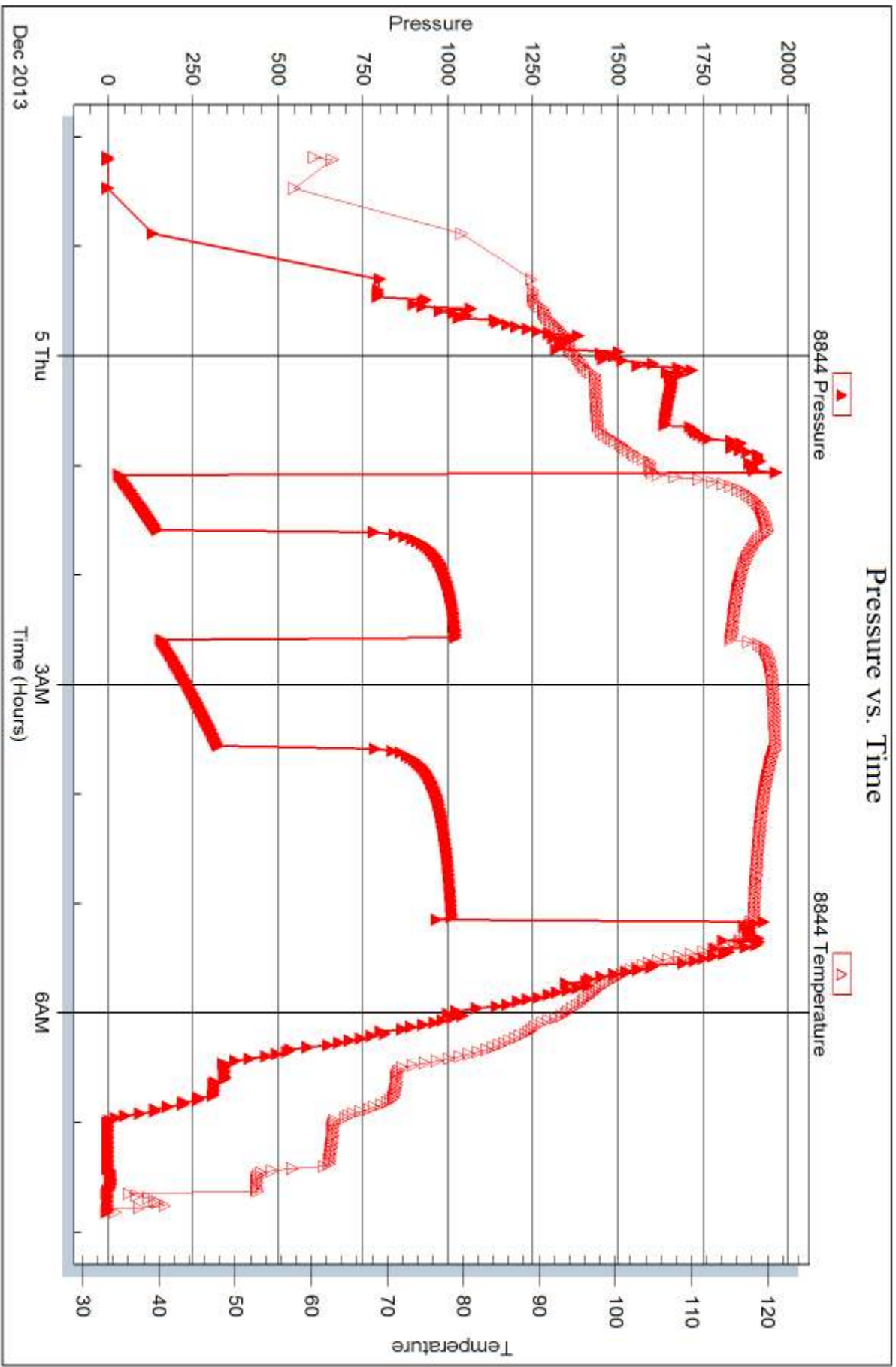


Serial #: 8844

Outside Stellar Oil Corp

Russell #1-18

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corp**

1625 N Waterfront PKWY
Wichita, KS 67206-6602

ATTN: Dave Goldak

Russell #1-18

18-16s-31w Scott,KS

Start Date: 2013.12.05 @ 18:45:47

End Date: 2013.12.06 @ 03:10:02

Job Ticket #: 54668 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.11 @ 16:25:15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stelbar Oil Corp
1625 N Waterfront PKWY
Wichita, KS 67206-6602
ATTN: Dave Goldak

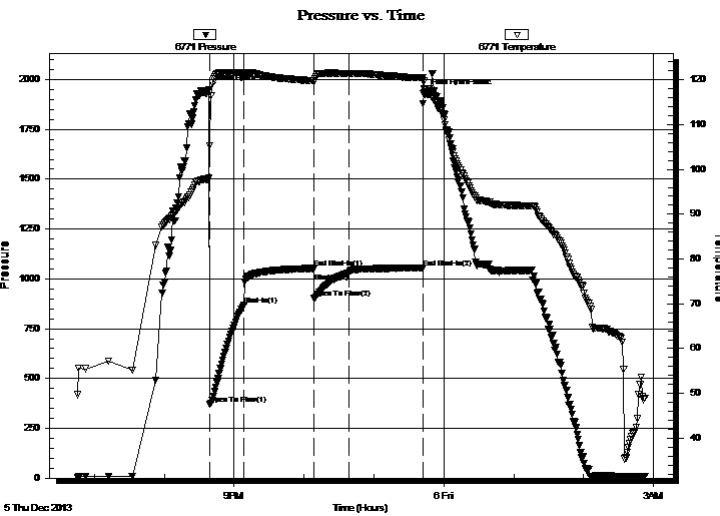
18-16s-31w Scott,KS
Russell #1-18
Job Ticket: 54668 **DST#: 2**
Test Start: 2013.12.05 @ 18:45:47

GENERAL INFORMATION:

Formation: **C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:39:17
Time Test Ended: 03:10:02
Interval: **3996.00 ft (KB) To 4018.00 ft (KB) (TVD)**
Total Depth: 4018.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2936.00 ft (KB)
2929.00 ft (CF)
KB to GR/CF: 7.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

Serial #: 6771 Inside
Press@RunDepth: 1029.99 psig @ 3997.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.05 End Date: 2013.12.06 Last Calib.: 2013.12.06
Start Time: 18:45:47 End Time: 02:53:02 Time On Btm: 2013.12.05 @ 20:38:32
Time Off Btm: 2013.12.05 @ 23:42:32

TEST COMMENT: B.O.B. in 1 min.
No return
B.O.B. in 2 1/2 min.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.82	98.06	Initial Hydro-static
1	369.43	105.25	Open To Flow (1)
30	868.87	121.62	Shut-In(1)
90	1052.97	119.77	End Shut-In(1)
91	904.19	119.76	Open To Flow (2)
121	1029.99	121.45	Shut-In(2)
184	1055.52	120.47	End Shut-In(2)
184	1927.66	119.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	s m c w 15m 85w	1.68
120.00	w ater 100w	1.68
1750.00	w ater (reversed out)	24.55
120.00	under circ sub w ater 100w	1.68

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54668

DST#: 2

ATTN: Dave Goldak

Test Start: 2013.12.05 @ 18:45:47

Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.80 inches	Volume: 56.07 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3996.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3967.00	
Shut In Tool	5.00			3972.00	
Sampler	2.00			3974.00	
Hydraulic tool	5.00			3979.00	
Jars	5.00			3984.00	
Safety Joint	3.00			3987.00	
Packer	5.00			3992.00	30.00 Bottom Of Top Packer
Packer	4.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	6771	Inside	3997.00	
Recorder	0.00	8844	Outside	3997.00	
Perforations	16.00			4013.00	
Bullnose	5.00			4018.00	22.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54668

DST#: 2

ATTN: Dave Goldak

Test Start: 2013.12.05 @ 18:45:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25500 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.32 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	s m c w 15m 85w	1.683
120.00	w ater 100w	1.683
1750.00	w ater (reversed out)	24.548
120.00	under circ sub w ater 100w	1.683

Total Length: 2110.00 ft Total Volume: 29.597 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 2000 ml w ater

rw .271 @ 71*f = 25,500chlor

Serial #: 6771

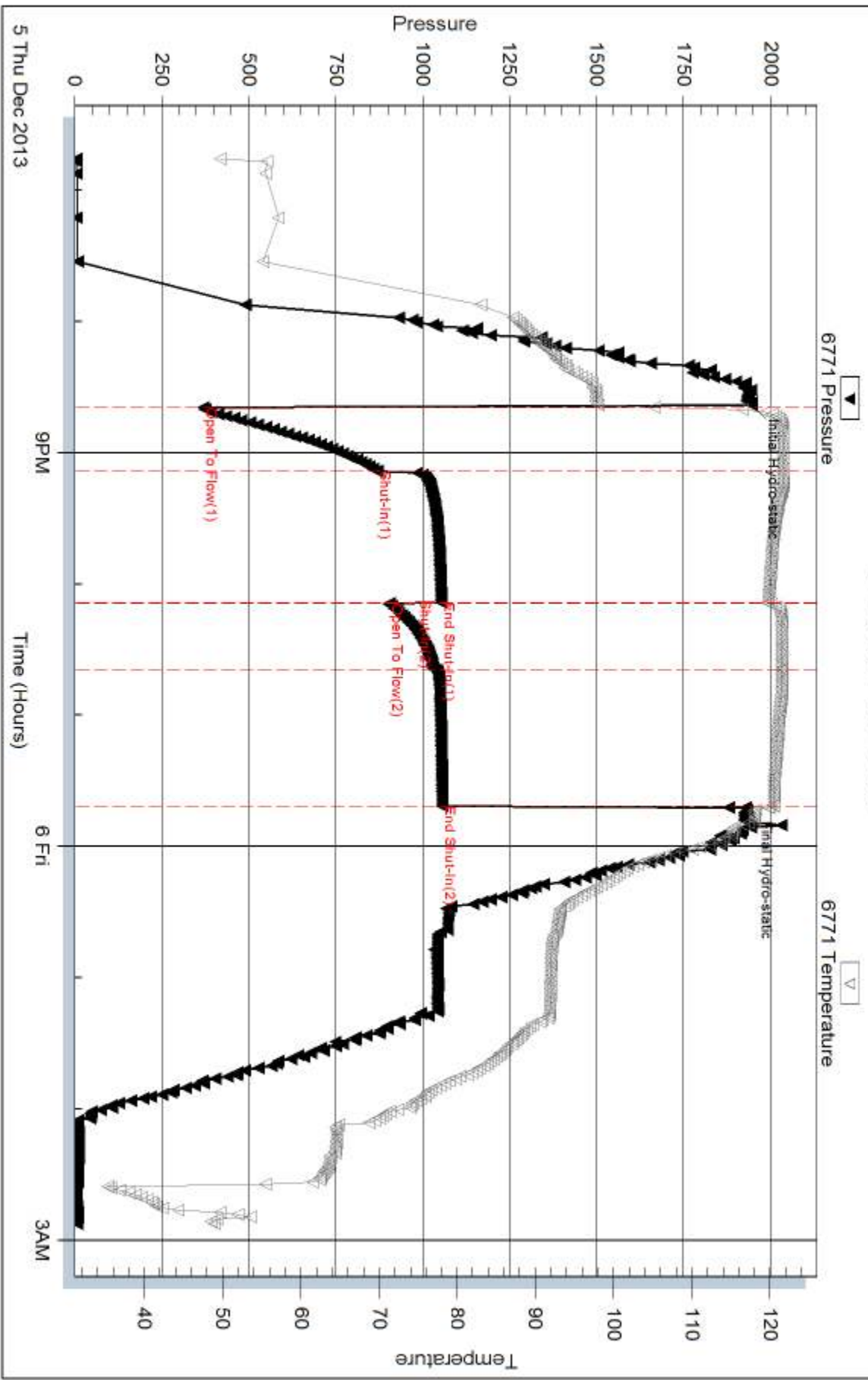
Inside

Stelbar Oil Corp

Russell #1-18

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 54668

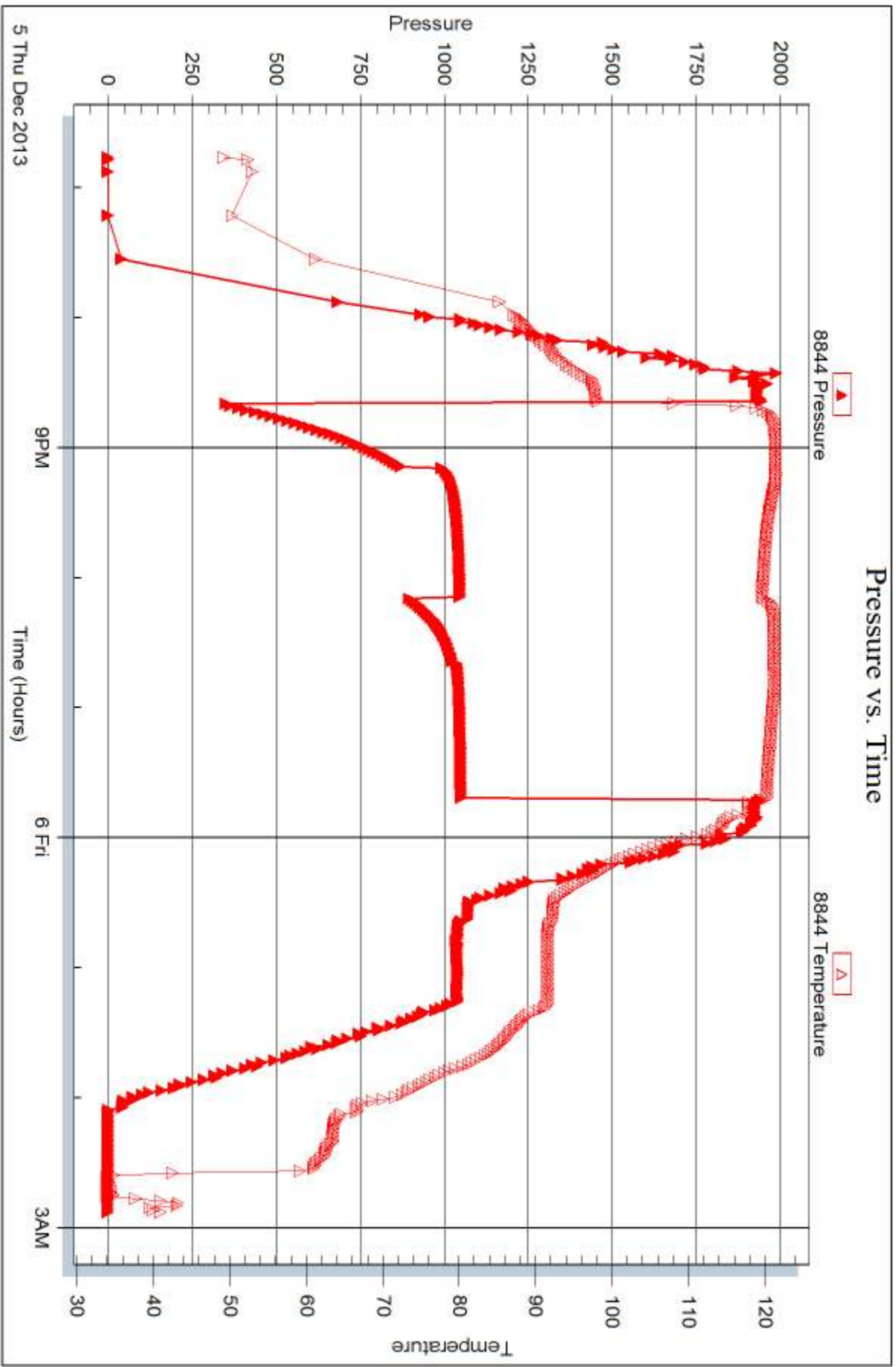
Printed: 2013.12.11 @ 16:25:17

Serial #: 8844

Outside Stellar Oil Corp

Russel #1-18

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corp**

1625 N Waterfront PKWY
Wichita, KS 67206-6602

ATTN: Dave Goldak

Russell #1-18

18-16s-31w Scott,KS

Start Date: 2013.12.06 @ 19:10:34

End Date: 2013.12.07 @ 01:40:19

Job Ticket #: 54669 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.11 @ 16:24:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stelbar Oil Corp
 1625 N Waterfront PKWY
 Wichita, KS 67206-6602
 ATTN: Dave Goldak

18-16s-31w Scott,KS
Russell #1-18
 Job Ticket: 54669 **DST#: 3**
 Test Start: 2013.12.06 @ 19:10:34

GENERAL INFORMATION:

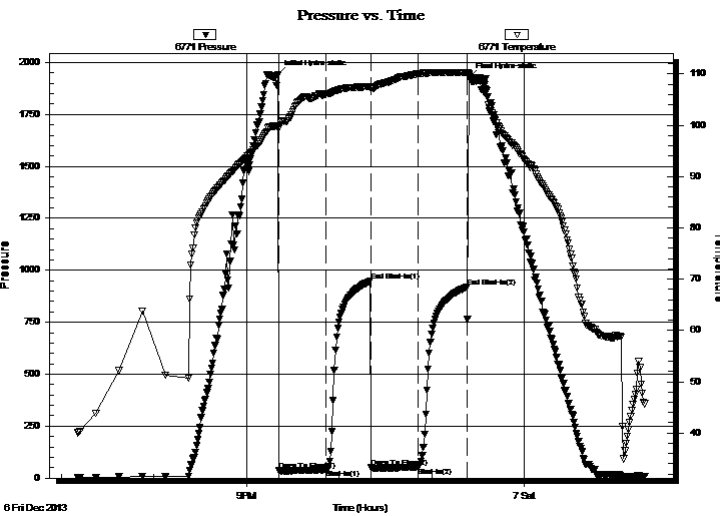
Formation: **D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:20:49
 Time Test Ended: 01:40:19
 Interval: **4028.00 ft (KB) To 4046.00 ft (KB) (TVD)**
 Total Depth: 4046.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2936.00 ft (KB)
 2929.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6771

Inside

Press@RunDepth: 53.92 psig @ 4029.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.06 End Date: 2013.12.07 Last Calib.: 2013.12.07
 Start Time: 19:10:34 End Time: 01:18:19 Time On Btm: 2013.12.06 @ 21:20:19
 Time Off Btm: 2013.12.06 @ 23:24:04

TEST COMMENT: 1 1/4 " blow
 No return
 1" blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.61	99.89	Initial Hydro-static
1	39.23	99.39	Open To Flow (1)
31	41.84	106.05	Shut-In(1)
60	948.51	107.51	End Shut-In(1)
61	51.55	107.15	Open To Flow (2)
91	53.92	110.00	Shut-In(2)
123	920.33	110.28	End Shut-In(2)
124	1926.66	109.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	free oil 100%o	0.21
45.00	o c w m 10%o 30%w 60%m	0.63

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Stelbar Oil Corp

18-16s-31w Scott, KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54669

DST#: 3

ATTN: Dave Goldak

Test Start: 2013.12.06 @ 19:10:34

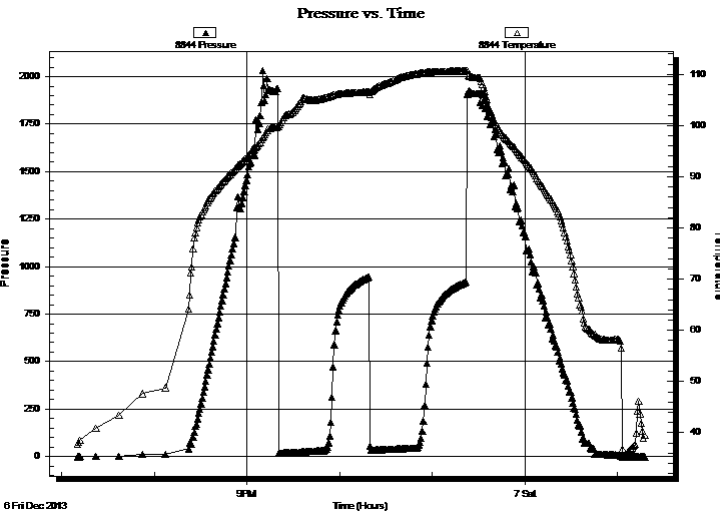
GENERAL INFORMATION:

Formation: **D**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:20:49 Tester: Shane McBride
 Time Test Ended: 01:40:19 Unit No: 55
Interval: 4028.00 ft (KB) To 4046.00 ft (KB) (TVD) Reference Elevations: 2936.00 ft (KB)
 Total Depth: 4046.00 ft (KB) (TVD) 2929.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8844 Outside

Press@RunDepth: psig @ 4029.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.06 End Date: 2013.12.07 Last Calib.: 2013.12.07
 Start Time: 19:10:20 End Time: 01:17:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1 1/4 " blow
 No return
 1" blow
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	free oil 100%o	0.21
45.00	o c w m 10%o 30%w 60%m	0.63

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54669

DST#: 3

ATTN: Dave Goldak

Test Start: 2013.12.06 @ 19:10:34

Tool Information

Drill Pipe:	Length: 4028.00 ft	Diameter: 3.80 inches	Volume: 56.50 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4028.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3999.00	
Shut In Tool	5.00			4004.00	
Sampler	2.00			4006.00	
Hydraulic tool	5.00			4011.00	
Jars	5.00			4016.00	
Safety Joint	3.00			4019.00	
Packer	5.00			4024.00	30.00 Bottom Of Top Packer
Packer	4.00			4028.00	
Stubb	1.00			4029.00	
Recorder	0.00	6771	Inside	4029.00	
Recorder	0.00	8844	Outside	4029.00	
Perforations	12.00			4041.00	
Bullnose	5.00			4046.00	18.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54669

DST#: 3

ATTN: Dave Goldak

Test Start: 2013.12.06 @ 19:10:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.34 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	free oil 100%o	0.210
45.00	o c w m 10%o 30%w 60%m	0.631

Total Length: 60.00 ft Total Volume: 0.841 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 400ml mud 700ml oil 900ml water 80psi
rw .289@ 60*f= 28,000 chlor

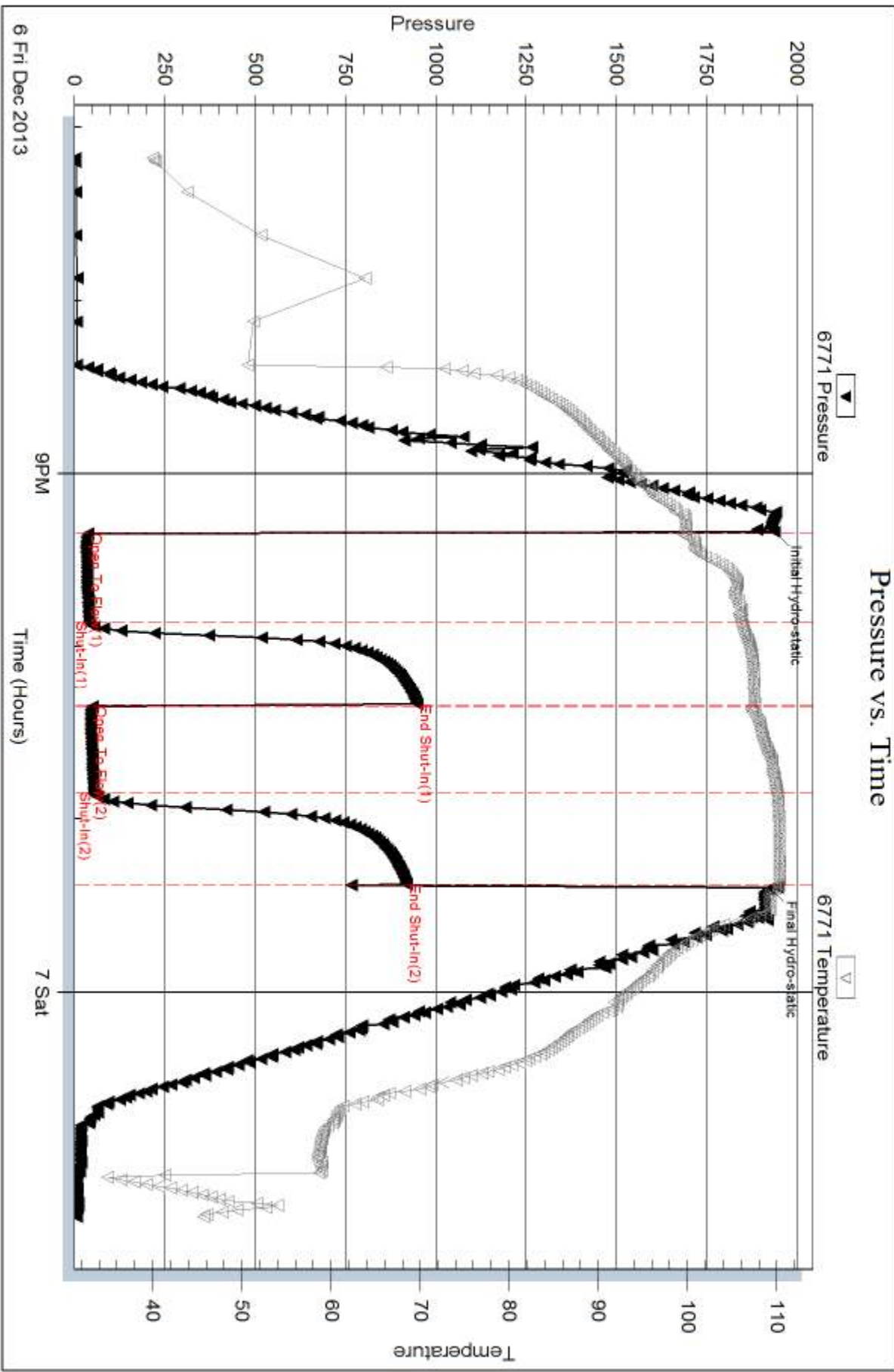
Serial #: 6771

Inside

Stelbar Oil Corp

Russell #1-18

DST Test Number: 3

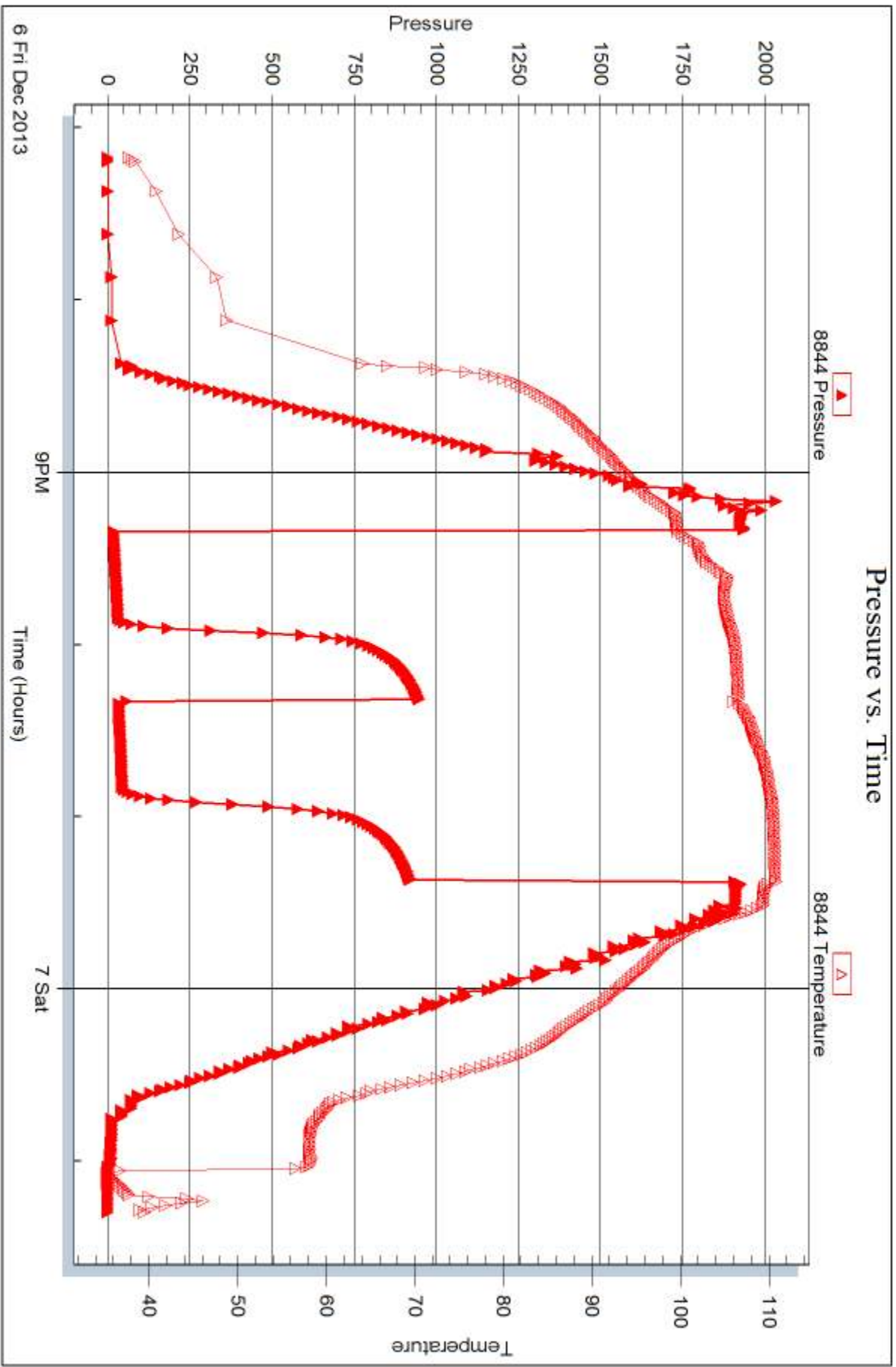


Serial #: 8844

Outside Stellar Oil Corp

Russel #1-18

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54669

Printed: 2013.12.11 @ 16:24:43



DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corp**

1625 N Waterfront PKWY
Wichita, KS 67206-6602

ATTN: Dave Goldak

Russell #1-18

18-16s-31w Scott,KS

Start Date: 2013.12.07 @ 15:40:28

End Date: 2013.12.08 @ 00:40:28

Job Ticket #: 54670 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.11 @ 16:24:08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stelbar Oil Corp
 1625 N Waterfront PKWY
 Wichita, KS 67206-6602
 ATTN: Dave Goldak

18-16s-31w Scott,KS
Russell #1-18
 Job Ticket: 54670 **DST#: 4**
 Test Start: 2013.12.07 @ 15:40:28

GENERAL INFORMATION:

Formation: **G-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:06:13
 Time Test Ended: 00:40:28
 Interval: **4122.00 ft (KB) To 4192.00 ft (KB) (TVD)**
 Total Depth: 4192.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2936.00 ft (KB)
 2929.00 ft (CF)
 KB to GR/CF: 7.00 ft

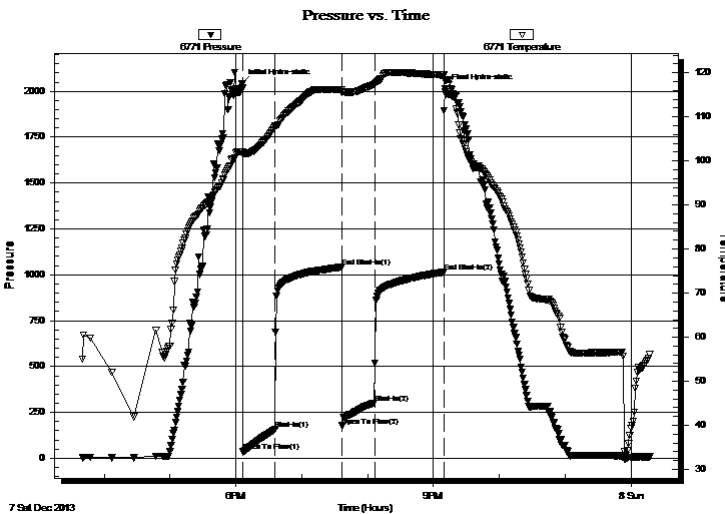
Serial #: 6771

Inside

Press@RunDepth: 302.39 psig @ 4123.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.07 End Date: 2013.12.08 Last Calib.: 2013.12.08
 Start Time: 15:40:28 End Time: 00:17:28 Time On Btm: 2013.12.07 @ 18:05:43
 Time Off Btm: 2013.12.07 @ 21:10:28

TEST COMMENT: B.O.B. in 22 min.
 No return
 B.O.B. in 30 min.
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.84	102.14	Initial Hydro-static
1	36.61	101.56	Open To Flow (1)
30	157.16	107.71	Shut-In(1)
91	1042.55	116.15	End Shut-In(1)
92	176.58	115.52	Open To Flow (2)
121	302.39	117.41	Shut-In(2)
184	1014.73	119.44	End Shut-In(2)
185	2014.47	118.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	w c m w/oil spots	1.12
120.00	m c w 20m 80w	1.68
300.00	water 100%w	4.21
0.00	show of free oil in tool	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54670

DST#: 4

ATTN: Dave Goldak

Test Start: 2013.12.07 @ 15:40:28

Tool Information

Drill Pipe:	Length: 4123.00 ft	Diameter: 3.80 inches	Volume: 57.83 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4122.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4093.00	
Shut In Tool	5.00			4098.00	
Sampler	2.00			4100.00	
Hydraulic tool	5.00			4105.00	
Jars	5.00			4110.00	
Safety Joint	3.00			4113.00	
Packer	5.00			4118.00	30.00 Bottom Of Top Packer
Packer	4.00			4122.00	
Stubb	1.00			4123.00	
Recorder	0.00	6771	Inside	4123.00	
Recorder	0.00	8844	Outside	4123.00	
Perforations	30.00			4153.00	
Change Over Sub	1.00			4154.00	
Drill Pipe	32.00			4186.00	
Change Over Sub	1.00			4187.00	
Bullnose	5.00			4192.00	70.00 Bottom Packers & Anchor
Total Tool Length:	100.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54670

