



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1195972  
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: \_\_\_\_\_

1195972

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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Fenwick 1-35
Doc ID	1195972

All Electric Logs Run

Dual Induction
Neutron
Micro
Sonic
Cement Bond

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Fenwick 1-35
Doc ID	1195972

Tops

Name	Top	Datum
Heebner	3395	-1407
L-KC	3504	-1516
Stark Shale	3695	-1707
BKC	3741	-1753
Conglomerate	3785	-1797
Simpson Sand	3884	-1896
Arbuckle	3924	-1936
TD	4025	-2037



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7071

Date	2-20-14	Sec.	35	Twp.	21	Range	16	County	Pawnee	State	KS	On Location		Finish	4:15 PM
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Location Pawnee Rock 4W to 80 Ave 2 1/2 S

Lease Fenwick Well No. 1-35 Owner Winto

Contractor Sterling  
Type Job Surface  
Hole Size 13 1/4 T.D. 1000'  
Csg. 8 5/8 Depth 990'  
Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_  
Tool \_\_\_\_\_ Depth \_\_\_\_\_

To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Shelby Resources

Cement Left in Csg. 34.11 Shoe Joint 34.11 Cement Amount Ordered 450 ~~40~~ 3% cc 2% gel

Meas Line \_\_\_\_\_ Displace 62 bbl

**EQUIPMENT**

Pumptrk <u>18</u> No. _____	Cementer Helper <u>Cody</u>	Common <u>270</u>
Bulktrk <u>12</u> No. _____	Driver <u>Clayton</u> <u>Ryan</u>	Poz. Mix <u>130</u>
Bulktrk <u>Pu</u> No. _____	Driver <u>Brett</u>	Gel. <u>9</u>
		Calcium <u>17</u>

**JOB SERVICES & REMARKS**

Remarks: \_\_\_\_\_  
Rat Hole \_\_\_\_\_  
Mouse Hole \_\_\_\_\_  
Centralizers \_\_\_\_\_  
Baskets \_\_\_\_\_  
D/V or Port Collar \_\_\_\_\_

Hulls \_\_\_\_\_  
Salt \_\_\_\_\_  
Flowseal 112#  
Kol-Seal \_\_\_\_\_  
Mud CLR 48 \_\_\_\_\_  
CFL-117 or CD110 CAF 38 \_\_\_\_\_  
Sand \_\_\_\_\_

Handling 476  
Mileage \_\_\_\_\_

Cement 8 5/8 **FLOAT EQUIPMENT**

Guide Shoe \_\_\_\_\_

Centralizer \_\_\_\_\_

Baskets - 1

AFU Inserts \_\_\_\_\_

Float Shoe \_\_\_\_\_

Latch Down \_\_\_\_\_

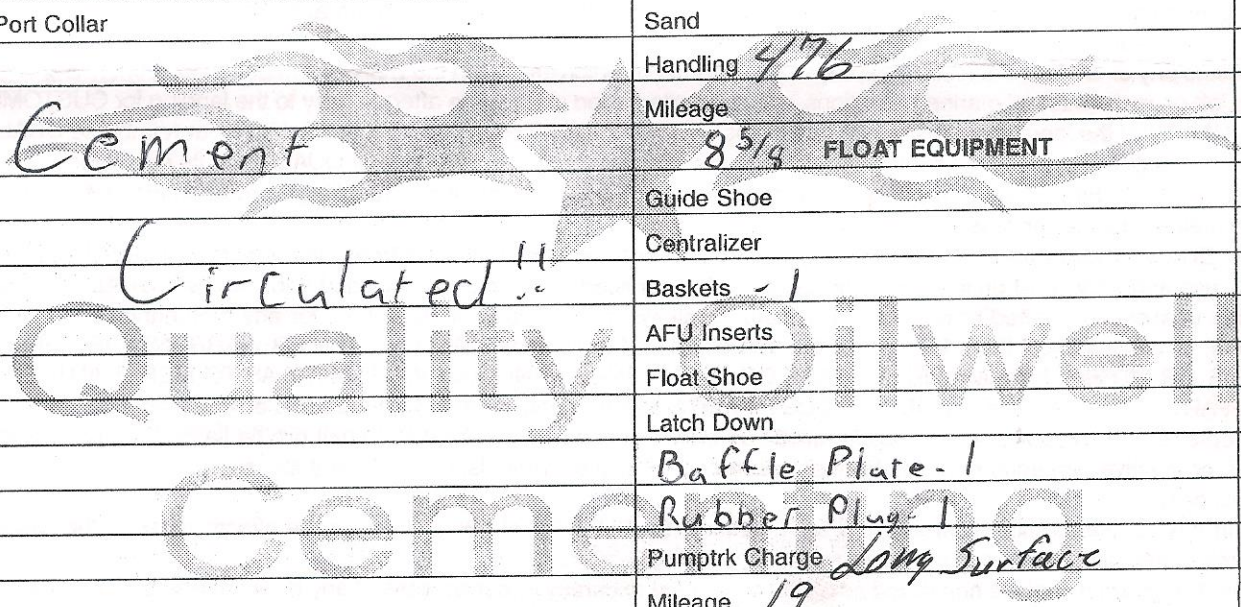
Baffle Plate - 1

Rubber Plug - 1

Pumptrk Charge Long Surface  
Mileage 19

Tax \_\_\_\_\_  
Discount \_\_\_\_\_  
Total Charge \_\_\_\_\_

X Signature Alex Leptis



Customer Shelby Resources, LLC	Lease No.	Date 2-27-14
Lease Fonwick	Well # 1-35	
Field Order # 10131	Station Pratt, Kansas	Casing 3 1/2" 14Lb.
		Depth 4014 Feet
Type Job C.N.W. - Long string	Formation	County Pawnee
		State Kansas
		Legal Description 35-215-16W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 3 1/2" 14Lb./ft.	Tubing Size 2 3/8" 9.5Lb./ft.	Shots/Ft 50	sacks/60 50	Acid 40 Poz Blend	Pre Pad cement	RATE Max	PRESS 258	ISIP 5 Min.
Depth 4014 Feet	Depth 4014 Feet	From 100	To sacks AA2	Pad cement with .5%	Pre Pad fluid loss	Min	258	10 Min.
Volume 48 Bbl.	Volume 48 Bbl.	From 1.258	To Gas Blk.	Frac .25Lb./stk cellflite	Frac 5Lb./stk. Gilsonite	Avg	44 Gal./stk.	15 Min.
Max Press 1500 P.S.I.	Max Press 1500 P.S.I.	From	To	Frac 15.3Lb./Gal.	Frac 1.36 CU.FT./stk.	HHP Used	30 sacks	Annulus Pressure
Well Connection Plug on Lainer	Annulus Vol. 3493 Feet	From 50	To Additional	Flush 97.4 Bbl. Fresh Water	Flush 97.4 Bbl. Fresh Water	Gas Volume	20 sacks	Total Load

Customer Representative Chris Gotschalt	Station Manager Kevin Gordley	Treater Clarence R. Messick
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Service Units	37216	19889	19843	19831	19862
Driver Names	Messick	Masquez	Hamby		

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00					Trucks on location and hold safety meeting.
12:00					Steering Drilling start to run Auto Fill Float Shoe. Shoe Joint with Latch Down Baffle screwed into collar and a total of 96 Joints now 14Lb/Ft. 5 1/2" casing. A Basket was installed on top of Guide Shoe. A Turbolizer was installed on collars #2, 3, 5 and #6.
2:30					Casing in well. Circulate for 1 hour.
3:33		2,000			Shut in well. Pressure Test. Open Well.
3:37	400			5	Start mixing 50 sacks 60/40 Poz for scavenger.
	400		10	5	Start mixing 100 sacks AA2 Blend cement.
			34		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.
3:48	150			6.5	Start Fresh Water Displacement.
			78	4	Start to lift cement.
4:05	800		97.4		Plug down.
	1,500				Pressure up.
					Release pressure. Float Shoe hold.
			7-5	3	Plug Rat and Mouse holes.
					Wash up pump truck.
5:00					Job Complete.
					Thank You.
					Clarence, Edmundo, Terry



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd Suite C  
Hays Ks, 67601

ATTN: Jeremy Schwartz

### **Fenwick #1-35**

#### **35/21s/16w/Pawnee**

Start Date: 2014.02.22 @ 22:00:00

End Date: 2014.02.23 @ 05:00:30

Job Ticket #: 19203                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.02.23 @ 05:42:30





# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal Blvd Suite C  
 Hays Ks. 67601  
 ATTN: Jeremy Schwartz

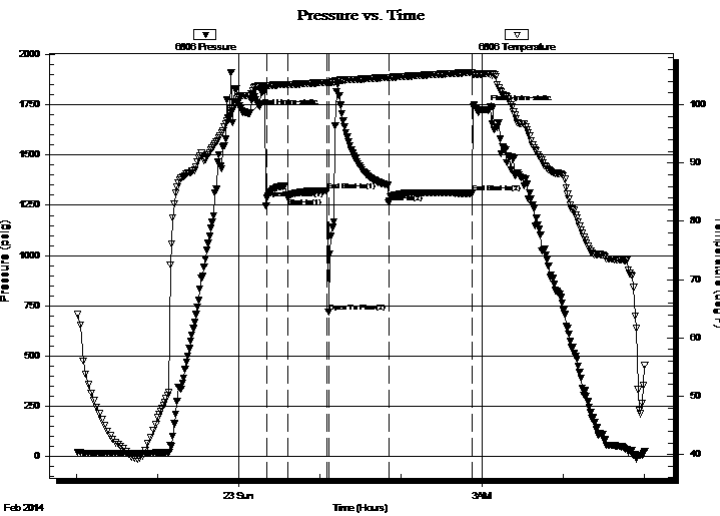
**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19203      **DST#: 1**  
 Test Start: 2014.02.22 @ 22:00:00

