



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1173829  
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: \_\_\_\_\_

1173829

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

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

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

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Schroder 1-14
Doc ID	1173829

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Schroder 1-14
Doc ID	1173829

Tops

Name	Top	Datum
Base/Anhydrite	2374'	+649'
Heebner SH	3936'	-913'
Lansing	3978'	-955'
Muncie Crk Sh	4158'	-1135'
Stark Sh	4254'	-1231'
Base / KC	4372'	-1349'
Marmaton	4390'	-1367'
Pawnee	4469'	-1446'
Cherokee Sh	4517'	-1494'
Lwr Cher Sh	4547'	-1524'
Johnson Zone	4576'	-1553'
Morrow Sh	4651'	-1628'
Basal Penn Sd	4662	-1639'
Mississippian	4681	-1661





## DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation**

1625 N. Waterfront Suite #200  
Wichita KS 67206

ATTN: Dave Goldak

### **Schroder #1-14**

### **14-17s-33w Scott,KS**

Start Date: 2013.10.08 @ 05:21:15

End Date: 2013.10.08 @ 12:24:30

Job Ticket #: 54681                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.15 @ 11:58:08



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54681      **DST#: 1**  
Test Start: 2013.10.08 @ 05:21:15

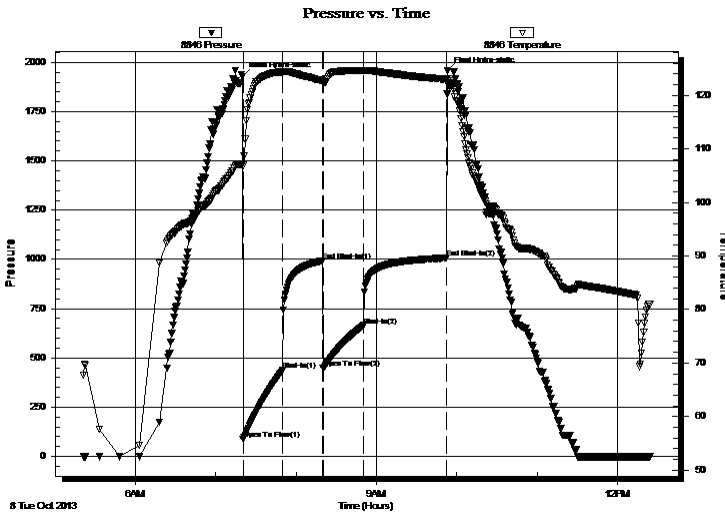
## GENERAL INFORMATION:

Formation: **LKC "C"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:20:30  
Time Test Ended: 12:24:30  
Interval: **4004.00 ft (KB) To 4037.00 ft (KB) (TVD)**  
Total Depth: 4037.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Mike Roberts  
Unit No: 65  
Reference Elevations: 3023.00 ft (KB)  
3016.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 8846      Outside**  
Press @ Run Depth: 663.97 psig @ 4005.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.08      End Date: 2013.10.08      Last Calib.: 2013.10.08  
Start Time: 05:21:15      End Time: 12:24:30      Time On Btm: 2013.10.08 @ 07:20:00  
Time Off Btm: 2013.10.08 @ 09:53:00

**TEST COMMENT:** IF:BOB in 2 min  
IS:No return blow  
FF:BOB in 3 1/2 min  
FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.22	107.00	Initial Hydro-static
1	87.72	106.96	Open To Flow (1)
30	436.23	124.38	Shut-In(1)
60	992.95	122.76	End Shut-In(1)
61	446.94	122.57	Open To Flow (2)
91	663.97	124.58	Shut-In(2)
153	1007.44	122.99	End Shut-In(2)
153	1955.90	123.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	w cm 30%w 70%m	1.74
186.00	w cm 20%w 80%m	2.61
124.00	m-w 50% m 50%w	1.74
1054.00	m csw 10% m 90%sw	14.78

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Stelbar Oil Corporation

14-17s-33w Scott, KS

1625 N. Waterfront Suite #200  
Wichita KS 67206

**Schroder #1-14**

Job Ticket: 54681

**DST#: 1**

ATTN: Dave Goldak

Test Start: 2013.10.08 @ 05:21:15

### GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:20:30

Time Test Ended: 12:24:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: **4004.00 ft (KB) To 4037.00 ft (KB) (TVD)**

Reference Elevations: 3023.00 ft (KB)

Total Depth: 4037.00 ft (KB) (TVD)

3016.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8737**

Inside

Press @ Run Depth: psig @ 4005.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.08

End Date: 2013.10.08

Last Calib.: 2013.10.08

Start Time: 05:21:15

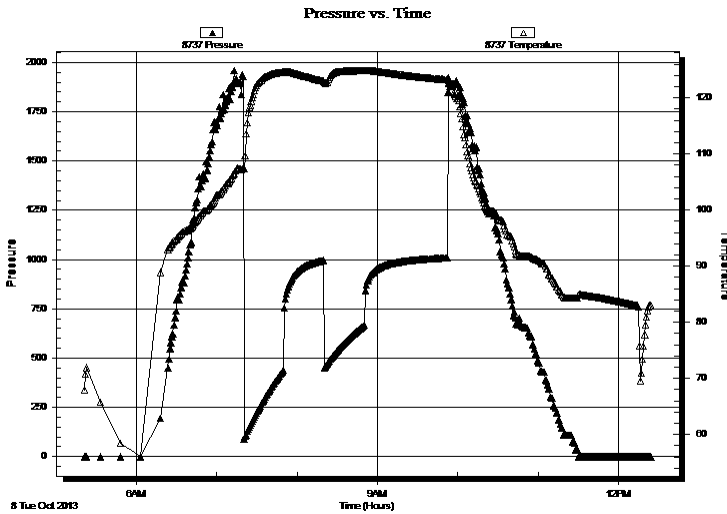
End Time: 12:24:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 2 min  
IS:No return blow  
FF:BOB in 3 1/2 min  
FS:No return blow

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	w cm 30%w 70%m	1.74
186.00	w cm 20%w 80%m	2.61
124.00	m--w 50% m 50%w	1.74
1054.00	m csw 10% m 90% sw	14.78

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54681      **DST#: 1**  
Test Start: 2013.10.08 @ 05:21:15

**Tool Information**

Drill Pipe:	Length: 3995.00 ft	Diameter: 3.80 inches	Volume: 56.04 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4004.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3974.00	
Sampler	3.00			3977.00	
Shut In Tool	5.00			3982.00	
Hydraulic tool	5.00			3987.00	
Jars	5.00			3992.00	
Safety Joint	3.00			3995.00	
Packer	5.00			4000.00	31.00      Bottom Of Top Packer
Packer	4.00			4004.00	
Stubb	1.00			4005.00	
Recorder	0.00	8737	Inside	4005.00	
Recorder	0.00	8846	Outside	4005.00	
Perforations	27.00			4032.00	
Bullnose	5.00			4037.00	33.00      Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54681      **DST#: 1**  
Test Start: 2013.10.08 @ 05:21:15

## 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: 19000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.51 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	w cm 30%w 70%m	1.739
186.00	w cm 20%w 80%m	2.609
124.00	m-w 50% m 50%w	1.739
1054.00	mcs w 10% m 90%sw	14.785

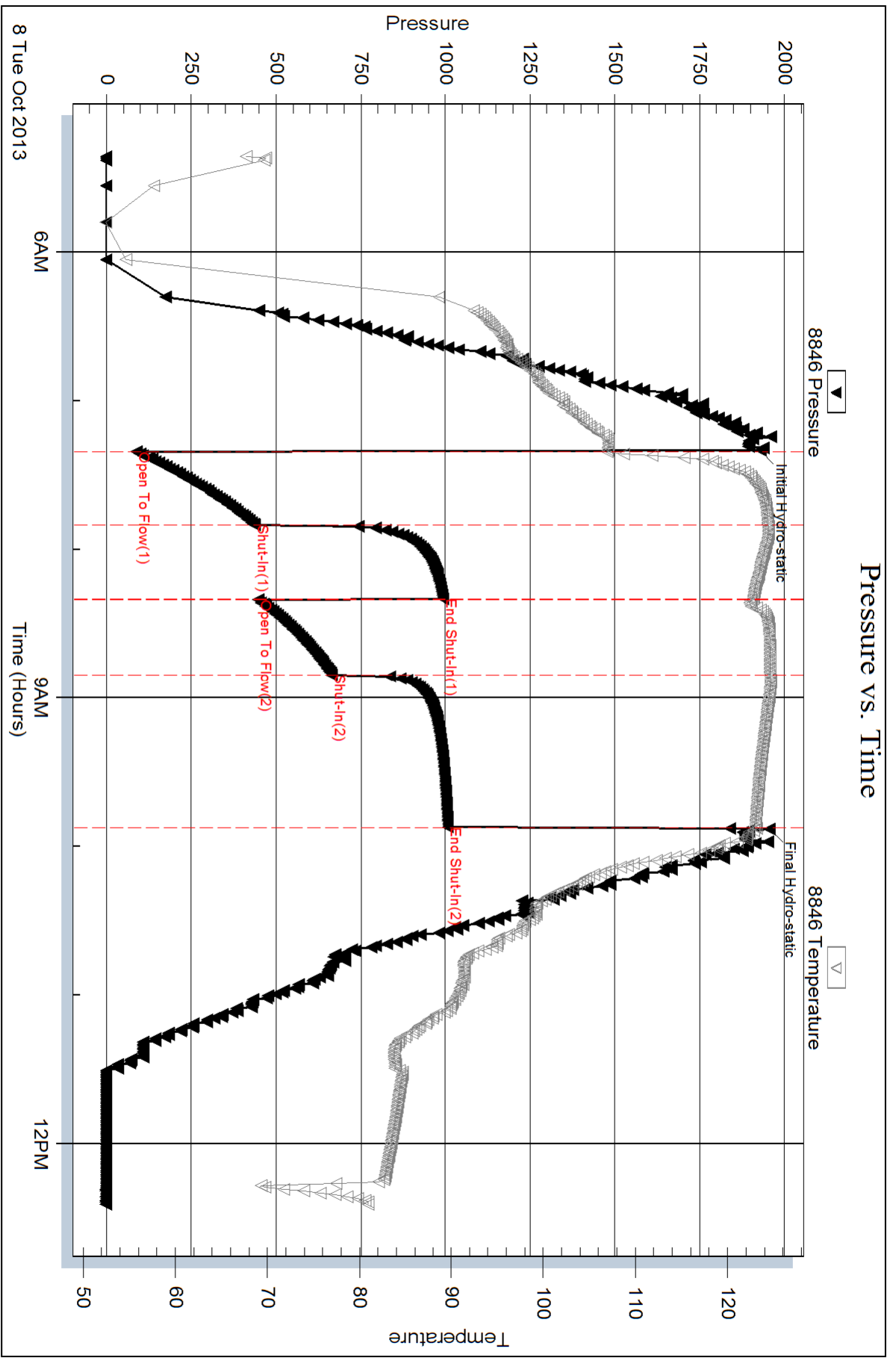
Total Length: 1488.00 ft      Total Volume: 20.872 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW= .389@67.2\*=19,000 ppm

Serial #: 8846

Outside Setbar Oil Corporation

Schroder #1-14

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54681

Printed: 2013.10.15 @ 11:58:10

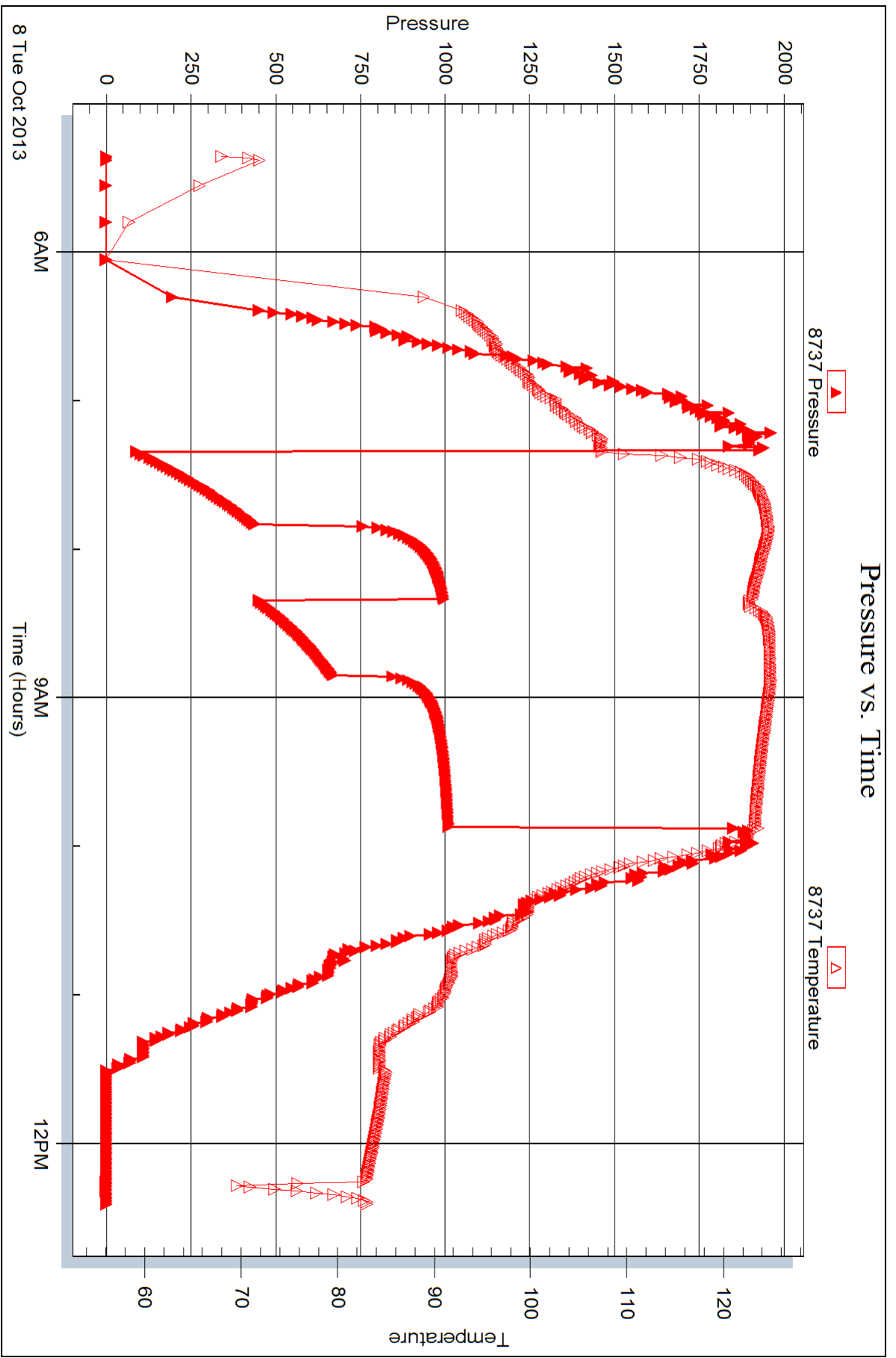
Serial #: 8737

Inside

Stelbar Oil Corporation

Schroder #1-14

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54681

Printed: 2013.10.15 @ 11:58:10



## DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation**

1625 N. Waterfront Suite #200  
Wichita KS 67206

ATTN: Dave Goldak

### **Schroder #1-14**

#### **14-17s-33w Scott,KS**

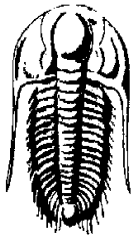
Start Date: 2013.10.09 @ 07:10:00

End Date: 2013.10.09 @ 14:42:30

Job Ticket #: 54682                      DST #: 2

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

Printed: 2013.10.15 @ 11:57:45



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Stelbar Oil Corporation

**14-17s-33w Scott, KS**

1625 N. Waterfront Suite #200  
Wichita KS 67206

**Schroder #1-14**

ATTN: Dave Goldak

Job Ticket: 54682

**DST#: 2**

Test Start: 2013.10.09 @ 07:10:00

### GENERAL INFORMATION:

Formation: **J**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:49:45

Time Test Ended: 14:42:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Mike Roberts**