DST#: 4

ATTN: Dave Goldak

Test Start: 2013.12.07 @ 15:40:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39800 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
80.00	w c m w /oil spots	1.122
120.00	m c w 20m 80w	1.683
300.00	w ater 100%w	4.208
0.00	show of free oil in tool	0.000

Total Length: 500.00 ft Total Volume: 7.013 bbl

Num Fluid Samples: 0

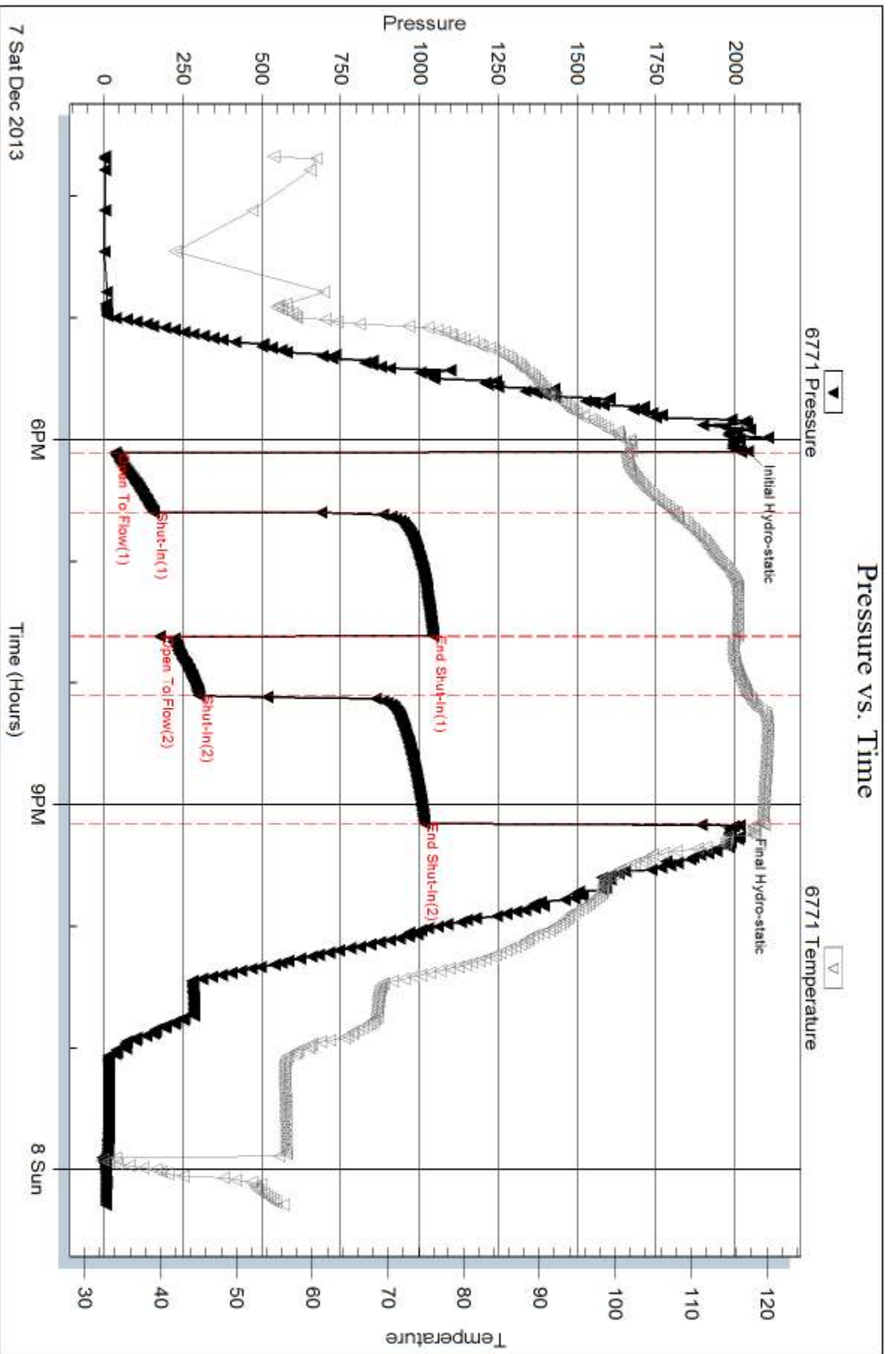
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 2000ml w ater 130 psi
rw .184 @ 67*f= 39,800 chlor

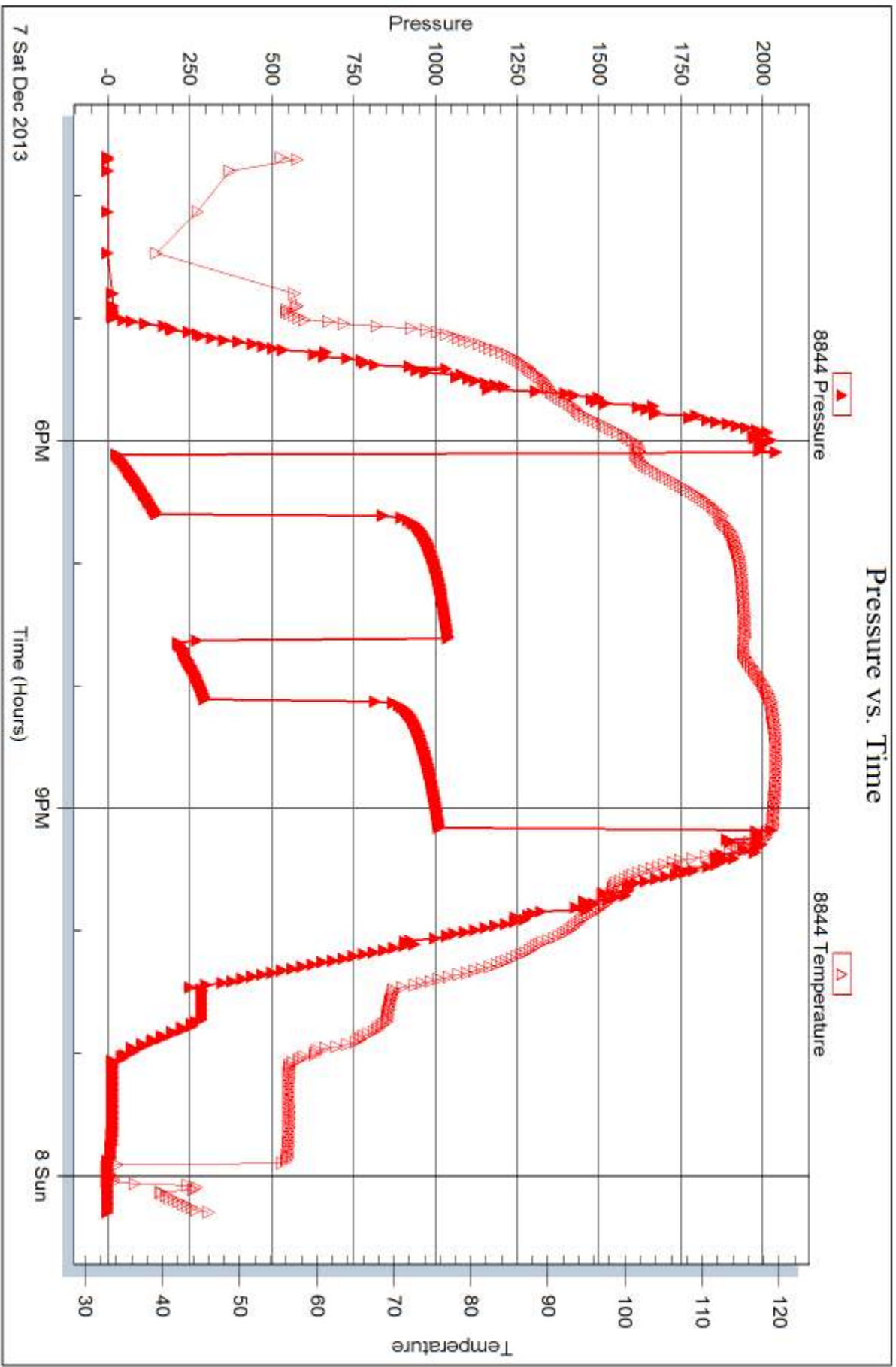


Serial #: 8844

Outside Stellar Oil Corp

Russel #1-18

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 54670

Printed: 2013.12.11 @ 16:24:11



DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corp**

1625 N Waterfront PKWY
Wichita, KS 67206-6602

ATTN: Dave Goldak

Russell #1-18

18-16s-31w Scott,KS

Start Date: 2013.12.09 @ 17:40:51

End Date: 2013.12.10 @ 03:45:21

Job Ticket #: 54671 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.11 @ 16:23:30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stelbar Oil Corp
1625 N Waterfront PKWY
Wichita, KS 67206-6602
ATTN: Dave Goldak

18-16s-31w Scott,KS
Russell #1-18
Job Ticket: 54671 **DST#: 5**
Test Start: 2013.12.09 @ 17:40:51

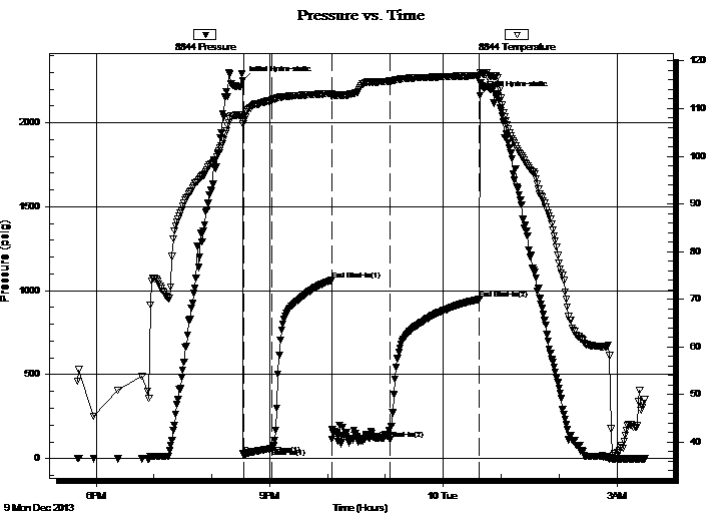
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:32:36
Time Test Ended: 03:45:21
Interval: **4518.00 ft (KB) To 4568.00 ft (KB) (TVD)**
Total Depth: 4621.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2936.00 ft (KB)
2929.00 ft (CF)
KB to GR/CF: 7.00 ft
Test Type: Conventional Straddle (Reset)
Tester: Shane McBride
Unit No: 55

Serial #: 8844 Outside

Press@RunDepth: 113.02 psig @ 4519.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.12.09 End Date: 2013.12.10 Last Calib.: 2013.12.10
Start Time: 17:40:51 End Time: 03:29:21 Time On Btm: 2013.12.09 @ 20:32:06
Time Off Btm: 2013.12.10 @ 00:38:06

TEST COMMENT: B.O.B. in 30 min.
1 1/2" return blow
B.O.B. in 28 min.
Surface return, died in 32 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.93	108.29	Initial Hydro-static
1	23.91	107.52	Open To Flow (1)
31	61.45	111.82	Shut-In(1)
92	1062.89	113.18	End Shut-In(1)
93	115.45	112.57	Open To Flow (2)
153	113.02	115.73	Shut-In(2)
246	949.35	116.94	End Shut-In(2)
246	2162.92	117.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	g o c m 15g 40o 45m	1.54
120.00	g m c o 20g 35m 45o	1.68
0.00	250' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54671

DST#: 5

ATTN: Dave Goldak

Test Start: 2013.12.09 @ 17:40:51

Tool Information

Drill Pipe:	Length: 4496.00 ft	Diameter: 3.80 inches	Volume: 63.07 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4518.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	4621.00 ft			
Interval between Packers:	103.00 ft			
Tool Length:	133.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4489.00	
Shut In Tool	5.00			4494.00	
Sampler	2.00			4496.00	
Hydraulic tool	5.00			4501.00	
Jars	5.00			4506.00	
Safety Joint	3.00			4509.00	
Packer	5.00			4514.00	30.00 Bottom Of Top Packer
Packer	4.00			4518.00	
Stubb	1.00			4519.00	
Recorder	0.00	6771	Inside	4519.00	
Recorder	0.00	8844	Outside	4519.00	
Perforations	7.00			4526.00	
Change Over Sub	1.00			4527.00	
Drill Pipe	31.00			4558.00	
Change Over Sub	1.00			4559.00	
Perforations	5.00			4564.00	
Blank Off Sub	1.00			4565.00	
top of s packer	3.00			4568.00	
Packer - Shale	0.00			4568.00	
Stubb	1.00			4569.00	
Anchor	14.00			4583.00	
Recorder	0.00	8353	Below	4583.00	
Change Over Sub	1.00			4584.00	
Drill Pipe	31.00			4615.00	
Change Over Sub	1.00			4616.00	
Bullnose	5.00			4621.00	103.00 Bottom Packers & Anchor

Total Tool Length: 133.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

18-16s-31w Scott,KS

1625 N Waterfront PKWY
Wichita, KS 67206-6602

Russell #1-18

Job Ticket: 54671

DST#: 5

ATTN: Dave Goldak

Test Start: 2013.12.09 @ 17:40:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
110.00	g o c m 15g 40o 45m	1.543
120.00	g m c o 20g 35m 45o	1.683
0.00	250' gas in pipe	0.000

Total Length: 230.00 ft Total Volume: 3.226 bbl

Num Fluid Samples: 0

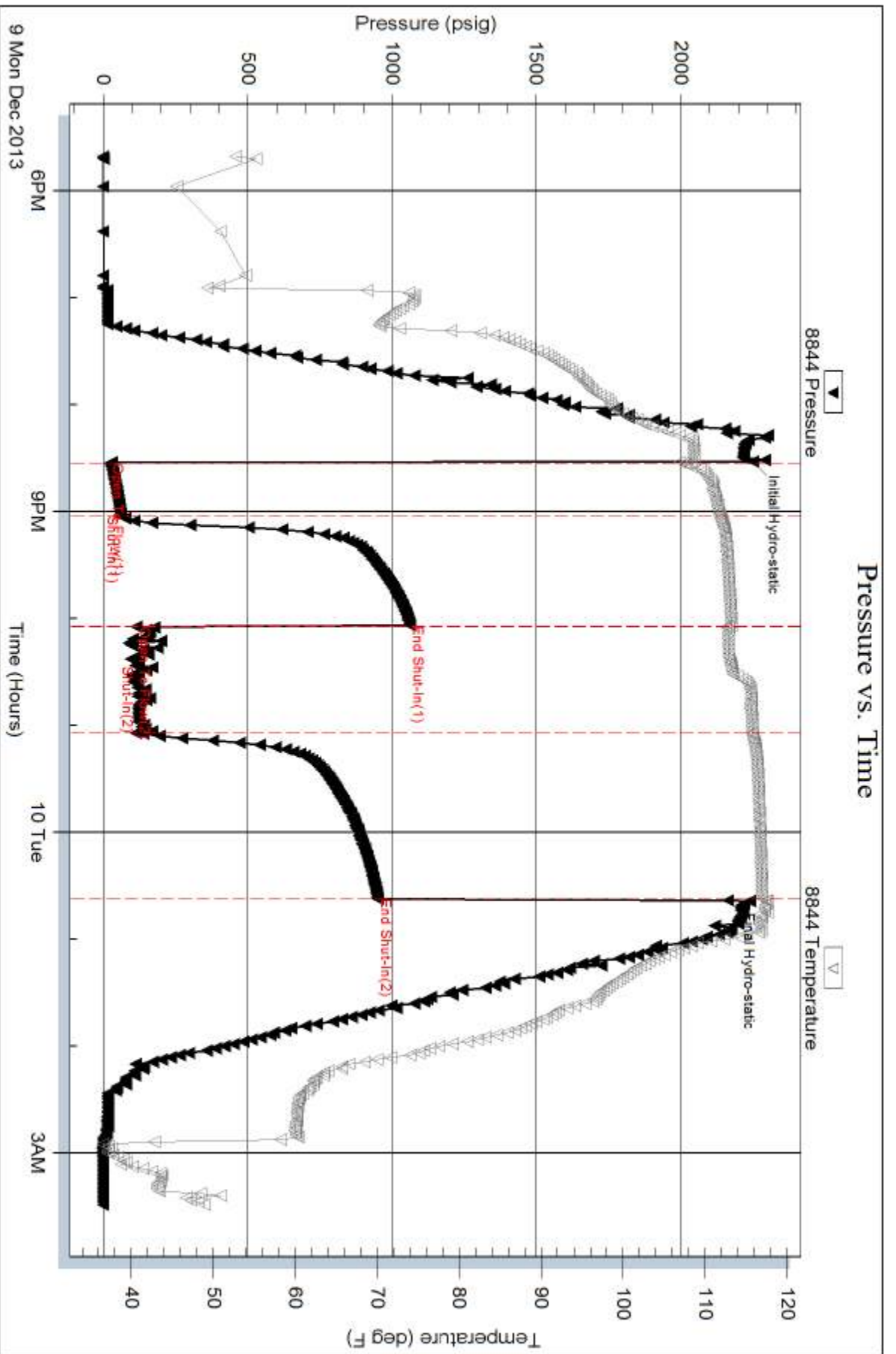
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler .4 cubic ft of gas 1000ml oil 600ml mud 90psi