## GENERAL INFORMATION:

Formation: **LKC "B-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:21:00  
 Time Test Ended: 05:00:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Interval: **3535.00 ft (KB) To 3563.00 ft (KB) (TVD)**  
 Reference Elevations: 1988.00 ft (KB)  
 Total Depth: 3535.00 ft (KB) (TVD) 1975.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 6806 Inside**  
 Press@RunDepth: 1263.28 psig @ 3559.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.22 End Date: 2014.02.23 Last Calib.: 2014.02.23  
 Start Time: 22:00:00 End Time: 05:00:30 Time On Btm: 2014.02.23 @ 00:08:30  
 Time Off Btm: 2014.02.23 @ 03:01:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Weak surface blow.  
 1st Shut In/ 30 Minutes. No blow back.  
 2nd Open/ 45 Minutes. No blow, flushed tool had good flush bubbles and gained a weak surface blow.  
 2nd Shut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.76	101.56	Initial Hydro-static
13	1284.63	103.20	Open To Flow (1)
28	1285.31	103.44	Shut-In(1)
57	1323.34	103.84	End Shut-In(1)
58	717.41	103.72	Open To Flow (2)
103	1263.28	104.65	Shut-In(2)
164	1310.39	105.54	End Shut-In(2)
173	1726.18	105.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.02

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19203

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2014.02.22 @ 22:00:00

## Tool Information

Drill Pipe:	Length: 3218.00 ft	Diameter: 3.80 inches	Volume: 45.14 bbl	Tool Weight: 2000.00 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: 299.19 ft	Diameter: 2.25 inches	Volume: 1.47 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 46.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.19 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3535.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Pressures may possibly be inaccurate due to possible issues with the shut in tool.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3512.00	
Hydraulic tool	5.00			3517.00	
Jars	6.00			3523.00	
Safety Joint	2.00			3525.00	
Top Packer	5.00			3530.00	
Packer	5.00			3535.00	28.00 Bottom Of Top Packer
Anchor	23.00			3558.00	
Recorder	1.00	6806	Inside	3559.00	
Recorder	1.00	8159	Outside	3560.00	
Bull Plug	3.00			3563.00	28.00 Anchor Tool
<b>Total Tool Length:</b>	<b>56.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19203

**DST#: 1**

ATTN: Jeremy Schwartz

Test Start: 2014.02.22 @ 22:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 62.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

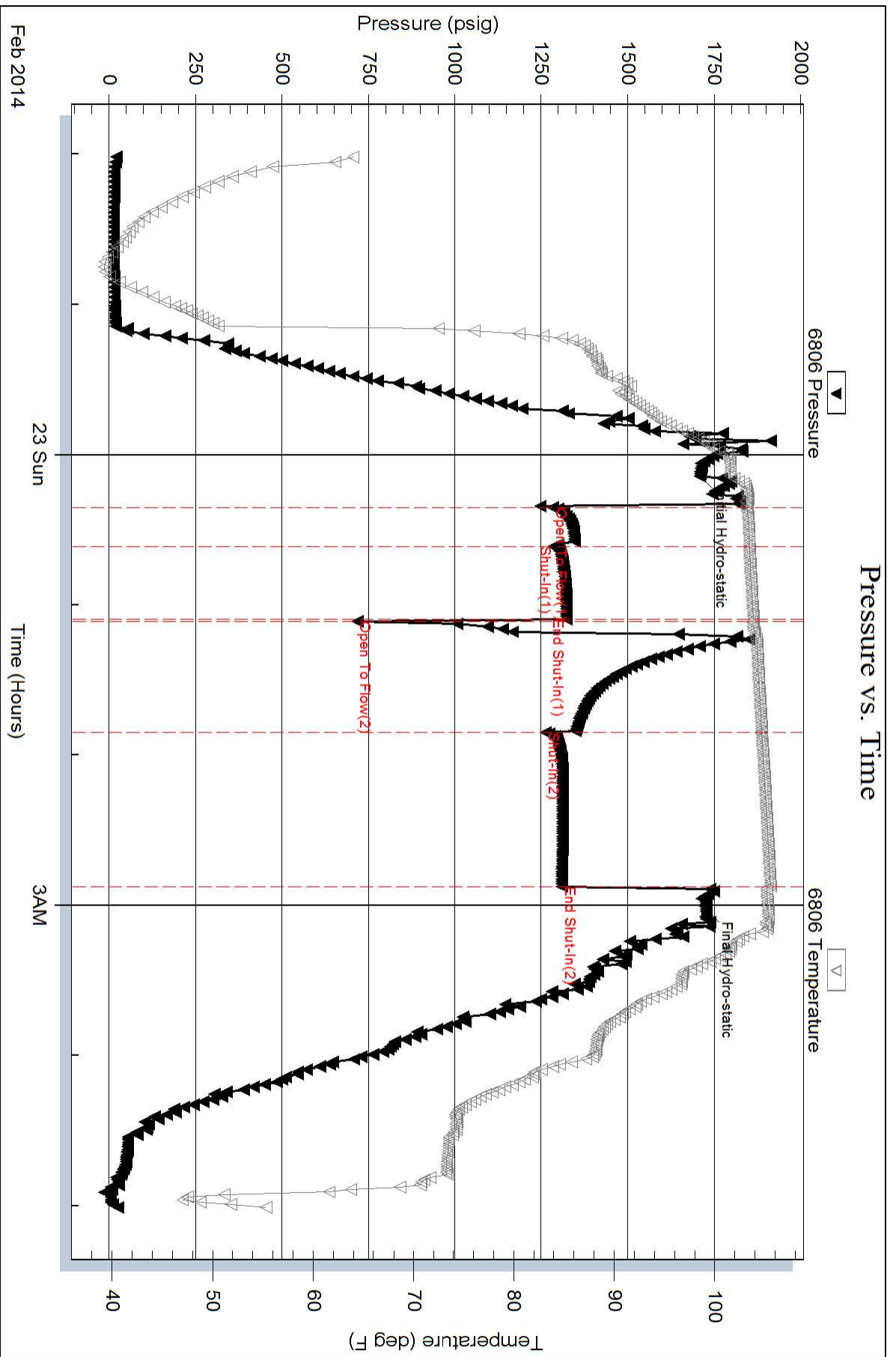
Num Gas Bombs: 0

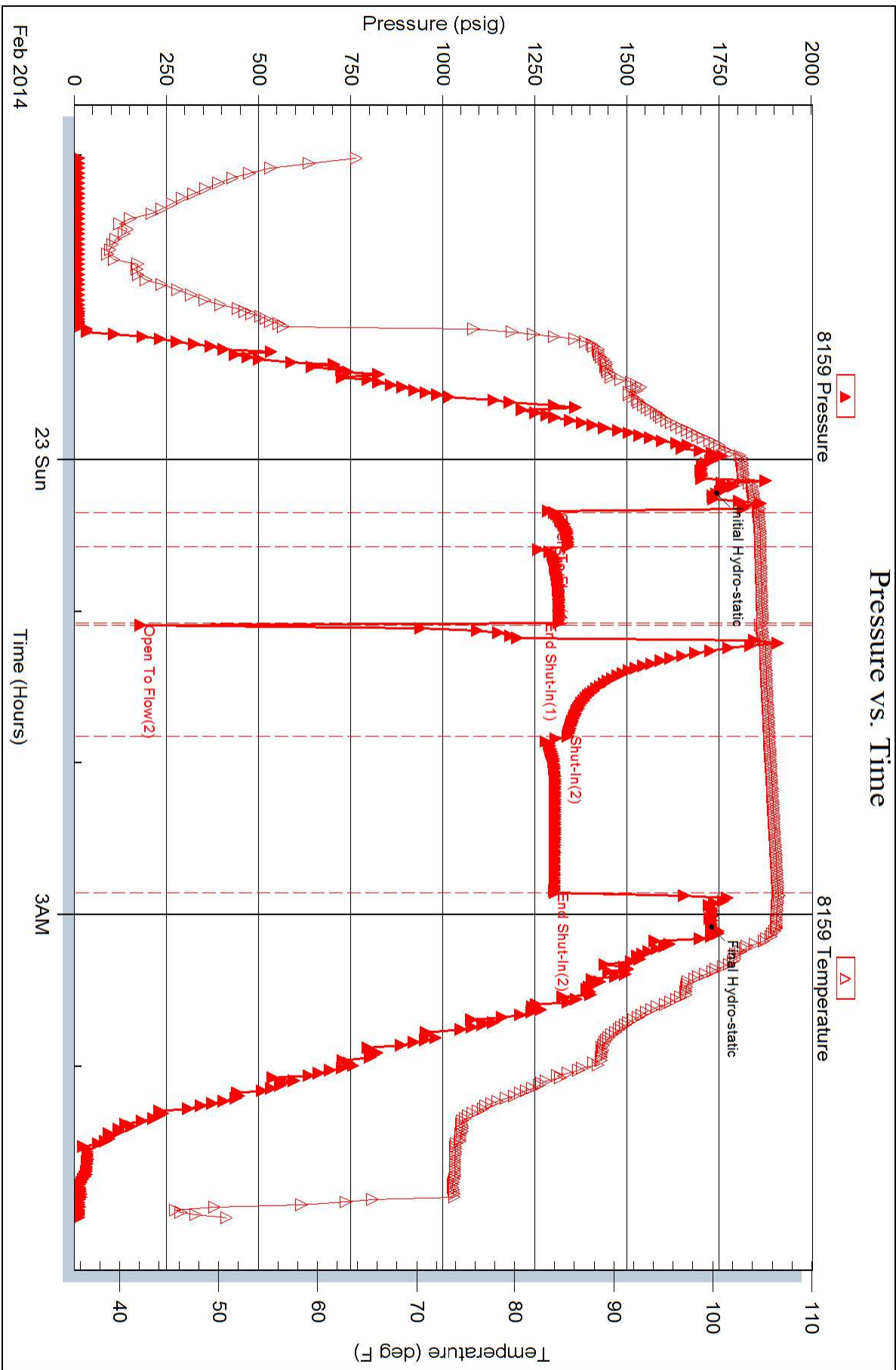
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd Suite C  
Hays Ks, 67601

ATTN: Jeremy Schwartz

### **Fenwick #1-35**

#### **35/21s/16w/Pawnee**

Start Date: 2014.02.24 @ 00:00:00

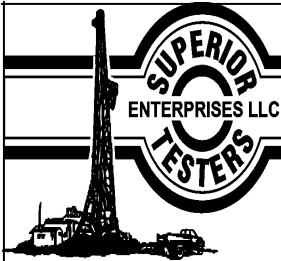
End Date: 2014.02.24 @ 10:44:00

Job Ticket #: 19204                      DST #: 2

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.02.24 @ 12:01:30

Shelby Resources LLC  
35/21s/16w/Pawnee  
Fenwick #1-35  
DST # 2  
Conglomerate  
2014.02.24



# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal Blvd Suite C  
 Hays Ks. 67601  
 ATTN: Jeremy Schwartz

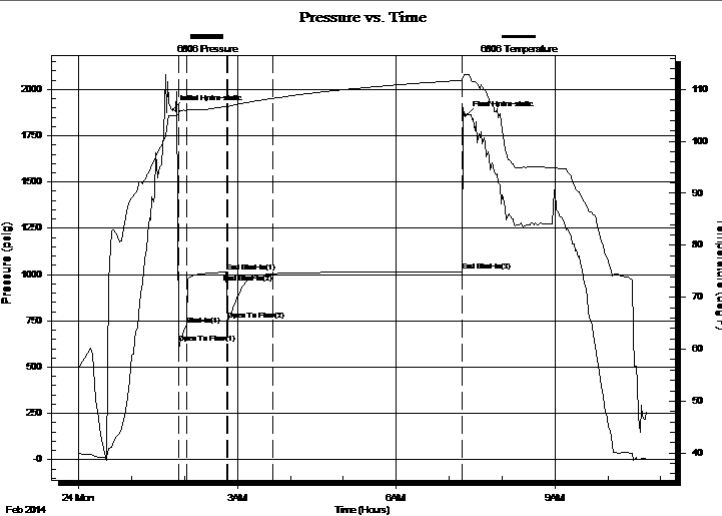
**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19204      **DST#: 2**  
 Test Start: 2014.02.24 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Conglomerate**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:53:00  
 Time Test Ended: 10:44:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
**Interval: 3774.00 ft (KB) To 3819.00 ft (KB) (TVD)**  
 Reference Elevations: 1988.00 ft (KB)  
 Total Depth: 3819.00 ft (KB) (TVD) 1975.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 6806**      **Inside**  
 Press@RunDepth: 726.90 psig @ 3815.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.24 Last Calib.: 2014.02.24  
 Start Time: 00:00:00 End Time: 10:44:00 Time On Btm: 2014.02.24 @ 01:47:00  
 Time Off Btm: 2014.02.24 @ 07:19:00

**TEST COMMENT:** 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket in 30 seconds.  
 1st Shut In/ 45 Minutes. Blow back built to bottom of 5 gallon bucket. Gas to surface in 5 minutes.  
 2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 30 seconds.  
 2nd Shut In/ 90 Minutes. Oil to surface 5 minutes into shut in.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.58	105.02	Initial Hydro-static
6	631.14	105.25	Open To Flow (1)
16	726.90	105.99	Shut-In(1)
61	1013.14	106.77	End Shut-In(1)
62	753.34	106.74	Open To Flow (2)
113	1004.62	108.26	End Shut-In(2)
328	1019.44	111.75	End Shut-In(3)
332	1858.84	112.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2772.00	100% Clean Gassy Oil.	35.88
0.00	Oil Gravity corrected to 41	0.00
0.00	reversed fluid out to a truck.	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19204

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 00:00:00

## GENERAL INFORMATION:

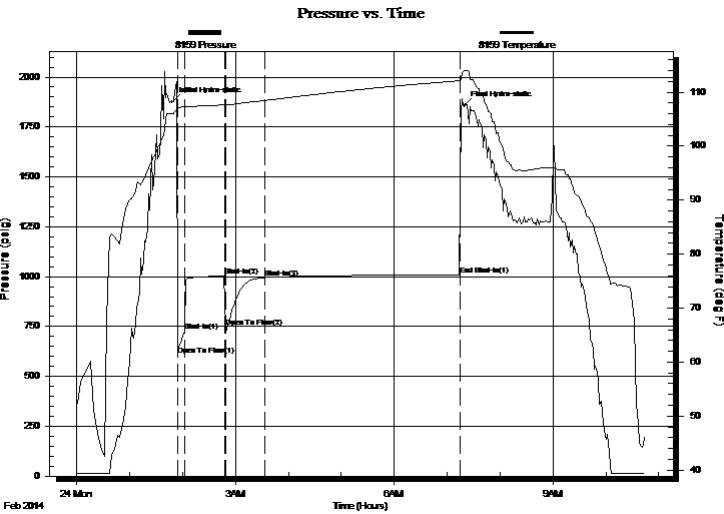
Formation: **Conglomerate**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:53:00  
 Time Test Ended: 10:44:00  
 Interval: **3774.00 ft (KB) To 3819.00 ft (KB) (TVD)**  
 Total Depth: 3819.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Reference Elevations: 1988.00 ft (KB)  
 1975.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 8159

## Outside

Press@RunDepth: 1007.90 psig @ 3816.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.24 Last Calib.: 2014.02.24  
 Start Time: 00:00:00 End Time: 10:44:00 Time On Btm: 2014.02.24 @ 01:48:30  
 Time Off Btm: 2014.02.24 @ 07:19:30

**TEST COMMENT:** 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket in 30 seconds.  
 1st Shut In/ 45 Minutes. Blow back built to bottom of 5 gallon bucket. Gas to surface in 5 minutes.  
 2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 30 seconds.  
 2nd Shut In/ 90 Minutes. Oil to surface 5 minutes into shut in.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1876.81	106.08	Initial Hydro-static
6	606.88	107.28	Open To Flow (1)
14	728.12	107.26	Shut-In(1)
59	1003.91	107.70	Shut-In(2)
60	749.31	107.64	Open To Flow (2)
105	995.32	108.49	Shut-In(3)
326	1007.90	112.13	End Shut-In(1)
331	1856.28	113.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2772.00	100% Clean Gassy Oil.	35.88
0.00	Oil Gravity corrected to 41	0.00
0.00	reversed fluid out to a truck.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19204

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3442.00 ft	Diameter: 3.80 inches	Volume: 48.28 bbl	Tool Weight:	2000.00 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: 329.61 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose:	92000.00 lb
			<u>Total Volume: 49.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.61 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	3774.00 ft			Final	86000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3751.00	
Hydraulic tool	5.00			3756.00	
Jars	6.00			3762.00	
Safety Joint	2.00			3764.00	
Top Packer	5.00			3769.00	
Packer	5.00			3774.00	28.00 Bottom Of Top Packer
Anchor	40.00			3814.00	
Recorder	1.00	6806	Inside	3815.00	
Recorder	1.00	8159	Outside	3816.00	
Bull Plug	3.00			3819.00	45.00 Anchor Tool
<b>Total Tool Length:</b>	<b>73.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19204

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2772.00	100% Clean Gassy Oil.	35.881
0.00	Oil Gravity corrected to 41	0.000
0.00	reversed fluid out to a truck.	0.000

Total Length: 2772.00 ft      Total Volume: 35.881 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

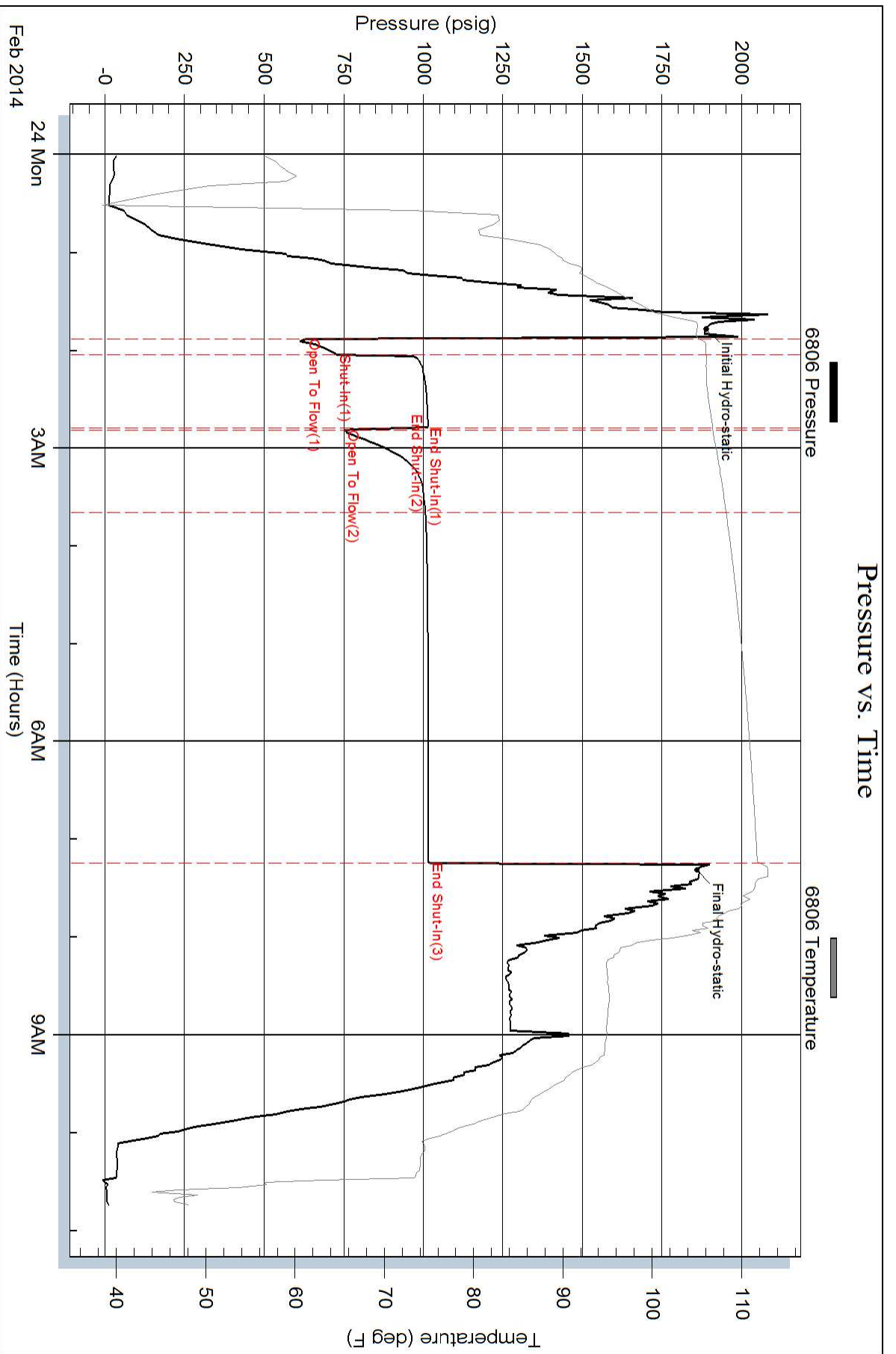
Serial #:

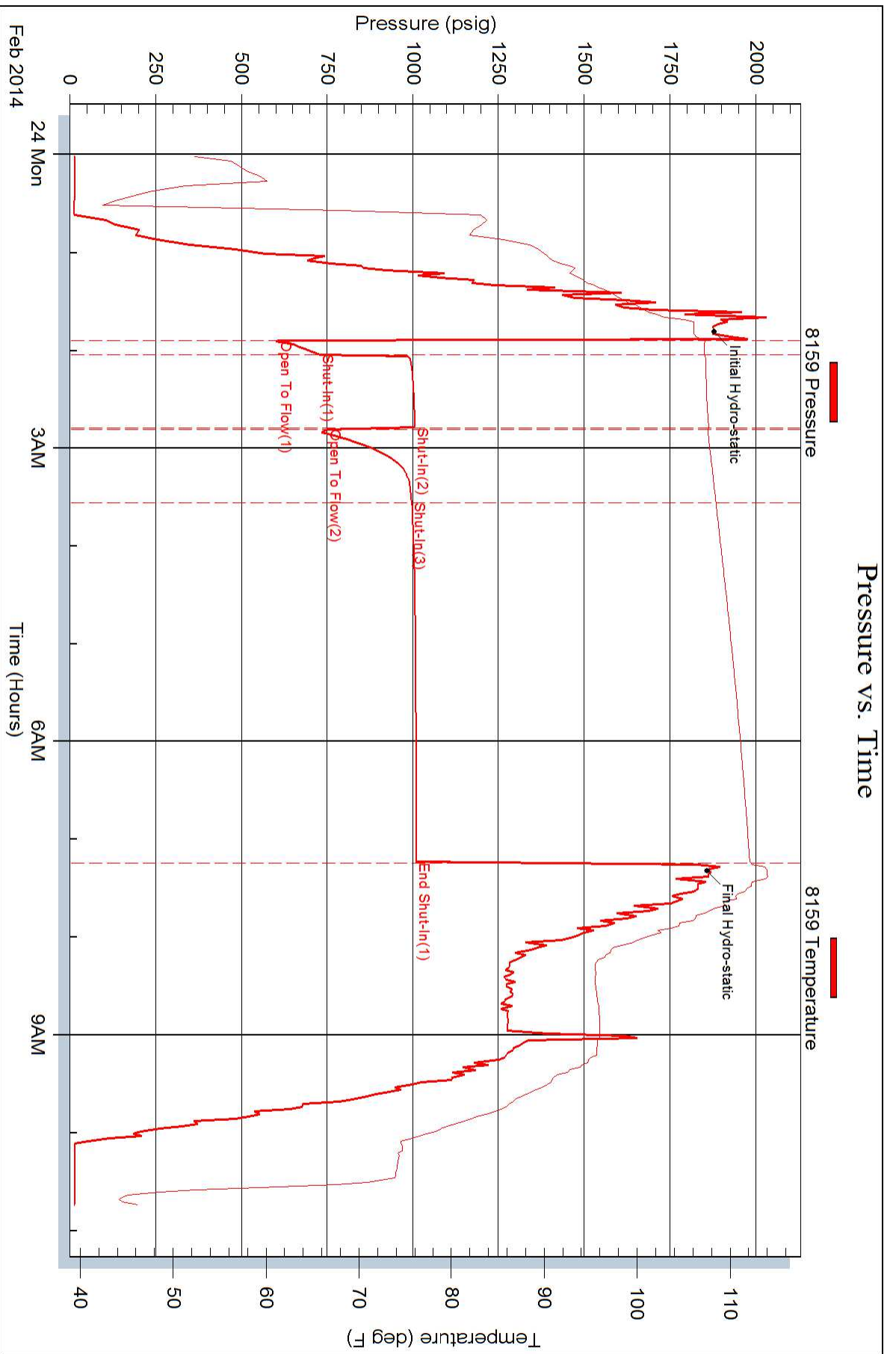
Laboratory Name:

Laboratory Location:

Recovery Comments: Gas Readings: All readings in 2nd open with 1/4 inch choke.

5 minutes. 6.72; 15 minutes. 6.72; 25 minutes. 5.32; 35 minutes. 4.76; 45 minutes. 3.37.







## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd Suite C  
Hays Ks, 67601

ATTN: Jeremy Schwartz

### **Fenwick #1-35**

#### **35/21s/16w/Pawnee**

Start Date: 2014.02.24 @ 22:00:00

End Date: 2014.02.25 @ 06:36:30

Job Ticket #: 19205                      DST #: 3

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.02.25 @ 06:11:24



# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal Blvd Suite C  
 Hays Ks. 67601  
 ATTN: Jeremy Schwartz

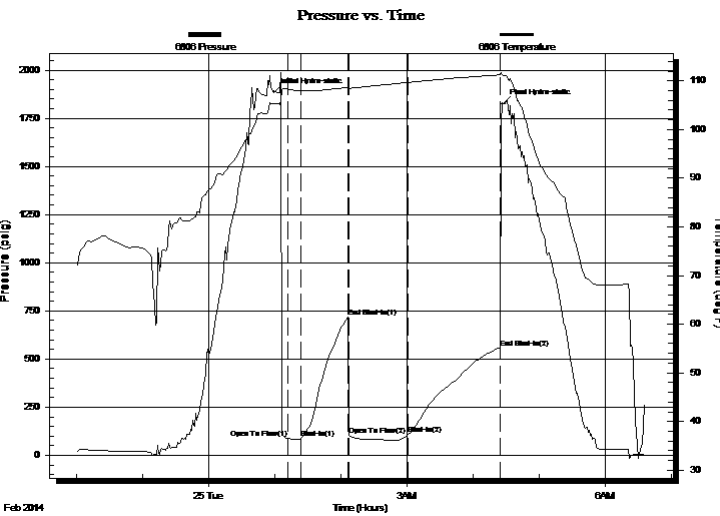
**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19205      **DST#: 3**  
 Test Start: 2014.02.24 @ 22:00:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:30  
 Time Test Ended: 06:36:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Interval: **3857.00 ft (KB) To 3897.00 ft (KB) (TVD)**  
 Reference Elevations: 1988.00 ft (KB)  
 Total Depth: 3897.00 ft (KB) (TVD) 1975.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 6806 Inside**  
 Press@RunDepth: 107.65 psig @ 3893.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.25 Last Calib.: 2014.02.25  
 Start Time: 22:00:00 End Time: 06:36:30 Time On Btm: 2014.02.25 @ 00:59:30  
 Time Off Btm: 2014.02.25 @ 04:27:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 1 1/2 inches into w ater.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Fair blow built to 4 inches into w ater.  
 2nd Shut In/ 90 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.69	105.30	Initial Hydro-static
12	88.68	108.32	Open To Flow (1)
25	89.47	107.96	Shut-In(1)
67	718.17	108.64	End Shut-In(1)
68	104.67	108.51	Open To Flow (2)
122	107.65	109.70	Shut-In(2)
205	558.75	111.24	End Shut-In(2)
208	1825.76	111.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	20% Oil, 80% Mud	0.15

## Gas Rates

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



# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal Blvd Suite C  
 Hays Ks. 67601  
 ATTN: Jeremy Schwartz

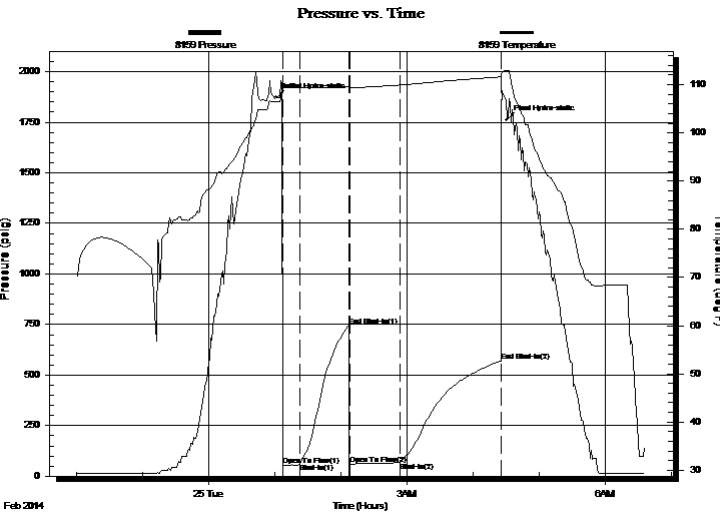
**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19205 **DST#: 3**  
 Test Start: 2014.02.24 @ 22:00:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:30  
 Time Test Ended: 06:36:30  
 Interval: **3857.00 ft (KB) To 3897.00 ft (KB) (TVD)**  
 Total Depth: 3897.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Reference Elevations: 1988.00 ft (KB)  
 1975.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 8159 Outside**  
 Press@RunDepth: 570.15 psig @ 3894.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.25 Last Calib.: 2014.02.25  
 Start Time: 22:00:00 End Time: 06:36:00 Time On Btm: 2014.02.25 @ 01:01:30  
 Time Off Btm: 2014.02.25 @ 04:30:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 1 1/2 inches into water.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Fair blow built to 4 inches into water.  
 2nd Shut In/ 90 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.15	106.49	Initial Hydro-static
6	52.06	109.41	Open To Flow (1)
21	61.67	109.40	Shut-In(1)
66	744.47	109.64	End Shut-In(1)
67	58.41	109.42	Open To Flow (2)
112	70.16	109.94	Shut-In(2)
204	570.15	111.64	End Shut-In(2)
209	1760.77	112.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	20% Oil, 80% Mud	0.15

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19205

**DST#: 3**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 22:00:00

## Tool Information

Drill Pipe:	Length: 3505.00 ft	Diameter: 3.80 inches	Volume: 49.17 bbl	Tool Weight:	2000.00 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: 329.61 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 50.79 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.61 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	3857.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	68.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3834.00	
Hydraulic tool	5.00			3839.00	
Jars	6.00			3845.00	
Safety Joint	2.00			3847.00	
Top Packer	5.00			3852.00	
Packer	5.00			3857.00	28.00 Bottom Of Top Packer
Anchor	35.00			3892.00	
Recorder	1.00	6806	Inside	3893.00	
Recorder	1.00	8159	Outside	3894.00	
Bull Plug	3.00			3897.00	40.00 Anchor Tool
<b>Total Tool Length:</b>	<b>68.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19205