Unit No: **65**

**Interval: 4222.00 ft (KB) To 4242.00 ft (KB) (TVD)**

Reference Elevations: **3023.00 ft (KB)**

Total Depth: **4242.00 ft (KB) (TVD)**

**3016.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **7.00 ft**

**Serial #: 8846**

**Outside**

Press @ RunDepth: **164.91 psig @ 4223.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2013.10.09**

End Date: **2013.10.09**

Last Calib.: **2013.10.09**

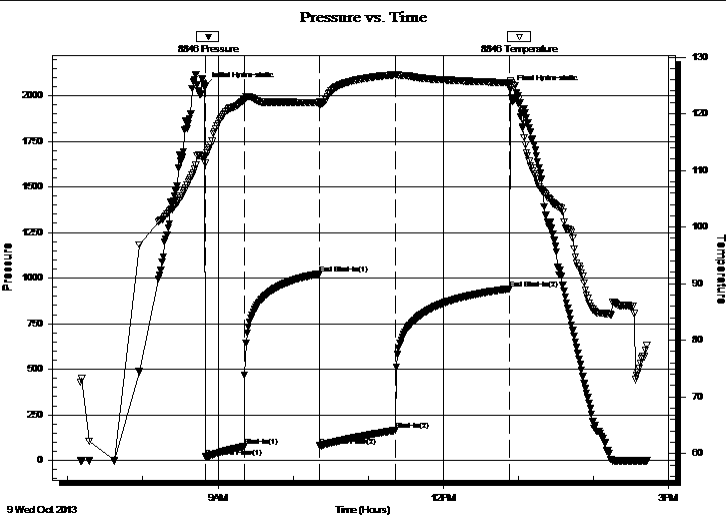
Start Time: **07:10:15**

End Time: **14:42:30**

Time On Btm: **2013.10.09 @ 08:49:30**

Time Off Btm: **2013.10.09 @ 12:53:15**

TEST COMMENT: IF:BOB in 24. min  
IS:No return blow  
FF:BOB in 50 min.  
FS:No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.26	112.43	Initial Hydro-static
1	19.94	111.24	Open To Flow (1)
32	76.93	122.43	Shut-In(1)
92	1023.71	122.02	End Shut-In(1)
92	80.48	121.53	Open To Flow (2)
152	164.91	126.87	Shut-In(2)
244	941.04	125.49	End Shut-In(2)
244	2034.72	125.77	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
62.00	w cm 10%w 90%m	0.87
310.00	mcw 30%m 70%w	4.35

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation  
 1625 N. Waterfront Suite #200  
 Wichita KS 67206  
 ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
 Job Ticket: 54682 **DST#: 2**  
 Test Start: 2013.10.09 @ 07:10:00

## GENERAL INFORMATION:

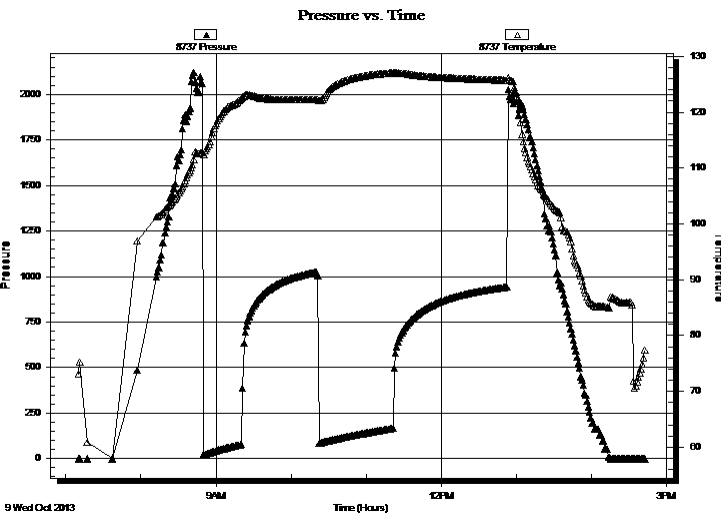
Formation: **J**  
 Deviated: **No Whipstock:** **ft (KB)**  
 Time Tool Opened: 08:49:45  
 Time Test Ended: 14:42:30  
**Interval: 4222.00 ft (KB) To 4242.00 ft (KB) (TVD)**  
 Total Depth: 4242.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 3023.00 ft (KB)  
 3016.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8737

**Inside**

Press @RunDepth: **psig @ 4223.00 ft (KB)** Capacity: 8000.00 psig  
 Start Date: 2013.10.09 End Date: 2013.10.09 Last Calib.: 2013.10.09  
 Start Time: 07:10:15 End Time: 14:42:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF:BOB in 24. min  
 IS:No return blow  
 FF:BOB in 50 min.  
 FS:No return blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	w cm 10%w 90%m	0.87
310.00	mcw 30%m 70%w	4.35

\* 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 Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54682      **DST#: 2**  
Test Start: 2013.10.09 @ 07:10:00

**Tool Information**

Drill Pipe:	Length: 4221.00 ft	Diameter: 3.80 inches	Volume: 59.21 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4222.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4192.00	
Sampler	3.00			4195.00	
Shut In Tool	5.00			4200.00	
Hydraulic tool	5.00			4205.00	
Jars	5.00			4210.00	
Safety Joint	3.00			4213.00	
Packer	5.00			4218.00	31.00 Bottom Of Top Packer
Packer	4.00			4222.00	
Stubb	1.00			4223.00	
Recorder	0.00	8737	Inside	4223.00	
Recorder	0.00	8846	Outside	4223.00	
Perforations	14.00			4237.00	
Bullnose	5.00			4242.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54682      **DST#: 2**  
Test Start: 2013.10.09 @ 07:10:00

### Mud and Cushion Information

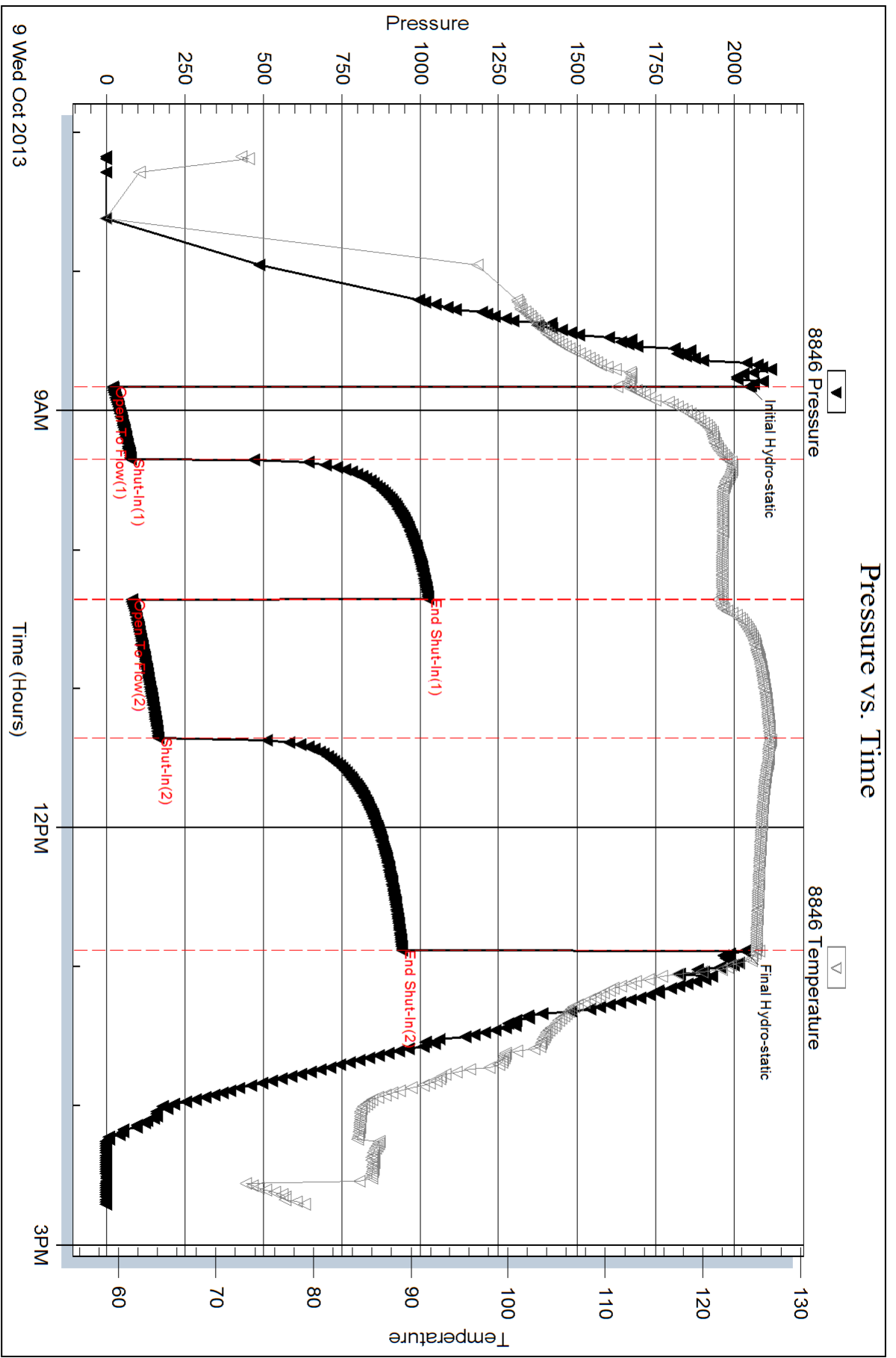
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 15000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.51 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	w cm 10%w 90%m	0.870
310.00	mcw 30%m 70%w	4.348

Total Length: 372.00 ft      Total Volume: 5.218 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW= .425@82.78=15,000 ppm



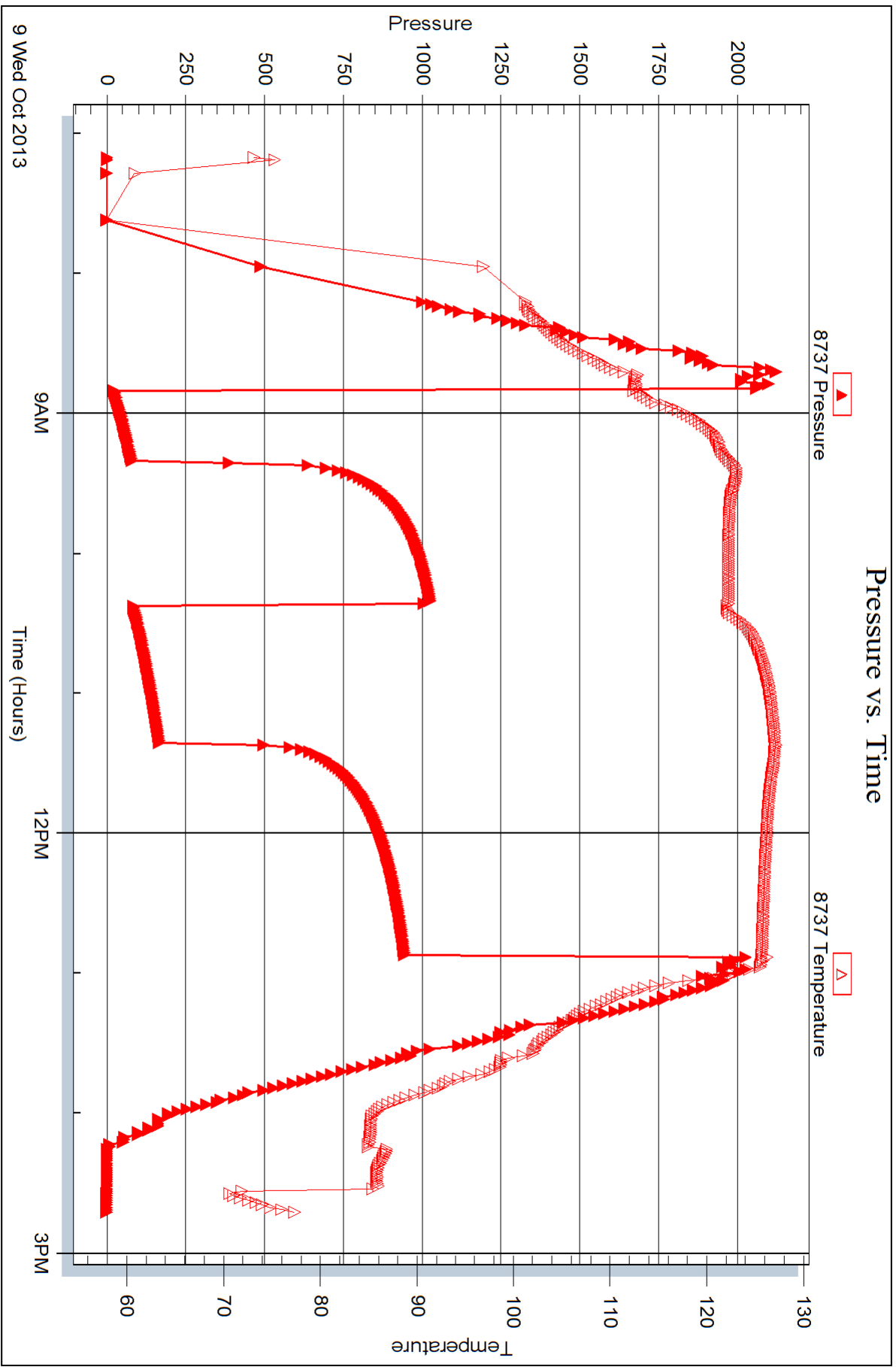
Serial #: 8737

Inside

Stelbar Oil Corporation

Schroder #1-14

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation**

1625 N. Waterfront Suite #200  
Wichita KS 67206

ATTN: Dave Goldak

### **Schroder #1-14**

### **14-17s-33w Scott,KS**

Start Date: 2013.10.09 @ 23:19:15

End Date: 2013.10.10 @ 07:11:15

Job Ticket #: 54683                      DST #: 3

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

Printed: 2013.10.15 @ 11:57:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation  
 1625 N. Waterfront Suite #200  
 Wichita KS 67206  
 ATTN: Dave Goldak

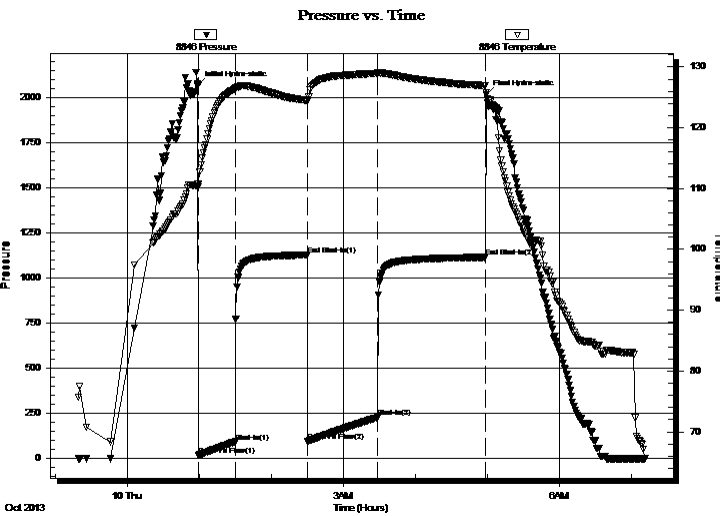
**14-17s-33w Scott,KS**  
**Schroder #1-14**  
 Job Ticket: 54683 **DST#: 3**  
 Test Start: 2013.10.09 @ 23:19:15