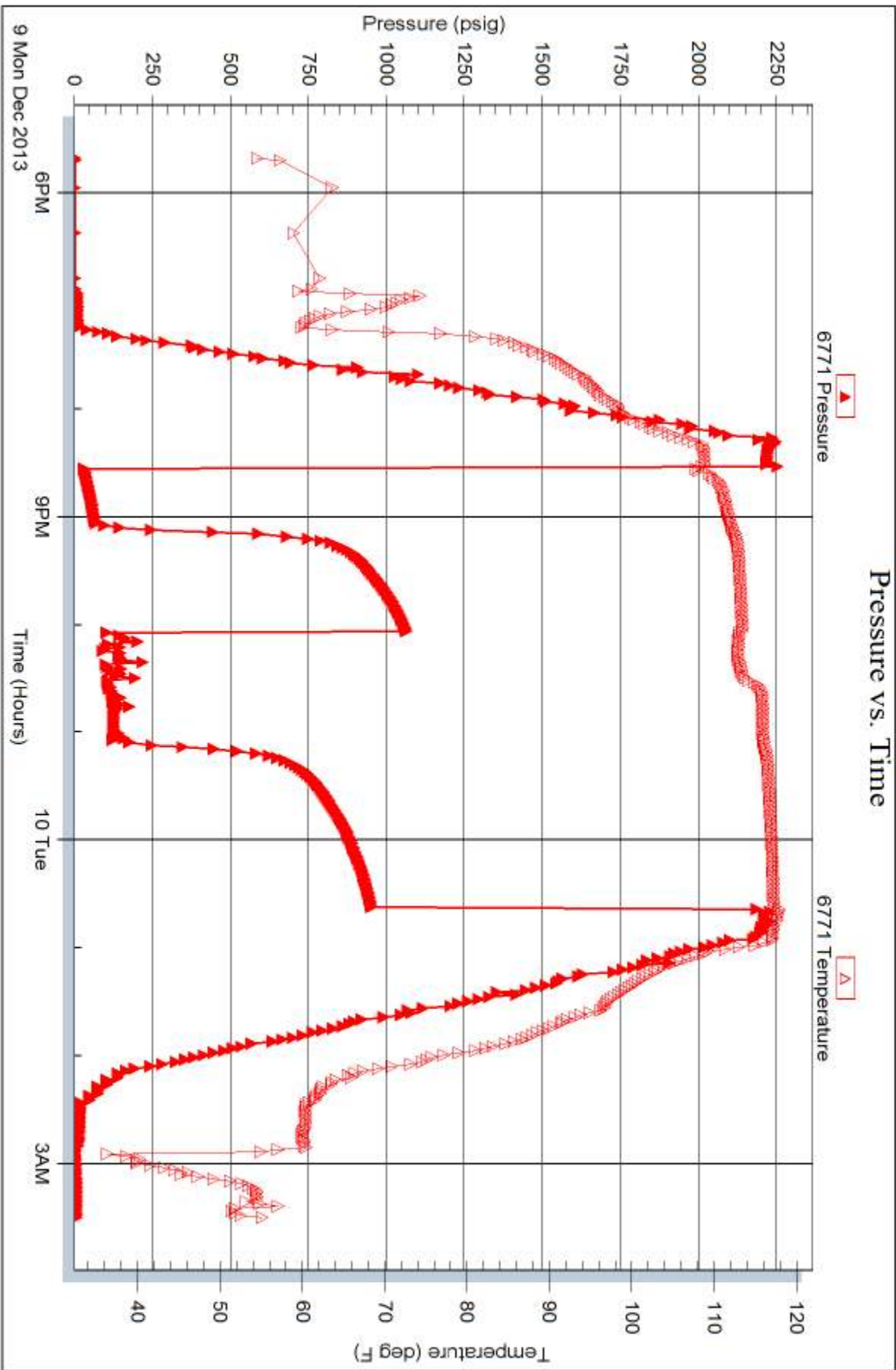
Serial #: 6771

Inside

Stelbar Oil Corp

Russel #1-18

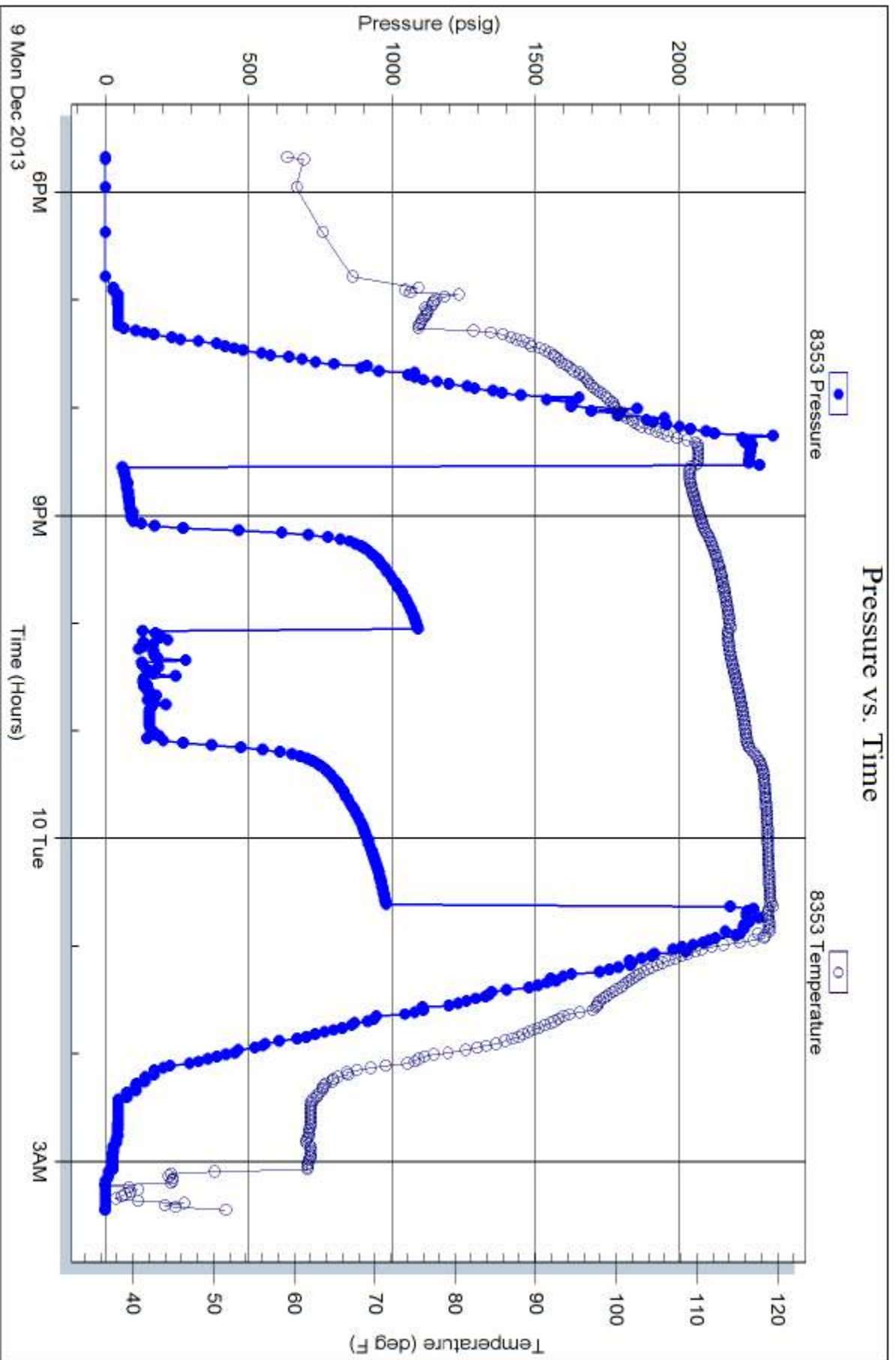
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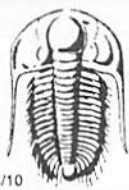


Tribble Testing, Inc

Ref. No: 54671

Printed: 2013.12.11 @ 16:23:33





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54667

Well Name & No. Russell #1-18 Test No. #1 Date 12/5/13
 Company Selbar Oil Corp Elevation 2936 KB 2929 GL
 Address 1625 N. Waterfront PKWY, Wichita, KS 67206-6602
 Co. Rep / Geo. Dave Goldark Rig Petrol #10
 Location: Sec. 18 Twp. 16S Rge. 3W Co. Scott State Ks

Interval Tested 3970 3996 Zone Tested B
 Anchor Length 26 Drill Pipe Run 3964 Mud Wt. 8.8
 Top Packer Depth 3965 Drill Collars Run --- Vis 18
 Bottom Packer Depth 3970 Wt. Pipe Run --- WL 76
 Total Depth 3996 Chlorides 1600 ppm System LCM #1

Blow Description BOB. on 18 min
No return
BOB. on 23 min.
No return

Rec	Feet of	%gas	Spits	%oil	%water	%mud
<u>120</u>	<u>in new oil spots on top</u>			<u>70</u>	<u>30</u>	
<u>120</u>	<u>in new</u>			<u>90</u>	<u>10</u>	
<u>420</u>	<u>water</u>			<u>100</u>		
	<u>(Show of free oil on tool)</u>					

Rec Total 6600' BHT 121° Gravity --- API RW 215 @ 73° F Chlorides 31500 ppm

(A) Initial Hydrostatic 1969 Test 1150 T-On Location 21:15
 (B) First Initial Flow 46 Jars 250 T-Started 22:10
 (C) First Final Flow 151 Safety Joint 75 T-Open 01:07
 (D) Initial Shut-In 1028 Circ Sub N/C T-Pulled 05:07
 (E) Second Initial Flow 168 Hourly Standby T-Out 08:10
 (F) Second Final Flow 328 Mileage 44 RT 68.20 Comments _____
 (G) Final Shut-In 1016 Sampler 250 _____
 (H) Final Hydrostatic 1906 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1793.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1793.20

Approved By [Signature] 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.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 54667 Date 12/5/13
 Company Name Stelbar Oil Corp
 Lease Russell #1-10 Test No. #1 (3920-3926) Bzone
 County Scott, Ks Sec. 18 Twp. 16S Rng. 3W

SAMPLER RECOVERY

Gas _____ ML
 Oil 100 ML
 Mud _____ ML
 Water 1900 ML
 Other _____ ML
 Pressure 260 PSI
 Total 2000 mL ML

PIT MUD ANALYSIS

Chlorides 1600 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 48
 Mud Weight 8.8
 Filtrate 7.6
 Other LCM #1

SAMPLER ANALYSIS

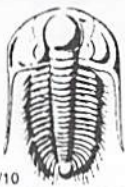
Resistivity .215 ohms @ 73° F
 Chlorides 31,500 ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity .215 ohms @ 73° F
 Chlorides 31,500 ppm.

MIDDLE
 Resistivity .215 ohms @ 73° F
 Chlorides 31,500 ppm.

BOTTOM
 Resistivity .215 ohms @ 73 F
 Chlorides 31,500 ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54668

Well Name & No. Russell #1-18 Test No. #2 Date 12/6/13
 Company Delbar Oil Corp Elevation 2936 KB 2929 GL
 Address 1625 N. Waterfront Pkwy, Wichita, KS 67204-6602
 Co. Rep / Geo. Dave Galdak Rig Pickrell #10
 Location: Sec. 18 Twp. 16S Rge. 3W Co. Scott State Ks

Interval Tested 3996 4018 Zone Tested C
 Anchor Length 22 Drill Pipe Run 3997 Mud Wt. 9.3
 Top Packer Depth 3991 Drill Collars Run — Vis 70+
 Bottom Packer Depth 3996 Wt. Pipe Run — WL 8.4
 Total Depth 4018 Chlorides 2600 ppm System LCM #1
 Blow Description B.O.B. in 1 min
No return
B.O.B. in 2 min
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120'</u>	<u>SMCW</u>			<u>85</u>	<u>15</u>
<u>120'</u>	<u>water</u>			<u>100</u>	
<u>1750'</u>	<u>water (reversed out)</u>			<u>100</u>	
<u>120'</u>	<u>(under Core Sub.) water</u>			<u>100</u>	
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 2110' BHT 121° Gravity — API RW .271 @ 71° F Chlorides 25,500 ppm
 (A) Initial Hydrostatic 1947 Test 1250 T-On Location 18:00
 (B) First Initial Flow 369 Jars 250 T-Started 18:45
 (C) First Final Flow 868 Safety Joint 75 T-Open 20:40
 (D) Initial Shut-In 1052 Circ Sub 450.00 T-Pulled 23:40
 (E) Second Initial Flow 904 Hourly Standby T-Out 03:10
 (F) Second Final Flow 1029 Mileage 44.00 68.20 Comments _____
 (G) Final Shut-In 1055 Sampler 250 _____
 (H) Final Hydrostatic 1927 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 0
 Total 1943.20
 MP/DST Disc't _____
 Sub Total 1943.20

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 54668 Date 12/6/13
 Company Name Stellar Oil Corp
 Lease Russell #1-18 Test No. #2 (3996-4118) C-zone
 County Scott, KS Sec. 18 Twp. 16S Rng. 31W

SAMPLER RECOVERY

Gas ML
 Oil ML
 Mud ML
 Water 2000 ML
 Other ML
 Pressure PSI
 Total 2000ml ML

PIT MUD ANALYSIS

Chlorides 2600 ppm.
 Resistivity ohms @ F
 Viscosity 70+
 Mud Weight 9.3
 Filtrate 8.4
 Other LCM #1

SAMPLER ANALYSIS

Resistivity 1271 ohms @ 71° F
 Chlorides 25,500 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP
 Resistivity 1271 ohms @ 71° F
 Chlorides 25,500 ppm.

MIDDLE
 Resistivity ohms @ F
 Chlorides ppm.

BOTTOM
 Resistivity 1271 ohms @ 71° F
 Chlorides 25,500 ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54669

Well Name & No. Russell #1-18 Test No. #3 Date 12/4/13
 Company Stelbar Oil Corp Elevation 2736 KB 2929 GL
 Address 1625 W. Waterfront (KWI), Wichita, KS 67206-6602
 Co. Rep / Geo. Dave Goldak Rig Pickwell #10
 Location: Sec. 18 Twp. 16S Rge. 31W Co. Scott State Ks

Interval Tested 4028 4046 Zone Tested D
 Anchor Length 18 Drill Pipe Run 4028 Mud Wt. 9.0
 Top Packer Depth 4023 Drill Collars Run --- Vis 49
 Bottom Packer Depth 4028 Wt. Pipe Run --- WL 8.4
 Total Depth 4046 Chlorides 2500 ppm System LCM #1

Blow Description 1/4" in blow
No return
1" in blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Free Oil</u>		<u>100</u>		
<u>45</u>	<u>OCWM</u>	<u>10</u>	<u>30</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100' BHT 110° Gravity 32 API RW 289 @ 60 °F Chlorides 2500 ppm

(A) Initial Hydrostatic 1940 Test 1250 T-On Location 18:35
 (B) First Initial Flow 39 Jars 250 T-Started 19:10
 (C) First Final Flow 41 Safety Joint 75 T-Open 21:20
 (D) Initial Shut-In 948 Circ Sub N/C T-Pulled 23:20
 (E) Second Initial Flow 51 Hourly Standby _____ T-Out 21:40
 (F) Second Final Flow 53 Mileage 44/15 68.20 Comments _____
 (G) Final Shut-In 920 Sampler 250 _____
 (H) Final Hydrostatic 1926 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1893.20
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1893.20

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 54669 Date 12/6/13
 Company Name Stellar Oil Corp
 Lease Russell #148 Test No. #3 (1028-1046) D-zone
 County Scott, KS Sec. 18 Twp. 14S Rng. 3W

SAMPLER RECOVERY

Gas _____ ML
 Oil 700 ML
 Mud 400 ML
 Water 900 ML
 Other _____ ML
 Pressure 80 PSI ~~ML~~
 Total _____ ML

PIT MUD ANALYSIS

Chlorides 2500 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 49
 Mud Weight 9.0
 Filtrate 8.4
 Other LCM #1

SAMPLER ANALYSIS

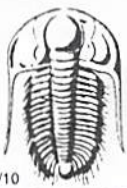
Resistivity .289 ohms @ 60° F
 Chlorides 28,000 ppm.
 Gravity 32 corrected @60F

PIPE RECOVERY

TOP
 Resistivity .289 ohms @ 60 F
 Chlorides 28,000 ppm.

MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

BOTTOM
 Resistivity .289 ohms @ 60 F
 Chlorides 28,000 ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54670

Well Name & No. Russell #1-18 Test No. #4 Date 12/7/13
 Company Stelbar Oil Corp Elevation 2936 KB 2929 GL
 Address 1625 N. Waterfront Pkwy, Wichita, KS 67206-6602
 Co. Rep / Geo. Dave Godlak Rig Petrel #10
 Location: Sec. 18 Twp. 16S Rge. 3W Co. Scott State Ks

Interval Tested 4122 4192 Zone Tested G-I
 Anchor Length 70 Drill Pipe Run 4123' Mud Wt. 9.2
 Top Packer Depth 4117 Drill Collars Run — Vis 100
 Bottom Packer Depth 4122 Wt. Pipe Run — WL 7.2
 Total Depth 4192 Chlorides 3200 ppm System LCM #1

Blow Description B.O.B. in 22 min
No return
B.O.B. in 30 min.
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>wcm work spots</u>		<u>30</u>	<u>70</u>	
<u>120</u>	<u>mud</u>		<u>80</u>	<u>20</u>	
<u>300</u>	<u>water</u>		<u>100</u>		
	<u>(Show of Free Oil in Tool)</u>				

Rec Total 500' BHT 120° Gravity — API RW 184 @ 67° F Chlorides 39800 ppm
 (A) Initial Hydrostatic 2040 Test 1250 T-On Location 15:00
 (B) First Initial Flow 36 Jars 250 T-Started 15:40
 (C) First Final Flow 157 Safety Joint 75 T-Open 18:09
 (D) Initial Shut-In 1042 Circ Sub n/c T-Pulled 21:05
 (E) Second Initial Flow 176 Hourly Standby _____ T-Out 00:40
 (F) Second Final Flow 302 Mileage 44.25 68.20 Comments _____
 (G) Final Shut-In 1014 Sampler 250 _____
 (H) Final Hydrostatic 2014 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1893.20

Approved By [Signature] Our Representative [Signature]
 Sub Total 1893.20 MP/DST Disc't _____

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TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 54670 Date 12/7/13
 Company Name Stelbar Oil Corp
 Lease Russell #1-18 Test No. #4 (4122-4192) G-I Zones
 County Scott, KS Sec. 18 Twp. 16.5 Rng. 31W

SAMPLER RECOVERY

Gas ML
 Oil ML
 Mud ML
 Water 2000 ML
 Other ML
 Pressure 130 PSI
 Total 2000 ml ML

PIT MUD ANALYSIS

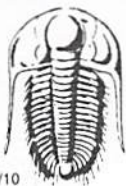
Chlorides 3200 ppm.
 Resistivity ohms @ F
 Viscosity 60
 Mud Weight 9.2
 Filtrate 7.2
 Other LCM #1

SAMPLER ANALYSIS

Resistivity .184 ohms @ 67 F
 Chlorides 39,800 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP
 Resistivity .184 ohms @ 67 F
 Chlorides 39,000 ppm.
 MIDDLE
 Resistivity .184 ohms @ 67 F
 Chlorides 39,800 ppm.
 BOTTOM
 Resistivity .184 ohms @ 67 F
 Chlorides 39,800 ppm.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54671

Well Name & No. Russell #1-18 Test No. #5 Date 12/13/13
 Company Delvar Oil Corp Elevation 2936 KB 2929 GL
 Address 725 N. Waterfront PKWY, Wichita, KS 67206-6602
 Co. Rep / Geo. Dave Goldak Rig Pickrell #10
 Location: Sec. 18 Twp. 16S Rge. 31W Co. Scott State Ks

Interval Tested 4518 4568 Zone Tested Johnson
 Anchor Length 50 Drill Pipe Run 4490 Mud Wt. 9.5
 Top Packer Depth 4513 - 4518 Drill Collars Run — Vis 34
 Bottom Packer Depth 4568 Wt. Pipe Run — WL 9.6
 Total Depth 53' tail pipe 4621 Chlorides 3600 ppm System LCM #2

Blow Description B.O.B. in 30 min
1 1/2" in Reburn blow
B.O.B. in 28 min
Surface return, died in 32 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>gocm</u>	<u>15%</u>	<u>40%</u>	<u>45%</u>	<u>—</u>
<u>120</u>	<u>gmco</u>	<u>20%</u>	<u>45%</u>	<u>35%</u>	<u>—</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 230' BHT 117° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic	<u>2249</u>	<input checked="" type="checkbox"/> Test	<u>1050</u>	T-On Location	<u>16:55</u>
(B) First Initial Flow	<u>23</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>17:40</u>
(C) First Final Flow	<u>61</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>20:30</u>
(D) Initial Shut-In	<u>1062</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>00:30</u>
(E) Second Initial Flow	<u>115</u>	<input type="checkbox"/> Hourly Standby	<u>—</u>	T-Out	<u>03:48</u>
(F) Second Final Flow	<u>113</u>	<input checked="" type="checkbox"/> Mileage	<u>44 RT 68.20</u>	Comments	<u>—</u>
(G) Final Shut-In	<u>949</u>	<input checked="" type="checkbox"/> Sampler	<u>250</u>	<input type="checkbox"/> Ruined Shale Packer	<u>—</u>
(H) Final Hydrostatic	<u>2162</u>	<input checked="" type="checkbox"/> Straddle	<u>600</u>	<input type="checkbox"/> Ruined Packer	<u>—</u>
		<input checked="" type="checkbox"/> Shale Packer	<u>250</u>	<input type="checkbox"/> Extra Copies	<u>—</u>

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Sub Total 2543.20
 Total 2543.20
 MP/DST Disc't —

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 54671 Date 12/9/13
 Company Name Stelbar Oil Corp
 Lease Russell #1-18 Test No. #5 (4518-4519) Johnson Zone
 County Scott, KS Sec. 18 Twp. 16S Rng. 31W

SAMPLER RECOVERY

Gas 4 cubic ft ~~ML~~
 Oil 1000 ML
 Mud 600 ML
 Water — ML
 Other — ML
 Pressure 90 PSI ~~PSI~~
 Total 4 cubic ft Gas 1600 ml Fluid ML

PIT MUD ANALYSIS

Chlorides 3600 ppm.
 Resistivity — ohms @ — F
 Viscosity 54
 Mud Weight 9.5
 Filtrate 9.4
 Other API #2

SAMPLER ANALYSIS

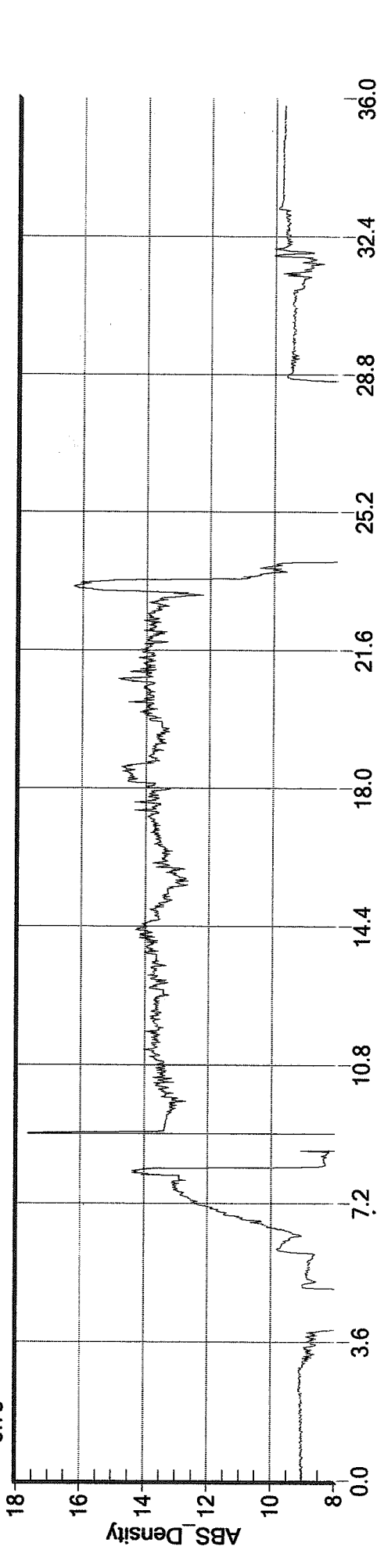
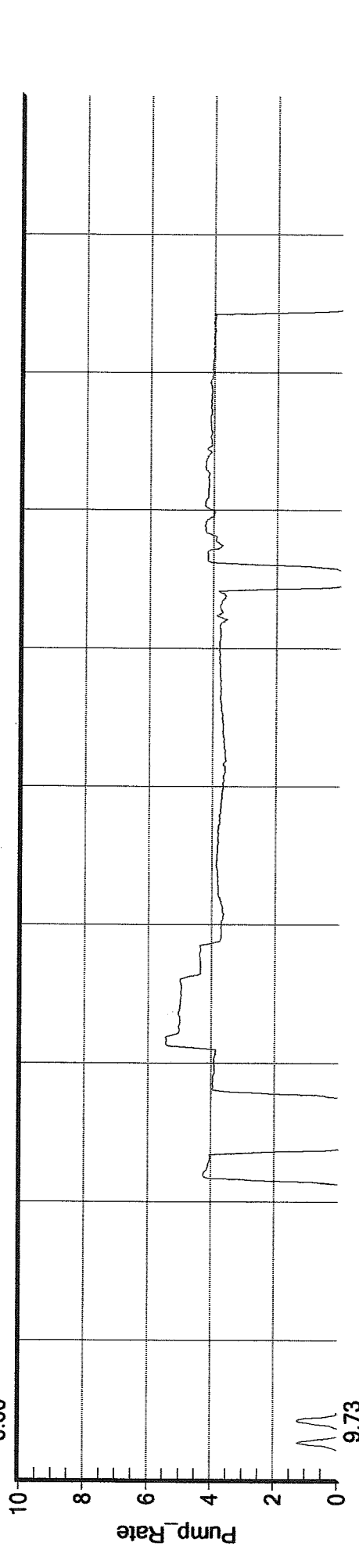
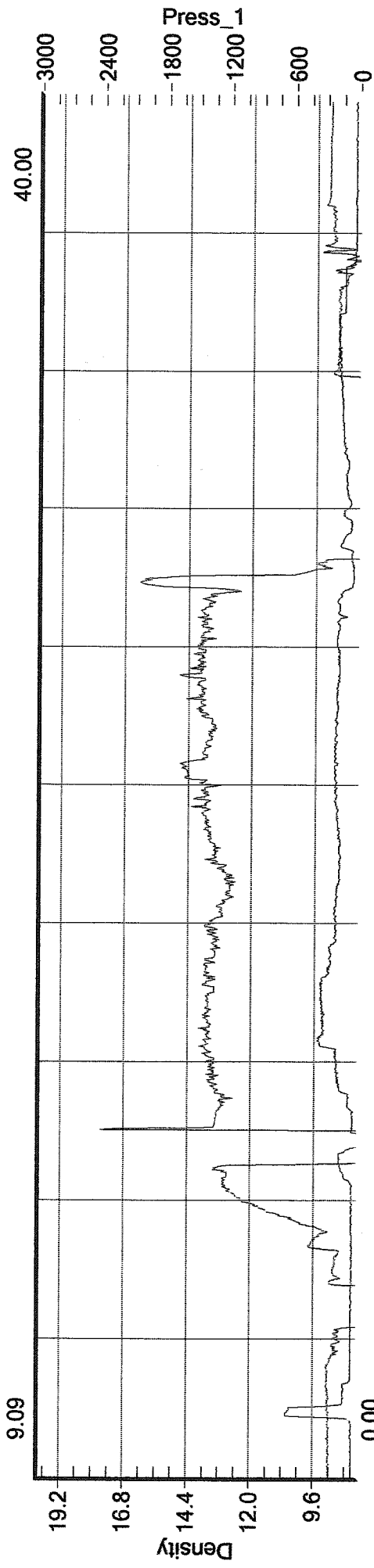
~~Resistivity — ohms @ — F
 Chlorides No Water ppm.
 Gravity Not enough to get corrected @60F
A Gravity~~

PIPE RECOVERY

~~TOP
 Resistivity No Water ohms @ — F
 Chlorides — ppm.
 MIDDLE
 Resistivity — ohms @ — F
 Chlorides — ppm.
 BOTTOM
 Resistivity — ohms @ — F
 Chlorides — ppm.~~



STELBAR RUSSELL 1-18



Job Started On: 11/30/2013 @ 9:19:36 PM



BASICSM
ENERGY SERVICES
Liberal, Kansas

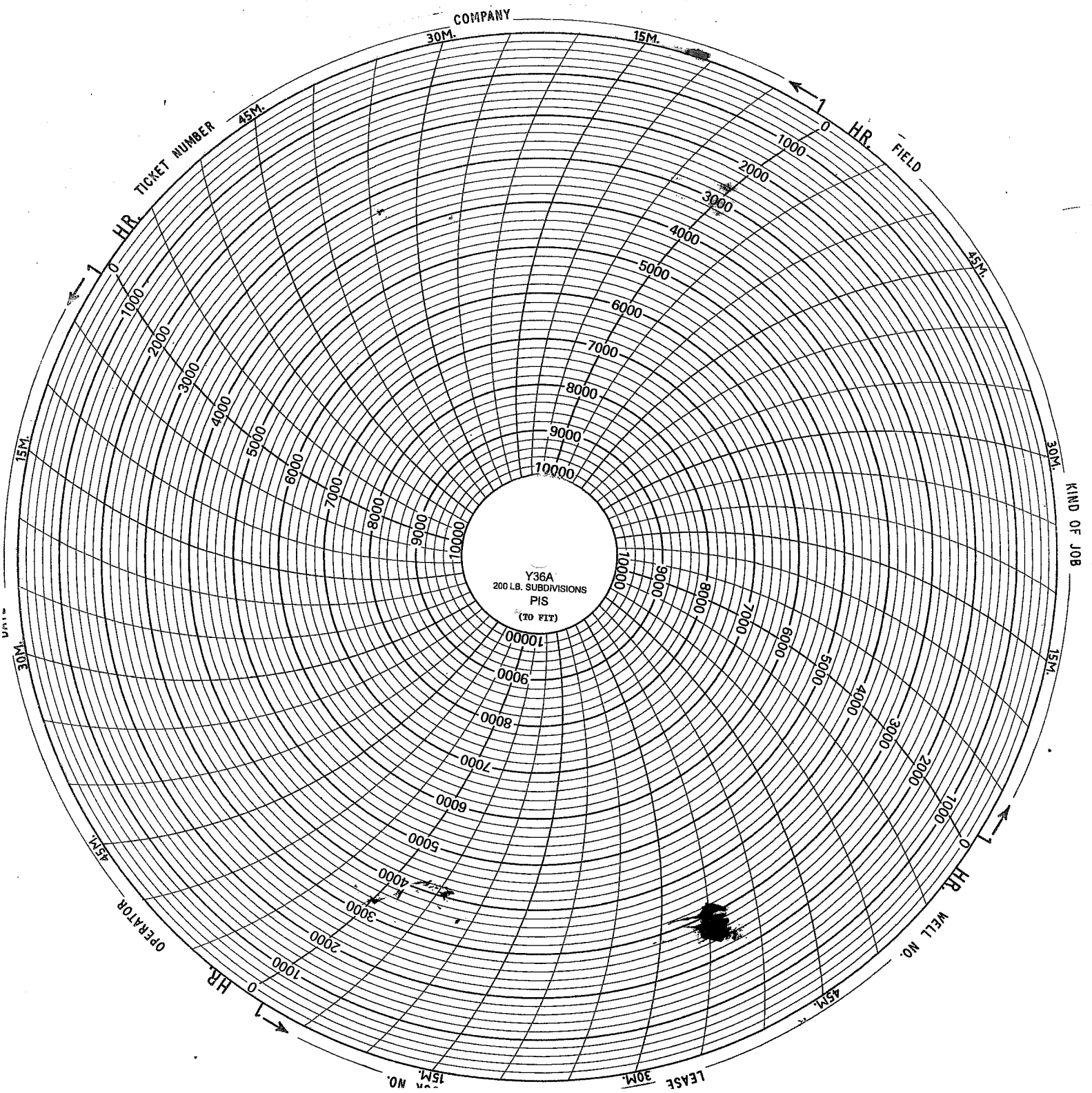
Cement Report

Customer	Stelbar		Lease No.		Date	12-11-13	
Lease	Russell		Well #	H18	Service Receipt	04986	
Casing	4 1/2" D.P.	Depth	2350'	County	Scott	State	KS
Job Type	242 PTA		Formation		Legal Description	18-16-31	
Pipe Data				Perforating Data		Cement Data	
Casing size	4 1/2" D.P.		Tubing Size	Shots/Ft		Lead	
Depth	2350'		Depth	From	To	Tail in 280 sk 60/40 Poz	
Volume	Disp-9000 bbl		Volume	From	To		
Max Press			Max Press	From	To		
Well Connection			Annulus Vol.	From	To		
Plug Depth			Packer Depth	From	To		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log		
8:00					on loc-site assessment		
8:15					spot trucks - rig up		
8:30					safety meeting - JSA		
10:00					pressure test 1000 #		
9:30					circ @ 2350'		
10:15	100		13.4	4	mix + pump 50 sk 60/40 poz		
					@ 13.5 pp - 1.50 g/sk		
10:30	100		30	4	disp balanced plug		
11:00					circ @ 1380'		
11:00	100		21.4	4	mix + pump 80 sk		
10:15	100		14.4	4	disp balanced plug		
11:00					circ @ 700'		
11:15	100		13.4	4	mix + pump 50 sk		
11:30	100		6.7	4	disp balanced plug		
12:00					circ @ 330'		
12:15	100		13.4	4	mix + pump 50 sk		
12:30	100		1.2	4	disp balanced plug		
1:00					circ @ 60'		
1:45	100		5.3	3	mix + pump 20 sk		
2:00					circ cut to surface		
			8		plug rat hole w/ 30 sk		
					job complete		
Service Units	34720	27462	19866				
Driver Names	A Overa	E Muder	S Chavez				

M Kerr
Customer Representative

S Bennett
Station Manager

A Overa
Cementer
Taylor Printing, Inc.