**DST#: 3**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 22:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 10.00 lb/gal  
 Viscosity: 60.00 sec/qt  
 Water Loss: 6.40 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 5800.00 ppm  
 Filter Cake: 1.00 inches

Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Type:  
 Gas Cushion Pressure: psig

Oil API: deg API  
 Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	20% Oil, 80% Mud	0.148

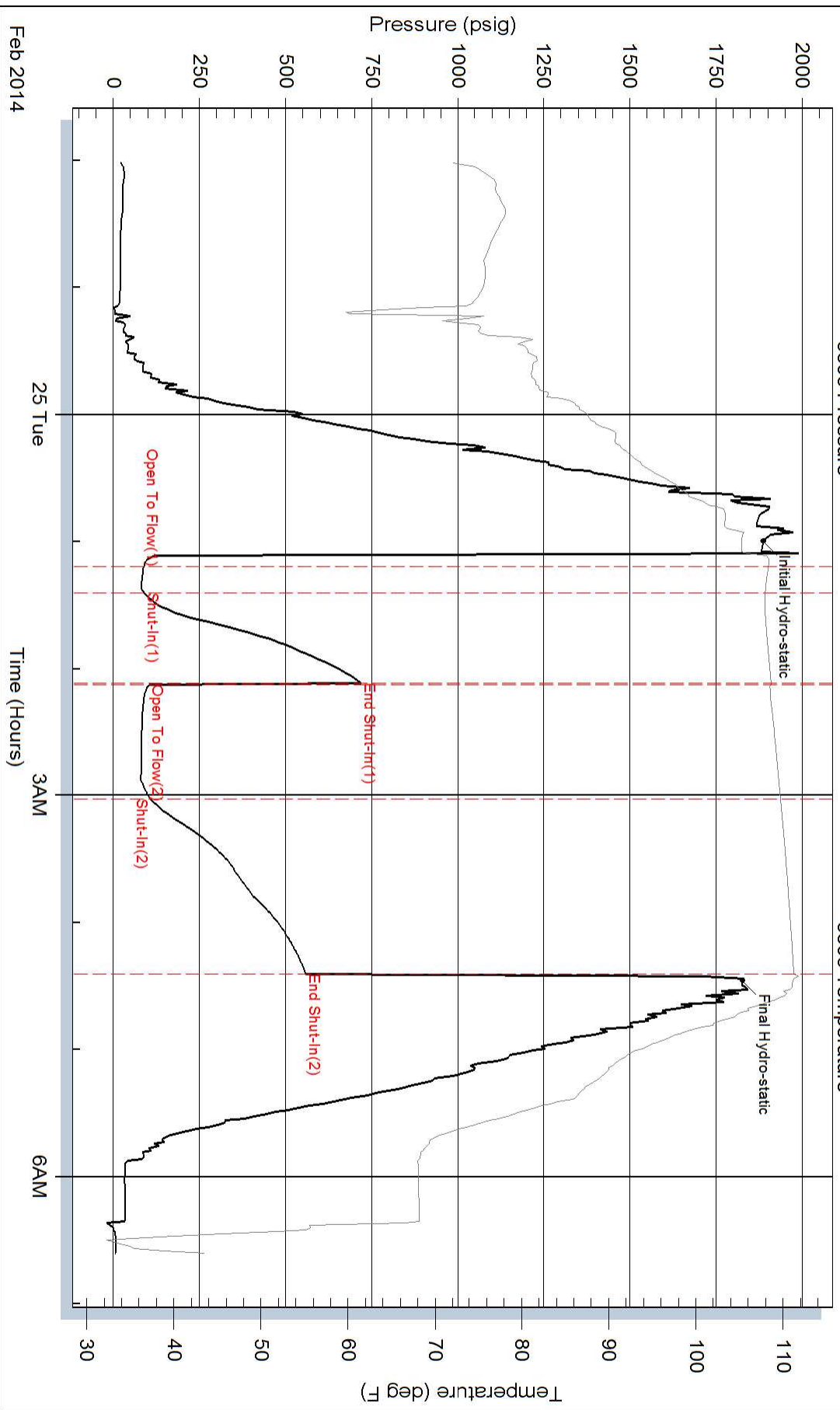
Total Length: 30.00 ft      Total Volume: 0.148 bbl

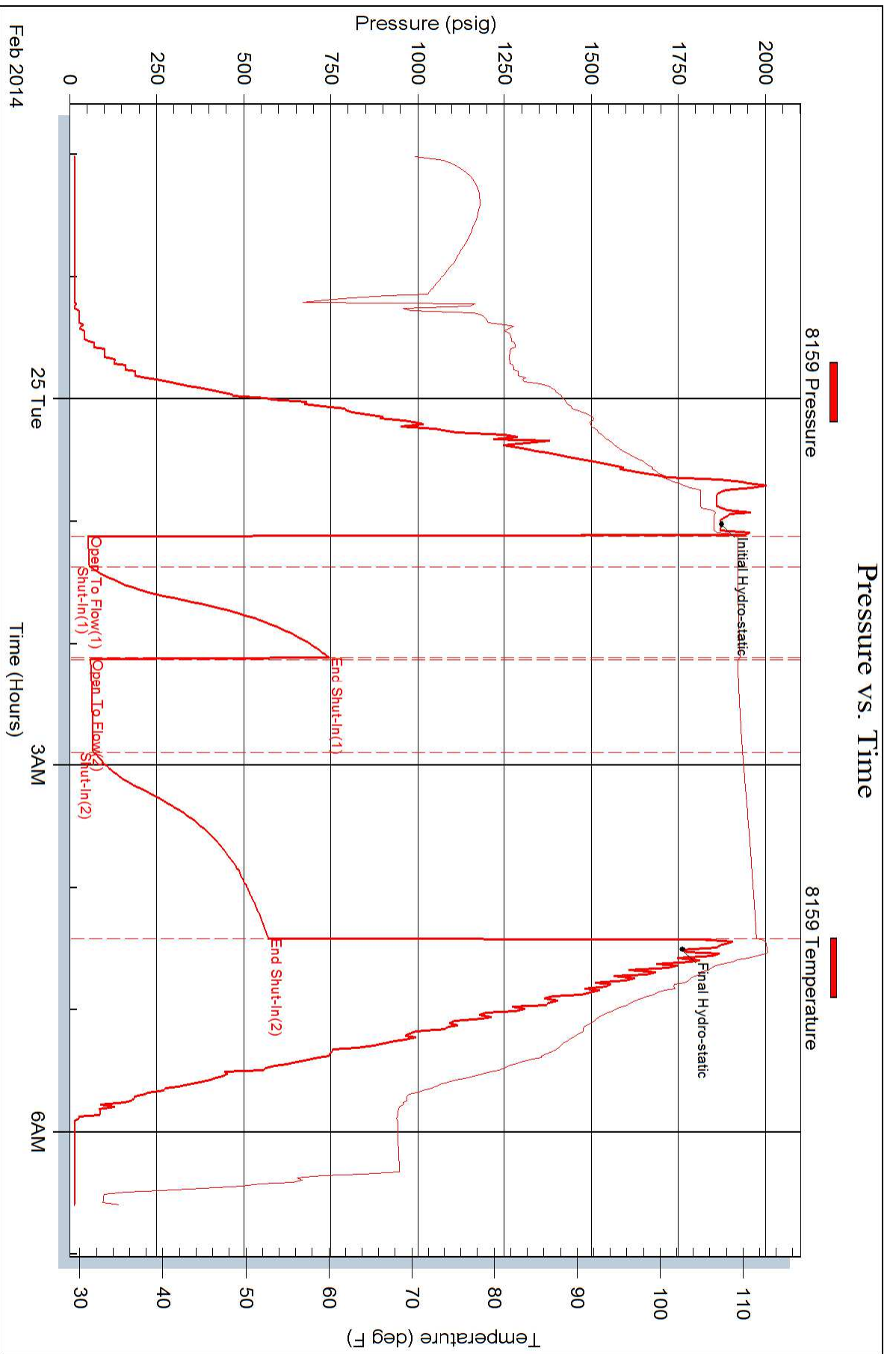
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd Suite C  
Hays Ks, 67601

ATTN: Jeremy Schwartz

### **Fenwick #1-35**

#### **35/21s/16w/Pawnee**

Start Date: 2014.02.25 @ 12:20:00

End Date: 2014.02.25 @ 23:48:00

Job Ticket #: 19206                      DST #: 4

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.02.26 @ 01:06:56



# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal Blvd Suite C  
 Hays Ks. 67601  
 ATTN: Jeremy Schwartz

**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19206 **DST#: 4**  
 Test Start: 2014.02.25 @ 12:20:00

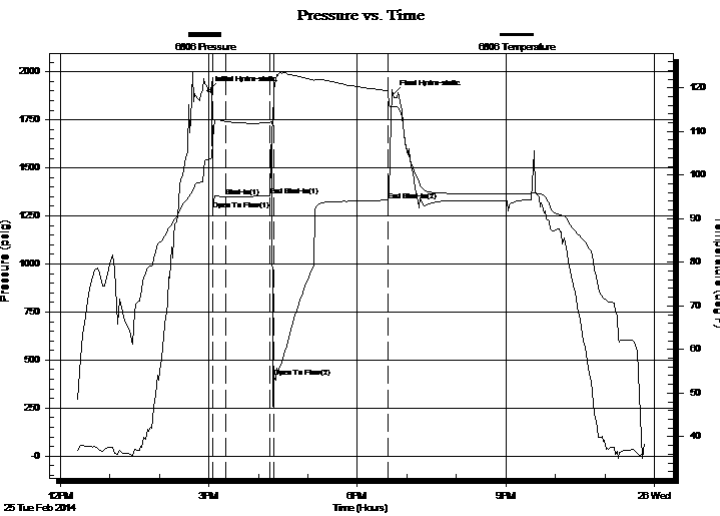
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:05:00  
 Time Test Ended: 23:48:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Interval: **3924.00 ft (KB) To 3931.00 ft (KB) (TVD)**  
 Reference Elevations: 1988.00 ft (KB)  
 Total Depth: 3931.00 ft (KB) (TVD) 1975.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