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **00:59:00** Tester: **Mike Roberts**  
 Time Test Ended: **07:11:15** Unit No: **65**  
**Interval: 4260.00 ft (KB) To 4290.00 ft (KB) (TVD)** Reference Elevations: **3023.00 ft (KB)**  
 Total Depth: **4290.00 ft (KB) (TVD)** **3016.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **7.00 ft**

**Serial #: 8846** **Outside**  
 Press @ Run Depth: **225.97 psig @ 4261.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.10.09** End Date: **2013.10.10** Last Calib.: **2013.10.10**  
 Start Time: **23:19:15** End Time: **07:11:15** Time On Btm: **2013.10.10 @ 00:58:45**  
 Time Off Btm: **2013.10.10 @ 04:59:15**

TEST COMMENT: IF:BOB in 18 min.  
 IS:No return blow  
 FF:BOB in 22 min.  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.02	110.74	Initial Hydro-static
1	18.85	110.24	Open To Flow (1)
31	91.90	126.35	Shut-In(1)
91	1126.78	124.52	End Shut-In(1)
92	94.57	124.31	Open To Flow (2)
150	225.97	128.99	Shut-In(2)
240	1114.33	126.95	End Shut-In(2)
241	2014.91	125.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	mcw 50% m 50% w with oil scim	0.87
248.00	mcw 10% m 90% w with oil scim	3.48
186.00	sw 100% w	2.61

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Stelbar Oil Corporation  
 1625 N. Waterfront Suite #200  
 Wichita KS 67206  
 ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
 Job Ticket: 54683 **DST#: 3**  
 Test Start: 2013.10.09 @ 23:19:15

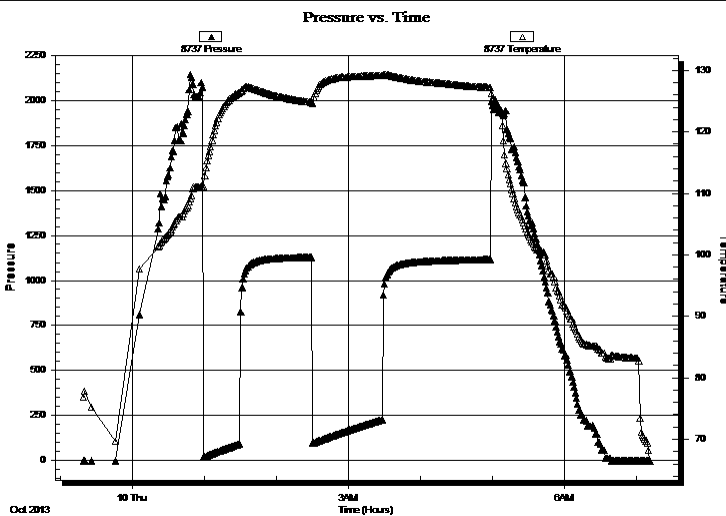
**GENERAL INFORMATION:**

Formation: **K**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 00:59:00  
 Time Test Ended: 07:11:15  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Mike Roberts**  
 Unit No: **65**  
 Interval: **4260.00 ft (KB) To 4290.00 ft (KB) (TVD)**  
 Reference Elevations: **3023.00 ft (KB)**  
 Total Depth: **4290.00 ft (KB) (TVD)**  
 3016.00 ft (CF)  
 Hole Diameter: **7.88 inches**Hole Condition: **Fair**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8737 Inside**  
 Press @RunDepth: **psig @ 4261.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2013.10.09** End Date: **2013.10.10** Last Calib.: **2013.10.10**  
 Start Time: **23:19:15** End Time: **07:11:15** Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF:BOB in 18 min.  
 IS:No return blow  
 FF:BOB in 22 min.  
 FS:No return blow

**PRESSURE SUMMARY**



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

**Recovery**

Length (ft)	Description	Volume (bbl)
62.00	mcw 50%m 50%w with oil scim	0.87
248.00	mcw 10%m 90%w with oil scim	3.48
186.00	sw 100% w	2.61

\* 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 Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54683      **DST#: 3**  
Test Start: 2013.10.09 @ 23:19:15

**Tool Information**

Drill Pipe:	Length: 4252.00 ft	Diameter: 3.80 inches	Volume: 59.64 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4260.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4230.00	
Sampler	3.00			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	3.00			4251.00	
Packer	5.00			4256.00	31.00      Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Recorder	0.00	8737	Inside	4261.00	
Recorder	0.00	8846	Outside	4261.00	
Perforations	24.00			4285.00	
Bullnose	5.00			4290.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54683      **DST#: 3**  
Test Start: 2013.10.09 @ 23:19:15

## 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: 20000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mcw 50%m 50%w with oil scim	0.870
248.00	mcw 10%m 90%w with oil scim	3.479
186.00	sw 100% w	2.609

Total Length: 496.00 ft      Total Volume: 6.958 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW= .475@ 55\*= 20,000 ppm

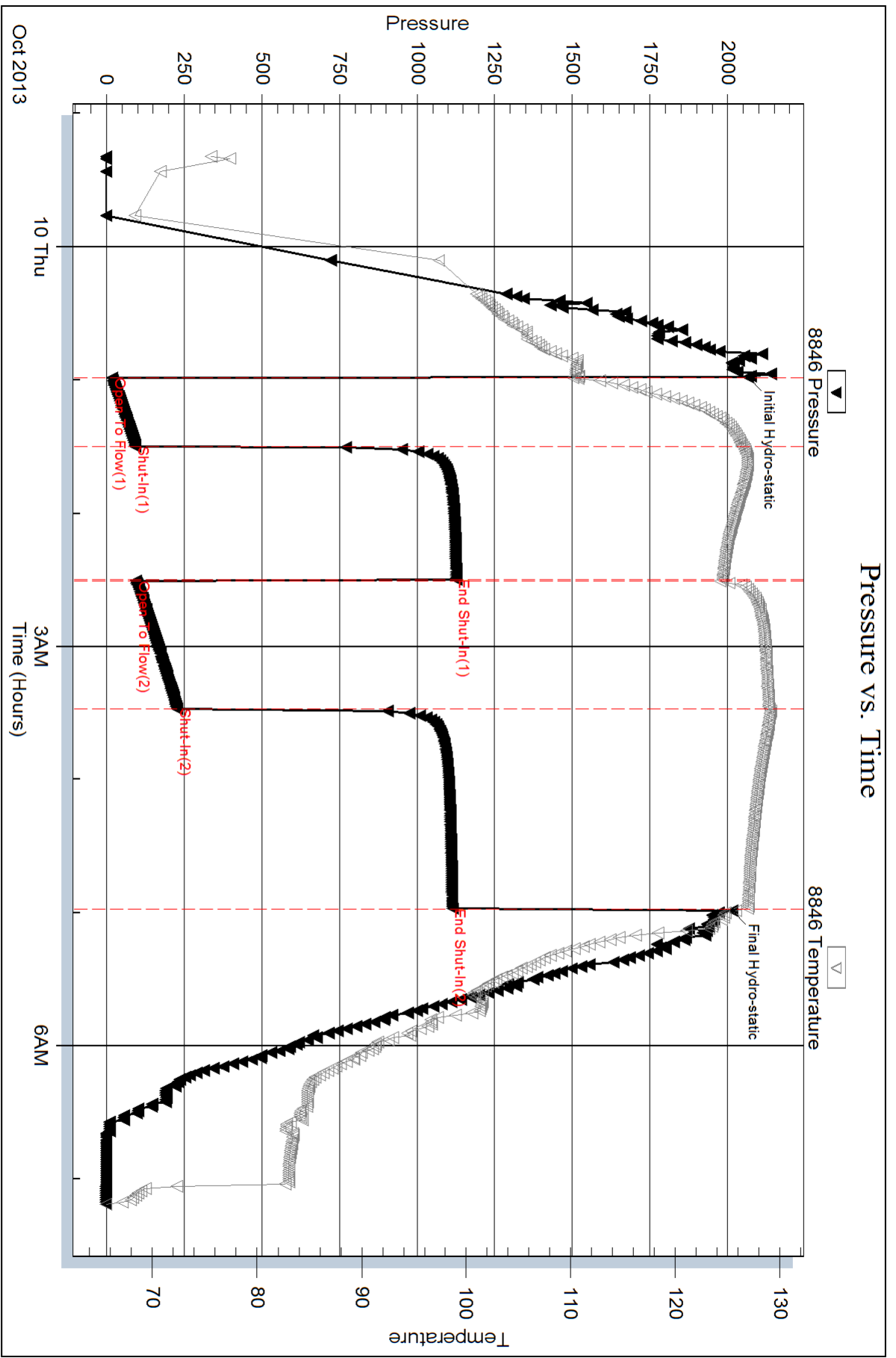


Serial #: 8846

Outside     Steibar Oil Corporation

Schroder #1-14

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54683

Printed: 2013.10.15 @ 11:57:22

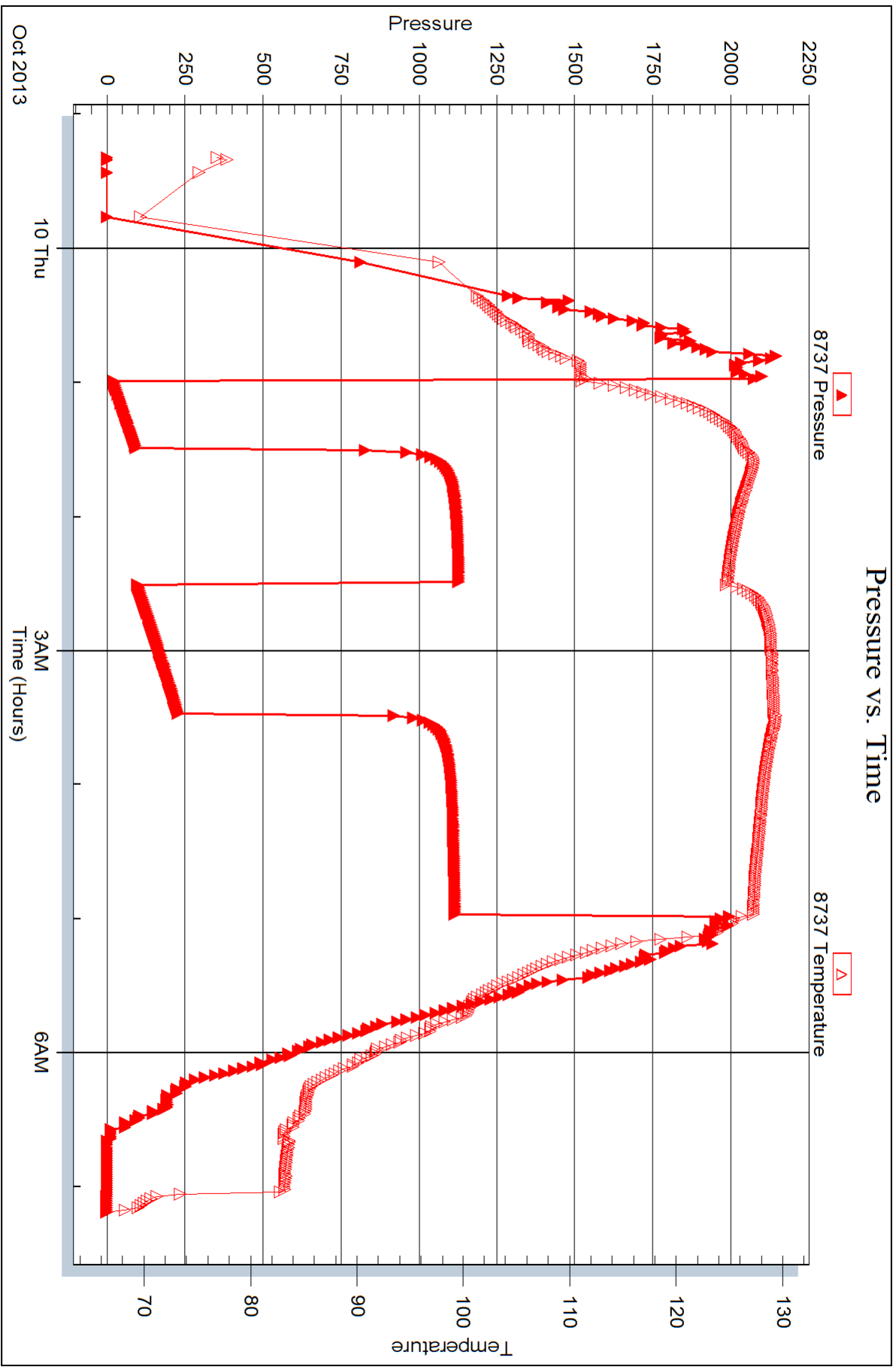
Serial #: 8737

Inside

Stelbar Oil Corporation

Schroder #1-14

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation**

1625 N. Waterfront Suite #200  
Wichita KS 67206

ATTN: Dave Goldak

### **Schroder #1-14**

### **14-17s-33w Scott,KS**

Start Date: 2013.10.11 @ 20:25:15

End Date: 2013.10.12 @ 05:34:00

Job Ticket #: 54686                      DST #: 4

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

Printed: 2013.10.15 @ 11:56:54



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation  
 1625 N. Waterfront Suite #200  
 Wichita KS 67206  
 ATTN: Dave Goldak

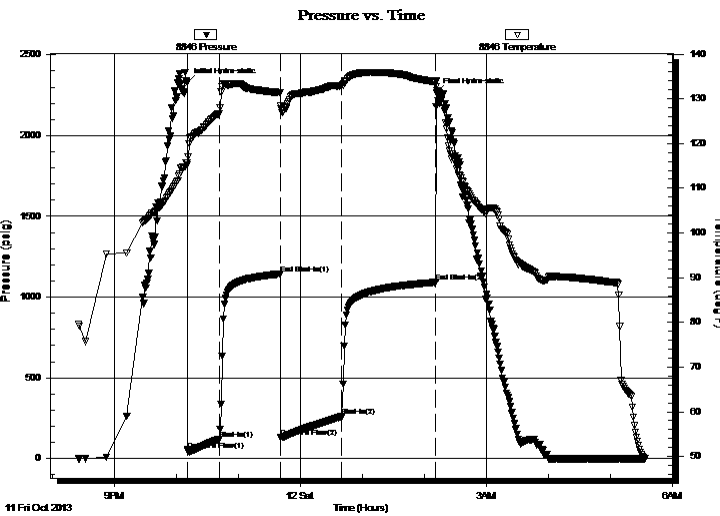
**14-17s-33w Scott,KS**  
**Schroder #1-14**  
 Job Ticket: 54686 **DST#: 4**  
 Test Start: 2013.10.11 @ 20:25:15