Y36A
200 LB. SUBDIVISIONS
PIS
(TO FIT)

HR. TICKET NUMBER

HR. FIELD

HR. WELL NO.

HR. OPERATOR

KIND OF JOB

COMPANY

LEASE NO.

30M.

15M.

15M.

30M.

15M.

45M.

45M.

15M.

45M.

1000

2000

3000

4000

5000

6000

7000

8000

9000

10000

10000

9000

8000

7000

6000

5000

4000

3000

2000

1000

1

1000

2000

3000

4000

5000

6000

7000

8000

9000

10000

10000

9000

8000

7000

6000

5000

4000

3000

2000

1000

1

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Russell #1-18
Location: Section 18 - T16S - R31W
License Number: API: 15-171-20991
Spud Date: 11 / 30 / 2013
Surface Coordinates: 1544' FNL and 335' FEL
Approx. NE - SE - NE
Region: Scott Co., KS
Drilling Completed: 12 / 10 / 2013
Bottom Hole Coordinates:
Ground Elevation (ft): 2929' K.B. Elevation (ft): 2936'
Logged Interval (ft): 3650' To: 4700' Total Depth (ft): 4700'
Formation: Mississippian - St Louis
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Stelbar Oil Corporation
Address: 1625 N. Waterfront Pkwy., Suite 200
Wichita, Kansas 67206-6602

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 155 N. Market, Suite 710
Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-L116	15-15-15	339	339	2.75
2	7-7/8	JZ-PL516-PDC	15-15-15	3746	3407	43.75
3	7-7/8	JZ-ENP0123	15-15-15	4621	875	37.75
4	7-7/8	JZ-QX33	15-15-15	4700	79	6.75

SURVEYS: 339'-0.75, 839'-0.75, 1308'-0.50, 1870'-0.75,
2371'-0.75, 2871'-0.75, 3746'-0.50, 4700'-0.75

GENERAL DRILLING & PUMP INFORMATION:

Drilling with 36,000-38,000 lbs on bit and 70-75 RPM.
Running 8 stands of collars (6.25"x2.25"): 488.43'
Pumping 60 S/M; 7.7 B/M; 650-750 psi at the standpipe.

Daily Status

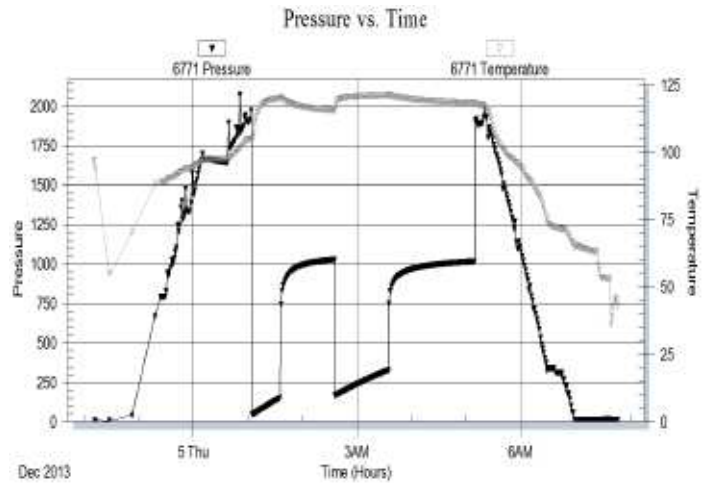
11/30/13 - Spud at 2:30 PM; Set 8-5/8" csg at 337'
12/01/13 - 339' Drilling plug
12/02/13 - 1,995' Drilling
12/03/13 - 3,253' Drilling; Displace at 3,550'; Bit trip at 3,746'
12/04/13 - 3,746' TIH with conv bit
12/05/13 - 4,996' TOH with DST #1
12/06/13 - 4,018' CTCH after DST #2; DST #3 @ 4,046'
12/07/13 - 4,065' Drilling; DST #4 @ 4,192'
12/08/13 - 4,224' CFS
12/09/13 - 4,585' Drilling
12/10/13 - 4,621' TIH after DST #5; RTD 4,700' @ 3:45 PM

DST #1: 3,970' - 3,996' (LKC "B")
30" - 60" - 60" - 90"

IF: Good blow, building to BOB in 18 minutes
ISI: No blow back
FF: Good blow, building to BOB in 23 minutes
FSI: No blow back

RECOVERY: 660' Total Fluid, consisting of:
120' OSMW (Tr O, 70% W, 30% M)
120' SMCW (90% W, 10% M)
420' Water (100% W); Chlorides: 31,500 ppm
Show of free oil in tool
Sampler: 100 ml Oil & 1900 ml Water @ 260 psi

SIP: 1029-1016; **FP:** 47-152, 168-328; **HP:** 1969-1906; **BHT:** 121

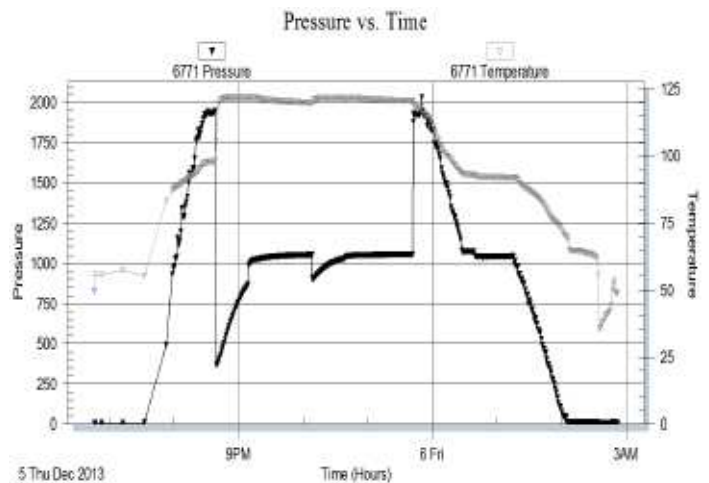


DST #2: 3,996' - 4,018' (LKC "C")
30" - 60" - 30" - 60"

IF: Strong blow, building to BOB in 1 minute
ISI: No blow back
FF: Strong blow, building to BOB in 2 minutes
FSI: No blow back

RECOVERY: 2,110' Total Fluid, consisting of:
120' SMCW (85% W, 15% M)
120' W (100% W); Chlorides: 25,500 ppm
1750' W (drop bar & break circ sub)
120' W (below circ sub)
Sampler: 2000 ml Water

SIP: 1053-1056; **FP:** 369-869, 904-1030; **HP:** 1948-1928; **BHT:** 121

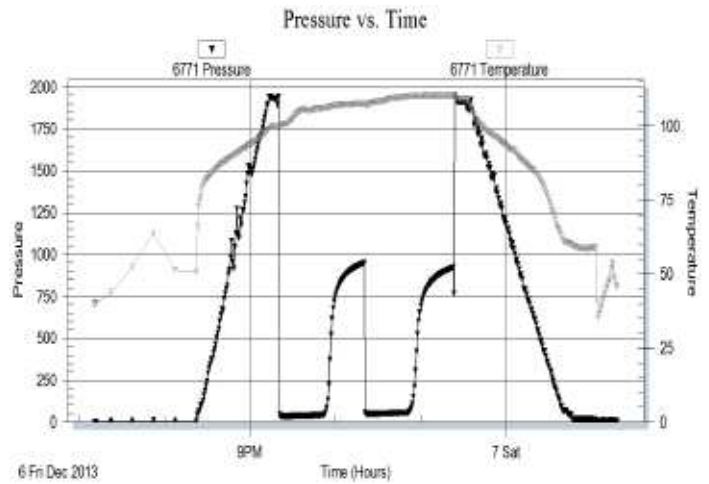


DST #3: 4,028' - 4,046' (LKC "D")
30" - 30" - 30" - 30"

IF: Weak blow, building to 1.25 inches
ISI: No blow back
FF: Weak blow, building to 1 inch
FSI: No blow back

RECOVERY: 60' Total Fluid, consisting of:
15' FO (100% O); Gravity: 32
45' OCWM (10% O, 30% W, 60% M)
Chlorides recovery: 28,000 ppm
Sampler: 700 ml Oil, 400 ml Mud & 900 ml Wtr

SIP: 949-920; FP: 39-42, 52-54; HP: 1941-1927; BHT: 110

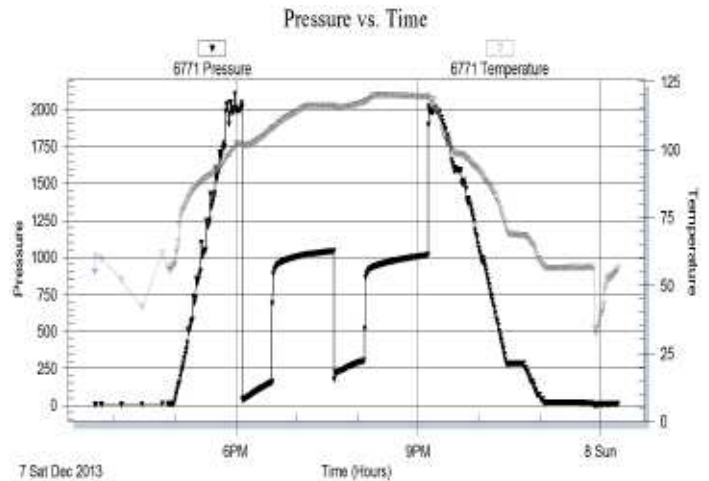


DST #4: 4,122' - 4,192' (LKC "G-I")
30" - 60" - 30" - 60"

IF: Good blow, building to BOB in 22 minutes
ISI: No blow back
FF: Good blow, building to BOB in 30 minutes
FSI: No blow back

RECOVERY: 500' Total Fluid, consisting of:
80' OSWCM (30% W, 70% M)
120' MCW (80% W, 20% M)
300' Water (100% W); Chlorides: 39,800 ppm
Show of free oil in tool
Sampler: 2000 ml Water @ 130 psi

SIP: 1043-1015; FP: 37-152, 177-302; HP: 2041-2014; BHT: 120

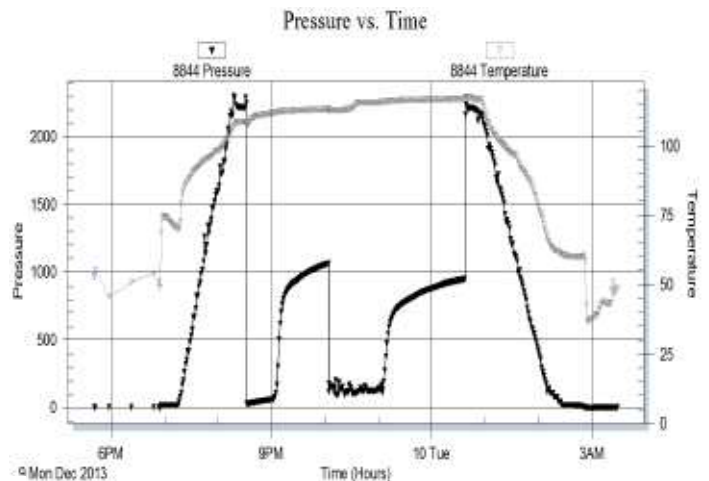


DST #5: 4,518' - 4,568' (Johnson Zone)
(Straddle test) 30" - 60" - 60" - 90"

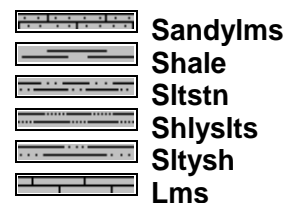
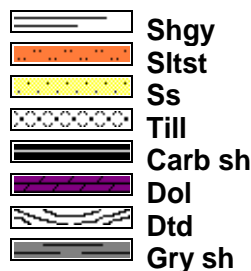
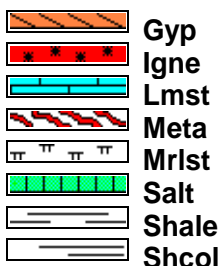
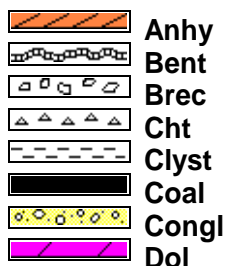
IF: Good blow, building to BOB in 30 minutes
ISI: Weak blow back, building to 1.5 inches
FF: Good blow, building to BOB in 30 minutes
FSI: Surface blow back, died in 32 minutes

RECOVERY: 250' GIP & 230' Total Fluid:
120' GMCO (20% G, 45% O, 35% M)
110' GOCM (15% G, 40% O, 45% M)
Sampler: 0.4 CGF, 1000 ml Oil & 600 ml Mud
(Straddle packer failed)

SIP: 1063-949; FP: 24-61, 115-113; HP: 2250-2163; BHT: 117

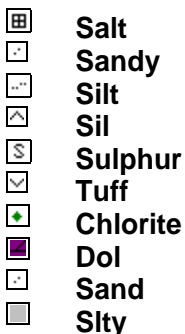


ROCK TYPES

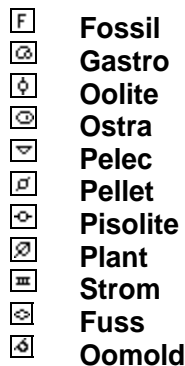
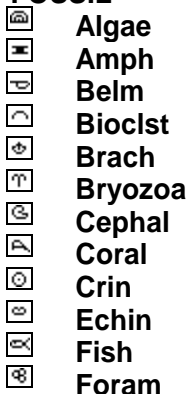