## Serial #: 6806 Inside

Press@RunDepth: 1348.66 psig @ 3927.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.25 End Date: 2014.02.25 Last Calib.: 2014.02.26  
 Start Time: 12:20:00 End Time: 23:48:00 Time On Btm: 2014.02.25 @ 14:59:30  
 Time Off Btm: 2014.02.25 @ 18:43:00

**TEST COMMENT:** 1st Open/ 15 Minutes. Weak blow built to 2 inches into bucket of deisel.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. No blow, flushed tool and gained good blow to bottom of 5 gallon bucket of deisel.  
 2nd Shut In/ 90 Minutes. Blow back built to 2 inches into bucket of deisel.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.31	103.68	Initial Hydro-static
6	1281.08	107.71	Open To Flow (1)
21	1348.66	112.27	Shut-In(1)
75	1352.46	111.97	End Shut-In(1)
80	408.70	119.68	Open To Flow (2)
217	1331.59	119.35	End Shut-In(2)
224	1882.89	115.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2709.00	Clean oil	35.00
0.00	reversed fluid to truck due to presence of H2S gas.	0.00
0.00	Oil corrected gravity w as 42.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal Blvd Suite C  
 Hays Ks. 67601  
 ATTN: Jeremy Schwartz

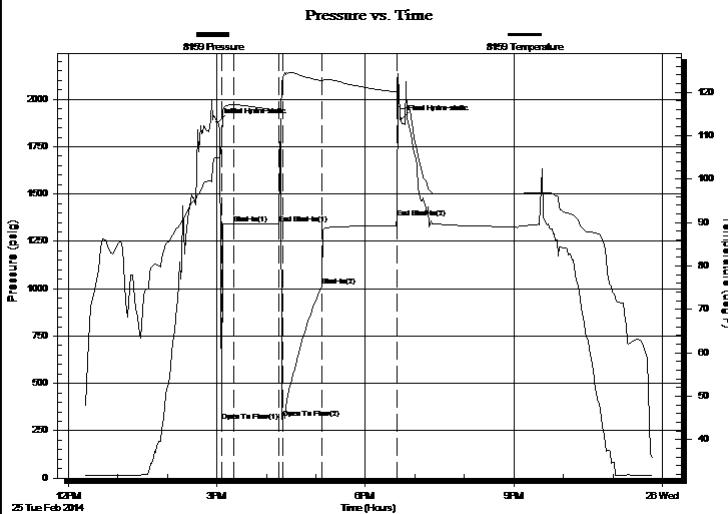
**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19206 **DST#: 4**  
 Test Start: 2014.02.25 @ 12:20:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 15:05:00 Tester: Shane Konzem  
 Time Test Ended: 23:48:00 Unit No: 3330/60/Great Bend  
 Interval: **3924.00 ft (KB) To 3931.00 ft (KB) (TVD)** Reference Elevations: 1988.00 ft (KB)  
 Total Depth: 3931.00 ft (KB) (TVD) 1975.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 8159 Outside**  
 Press@RunDepth: 1377.08 psig @ 3928.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.25 End Date: 2014.02.25 Last Calib.: 2014.02.26  
 Start Time: 12:20:00 End Time: 23:49:00 Time On Btm: 2014.02.25 @ 15:01:00  
 Time Off Btm: 2014.02.25 @ 18:43:00

**TEST COMMENT:** 1st Open/ 15 Minutes. Weak blow built to 2 inches into bucket of deisel.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. No blow, flushed tool and gained good blow to bottom of 5 gallon bucket of deisel.  
 2nd Shut In/ 90 Minutes. Blow back built to 2 inches into bucket of deisel.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1877.51	104.87	Initial Hydro-static
5	300.56	108.21	Open To Flow (1)
20	1343.33	117.16	Shut-In(1)
74	1343.32	115.79	End Shut-In(1)
79	316.57	123.63	Open To Flow (2)
127	1016.25	122.64	Shut-In(2)
217	1377.08	119.96	End Shut-In(2)
222	1893.94	116.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2709.00	Clean oil	35.00
0.00	reversed fluid to truck due to presence of H2S gas.	0.00
0.00	Oil corrected gravity w as 42.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19206

**DST#: 4**

ATTN: Jeremy Schwartz

Test Start: 2014.02.25 @ 12:20:00

## Tool Information

Drill Pipe:	Length: 3595.00 ft	Diameter: 3.80 inches	Volume: 50.43 bbl	Tool Weight: 2000.00 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: 329.61 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 52.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.61 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3924.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3901.00	
Hydraulic tool	5.00			3906.00	
Jars	6.00			3912.00	
Safety Joint	2.00			3914.00	
Top Packer	5.00			3919.00	
Packer	5.00			3924.00	28.00 Bottom Of Top Packer
Anchor	2.00			3926.00	
Recorder	1.00	6806	Inside	3927.00	
Recorder	1.00	8159	Outside	3928.00	
Bull Plug	3.00			3931.00	7.00 Anchor Tool
<b>Total Tool Length:</b>	<b>35.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19206

**DST#: 4**

ATTN: Jeremy Schwartz

Test Start: 2014.02.25 @ 12:20:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 68.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2709.00	Clean oil	34.998
0.00	reversed fluid to truck due to presence	0.000
0.00	of H2S gas.	0.000
0.00	Oil corrected gravity w as 42.	0.000

Total Length: 2709.00 ft      Total Volume: 34.998 bbl

Num Fluid Samples: 0

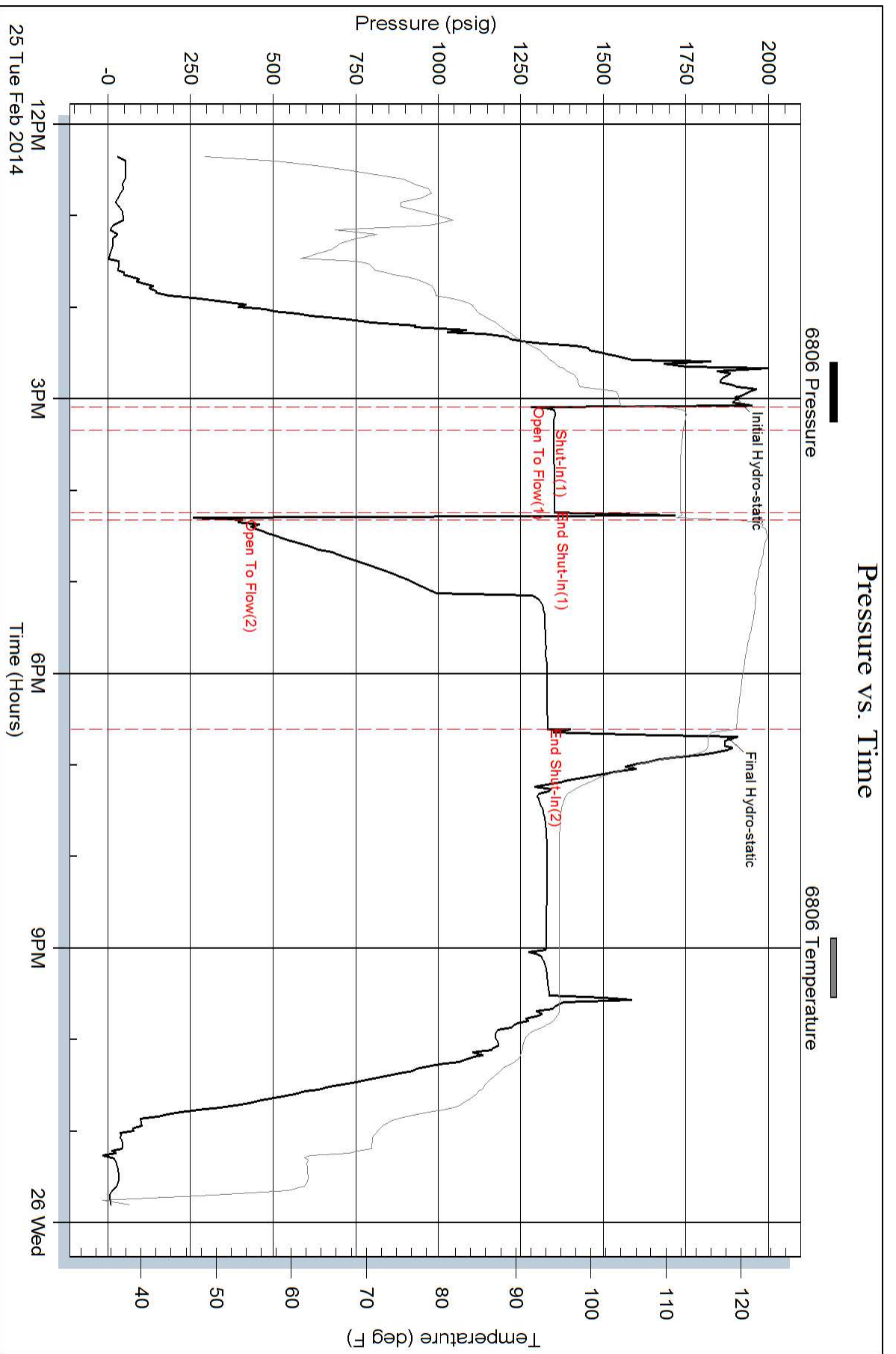
Num Gas Bombs: 0

Serial #:

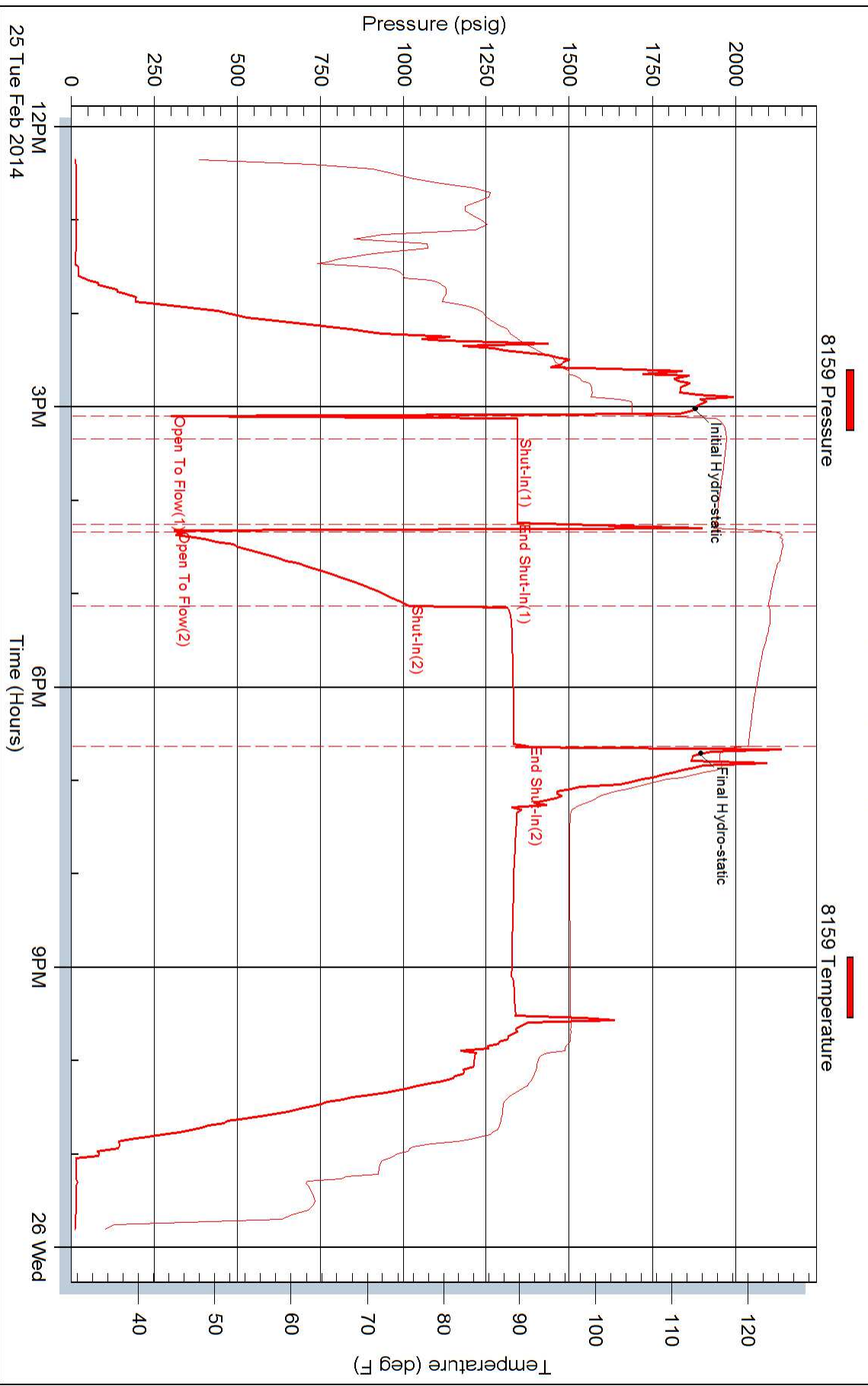
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time





Scale 1:240 Imperial

Well Name: Fenwick #1-35  
 Surface Location: 600' FNL \_1155' FEL Sec 35 - 21S- 16W  
 Bottom Location:  
 API: 15-145-21751-00-00  
 License Number:  
 Spud Date: 2/19/2014 Time: 7:00 PM  
 Region: Pawnee County  
 Drilling Completed: 2/26/2014 Time: 6:30 AM  
 Surface Coordinates: Y = 554146 & X = 1843595  
 Bottom Hole Coordinates:  
 Ground Elevation: 1975.00ft  
 K.B. Elevation: 1988.00ft  
 Logged Interval: 3100.00ft To: 4050.00ft  
 Total Depth: 4050.00ft  
 Formation: Penn Sand  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**

Company: Shelby Resources, LLC  
 Address: 445 Union Blvd, Suite 208  
 Lakewood, CO 80228

Contact Geologist: Janine Sturdavant  
 Contact Phone Nbr: 303-907-2209 / 720-274-4682  
 Well Name: Fenwick #1-35  
 Location: 600' FNL \_1155' FEL Sec 35 - 21S- 16W API: 15-145-21751-00-00  
 Pool: Field: Wildcat  
 State: Kansas Country: USA

**LOGGED BY**



Company: Shelby Resources, LLC  
 Address: 445 UNION BLVD. Suite 208  
 LAKEWOOD, CO. 80228

Phone Nbr: 203-671-6034  
 Logged By: Geologist Name: Jeremy Schwartz

**NOTES**

The Shelby Resources, LLC Fenwick #1-35 was drilled to a total depth of 4025', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

Four DST's were conducted throughout the Lansing, Conglomerate, Simpson Sand, and Arbuckle zones. The DST reports can be found at the bottom of this log.

Due to the DST results, sample shows, gas kicks, and log analysis it was determined by all parties involved to further test the well through production pipe. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,  
 Jeremy Schwartz  
 Geologist

**SURFACE CO-ORDINATES**

Well Type: Vertical

Longitude: N/S Co-ord: Y = 554146  
 E/W Co-ord: X = 1843595

Latitude:

**CONTRACTOR**

Contractor: Sterling Drilling Co  
 Rig #: 5  
 Rig Type: mud rotary  
 Spud Date: 2/19/2014  
 TD Date: 2/26/2014  
 Rig Release:  
 Time: 7:00 PM  
 Time: 6:30 AM  
 Time:

**ELEVATIONS**

K.B. Elevation: 1988.00ft  
 K.B. to Ground: 13.00ft  
 Ground Elevation: 1975.00ft

DATE	DEPTH	ACTIVITY
Saturday, February 22, 2014	3400'	Geologist Jeremy Schwartz on location @ 1330hrs, DRLG ahead through Heebner, Toronto, Douglas Shale, Brown Lime, LKC, CFS @ 3563', Short Trip, Strap Out, Drop Survey, Conduct DST #1, Invalid Test
Sunday, February 23, 2014	3563'	DRLG ahead through Stark Shale, BKC, Marmaton, Conglomerate, CFS @ 3819', Conduct DST #2
Monday, February 24, 2014	3819'	Successful test, DRLG ahead through Simpson Shale, Simpson Sand, CFS @ 3897', Conduct DST #3
Tuesday, February 25, 2014	3897'	Successful test, DRLG ahead, CFS @ 3931', Conduct DST #4 in Arbuckle,
Wednesday, February 26, 2014	3897'	Successful test, DRLG ahead to TD, TD of 4025' reached at 0630hrs, CTCH 90", Trip out
	4025'	Conduct Logging Operations, Logging Operations Complete @ 1445hrs
		Geologist Jeremy Schwartz off location at 1515hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	FENWICK #1-35
LEGAL:	600'PNL & 1155' FEL 35-21S-16W
COUNTY:	PAWNEE COUNTY, KS
API:	15-145-21751-00-00
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG #:	5
DOGHOUSE #:	620-388-5433
TOOLPUSHER:	ALAN LOFTIS
CELL #:	620-388-2736

FORMATION	FENWICK #1-35				CAPTIVA II				CAPTIVA II				CAPTIVA II			
	NW-SW-NE-NE				SE-SW-SE-NW 35-21S-16W				W2-NW-NW-NE 3-22S-16W				NW-SE-SE-SW 25-21S-16W			
	KB	1988	LOG TOPS	SAMPLE TOPS	COMP. CARD	LOG	CORR.	SMPL.	COMP. CARD	LOG	CORR.	SMPL.	COMP. CARD	LOG	CORR.	SMPL.
ANHYDRITE TOP	974	1014	972	1016	984	1007	+ 7	+ 9	995	1004	+ 10	+ 12	962	1021	- 7	- 5
BASE	1000	988	988	1000	1000	991	- 3	+ 9	1018	981	+ 7	+ 19	988	995	- 7	+ 5
HEEBNER SHALE	3395	-1407	3393	-1405	3400	-1409	+ 2	+ 4	3414	-1415	+ 8	+ 10	3371	-1388	- 19	- 17
TORONTO	3418	-1430	3410	-1422	3419	-1428	- 2	+ 6	3430	-1431	+ 1	+ 9	3386	-1403	- 27	- 19
DOUGLAS SHALE	3430	-1442	3430	-1442	3437	-1446	+ 4	+ 4	3448	-1449	+ 7	+ 7	3406	-1423	- 19	- 19
BROWN LIME	3496	-1508	3495	-1507	3504	-1513	+ 5	+ 6	3524	-1525	+ 17	+ 18	3474	-1491	- 17	- 16
LKC	3504	-1516	3505	-1517	3514	-1523	+ 7	+ 6	3538	-1539	+ 23	+ 22	3485	-1502	- 14	- 15
STARK SHALE	3696	-1708	3695	-1707	3701	-1710	+ 2	+ 3	3717	-1718	+ 10	+ 11	3672	-1689	- 19	- 18
BKC	3742	-1754	3741	-1753	3752	-1761	+ 7	+ 8	3770	-1771	+ 17	+ 18	3718	-1735	- 19	- 18
MARMATON	3762	-1774	3762	-1774	3770	-1779	+ 5	+ 5	3790	-1791	+ 17	+ 17	3740	-1757	- 17	- 17
CONGLOMERATE	3790	-1802	3785	-1797	3806	-1815	+ 13	+ 18	3816	-1817	+ 15	+ 20	3761	-1778	- 24	- 19
CONG. SAND/CHRT	3798	-1810	3797	-1809					3862	-1863	+ 54		3774	-1791	- 19	- 18
VIOLA													3784	-1801		
SIMPSON SHALE	3872	-1884	3874	-1886	3884	-1893	+ 9	+ 7	3890	-1891	+ 7	+ 5	3844	-1861	- 23	- 25
SIMPSON SAND	3888	-1900	3884	-1896	3892	-1901	+ 1	+ 5	3908	-1909	+ 9	+ 13	3866	-1883	- 17	- 13
ARBUCKLE	3926	-1938	3924	-1936	3947	-1956	+ 18	+ 20	3960	-1961	+ 23	+ 25	3890	-1907	- 31	- 29
RTD			4025	-2037					4040	-2041	+ 4	+ 4	3991	-2008		- 29
ITD	4026	-2038			4038	-2047	+ 9		4041	-2042	+ 4		3991	-2008	- 30	

PROGNOSIS	
ANHYDRITE TOP	963 1005
HEEBNER SHALE	3404 -1416
Penn Cong	3841 -1853
Simp Sand	3892 -1904
ARBUCKLE	3939 -1951
TD	4050 -2062