## GENERAL INFORMATION:

Formation: **Basal Penn Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:10:30  
 Time Test Ended: 05:34:00  
 Interval: **4642.00 ft (KB) To 4670.00 ft (KB) (TVD)**  
 Total Depth: 4670.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 3023.00 ft (KB)  
 3016.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8846 Outside**  
 Press @ Run Depth: 259.63 psig @ 4643.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.11 End Date: 2013.10.12 Last Calib.: 2013.10.12  
 Start Time: 20:25:15 End Time: 05:34:00 Time On Btm: 2013.10.11 @ 22:10:15  
 Time Off Btm: 2013.10.12 @ 02:11:45

**TEST COMMENT:** IF:BOB in 2 min.  
 IS:Bled off for 5 min, BOB in 32 min.  
 FF:BOB in 3 min.  
 FS:Bled off for 5 min, BOB in 13 min. Gas to surface in 56 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2326.38	115.77	Initial Hydro-static
1	50.39	115.33	Open To Flow (1)
32	118.63	126.79	Shut-In(1)
90	1142.78	131.37	End Shut-In(1)
91	133.48	128.50	Open To Flow (2)
150	259.63	132.90	Shut-In(2)
241	1091.76	133.71	End Shut-In(2)
242	2263.62	132.74	Final Hydro-static

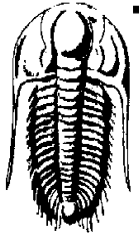
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 3720	0.00
496.00	GCO 10% G 90%O	6.96
248.00	GCO 50%G 50%O	3.48
124.00	GCOM 5%G 5%O 90%M	1.74

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

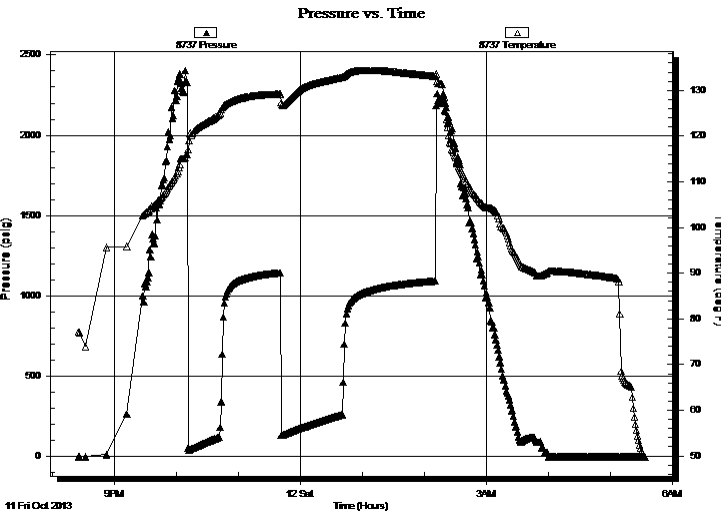
**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54686      **DST#: 4**  
Test Start: 2013.10.11 @ 20:25:15

## GENERAL INFORMATION:

Formation: **Basal Penn Sand**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:10:30  
Time Test Ended: 05:34:00  
Interval: **4642.00 ft (KB) To 4670.00 ft (KB) (TVD)**  
Total Depth: 4670.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 3023.00 ft (KB)  
3016.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 8737 Inside**  
Press @ Run Depth: psig @ 4643.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.10.11 End Date: 2013.10.12 Last Calib.: 2013.10.12  
Start Time: 20:25:15 End Time: 05:34:00 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF:BOB in 2 min.  
IS:Bled off for 5 min, BOB in 32 min.  
FF:BOB in 3 min.  
FS:Bled off for 5 min, BOB in 13 min. Gas to surface in 56 min



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 3720	0.00
496.00	GCO 10% G 90%O	6.96
248.00	GCO 50%G 50%O	3.48
124.00	GCOM 5%G 5%O 90%M	1.74

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54686      **DST#: 4**  
Test Start: 2013.10.11 @ 20:25:15

**Tool Information**

Drill Pipe:	Length: 4627.00 ft	Diameter: 3.80 inches	Volume: 64.90 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4642.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4612.00	
Sampler	3.00			4615.00	
Shut In Tool	5.00			4620.00	
Hydraulic tool	5.00			4625.00	
Jars	5.00			4630.00	
Safety Joint	3.00			4633.00	
Packer	5.00			4638.00	31.00      Bottom Of Top Packer
Packer	4.00			4642.00	
Stubb	1.00			4643.00	
Recorder	0.00	8737	Inside	4643.00	
Recorder	0.00	8846	Outside	4643.00	
Perforations	22.00			4665.00	
Bullnose	5.00			4670.00	28.00      Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Stelbar Oil Corporation  
1625 N. Waterfront Suite #200  
Wichita KS 67206  
ATTN: Dave Goldak

**14-17s-33w Scott,KS**  
**Schroder #1-14**  
Job Ticket: 54686      **DST#: 4**  
Test Start: 2013.10.11 @ 20:25:15

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 15.95 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5500.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP= 3720	0.000
496.00	GCO 10% G 90%O	6.958
248.00	GCO 50%G 50%O	3.479
124.00	GCOM 5%G 5%O 90%M	1.739

Total Length: 868.00 ft      Total Volume: 12.176 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

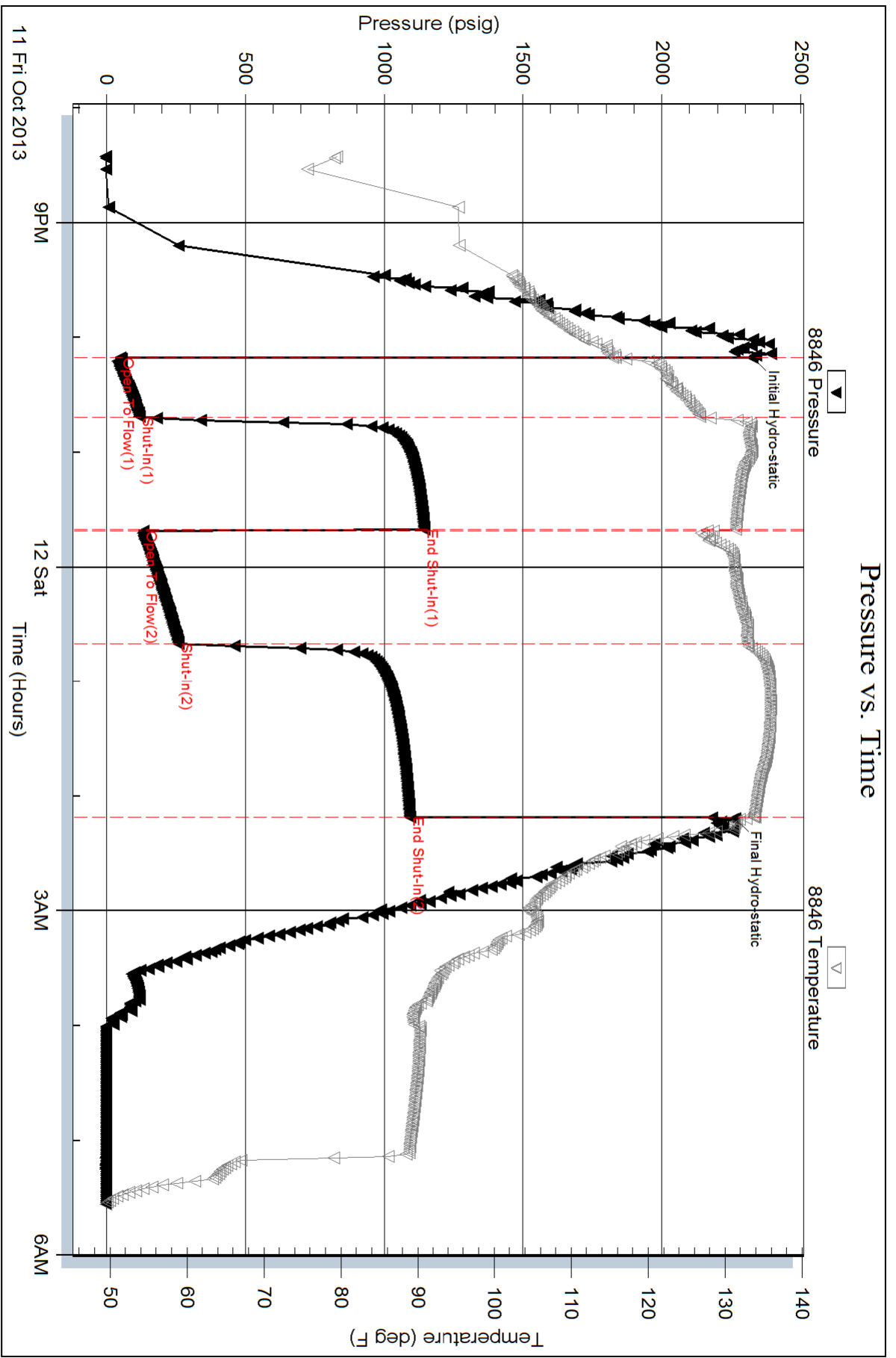
Recovery Comments: API= 27 @ 80 Corrected to 25 @ 60

Serial #: 8846

Outside     Stebar Oil Corporation

Schroder #1-14

DST Test Number: 4





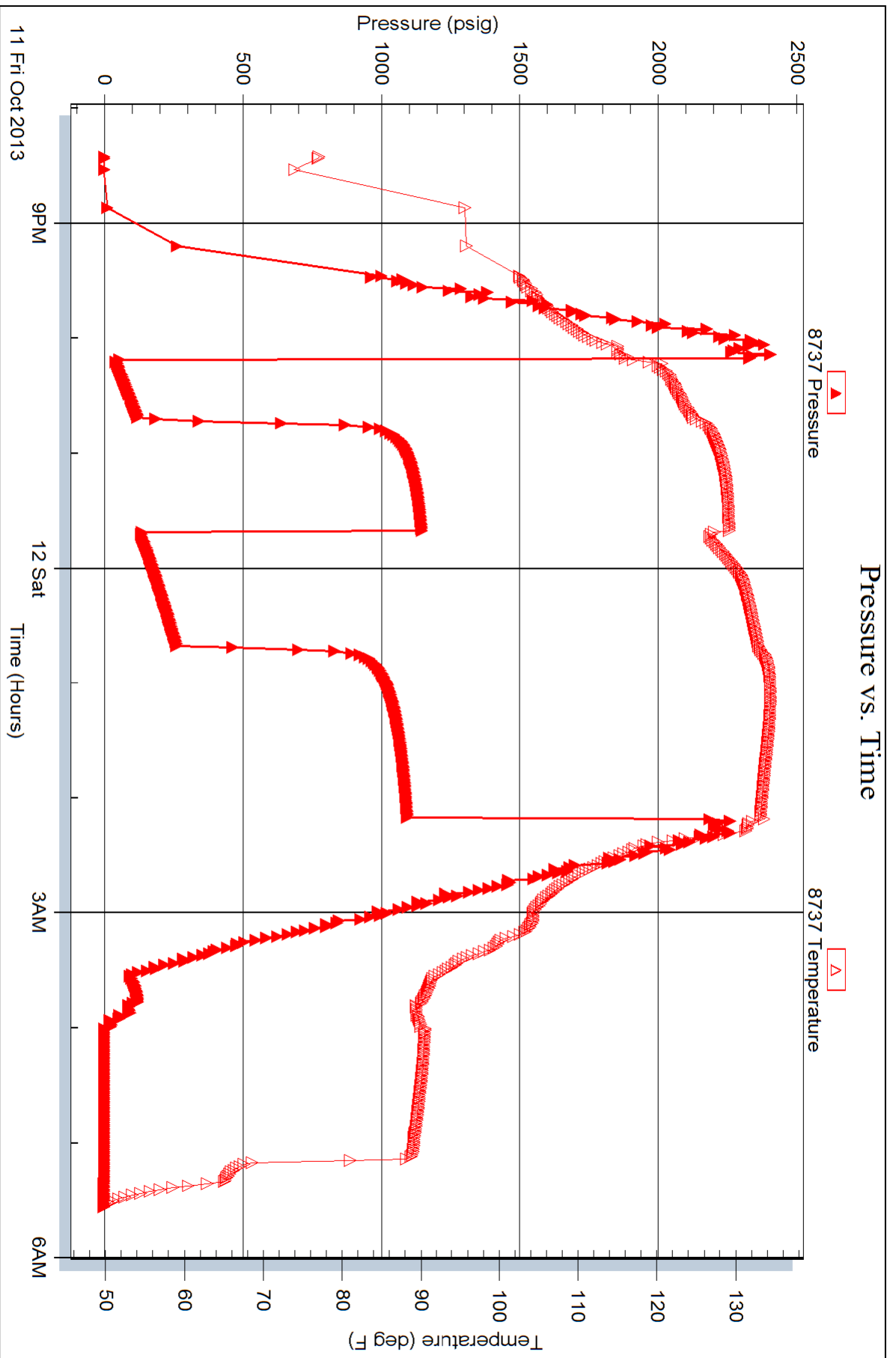
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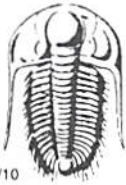
Inside

Stelbar Oil Corporation

Schroder #1-14

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **54681**

Well Name & No. Schroder #1-14 Test No. 1 Date 10-8-13  
 Company Stelbar Oil Corporation Inc. Elevation 3023 KB 3016 GL  
 Address 1625 N. Waterfront Pkwy Suite #200 Wichita KS 67206  
 Co. Rep / Geo. Dave Goldak Rig Pickrell 10  
 Location: Sec. 14 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4004-4037 Zone Tested LKC '01'  
 Anchor Length 33 Drill Pipe Run 3995 Mud Wt. 8.7  
 Top Packer Depth 4000 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 4004 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4037 Chlorides 4000 ppm System LCM 2

Blow Description IF: BOB in 2 Min  
IS: No Return Blow  
FF: BOB in 3 1/2 Min  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>186</u>	<u>WCM</u>		<u>20</u>	<u>80</u>	
<u>124</u>	<u>M-W</u>		<u>50</u>	<u>50</u>	
<u>1054</u>	<u>MCSW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1488 BHT 123 Gravity — API RW 389 @ 67.4°F Chlorides 19,000 ppm

(A) Initial Hydrostatic <u>1928</u>	<input checked="" type="checkbox"/> Test <u>1250.00</u>	T-On Location <u>04:15</u>
(B) First Initial Flow <u>87</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>05:21</u>
(C) First Final Flow <u>436</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>07:20</u>
(D) Initial Shut-In <u>992</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>09:50</u>
(E) Second Initial Flow <u>446</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:24</u>
(F) Second Final Flow <u>663</u>	<input checked="" type="checkbox"/> Mileage <u>16 RT 24.80/-</u>	Comments
(G) Final Shut-In <u>1007</u>	<input checked="" type="checkbox"/> Sampler <u>250.00</u>	
(H) Final Hydrostatic <u>1955</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  Shale Packer  
 Initial Shut-In 30  Extra Packer  
 Final Flow 30  Extra Recorder  
 Final Shut-In 30  Day Standby  
 Accessibility  
 Sub Total \$1849.80/-

Approved By [Signature] Our Representative Mike Rokob

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. 54681 Date 10-8-13  
 Company Name Stelbar Oil Corporation Inc.  
 Lease Schroder Test No. 1  
 County SCOTT Sec. 14 Twp. 17S Rng. 33W

### SAMPLER RECOVERY

Gas ∅ ML  
 Oil ∅ ML  
 Mud ∅ ML  
 Water 50 ML ML  
 Other ∅ ML  
 Pressure ∅ ML  
 Total 50 ML ML