ACCESSORIES

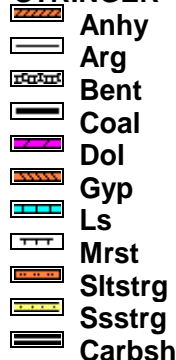
MINERAL



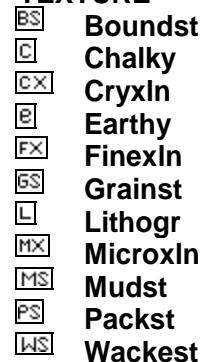
FOSSIL



STRINGER

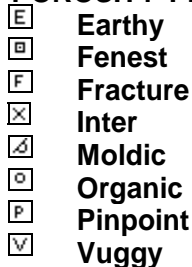


TEXTURE



OTHER SYMBOLS

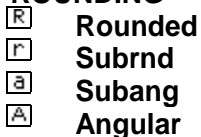
POROSITY TYPE



SORTING



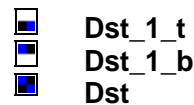
ROUNDING



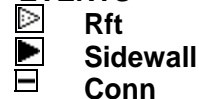
OIL SHOWS

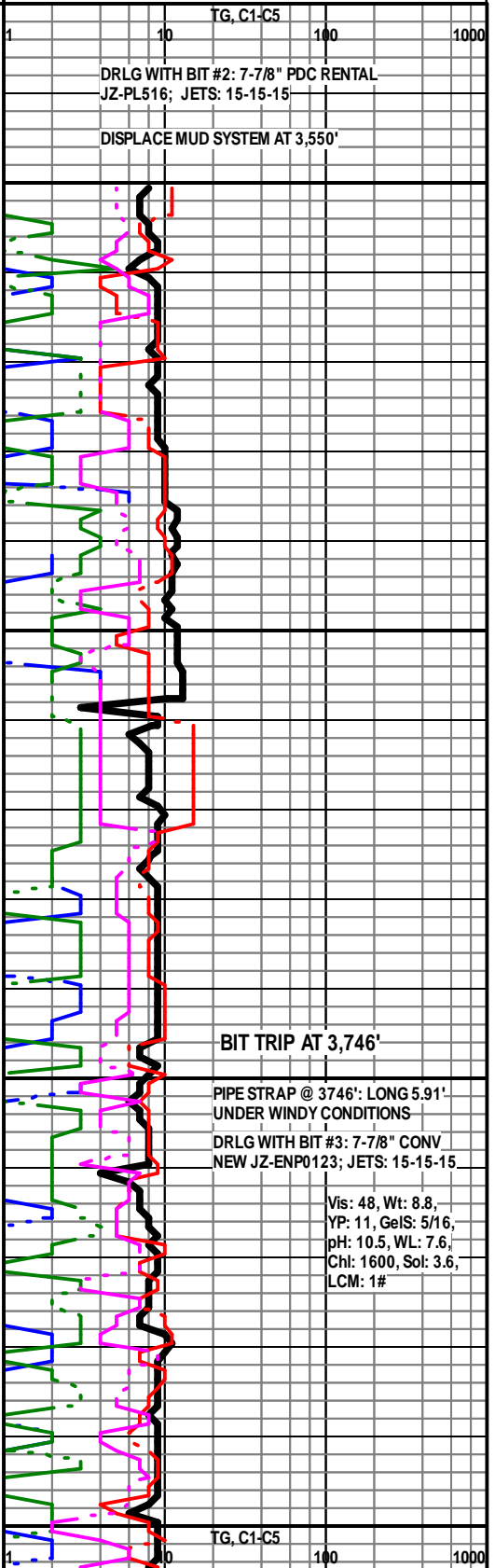
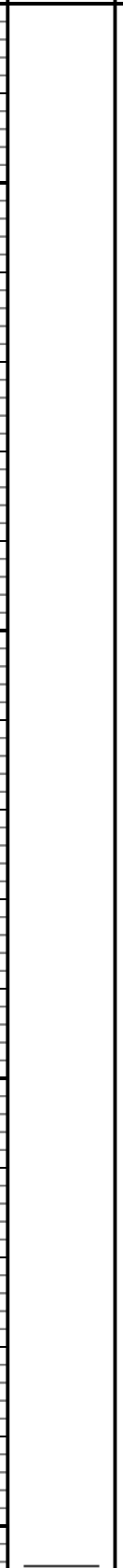
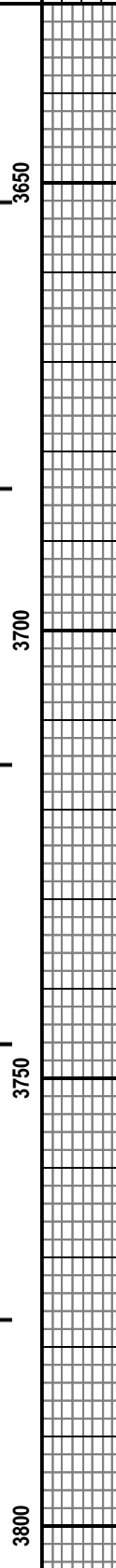
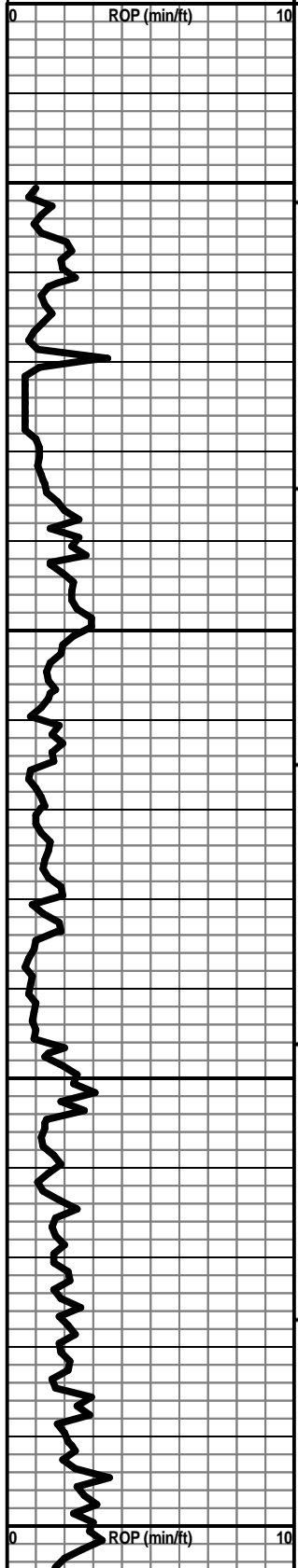
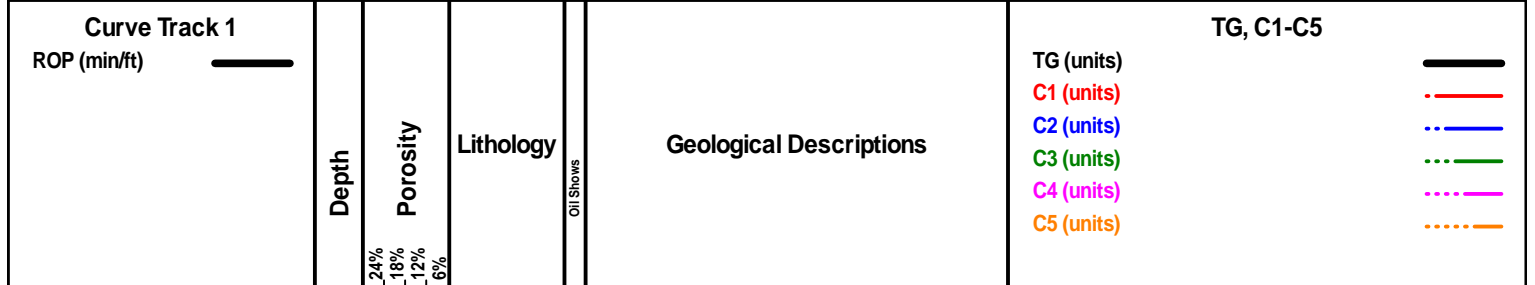


INTERVALS



EVENTS





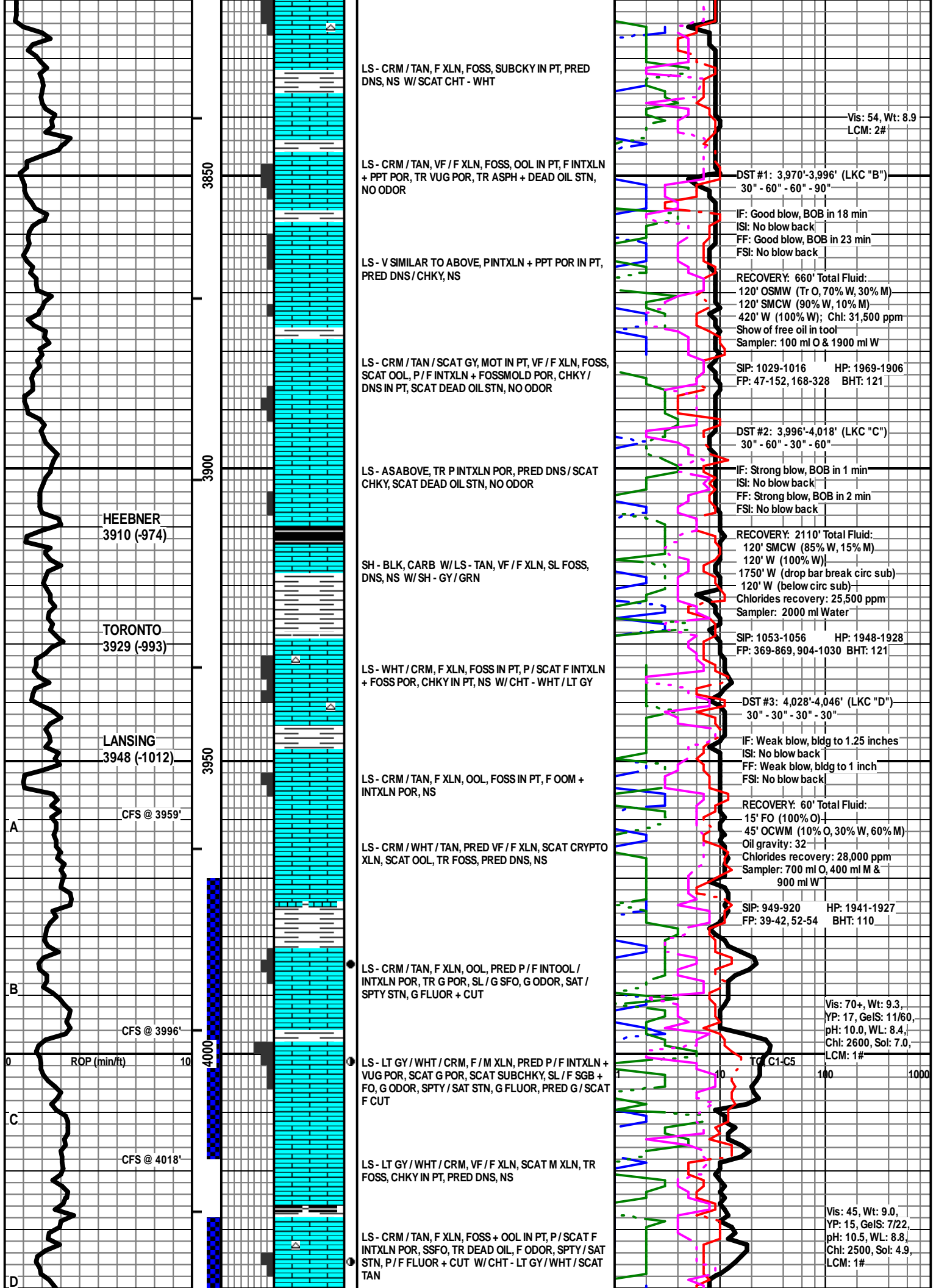
DRLG WITH BIT #2: 7-7/8" PDC RENTAL
JZ-PL516; JETS: 15-15-15
DISPLACE MUD SYSTEM AT 3,550'

BIT TRIP AT 3,746'

PIPE STRAP @ 3746': LONG 5.91'
UNDER WINDY CONDITIONS
DRLG WITH BIT #3: 7-7/8" CONV
NEW JZ-ENP0123; JETS: 15-15-15

Vis: 48, Wt: 8.8,
YP: 11, GeI: 5/16,
pH: 10.5, WL: 7.6,
ChI: 1600, Sol: 3.6,
LCM: 1#

LS - CRM / TAN, F XLN, FOSS, F PPT + INTXLN POR, TR FOSSMOLD POR, TR DEAD OIL STN, NO ODOR W/ SCAT CHT - WHT



LS - CRM / TAN, F XLN, FOSS, SUBCKY IN PT, PRED DNS, NS W/ SCAT CHT - WHT

Vis: 54, Wt: 8.9
LCM: 2#

3850

LS - CRM / TAN, VF / F XLN, FOSS, OOL IN PT, F INTXLN + PPT POR, TR VUG POR, TR ASPH + DEAD OIL STN, NO ODOR

DST #1: 3,970'-3,996' (LKC "B")
30" - 60" - 60" - 90"

IF: Good blow, BOB in 18 min
ISI: No blow back
FF: Good blow, BOB in 23 min
FSI: No blow back

RECOVERY: 660' Total Fluid:
120' OSMW (Tr O, 70% W, 30% M)
120' SMCW (90% W, 10% M)
420' W (100% W); Chl: 31,500 ppm
Show of free oil in tool
Sampler: 100 ml O & 1900 ml W

LS - V SIMILAR TO ABOVE, PINTXLN + PPT POR IN PT, PRED DNS/CHKY, NS

SIP: 1029-1016 HP: 1969-1906
FP: 47-152, 168-328 BHT: 121

LS - CRM / TAN / SCAT GY, MOT IN PT, VF / F XLN, FOSS, SCAT OOL, P/F INTXLN + FOSSMOLD POR, CHKY / DNS IN PT, SCAT DEAD OIL STN, NO ODOR

DST #2: 3,996'-4,018' (LKC "C")
30" - 60" - 30" - 60"

IF: Strong blow, BOB in 1 min
ISI: No blow back
FF: Strong blow, BOB in 2 min
FSI: No blow back

RECOVERY: 2110' Total Fluid:
120' SMCW (85% W, 15% M)
120' W (100% W)
1750' W (drop bar break circ sub)
120' W (below circ sub)
Chlorides recovery: 25,500 ppm
Sampler: 2000 ml Water

HEEBNER
3910 (-974)

LS - ASABOVE, TR P INTXLN POR, PRED DNS / SCAT CHKY, SCAT DEAD OIL STN, NO ODOR

SIP: 1053-1056 HP: 1948-1928
FP: 369-869, 904-1030 BHT: 121

TORONTO
3929 (-993)

SH - BLK, CARB W/LS - TAN, VF / F XLN, SL FOSS, DNS, NS W/SH - GY / GRN

LS - WHT / CRM, F XLN, FOSS IN PT, P / SCAT F INTXLN + FOSS POR, CHKY IN PT, NS W/ CHT - WHT / LT GY

DST #3: 4,028'-4,046' (LKC "D")
30" - 30" - 30" - 30"

IF: Weak blow, bldg to 1.25 inches
ISI: No blow back
FF: Weak blow, bldg to 1 inch
FSI: No blow back

RECOVERY: 60' Total Fluid:
15' FO (100% O)
45' OCWM (10% O, 30% W, 60% M)
Oil gravity: 32
Chlorides recovery: 28,000 ppm
Sampler: 700 ml O, 400 ml M & 900 ml W

LANSING
3948 (-1012)

LS - CRM / TAN, F XLN, OOL, FOSS IN PT, F OOM + INTXLN POR, NS

SIP: 949-920 HP: 1941-1927
FP: 39-42, 52-54 BHT: 110

CFS @ 3959'

LS - CRM / WHT / TAN, PRED VF / F XLN, SCAT CRYPTO XLN, SCAT OOL, TR FOSS, PRED DNS, NS

Vis: 70+, Wt: 9.3,
YP: 17, GeIS: 11/60,
pH: 10.0, WL: 8.4,
Chl: 2600, Sol: 7.0,
LCM: 1#

A

LS - CRM / TAN, F XLN, OOL, PRED P / F INTOOL / INTXLN POR, TR G POR, SL / G SFO, G ODOR, SAT / SPTY STN, G FLUOR + CUT

CFS @ 3996'

B

LS - LT GY / WHT / CRM, F / M XLN, PRED P / F INTXLN + VUG POR, SCAT G POR, SCAT SUBCHKY, SL / F SGB + FO, G ODOR, SPTY / SAT STN, G FLUOR, PRED G / SCAT F CUT

C

CFS @ 4018'

LS - LT GY / WHT / CRM, VF / F XLN, SCAT M XLN, TR FOSS, CHKY IN PT, PRED DNS, NS

C

LS - CRM / TAN, F XLN, FOSS + OOL IN PT, P / SCAT F INTXLN POR, SSFO, TR DEAD OIL, F ODOR, SPTY / SAT STN, P / F FLUOR + CUT W/ CHT - LT GY / WHT / SCAT TAN

Vis: 45, Wt: 9.0,
YP: 15, GeIS: 7/22,
pH: 10.5, WL: 8.8,
Chl: 2500, Sol: 4.9,
LCM: 1#

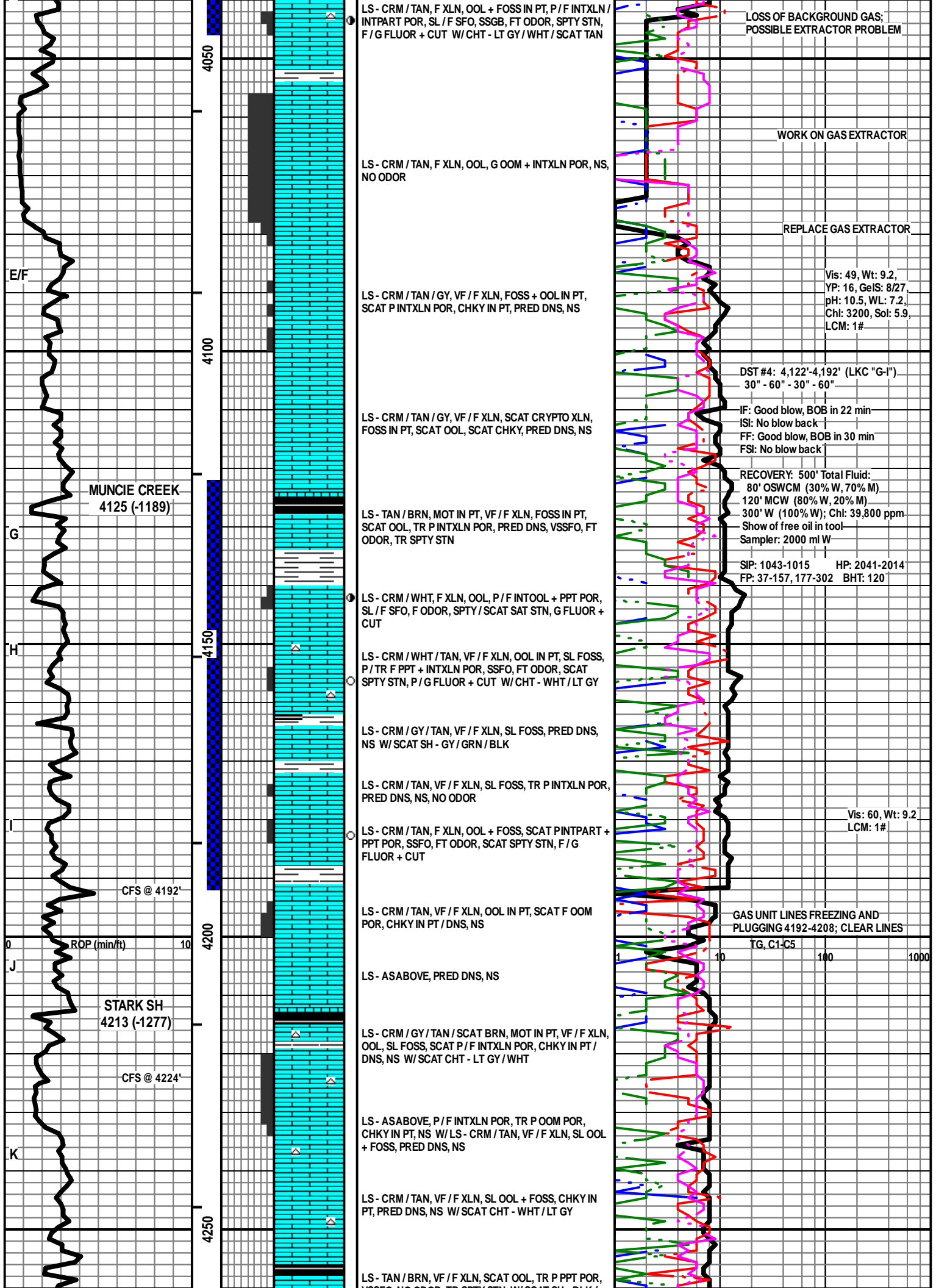
D

ROP (min/ft)

4000

TG C1-C5

10 100 1000



LS - CRM / TAN, F XLN, OOL + FOSS IN PT, P / F INTXLN / INTPART POR, SL / F SFO, SSGB, FT ODOR, SPTY STN, F / G FLUOR + CUT W / CHT - LT GY / WHT / SCAT TAN

LOSS OF BACKGROUND GAS; POSSIBLE EXTRACTOR PROBLEM

LS - CRM / TAN, F XLN, OOL, G OOM + INTXLN POR, NS, NO ODOR

WORK ON GAS EXTRACTOR

LS - CRM / TAN / GY, VF / F XLN, FOSS + OOL IN PT, SCAT P INTXLN POR, CHKY IN PT, PRED DNS, NS

REPLACE GAS EXTRACTOR

Vis: 49, Wt: 9.2, YP: 16, GeIS: 8/27, pH: 10.5, WL: 7.2, Chl: 3200, Sol: 5.9, LCM: 1#

LS - CRM / TAN / GY, VF / F XLN, SCAT CRYPTO XLN, FOSS IN PT, SCAT OOL, SCAT CHKY, PRED DNS, NS

DST #4: 4,122'-4,192' (LKC "G-I")
30" - 60" - 30" - 60"

IF: Good blow, BOB in 22 min
IS: No blow back
FF: Good blow, BOB in 30 min
FSI: No blow back

MUNCIE CREEK
4125 (-1189)

LS - TAN / BRN, MOT IN PT, VF / F XLN, FOSS IN PT, SCAT OOL, TR P INTXLN POR, PRED DNS, VSSFO, FT ODOR, TR SPTY STN

RECOVERY: 500' Total Fluid:
80' OSWCM (30% W, 70% M)
120' MCW (80% W, 20% M)
300' W (100% W); Chl: 39,800 ppm
Show of free oil in tool
Sampler: 2000 ml W

SIP: 1043-1015 HP: 2041-2014
FP: 37-157, 177-302 BHT: 120

LS - CRM / WHT, F XLN, OOL, P / F INTOOL + PPT POR, SL / F SFO, F ODOR, SPTY / SCAT SAT STN, G FLUOR + CUT

LS - CRM / WHT / TAN, VF / F XLN, OOL IN PT, SL FOSS, P / TR F PPT + INTXLN POR, SSFO, FT ODOR, SCAT SPTY STN, P / G FLUOR + CUT W / CHT - WHT / LT GY

LS - CRM / GY / TAN, VF / F XLN, SL FOSS, PRED DNS, NS W / SCAT SH - GY / GRN / BLK

LS - CRM / TAN, VF / F XLN, SL FOSS, TR P INTXLN POR, PRED DNS, NS, NO ODOR

LS - CRM / TAN, F XLN, OOL + FOSS, SCAT PINTPART + PPT POR, SSFO, FT ODOR, SCAT SPTY STN, F / G FLUOR + CUT

Vis: 60, Wt: 9.2
LCM: 1#

CFS @ 4192'

LS - CRM / TAN, VF / F XLN, OOL IN PT, SCAT F OOM POR, CHKY IN PT / DNS, NS

GAS UNIT LINES FREEZING AND PLUGGING 4192-4208; CLEAR LINES

LS - ASABOVE, PRED DNS, NS

LS - CRM / GY / TAN / SCAT BRN, MOT IN PT, VF / F XLN, OOL, SL FOSS, SCAT P / F INTXLN POR, CHKY IN PT / DNS, NS W / SCAT CHT - LT GY / WHT

LS - ASABOVE, P / F INTXLN POR, TR P OOM POR, CHKY IN PT, NS W / LS - CRM / TAN, VF / F XLN, SL OOL + FOSS, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, SL OOL + FOSS, CHKY IN PT, PRED DNS, NS W / SCAT CHT - WHT / LT GY

LS - TAN / BRN, VF / F XLN, SCAT OOL, TR P PPT POR,

TG, C1-C5 100 1000

STARK SH
4213 (-1277)

CFS @ 4224'

E/F

G

H

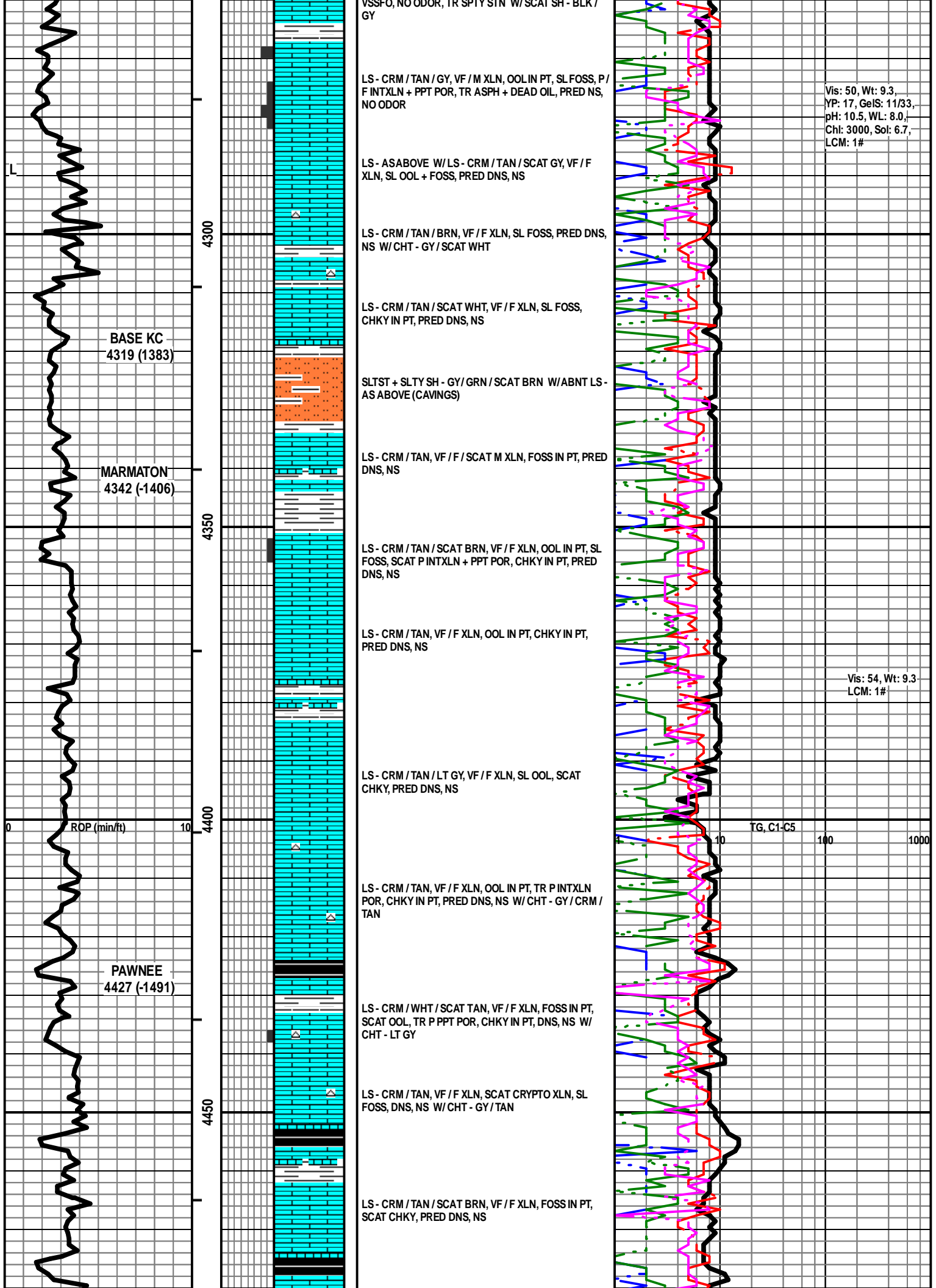
I

J

K

ROP (min/ft)

4050
4100
4150
4200
4250



VSSF-O, NO ODOR, TR SP1Y SIN W/SCAT SH - BLK / GY

LS - CRM / TAN / GY, VF / M XLN, OOL IN PT, SL FOSS, P / F INTXLN + PPT POR, TR ASPH + DEAD OIL, PRED NS, NO ODOR

LS - AS ABOVE W/LS - CRM / TAN / SCAT GY, VF / F XLN, SL OOL + FOSS, PRED DNS, NS

LS - CRM / TAN / BRN, VF / F XLN, SL FOSS, PRED DNS, NS W/CHT - GY / SCAT WHT

LS - CRM / TAN / SCAT WHT, VF / F XLN, SL FOSS, CHKY IN PT, PRED DNS, NS

SLTST + SLTY SH - GY/GRN / SCAT BRN W/ABNT LS-AS ABOVE (CAVINGS)

LS - CRM / TAN, VF / F / SCAT M XLN, FOSS IN PT, PRED DNS, NS

LS - CRM / TAN / SCAT BRN, VF / F XLN, OOL IN PT, SL FOSS, SCAT P INTXLN + PPT POR, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN / LT GY, VF / F XLN, SL OOL, SCAT CHKY, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, OOL IN PT, TR PINTXLN POR, CHKY IN PT, PRED DNS, NS W/CHT - GY / CRM / TAN

LS - CRM / WHT / SCAT TAN, VF / F XLN, FOSS IN PT, SCAT OOL, TR P PPT POR, CHKY IN PT, DNS, NS W/CHT - LT GY

LS - CRM / TAN, VF / F XLN, SCAT CRYPTO XLN, SL FOSS, DNS, NS W/CHT - GY / TAN

LS - CRM / TAN / SCAT BRN, VF / F XLN, FOSS IN PT, SCAT CHKY, PRED DNS, NS

Vis: 50, Wt: 9.3,
YP: 17, GeIS: 11/33,
pH: 10.5, WL: 8.0,
Chl: 3000, Sol: 6.7,
LCM: 1#

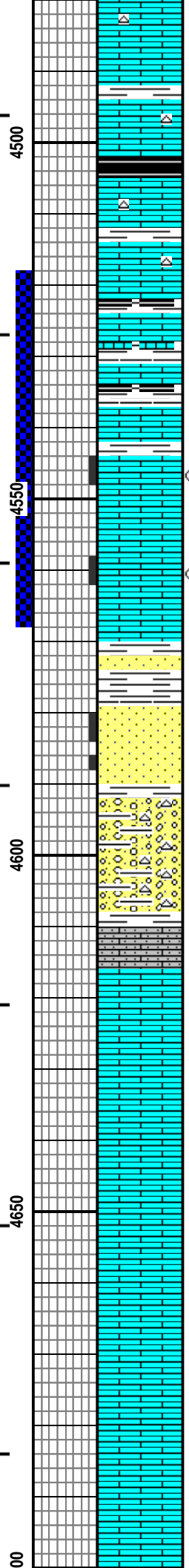
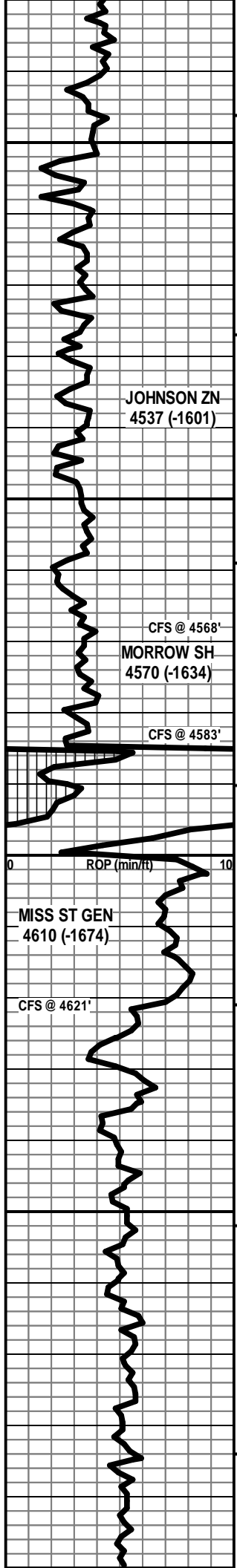
Vis: 54, Wt: 9.3
LCM: 1#

TG, C1-C5
10 100 1000

BASE KC
4319 (1383)

MARMATON
4342 (-1406)

PAWNEE
4427 (-1491)



LS - CRM / TAN / SCAT GY, MOT IN PT, VF / F XLN, OOL IN PT, SL FOSS, SUBCHKY IN PT, PRED DNS, NS W / SCAT CHT - GY / TAN

LS - CRM / TAN / BRN, VF / F XLN, OOL IN PT, SL FOSS, PRED DNS, NS W / SCAT CHT - AA

LS - CRM / TAN / BRN, VF / F XLN, OOL IN PT, SL FOSS, SCAT CHKY, PRED DNS, NS W / SCAT CHT - TAN / GY

LS - CRM / TAN / BRN, VF / F XLN, SL FOSS + OOL, SUBCHKY IN PT, PRED DNS, NS W / SH - GY / BLK

LS - CRM / TAN, VF / F XLN, OOL + FOSS IN PT, SCAT P / F VUG + INTXLN POR, SL / F SFO, FT ODOR, SAT / SPTY STN, F / G FLUOR + CUT

LS - CRM / TAN, VF / F XLN, SL FOSS, SCAT P / F INTXLN + PPT POR, TR VUG POR, SL / F SFO, F ODOR, SPTY / SAT STN, F / G FLUOR + CUT

SH - GY W / SCAT SS - LT GY, VF / F GR, SA / R, W SRD, SIL CEM, PRED P / NO VIS POR, SCAT SL / MOD FRI, NS W / SCAT AREN LS TO LMY SS - CRM / GY, NO VIS POR, NS

MOD AMT SS - AS ABOVE, P / SCAT F INTGR POR, MOD FRI IN PT, NS

CONGL: SH - GY / GRN, SLTY IN PT W / CHT - ORG / YEL / WHT / TAN, SL WEATH IN PT W / SS - AS ABOVE, LT GY / GRN W / LS - TAN / GY, VF / F XLN, DNS; NS, NO ODOR

CONGL - AS ABOVE W / LS - WHT / CRM, VF XLN, V AREN, VF QTZ GR, SCAT OOL, CHKY / DNS, NS

LS - WHT / CRM, VF XLN, V AREN IN PT, VF QTZ GR, SCAT OOL, CHKY / DNS, NS

LS - CRM / TAN / SCAT WHT, VF / F XLN, SL / MOD AREN IN PT, OOL IN PT, CHKY / DNS, NS

LS - CRM / TAN / SCAT WHT, VF / F XLN, SL AREN IN PT, OOL IN PT, CHKY / DNS, NS

LS - CRM / TAN / SCAT WHT, VF / F XLN, SCAT CRYPTO XLN, SL AREN IN PT, OOL IN PT, CHKY / DNS, NS W / SCAT CHT - TAN

LS - CRM / TAN, VF / F XLN, SL AREN IN PT, OOL IN PT, CHKY / DNS, NS W / SCAT CHT - TAN

LS - CRM / TAN / SCAT GY, VF / F XLN, SCAT CRYPTO XLN, OOL IN PT, CHKY / DNS, NS