### PIT MUD ANALYSIS

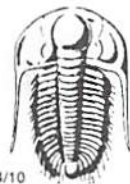
Chlorides 4000 ppm.  
 Resistivity ∅ ohms @ \_\_\_\_\_ F  
 Viscosity 54  
 Mud Weight 8.7  
 Filtrate 9.6  
~~LCM~~ Other 2  
 \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity <sup>389</sup> NA ohms @ 67.2 F  
 Chlorides 19,000 ppm.  
 Gravity NA corrected @60F

### PIPE RECOVERY

TOP  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 MIDDLE  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 BOTTOM  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54682

Well Name & No. Schroder #1-14 Test No. 2 Date 10-9-13  
 Company Stelbar Oil Corporation Inc. Elevation 3023 KB 3016 GL  
 Address 1625 N. Waterfront Pkwy Suite #200 Wichita KS 67206  
 Co. Rep / Geo. Dave Goldak Rig Pickrell 10  
 Location: Sec. 14 Twp. 17S Rge. 33W Co. SCOTT State KS

Interval Tested 4222-4242 Zone Tested "J"  
 Anchor Length 20 Drill Pipe Run 4221 Mud Wt. 8.8  
 Top Packer Depth 4218 Drill Collars Run Ø Vis 53  
 Bottom Packer Depth 4222 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4242 Chlorides 3500 ppm System LCM 2

Blow Description IF: BOB in 24 min  
IS: No Return Blow  
FF: BOB in 50 min  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>wcm</u>			<u>10</u>	<u>90</u>
<u>310</u>	<u>MCW</u>			<u>70</u>	<u>30</u>

Rec Total 372 BHT 127 Gravity API RW, 425 @ 82.7° F Chlorides 15,000 ppm  
 (A) Initial Hydrostatic 2048  Test 1250.00 T-On Location 06:00  
 (B) First Initial Flow 19  Jars 250.00 T-Started 07:10  
 (C) First Final Flow 76  Safety Joint 75.00 T-Open 08:50  
 (D) Initial Shut-In 1023  Circ Sub NC T-Pulled 12:50  
 (E) Second Initial Flow 80  Hourly Standby \_\_\_\_\_ T-Out 14:42  
 (F) Second Final Flow 164  Mileage 16 RT = 24.00/- Comments \_\_\_\_\_  
 (G) Final Shut-In 941  Sampler 250.00 \_\_\_\_\_  
 (H) Final Hydrostatic 2034  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1849.80  
 Sub Total 1849.80/- MP/DST Disc't \_\_\_\_\_

Approved By Dave Goldak Our Representative Mike Robert

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# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 54682 Date 10-9-13  
 Company Name Stelbar Oil Corporation Inc  
 Lease Schroder #1-14 Test No. 2  
 County SCOTT Sec. 14 Twp. 17S Rng. 33W

### SAMPLER RECOVERY

Gas ∅ ML  
 Oil ∅ ML  
 Mud ∅ ML  
 Water 750 ML ML  
 Other ∅ ML  
 Pressure ∅ ML  
 Total 750 ML ML

### PIT MUD ANALYSIS

Chlorides 3500 ppm.  
 Resistivity 0 ohms @ \_\_\_\_\_ F  
 Viscosity 53  
 Mud Weight 8.8  
 Filtrate 7.2  
 LCM Other 2  
 \_\_\_\_\_

### SAMPLER ANALYSIS

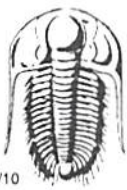
Resistivity .425 ohms @ 82.7/- F  
 Chlorides 15,000 ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

**MIDDLE**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

**BOTTOM**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54683

10-10-13

Well Name & No. Schroder # 1-14 Test No. 3 Date 10-9-13  
 Company Stelbar Oil Corporation Inc. Elevation 3023 KB 3016 GL  
 Address 1625 N. Waterfront Pkwy suite #200 Wichita KS 67206  
 Co. Rep / Geo. Dave Goldak Rig Pickrell 10  
 Location: Sec. 14 Twp. 17S Rge. 33W Co. SCOTT State KS

Interval Tested 4260 - 4290 Zone Tested R  
 Anchor Length 30' Drill Pipe Run 4252 Mud Wt. 9.1  
 Top Packer Depth 4254 Drill Collars Run 0 Vis 58  
 Bottom Packer Depth 4260 Wt. Pipe Run 0 WL 9.4  
 Total Depth 4290 Chlorides 5000 ppm System LCM 2

Blow Description IF: BOB in 18 Min  
IS: No Return Blow  
FF: BOB in 22 Min  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MCW with oil scim</u>		<u>50</u>	<u>50</u>	
<u>248</u>	<u>MCW with oil scim</u>		<u>90</u>	<u>10</u>	
<u>186</u>	<u>SW</u>		<u>100</u>		
Rec Total	<u>496</u>				

BHT 127 Gravity API RW 1.475 @ 55 °F Chlorides 20000 ppm  
 (A) Initial Hydrostatic 2066  Test 1250.00/- T-On Location 22:25  
 (B) First Initial Flow 18  Jars 250.00/- T-Started 23:19  
 (C) First Final Flow 91  Safety Joint 75.00/- T-Open 00:58  
 (D) Initial Shut-In 1126  Circ Sub NC T-Pulled 04:58  
 (E) Second Initial Flow 94  Hourly Standby \_\_\_\_\_ T-Out 07:11  
 (F) Second Final Flow 225  Mileage 16 RT = 24.80/- Comments \_\_\_\_\_  
 (G) Final Shut-In 1114  Sampler 250.00/- \_\_\_\_\_  
 (H) Final Hydrostatic 2014  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Final Flow 60  Day Standby Standby from Total \_\_\_\_\_  
 Final Shut-In 90  Accessibility #3 - #4 MP/DST Disc't \_\_\_\_\_  
 Sub Total 41849.80/-

Approved By Dave Goldak Our Representative Mike Robert

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# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 54683 Date 10-9-13 - 10-10-13  
 Company Name Stelbar Oil Corporation Inc  
 Lease Schroder # 1-14 Test No. 3  
 County SCOTT Sec. 14 Twp. 175 Rng. 33W

### SAMPLER RECOVERY

Gas ∅ ML  
 Oil ∅ ML  
 Mud ∅ ML  
 Water 800 ML ML  
 Other ∅ ML  
 Pressure ∅ ML  
 Total 800 ML ML

### PIT MUD ANALYSIS

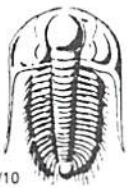
Chlorides 5000 ppm.  
 Resistivity ∅ ohms @ \_\_\_\_\_ F  
 Viscosity 58  
 Mud Weight 9.1  
 Filtrate 9.6  
 LCM 2#  
 Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity .475 ohms @ 550 F  
 Chlorides 20000 ppm.  
 Gravity NA corrected @60F

### PIPE RECOVERY

~~TOP  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 MIDDLE  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 BOTTOM  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.~~



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **54686**

Well Name & No. Schroder #1-14 Test No. 4 Date 10-11-13  
 Company Stelbar Oil Corporation Inc Elevation 3023 KB 3016 GL  
 Address 1625 N. Waterfront Pkwy Suite #200 Wichita KS 67206  
 Co. Rep / Geo. Dave Goldak Rig Pickrell 10  
 Location: Sec. 14 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4642-4670 Zone Tested Basel Penn Sand  
 Anchor Length ~~4638~~ 28 Drill Pipe Run 4627 Mud Wt. 9.3  
 Top Packer Depth ~~4642~~ 4638 Drill Collars Run 0 Vis 47  
 Bottom Packer Depth ~~4670~~ 4642 Wt. Pipe Run 0 WL 16.0  
 Total Depth 4670 Chlorides 5500 ppm System LCM 2

Blow Description IF: BOB in 2 Min  
IS: Bled off for 5 Min - BOB in 32 Min  
FF: BOB in 3 Min.  
FS: Bled off for 5 Min BOB in 13 Min GTS in 56 Min

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	Feet of <u>GIP = 3720</u>				
<u>496</u>	Feet of <u>gco-</u>	<u>10</u>	<u>90</u>		
<u>248</u>	Feet of <u>gco</u>	<u>50</u>	<u>50</u>		
<u>124</u>	Feet of <u>gcom</u>	<u>5</u>	<u>5</u>		<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud

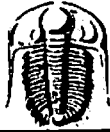
Rec Total 868 BHT 133 Gravity 25 API RW 0 @ 0 °F Chlorides 0 ppm  
 (A) Initial Hydrostatic 2326  Test 1250.00 T-On Location 12:39.  
 (B) First Initial Flow 50  Jars 250.00 T-Started 20:25  
 (C) First Final Flow 118  Safety Joint 75.00 T-Open 22:10  
 (D) Initial Shut-In 1142  Circ Sub \_\_\_\_\_ T-Pulled 02:10  
 (E) Second Initial Flow 133  Hourly Standby \_\_\_\_\_ T-Out 05:34  
 (F) Second Final Flow 259  Mileage 16 RT 24.00 - 49.60 Comments Loaded  
 (G) Final Shut-In 1091  Sampler 250.00 Tools at  
 (H) Final Hydrostatic 2263  Straddle \_\_\_\_\_ 10:30 Am 10-13-13  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 1208.33  
 Day Standby 1d 12.25h & 1d 5h Total 3082.93  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1874.60 1849.80

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

Approved By [Signature] Our Representative Mike Rotz

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# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 54686 Date 10-11-13  
 Company Name Stelbar Oil Corporation Inc.  
 Lease Schroeder #1-14 Test No. 4  
 County SCOTT Sec. 14 Twp. 17S Rng. 33W

### SAMPLER RECOVERY

Gas 1.5 Cubic feet ML  
 Oil 300 ML ML  
 Mud ∅ ML  
 Water ∅ ML  
 Other ∅ ML  
 Pressure NA ML  
 Total ~~300~~ 300 ML

### PIT MUD ANALYSIS

Chlorides 5500 ppm.  
 Resistivity ∅ ohms @ ∅ F  
 Viscosity 47  
 Mud Weight 9.3  
 Filtrate 16.0  
 LCM 2#  
 Other 2#

### SAMPLER ANALYSIS

Resistivity ∅ ohms @ ∅ F  
 Chlorides ∅ ppm.  
 Gravity 25 corrected @60F

### PIPE RECOVERY

~~TOP  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 MIDDLE  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 BOTTOM  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.~~



# BASIC ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

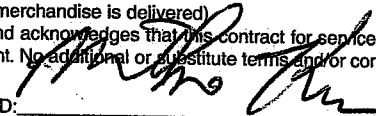
FIELD SERVICE TICKET  
1717 04301 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>10-3-13</b> DISTRICT <b>1717</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <b>Stelbar</b>		LEASE <b>Schroder # 1-14</b> WELL NO.:							
ADDRESS		COUNTY <b>Scott</b> STATE <b>Ks</b>							
CITY STATE		SERVICE CREW <b>E Mendoza, C Garcia</b>							
AUTHORIZED BY <b>J Bennett</b>		JOB TYPE: <b>242-85/8" Surface</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>34726</b>	<b>8</b>						<b>10-3-13</b>	<b>9:00</b>	
<b>27462</b>	<b>8</b>					ARRIVED AT JOB		<b>2:00</b>	
<b>14355</b>	<b>8</b>					START OPERATION		<b>4:00</b>	
<b>37725</b>	<b>8</b>					FINISH OPERATION		<b>5:00</b>	
						RELEASED		<b>6:00</b>	
						MILES FROM STATION TO WELL	<b>100</b>		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:   
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL110	Premium Plus	sk	260		4238 00
CC109	Calcium Chloride	lb	490		514 50
CC102	Cellulose	lb	66		244 20
CF153	85% Baffle Plate	ea	1		170 00
CF153	85% Wooden Plug	ea	1		160 00
E101	Heavy Equipment Mileage	mi	200		1406 00
CE240	Blending & Mixing Service	sk	260		364 00
E113	Proppant + Bulk Delivery	ton/yr	1225		1960 00
CE200	Pump Depth 0-500'	hr	1		1000 00
CE504	Plus Containers	ea	1		250 00
E100	Unit Mileage	mi	100		425 00
S003	Service Supervisor	ea	1		175 00

SUB TOTAL **\$ 7101.96**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE 	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
--	---

FIELD SERVICE ORDER NO. \_\_\_\_\_

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



# Cement Report

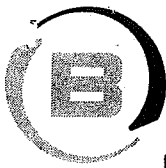
Customer	Stelbar	Lease No.		Date	10-3-13
Lease	Schwader	Well #	1-14	Service Receipt	04301
Casing	8 5/8" 24#	County	Scott	State	KS
Job Type	242-8 5/8" Surface	Legal Description	14-17-33		

Pipe Data		Perforating Data		Cement Data
Casing size	8 5/8" 24#	Tubing Size		Lead
Depth	308'	Depth	From To	Tail in 260 sk Premium Plus
Volume	Disp-16 bbl	Volume	From To	
Max Press	1000'	Max Press	From To	
Well Connection	TD-300'	Annulus Vol.	From To	
Plug Depth	55-42'	Packer Depth	From To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:00					on loc-site assesment
2:05					spot truck - rig up
3:00					start csg + float equip
4:00					csg on top, break circ
4:00					safety meeting - JSA
4:15					pressure test 2000#
4:15	200		62	4	Mix + pump 260 sk Premium Plus
					w/ 2% CC, K# PF @ 14.8 ppg - 1.34 ft <sup>3</sup> /sk
4:35	0		0	3	drop plug, disp csg
4:45	300		16	0	land plug, circ cmt to surface
					job complete

Service Units	31726	27462	14355-37725		
Driver Names	A Overa	E Mendoza	C Garcia		

M Kerr Customer Representative     
 J Bennett Station Manager     
 A Overa Cementer



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 04306 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 10-14-13	DISTRICT 1717	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER Stelbar	LEASE Schroder #114	WELL NO.					
ADDRESS	COUNTY Scott	STATE KS					
CITY	STATE	SERVICE CREW E Mendez, T Marcellus, R Brown					
AUTHORIZED BY J Bennett	JOB TYPE: 242-5 1/2 Production						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 10-14-13 8:00 AM 7:00	
34726	12					ARRIVED AT JOB 8:00 AM 8:00	
27462	12					START OPERATION 10:00 AM 10:00	
4355	12					FINISH OPERATION 4:00 PM 4:00	
37725	12					RELEASED 5:00 PM 5:00	
3817	12					MILES FROM STATION TO WELL 100 mi	
37547	12						

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:   
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL105	AA2	sk	150		2730 00
CL101	AA CON	sk	230		4278 00
CL110	Premium Plus	sk	100		1630 00
CC113	Gypsum	lb	705		528 75
CC111	Salt		829		414 50
CC103	CIS		106		1325 00
CC107	C-42P		36		288 00
CC201	Gilsumite		750		502 50
CC102	Cellulose		83		307 10
CC109	Calcium Chloride		834		880 95
CF151	5/2 Auto Fill Size	ea	1		360 00
CF601	Catch Down Plug		1		850 00
CF401	Two Stage Collar		1		6100 00
CF4452	Turbolizer		12		900 00
CF452	Basket		1		955 00
CF3000	Thread Lock		1		34 00
CL155	Superflush		500		765 00
SUB TOTAL					\$ 23058.57

CHEMICAL / ACID DATA:		

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE 	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:  (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
----------------------------	--

FIELD SERVICE ORDER NO.



Customer	<i>Stellar</i>	Lease No.		Date	<i>10-14-13</i>
Lease	<i>Schroder</i>	Well #	<i>1-14</i>	Service Receipt	<i>04306</i>
Casing	<i>5 7/8" 15.5' 4834'</i>	County	<i>Scott</i>	State	<i>KS</i>
Job Type	<i>242-5 7/8" Production</i>	Formation		Legal Description	<i>14-17-33</i>

Pipe Data		Perforating Data		Cement Data
Casing size	<i>5 7/8" 15.5'</i>	Shots/Ft		Lead
Depth	<i>4831'</i>	From	To	Tail in
Volume	<i>Disp - 114 bbl</i>	From	To	
Max Press	<i>2500 #</i>	From	To	
Well Connection	<i>TD - 4834'</i>	From	To	
Plug Depth	<i>ST-42</i>	Packer Depth	<i>DV - 2425'</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:00</i>					<i>on loc-site assessment</i>
<i>9:00</i>					<i>spot trucks - rig up</i>
<i>5:00</i>					<i>start csg + float equip</i>
<i>8:30</i>					<i>csg on stem, break circ (woo trees)</i>
<i>8:30</i>					<i>safety meeting - TSA</i>
<i>10:00</i>					<i>pressure test 2500 #</i>
<i>10:00</i>	<i>200</i>		<i>5</i>	<i>4</i>	<i>pump 5 bbl H<sub>2</sub>O spacer</i>
<i>10:02</i>	<i>200</i>		<i>12</i>	<i>4</i>	<i>pump 500 gal super flush</i>
<i>10:05</i>	<i>200</i>		<i>5</i>	<i>4</i>	<i>pump 5 bbl H<sub>2</sub>O spacer</i>
<i>10:07</i>	<i>100</i>		<i>40.3</i>	<i>5</i>	<i>mix pump 150 sk AA2 @ 14.8 #</i>
					<i>1.51 ft<sup>3</sup>/sk</i>
<i>10:20</i>					<i>wash lines</i>
<i>10:30</i>	<i>0</i>		<i>56.3</i>	<i>6</i>	<i>drop latch down plug, disp csg</i>
<i>10:40</i>	<i>900</i>		<i>57.7</i>	<i>6</i>	<i>switch to mud disp</i>
<i>10:45</i>	<i>1500</i>		<i>114</i>	<i>0</i>	<i>plug land, float held</i>
<i>11:00</i>	<i>900</i>				<i>open DV tool @ 900 # (2425')</i>
<i>11:20</i>			<i>13</i>	<i>3</i>	<i>plug rat hole w/30sk Class C</i>
<i>11:20</i>					<i>CVE woo 4hr</i>
<i>3:20</i>	<i>200</i>		<i>120.8</i>	<i>5</i>	<i>pump 230 sk A-Con @ 11.4 #</i>
					<i>2.95 ft<sup>3</sup>/sk</i>
<i>3:45</i>	<i>200</i>		<i>161.7</i>	<i>5</i>	<i>switch to tail 70 sk premium Plus</i>
					<i>@ 14.8 # - 1.34 ft<sup>3</sup>/sk</i>
<i>4:00</i>	<i>1000</i>		<i>57.7</i>	<i>6</i>	<i>disp csg, land plug float held</i>

Service Units	<i>34726</i>	<i>27462</i>	<i>38117-37517</i>	<i>94355-37725</i>	<i>0</i>
Driver Names	<i>J Owens</i>	<i>E Mendon</i>	<i>T Mercedes</i>	<i>R Brown</i>	

*R Mendon*  
Customer Representative

*J Bennett*  
Station Manager

*A Owens*  
Cementer



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 04316 A

DATE: 11-1-13 TICKET NO. 1717

DATE OF JOB: 11-1-13 DISTRICT: 1717

CUSTOMER: Stelbar

ADDRESS: [Blank]

CITY: [Blank] STATE: [Blank]

AUTHORIZED BY: J Bennett

NEW WELL  OLD WELL  PROD  INJ  WDW  CUSTOMER ORDER NO.: [Blank]

LEASE: Schröder #1-14

COUNTY: Scott STATE: KS

SERVICE CREW: E. Mendoza S. Chavez

JOB TYPE: 241- top off

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
34726	8				
27462	8				
38119	8				
19566	8				

TRUCK CALLED: 11-1-13 TIME: 6:00 AM

ARRIVED AT JOB: 8:00 AM

START OPERATION: 4:00 AM

FINISH OPERATION: 5:00 AM

RELEASED: 8:00 AM

MILES FROM STATION TO WELL: 100 mi

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature] (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL101	A-Con	sk	200		3720 00
CC109	Calcium Chloride	lb	564		592 20
CC102	Cellulose	lb	50		185 00
E746	1" Slips	ea	1		840 00
E746	1" Elevators	ea	1		622 50
E101	Heavy Equipment Mileage	mi	200		1400 00
CE240	Blending + Mixing Service	sk	200		280 00
E113	Propellant + Bulk Delivery	ton/yr	940		1504 00
CE202	Pump Depth: 1001-2000'	ea	1		1500 00
E100	Unit Mileage	mi	100		425 00
S003	Service Separator	ea	1		175 00

SUB TOTAL: \$7308.40

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE: [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO:

# Cement Report

Customer <b>Stellbar</b>	Lease No.	Date <b>11-1-13</b>
Lease <b>Schroder</b>	Well #	Service Receipt <b>04316</b>
Casing <b>5 1/2" 15.5#</b>	County <b>Scott</b>	State <b>KS</b>
Job Type <b>ZUI- top off</b>	Formation	Legal Description <b>14-17-33</b>

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size <b>1"</b>	<b>Shots/Ft</b>		<b>Lead</b>
Depth	Depth <b>1350'</b>	From	To	<b>Tail in 110sk A-Con</b>
Volume	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 (woo)
9:00					spot trucks- rig up
9:30					safety meeting- JSA
4:00					pressure test repeat
4:15		800	3	.5	pump water ahead to circ
4:30					mix & pump A-Con @ 1.4 PP3 - 2.95 #/sk
5:00		800	58	1.5	circ. cont to surface job complete

Service Units	34726	27462	38119.19516			
Driver Names	A. Overa	E. Mendez	S. Chavez			

**R. Mendonhall**      **J. Bennett**      **A. Overa**  
 Customer Representative      Station Manager      Cementer



# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Schroder #1-14  
Location: Section 14 - T17S - R33W  
License Number: API: 15-171-20983  
Spud Date: 10 / 02 / 2013  
Surface Coordinates: 2175' FSL and 2283' FWL  
Approx. NE - NE - SW  
Region: Scott Co., KS  
Drilling Completed: 10 / 13 / 2013  
Bottom Hole Coordinates:  
Ground Elevation (ft): 3016' K.B. Elevation (ft): 3023'  
Logged Interval (ft): 3700' To: 4834' Total Depth (ft): 4834'  
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	3-15s	308	308	4.00
2	7-7/8	JZ-?-PDC	6-14s	3693	3385	61.50
3	7-7/8	JZ-HA25L	3-15s	4834	1141	53.00

SURVEYS: 308'-0.50, 817'-1.00, 1505'-0.75, 1818'-1.00,  
2318'-1.00, 2818'-0.50, 3693'-0.75, 4834'-Misrun

#### 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"): 496.08'  
Pumping 68 S/M; 8.77 B/M; 650-850 psi from 3693' to 4290'.  
Pumping 59 S/M; 7.61 B/M; 700 psi below 4290'.

## Daily Status

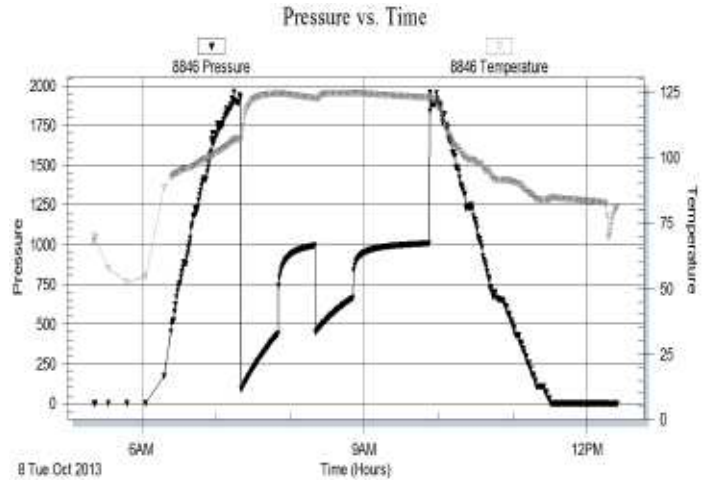
10/02/13 - Spud at 8:00 PM; Set 8-5/8" Csg at 306'  
10/03/13 - 308' WOC  
10/04/13 - 1,286' Drilling  
10/05/13 - 2,375' Drilling  
10/06/13 - 3,135' Drilling; Displace mud system @ 3,549'  
10/07/13 - 3,693' TOH for bit trip  
10/08/13 - 4,037' TIH with DST #1  
10/09/13 - 4,242' TOH for DST #2  
10/10/13 - 4,290' TOH with DST #3  
10/11/13 - 4,570' Drilling  
10/12/13 - 4,670' TIH following DST #4  
10/13/13 - 4,834' Logging

**DST #1: 4,004' - 4,037' (LKC "C")**  
30" - 30" - 30" - 60"

IF: Strong blow building to BOB in 2 minutes  
ISI: No blow back  
FF: Strong blow building to BOB in 3.5 minutes  
FSI: No blow back

RECOVERY: 1488' Total Fluid, consisting of:  
434' WCM (30% W & 70% M)  
1054' MCW (90% W & 10% M)  
Sampler: 50 ml Water; Chlorides: 19,000 ppm

SIP: 993-1007; FP: 88-436, 447-664; HP: 1928-1956;  
BHT: 123

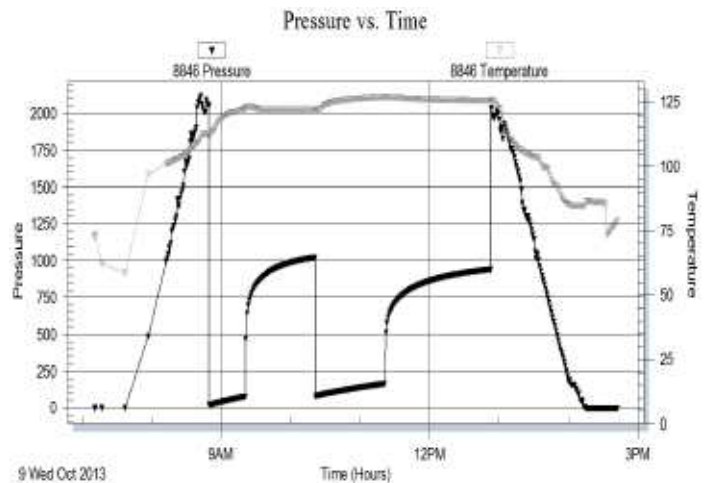


**DST #2: 4,222' - 4,242' (LKC "J")**  
30" - 60" - 60" - 90"

IF: Fair blow building to BOB in 24 minutes  
ISI: No blow back  
FF: Fair blow building to BOB in 50 minutes  
FSI: No blow back

RECOVERY: 372' Total Fluid, consisting of:  
62' WCM (10% W & 90% M)  
310' MCW (70% W & 30% M)  
Sampler: 750 ml Water; Chlorides: 15,000 ppm

SIP: 1024-941; FP: 20-77, 80-165; HP: 2048-2035;  
BHT: 127

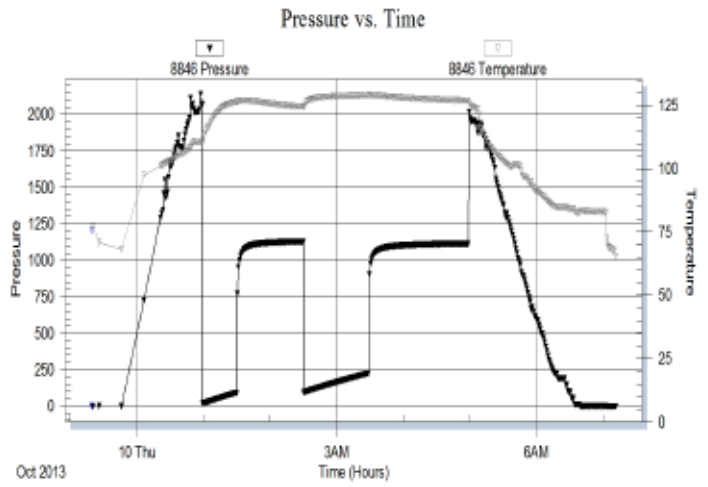


**DST #3: 4,260' - 4,290' (LKC "K")**  
 30" - 60" - 60" - 90"

**IF:** Fair blow building to BOB in 18 minutes  
**ISI:** No blow back  
**FF:** Fair blow building to BOB in 22 minutes  
**FSI:** No blow back

**RECOVERY:** 496' Total Fluid, consisting of:  
 62' MCW w/ oil scum (50% W & 50% M)  
 248' MCW w/ oil scum (90% W & 10% M)  
 186' Water (100% W)  
**Sampler:** 800 ml Water; Chlorides: 20,000 ppm

**SIP:** 1127-1114; **FP:** 19-92, 95-226; **HP:** 2066-2015;  
**BHT:** 127

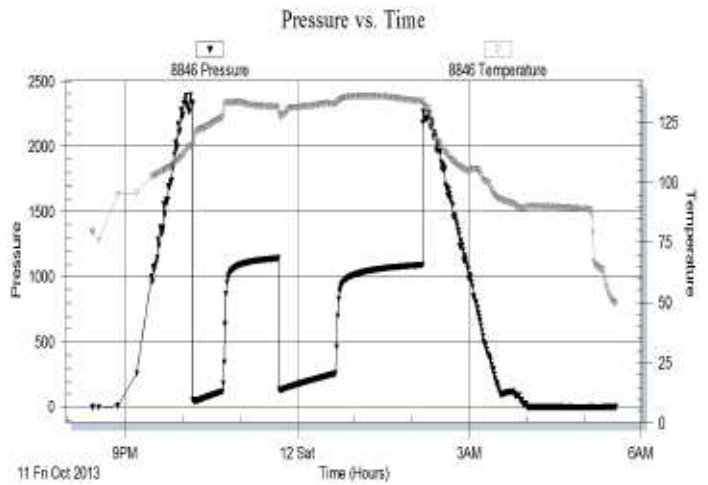


**DST #4: 4,642' - 4,670' (Basal Penn Sand)**  
 30" - 60" - 60" - 90"


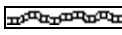
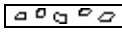
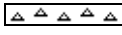
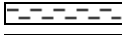



**IF:** Strong blow building to BOB in 2 minutes  
**ISI:** Blow back building to BOB in 32 minutes  
**FF:** Strong blow building to BOB in 3 minutes  
**FSI:** Blow back building to BOB in 13 minutes  
 GTS 56 minutes into FSI period





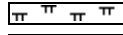


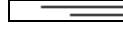
**RECOVERY:** 868' Total Fluid, consisting of:  
 744' GCO (23% G & 77% O)  
 124' GOCM (5% G, 5% O, 90% M)  
**Sampler:** 0.5 CF Gas & 300 ml Oil; Gravity: 25 API

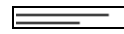






**SIP:** 1143-1092; **FP:** 50-119, 133-260; **HP:** 2326-2264;  
**BHT:** 133









**ROCK TYPES**

-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst
-  Coal
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta
-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Sltst
-  Ss
-  Till
-  Carb sh
-  Dol
-  Dtd
-  Gry sh

-  Sandylms
-  Shale
-  Sltstn
-  Shlyslts
-  Sltlysh
-  Lms

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

#### OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

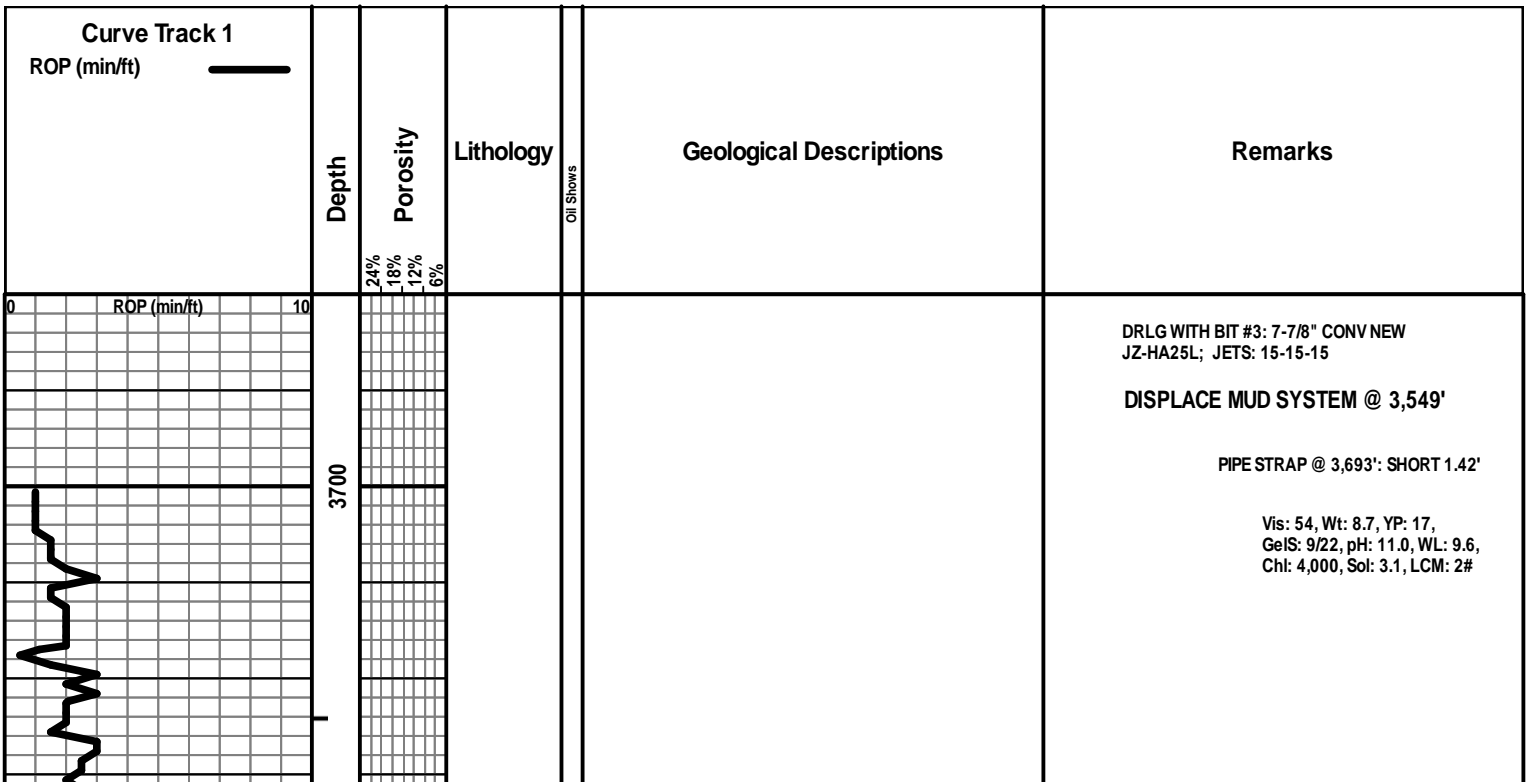
#### INTERVALS

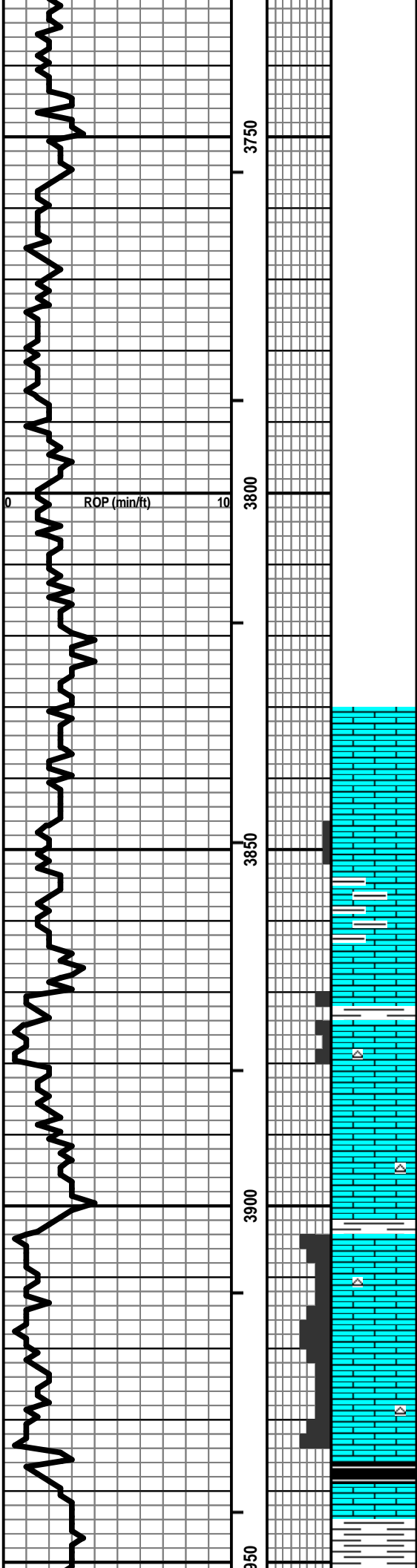
- Core
- Dst

- Dst\_1\_t
- Dst\_1\_b
- Dst

#### EVENTS

- Rft
- Sidewall
- Conn





LS - TAN / BRN / SCAT GY, MOT IN PT, VF / F XLN, SL FOSS,  
TR P FOSSMOLD POR, PRED DNS, NS

LS - TAN / GY, VF / F XLN, FOSS IN PT, SCAT P PPT + INTPART  
POR, PRED DNS, NS

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

LS - V SIMILAR TO ABOVE, PRED DNS / CHKY IN PT, NS W/  
SCAT CHT - AS ABOVE

LS - CRM / TAN, VF / F XLN, GRAN, SL FOSS, F / G VUG +  
INTPART POR + PPT POR, SCAT CHKY, NS W/ SCAT CHT -  
WHT / LT GY, FOSS

LS - AS ABOVE, NS W/ SCAT CHT - AS ABOVE

SH - BLK, CARB W/ LS - TAN, F XLN, FOSS IN PT, PRED  
DNS, NS W/ SH - LT / MED GY / GRN

Vis: 70, Wt: 8.5  
LCM: 2#

HEEBNER 3936 (-913)

**TORONTO 3954 (-931)**

**LANSING 3978 (-955)**

DST #1: 4004'-4037' (LKC "C")  
30" - 30" - 30" - 60"

IF: Strong blow, BOB in 2 min.  
ISI: No blow back  
FF: Strong blow, BOB in 3.5 min.  
FSI: No blow back

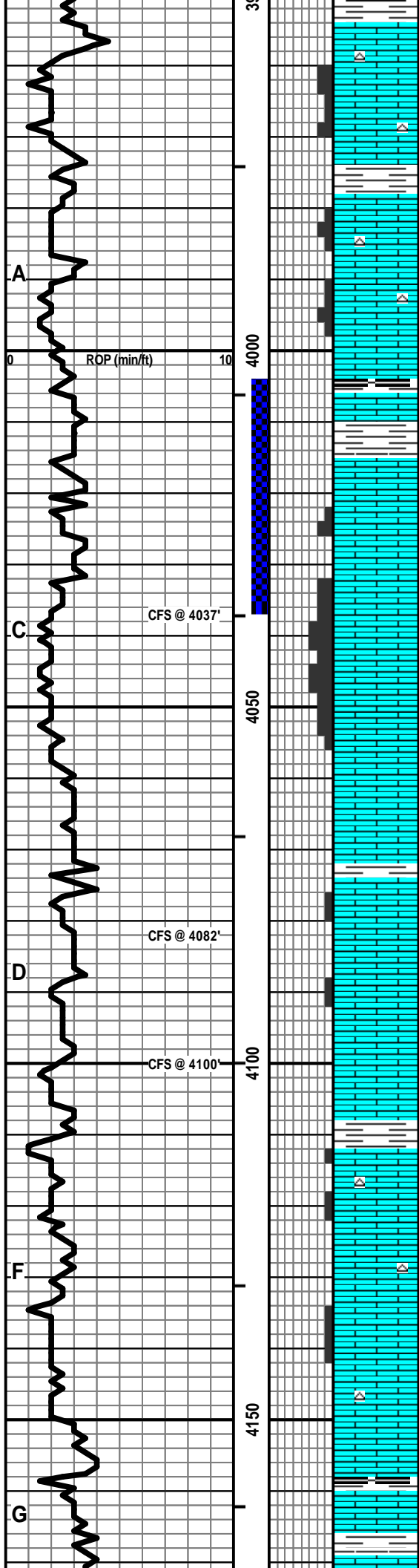
RECOVERY: 1488' Total Fluid:  
434' WCM (30% W & 70% M)  
1054' MCW (90% W & 10% M)  
Sampler: 50 ml Water; Chl: 19,000 ppm

SIP: 993-1007                      HP: 1928-1956  
FP: 88-436, 447-664            BHT: 123

Vis: 53, Wt: 8.8, YP: 16,  
GelS: 10/29, pH: 10.0, WL: 7.2,  
Chl: 3,500, Sol: 4.0, LCM: 2#

Vis: 64, Wt: 8.9  
LCM: 1#

**MUNCIE CREEK 4158 (-1135)**



LS - CRM / TAN / SCAT WHT, VF / F XLN, FOSS IN PT, GRAN IN PT, F PPT + VUG POR IN PT, SUBCHKY IN PT, NSFO, NO ODOR, SCAT DEAD OIL FLKS + STN W/ SCAT CHT - WHT / LT GY

LS - CRM / TAN / WHT, F XLN, FOSS, OOL IN PT, SCAT P / TR F PPT + FOSSMOLD POR, NSFO, NO ODOR, SCAT SPTY STN, SOME DEAD / FLKY W/ CHT - WHT / LT GY W/ SOME CAVINGS

LS - ASABOVE, SCAT P / TR F VUG + INTXLN POR, CHKY IN PT, NS

LS - CRM / TAN, VF / F XLN, FOSS IN PT, CHKY IN PT, PRED DNS, NS W/ SH - GY / GRN

LS - CRM / WHT, F XLN, OOL, FOSS IN PT, TR PPT + FOSSMOLD POR, PRED DNS, NS

LS - CRM / TAN / SCAT WHT, F / M XLN, OOL, SCAT P / F INTOOL / INTXLN + VUG POR, SL / F SFO, TR GB, F ODOR, SPTY / SAT STN, SCAT PSFO / BARR, PRED G FLUOR + CUT

LS - ASABOVE, P / G INTXLN + VUG POR, SSFO, V FT ODOR, SCAT SPTY STN, MOD ABNT BARR POR

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

LS - CRM / TAN, VF / F / SCAT M XLN, OOL + FOSS IN PT, P / SCAT F INTXLN + PPT POR IN PT, TR FO, NO ODOR, TR SPTY STN, SCAT DULL FLUOR, NO CUT

LS - CRM / TAN, PRED VF / F XLN, OOL + FOSS IN PT, P / SCAT F INTXLN + PPT POR IN PT, SCAT CHKY, TR FO, NO ODOR, TR SPTY STN, TR DULL FLUOR, NO CUT

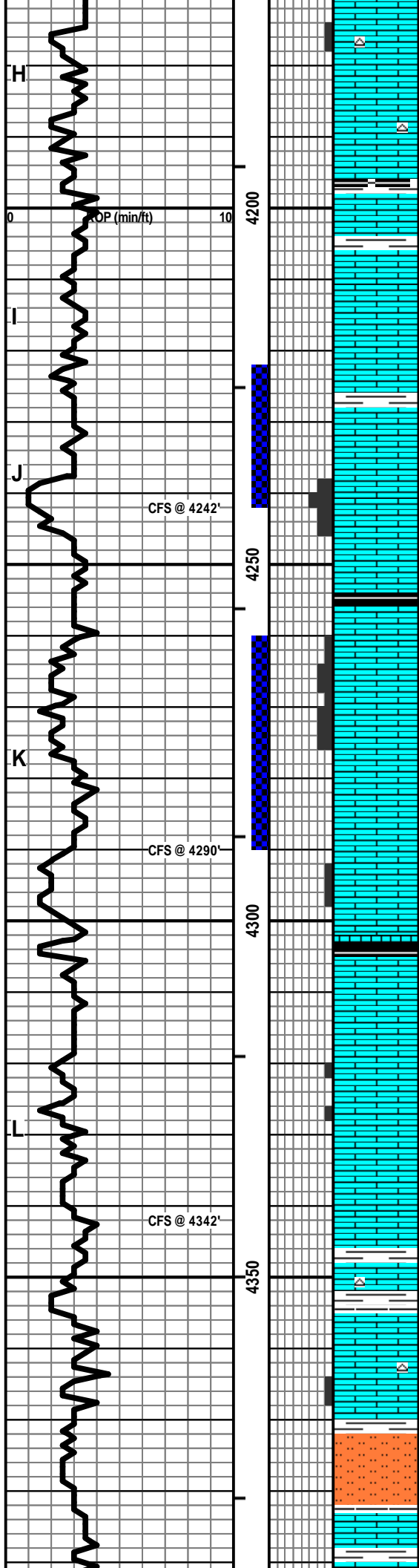
LS - ASABOVE, SCAT P / F VUG POR, NS

LS - CRM / LT GY, MOT IN PT, F XLN, OOL IN PT, SL FOSS, SCAT INTPART + VUG POR, NS W/ CHT - WHT / LT GY

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

LS - ASABOVE, PRED DNS / CHKY IN PT

LS - CRM / TAN / GY, MOT, VF / F XLN, OOL IN PT, TR P INTXLN POR, PRED DNS, TR FO, FT ODOR, TR SPTY STN, TR DULL FLUOR, NO CUT



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

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

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

LS - CRM / TAN, F XLN, FOSS IN PT, SCAT P INTXLN POR, PRED DNS, VSSFO, FT ODOR, SCAT SPTY STN, SCAT F FLUOR, F / G CUT

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

LS - AS ABOVE W/ LS - CRM / GY, F XLN, OOL, FOSS IN PT, SCAT P / F OOM + INTXLN POR, NS, NO ODOR

LS - CRM / GY / SCAT TAN, F XLN, OOL + FOSS IN PT, SCAT P / F INTXLN + PPT POR, TR VUG POR, SUBCHKY IN PT, SL / F SFO, F ODOR, PRED SPTY / SCAT SAT STN, F / G FLUOR, PRED G CUT

LS - V SIMILAR TO ABOVE, SUBCHKY IN PT, PRED DNS, NS, NO ODOR

LS - CRM / GY, VF / F XLN, FOSS IN PT, SCAT OOL, SCAT P INTXLN + VUG POR, SUBCHKY IN PT, NS, NO ODOR

LS - CRM / TAN / SCAT GY, VF / F XLN, SCAT M REXLN CALC, OOL IN PT, PRED DNS, NS

LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, SCAT FOSS + OOL, TR P INTXLN POR, SUBCHKY / CHKY IN PT, PRED DNS, NSFO, V FT ODOR, TR SPTY STN, SCAT DULL FLUOR, PRED NO CUT

LS - CRM / GY / SCAT TAN, VF / F XLN, SL FOSS, SCAT OOL, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT W/ SH - GY / GRN / BLK

LS - SIMILAR TO ABOVE, TR PINTXLN / INTPART POR, TR OIL FILM, NSFO, V FT ODOR, TR SPTY STN, PRED NS

SH - GY / GRN / SCAT RED / SCAT BLK W/ SLTST - GY / SCAT GRN, CALC IN PT

SLTST - GY / SCAT GRN, CALC IN PT W/ LS - GY / SCAT BRN, F XLN, SCAT M REXLN CALC, PRED DNS, NS

DST #2: 4222'-4242' (LKC "J")  
30" - 60" - 60" - 90"

IF: Fair blow, BOB in 24 min.  
ISI: No blow back  
FF: Fair blow, BOB in 50 min.  
FSI: No blow back

RECOVERY: 372' Total Fluid:  
62' WCM (10% W & 90% M)  
310' MCW (70% W & 30% M)  
Sampler: 750 ml Water; Chl: 15,000 ppm

SIP: 1024-941 HP: 2048-2035  
FP: 20-77, 80-165 BHT: 127

Vis: 58, Wt: 9.1, YP: 22,  
GelS: 13/41, pH: 9.0, WL: 9.6,  
Chl: 5,000, Sol: 5.4, LCM: 2#

### STARK SHALE 4254 (-1231)

DST #3: 4260'-4290' (LKC "K")  
30" - 60" - 60" - 90"

IF: Fair blow, BOB in 18 min.  
ISI: No blow back  
FF: Fair blow, BOB in 22 min.  
FSI: No blow back

RECOVERY: 496' Total Fluid:  
62' MCW w/ oil scum (50% W, 50% M)  
248' MCW w/ oil scum (90% W, 10% M)  
186' SW (100% W); Chl: 20,000 ppm  
Sampler: 800 ml Water

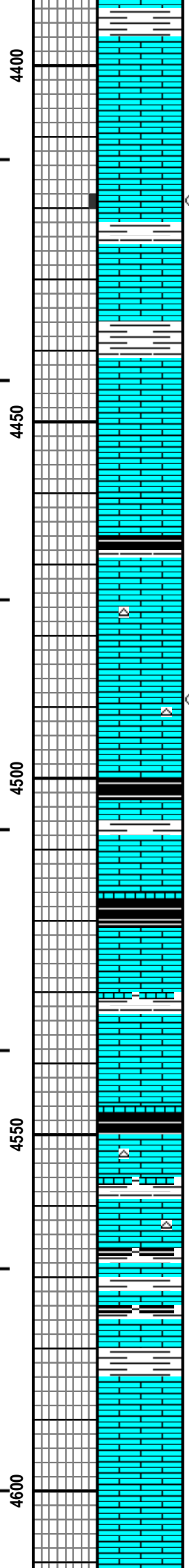
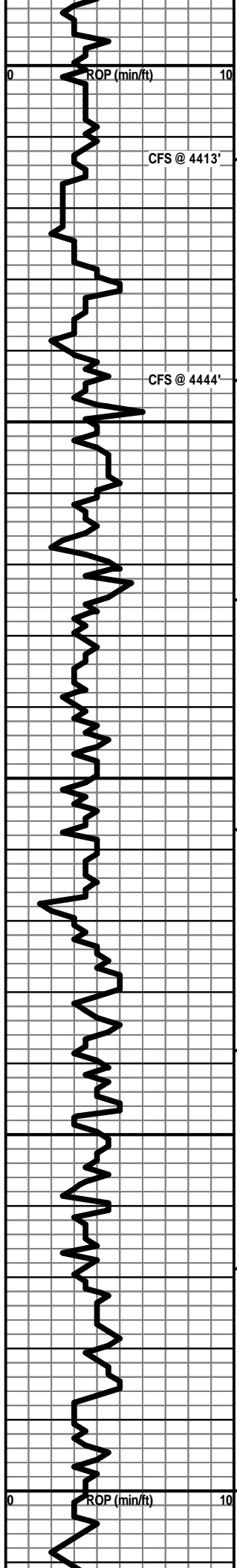
SIP: 1127-1114 HP: 2066-2015  
FP: 19-92, 95-226 BHT: 127

AT 4290': REDUCE PUMP  
RATE TO 59 S/M; 7.61 B/M;  
650 PST AT THE STANDPIPE

Vis: 50, Wt: 9.1, YP: 20,  
GelS: 14/39, pH: 10.0, WL: 10.4,  
Chl: 6,000, Sol: 5.4, LCM: 2#

### BASE OF KC 4370 (-1347)

### MARMATON 4390 (-1367)



LS - ASABOVE W/SH - PRED GY / GRN

LS - CRM / TAN / SCAT WHT, VF XLN, FOSS IN PT, SCAT OOL, CHKY IN PT, PRED DNS, NO VIS POR, NSFO, NO ODOR, TR SPTY STN, NO FLUOR, NO CUT

LS - CRM / TAN, VF / F XLN, OOL IN PT, SCAT P / F INTXLN / INTPART + VUG POR, SSFO, V FT ODOR, SCAT SPTY / TR SAT STN, P / G FLUOR + CUT (POR & SHOW 5% OF SAMPLES) W/SH - LT / DK GY

LS - CRM / LT GY / SCAT TAN, VF / F XLN, BREC IN PT, OOL IN PT, SL FOSS, PRED DNS, TR POR ASABOVE, TR SHOW AS ABOVE + DEAD BLK FLKS, V FT ODOR, TR STN ASABOVE (CAVINGS?) W/SH - LT / MED / DK GY

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

LS - ASABOVE, NO VIS POR, NS

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

LS - CRM, VF / F XLN, GRAN IN PT, SL FOSS, P / NO VIS POR, VSSFO, NO ODOR, TR SPTY STN W/ SCAT CHT - MED / DK GY

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

LS - TAN / BRN, VF XLN, SCAT REXLN CALC, OOL, PRED DNS, NS

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

LS - TAN / BRN, VF / F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - GY W/SH - BLK / GY

(FAIR SAMPLE QUALITY - MOD ABNT CAVINGS)  
LS - CRM / TAN, VF / F XLN, SL FOSS + OOL, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - GY W/ABNT SH - GY / GRN / BLK / RED

(POOR SAMPLE QUALITY - ABNT CAVINGS)  
LS - CRM / TAN, VF / F XLN, SCAT REXLN CALC, FOSS IN PT, PRED DNS, NS

(POOR SAMPLE QUALITY - ABNT CAVINGS)  
LS - CRM / TAN, MOT IN PT, VF / F XLN, SL FOSS, SUBCHKY IN PT, PRED DNS, NS W/ SCAT LS - TAN / GY, MOT, F XLN, FOSS, PRED DNS, NS

Vis: 51, Wt: 9.1  
LCM: 2#

**PAWNEE 4469 (-1446)**

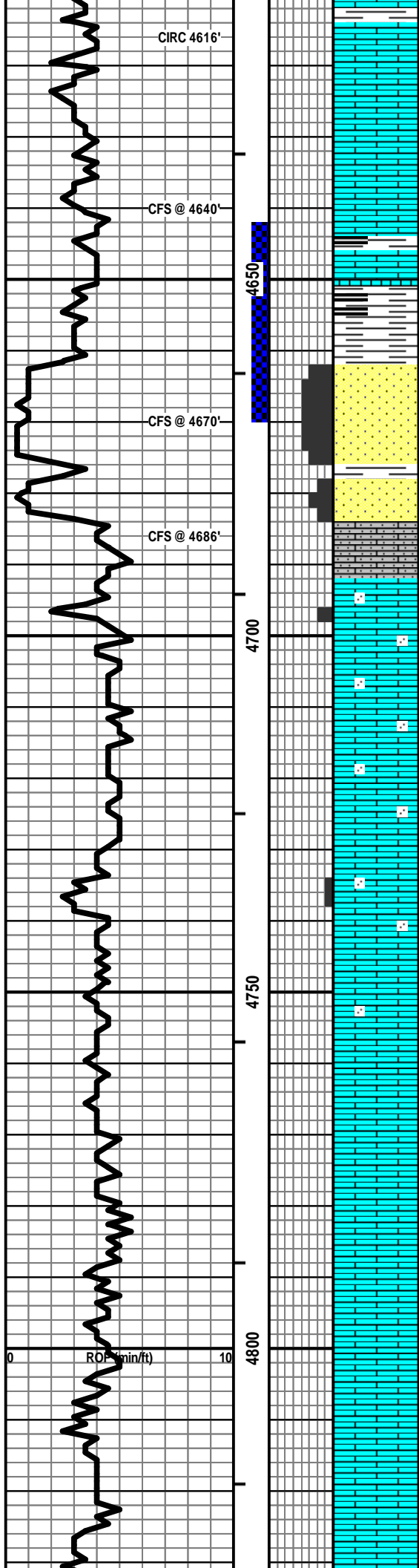
**CHEROKEE SH 4517 (-1494)**

Vis: 63, Wt: 9.2  
LCM: 1#

**JOHNSON ZONE 4576 (-1553)**

Vis: 47, Wt: 9.3, YP: 36,  
GelS: 34/42, pH: 9.0, WL: 16.0,  
Chl: 5,500, Sol: 6.8, LCM: 2#





LS - CRM / TAN / SCAT BRN, VF / F XLN, RARE M XLN + REXLN CALC, FOSS, OOL IN PT, PRED NO VIS POR, FEW PCES P / F INTXLN + PPT POR, VSSFO, V FT ODOR, SPTY STN, F FLUOR + CUT

LS - CRM / TAN, VF / F XLN, FOSS, OOL IN PT, PRED DNS, NS, NO ODOR

LS - CRM / TAN, F XLN, FOSS, SCAT P / F INTXLN + PPT / SM VUG POR (<5% OF SAMPLE), VSSFO, FT ODOR, SPTY STN, F FLUOR + CUT W/ SH - GY / GRN

ABNT SH - GY / GRN, SLTY IN PT W/ LS - AS ABOVE

SS - LT GY, VF / F / SCAT M QTZ GR, W SRTD, SR / R, SIL CEM, TR CLAY MAT IN PT, F / G INTGR POR, MOD / V FRI, F / G SFO, SSG, G ODOR, PRED SAT STN, G FLUOR + CUT

(VERY POOR SAMPLE QUALITY)  
 ABNT SH - RED / GY W/ SCAT SS - AS ABOVE, F / G SFO + STN W/ SCAT SS - LT / MED GY / SCAT CRM, MOT IN PT, VF / F / M GR, W / FW SRTD, SA / R, SIL CEM, MOD / ABNT PYR IN PT, P / G INTGR POR, FRI IN PT, NS W/ SCAT SS - LT GY / CLR / WHT, VF / F / SCAT M GR, FW SRTD, SA / R, CALC CEM, P / G INTGR POR, FRI IN PT, NS, NO ODOR W/ SCAT LS (ST GEN) - WHT / CRM, V AREN, VF QTZ GR, PRED DNS, NS

(VERY POOR SAMPLE QUALITY)  
 ABNT SH - RED / GY W/ SCAT LS (ST LOUIS) - WHT / CRM, VF XLN, AREN, VF / C QTZ GR, MED SIZE OOL, PRED DNS, TR P / F INTOOL / INTPART POR, SSFO, TR GB, NO ODOR, SPTY / SAT STN, F / G FLUOR, G CUT W/ SCAT LS (ST GEN) - AS ABOVE

(VERY POOR SAMPLE QUALITY)  
 ABNT SH - RED / GY W/ SCAT LS - CRM / WHT, VF / F XLN, AREN IN PT, SCAT OOL, SUBCHKY IN PT, PRED DNS, NS

(POOR SAMPLE QUALITY)  
 ABNT SH - RED / GY W/ MOD ABNT LS - CRM / TAN / WHT, VF / F XLN, OOL IN PT, SCAT AREN, PRED DNS, TR P INTOOL / INTPART POR, PSFO, NO ODOR, QUES SPTY STN

(FAIR / GOOD SAMPLE QUALITY 4750' TO 4800')  
 LS - CRM / TAN / SCAT WHT, VF / F XLN, OOL IN PT, SCAT AREN, SCAT CHKY, PRED DNS, NS

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

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

(POOR SAMPLE QUALITY 4800' TO RTD)  
 ABNT SH - RED / GY W/ LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NO VIS POR, NS

ABNT SH - RED / GY W/ LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NO VIS POR, NS

FLUIDS DUE TO INADEQUATE SUPPLY OF FRESH WATER THROUGH EARLY MORNING HOURS; SAMPLE QUALITY VERY POOR FROM 4,580'; FRESH WATER DELIVERED BY 9:00 AM; STOP AND CIRC AT 4,616' TO PREPARE AND ADD PREMIX; RESUME DRILLING AFTER THE ADDITION OF ONE PREMIX; PREPARE TO ADD A SECOND PREMIX ASAP; SAMPLES MUCH IMPROVED.

**MORROW SH 4651 (-1628)**

**SANDSTONE 4662 (-1639)**

**MISS. ST GEN 4684 (-1661)**

Vis: 42, Wt: 9.0, YP: 11,  
 GelS: 9/24, pH: 9.5, WL: 10.0,  
 Chl: 6,000, Sol: 4.7, LCM: 2#

**DST #4: 4642'-4670' (BASAL PENN SAND)**  
 30" - 60" - 60" - 90"

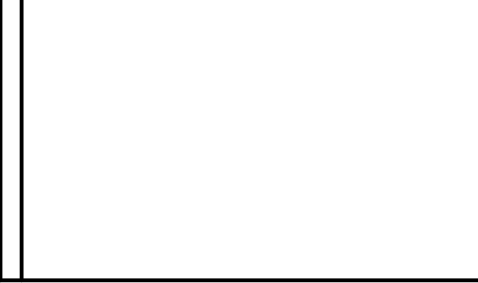
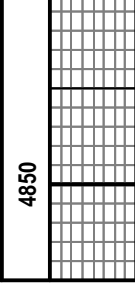
**IF: Strong blow bldg to BOB in 2 min.**  
**ISI: Blow back bldg to BOB in 32 min**  
**FF: Strong blow bldg to BOB in 3 min.**  
**FSI: Blow back bldg to BOB in 13 min**  
**GTS 56 min into FSI period**

**RECOVERY: 868' Total Fluid:**  
**744' GCO (23% G, 77% O)**  
**124' GOCM (5% G, 5% O, 90% M)**  
**Sampler: 0.5 CF Gas & 300 ml Oil**  
**Gravity: 25 API**

**SIP: 1143-1092      HP: 2326-2264**  
**FP: 50-119, 133-260      BHT: 133**

Vis: 64, Wt: 9.1  
 LCM: 1#

Vis: 64, Wt: 9.2  
 LCM: 1#



**TOTAL DEPTH 4834 (-1811)**

10/12/2013 AT 10:45 PM