TESTED	TESTED	TESTED
DST #1 (3350-3375) LKC "B-D" 10-45-45-90 IF: Fair Blow Built to 3IN No BB FF: Fair Blow Built to 3.5IN No BB 30' Gassy Mud w/TR Oil SIP: 767-1051	DST #1 (3806' - 3849') CONG 10-45-15 IF: Weak Blow No Build No BB FF: No Blow/Flush Tool/Pull Test	DST #2 (3695-3791) Cong Sand 10-45-45-90 Strong Blow BOB 2MIN BB 1/4IN Strong Blow BOB 45SEC BB 5IN
DST #2 (3785-3865) Conglomerate 15-45-20 Weak Blow Built to 3/4IN No BB Weak Surface Blow Died 20MIN Pulled Test 10' M SIP: 118-77	DST #2 (3879' - 3919') SIMP SAND 15-45-60-90 IF: Strong Blow BOB 1MIN BB BOB 5MIN FF: Strong Blow BOB 45SEC/GTS 2MIN BB BOB 3.5MIN 2425' CGO	720' GIP, 300' OCM (95% M, 5% O), 1' CO SIP: 683 - 756#
DST #3 (3875-3915) Simp Sand 15-45-45-90	63' MCGO (0.80%, G 10%, M 10%) SIP: 1150# - 1137#	DST #4 (3838-3892) Simp Sand/ARB 10-45-20-60 Strong Blow BOB 15SEC/GTS 2MIN BB 1IN Strong Blow BOB Immediately BB 1IN 120' M SIP: 1326 - 1322
	DST #3 (3960' - 3966') ARBUCKLE 15-45-60-90	

Strong Blow BOB 1MIN 50SEC Good BB Built to 11IN Strong Blow BOB 4MIN BB BOB/GTS 60MIN <b>945' CGO</b> SIP: 1227-1149 <b>DST #4 (3915-3958) Ar buckle</b> 15-45-30-90 Strong Blow BOB 1MIN 20SEC No BB Strong Blow BOB 2MIN 10SEC No BB <b>1953' W</b> SIP: 1300-1329	IF: Strong Surge/Built to BOB 13.5MIN No BB FF: Strong Blow BOB 1.5MIN No BB 1890' SMGCW (W 55%, G 3%, M 2%)	<b>DST #5 (3896-3904) Ar buckle</b> 10-45-13-60 Strong Blow BOB 15SEC/GTS 2.5MIN Yes BB Strong Blow BOB Immediately/Oil to Surface 3MIN Yes BB <b>3659' CGO, 120' Gassy Muddy Emulsified Oil (O60%, W20%, M15%, G5%)</b> <b>120' GIP</b> SIP: 1325 - 1325 <b>DST #6 (3905-3914) Ar buckle</b> 15-45-45-60 Good Blow BOB 3MIN BB 8.5IN Good Blow BOB 5MIN BB BOB 15MIN <b>882' GCMW/Tr Oil</b> 63' MWCGO (O55%, G20%, W20%, M5%) 5'CO, 567' GIP SIP: 1331-1330
<i>INFO</i>	<i>INFO</i>	<i>INFO</i>
	PERF 3910-13' (12) SIMP SAND PERF 3913-18' (20) SIMP SAND	

### ROCK TYPES

Cht	Dolprim	shale, gry	Shcol
Cht vari	Lmst fw<7	Carbon Sh	Ss
Congl	shale, grn	shale, red	

### ACCESSORIES

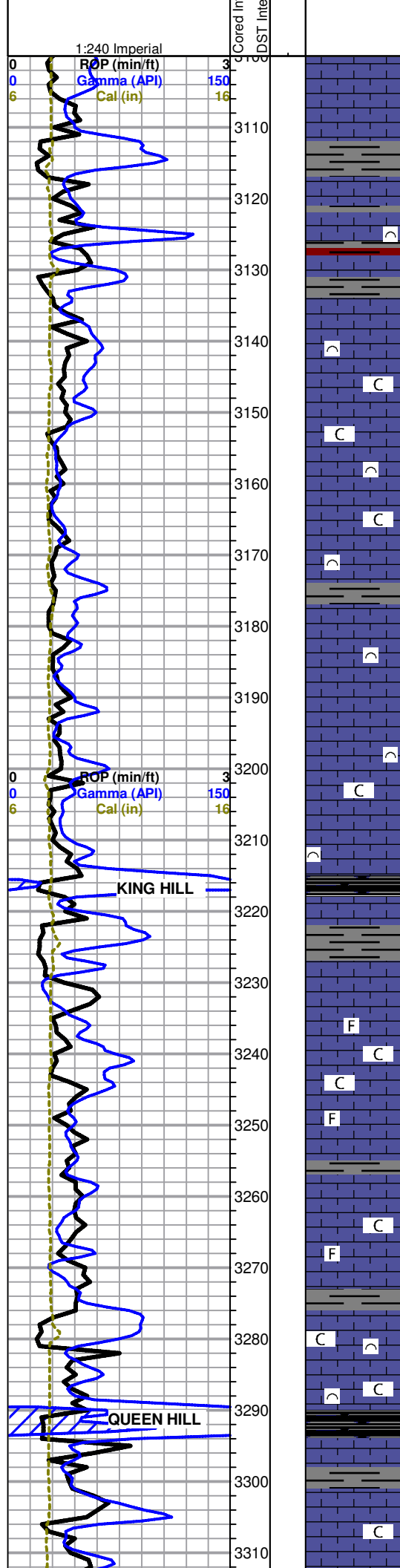
<b>FOSSIL</b>	<b>STRINGER</b>
∩ Bioclastic or Fragmental	Limestone
F Fossils < 20%	Sandstone
	Shale
	red shale

<b>TEXTURE</b>
C Chalky

### OTHER SYMBOLS

<b>MISC</b>	<b>Oil Show</b>	<b>DST</b>
Daily Report	Good Show	DST Int
Digital Photo	Fair Show	DST alt
Document	Poor show	
Folder	Spotted or Trace	
Link	Questionable Stn	
Vertical Log File	Dead Oil Stn	
Horizontal Log File	Fluorescence	
Core Log File	Gas	
Drill Cuttings Rpt		

Curve Track #1								TG, C1 - C5	
ROP (min/ft)		Depth   Intervals	DST	Lithology	Oil Show	Geological Descriptions		Total Gas (units)	
Gamma (API)								C1 (units)	
Cal (in)								C2 (units)	
								C3 (units)	
								C4 (units)	



**Logged By Jeremy Schwartz**

Shale, mostly gray with trace red, with some scattered LS, cream to gray, micro-xln, some fossiliferous, mostly dense with poor visible porosity

LS, cream with some gray, micro-xln, some fossiliferous, mix of dense and soft and chalky, poor visible porosity, chalky

LS, cream, micro-xln, some scattered fossiliferous, mostly dense with poor visible porosity, soft and chalky

As above, with some scattered gray fossiliferous, dense with poor visible porosity

LS, mostly cream with some gray, micro-xln, some dense and fossiliferous, some soft and chalky, poor visible porosity, slightly chalky

LS as above, with trace Shale, black carbonaceous, soft and waxy

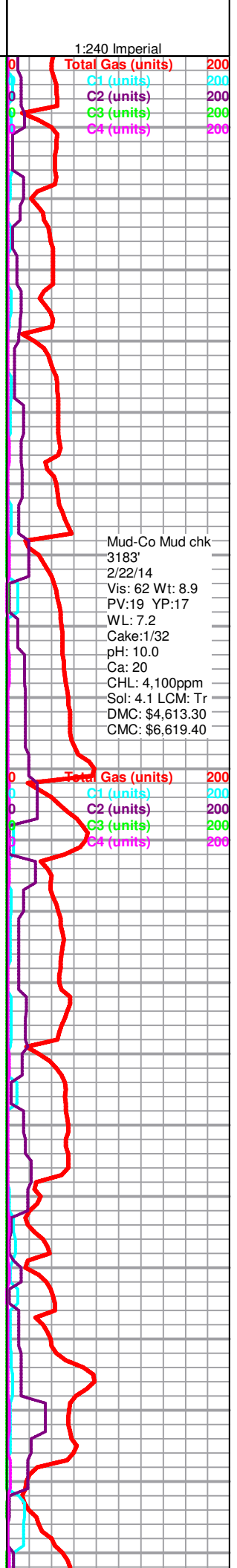
LS, mostly cream with some gray and scattered white to off white, mostly dense, some scattered slightly fossiliferous, some soft and chalky, poor visible porosity, chalky

LS as above

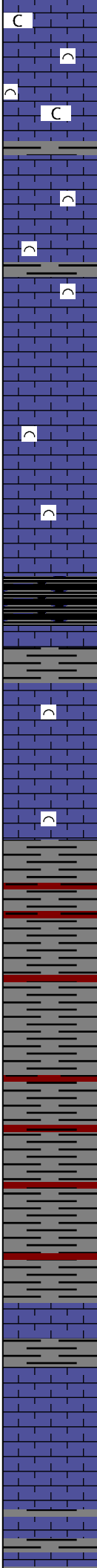
LS, cream with some light gray, mostly hard and dense, some fossiliferous, some soft and chalky, poor visible porosity, chalky

Shale, black carbonaceous, soft and waxy

LS, cream to light gray, micro-xln, mostly hard and dense with poor visible porosity, some soft and chalky, chalky sample



3320  
3330  
3340  
3350  
3360  
3370  
3380  
3390  
3400  
3410  
3420  
3430  
3440  
3450  
3460  
3470  
3480  
3490  
3500  
3510  
3520  
3530



LS, cream to gray with some white to off white, fossiliferous, micro-xln, mostly hard and dense with poor visible porosity, some soft and chalky

LS, mostly gray with some white to off white and scattered cream, fossiliferous, hard and dense with poor visible porosity, some scattered soft and chalky

LS, mostly cream with some light gray and light brown, micro-xln with some scattered crypto-xln, mostly lithographic, hard and dense with poor visible porosity

LS as above

**Heebner 3393 (-1405)**  
Shale, black carbonaceous, blocky and dense

Shale, mostly gray with trace red, mostly soft and waxy, also with some LS, cream, fossiliferous, hard and dense with poor visible porosity

**Toronto 3410 (-1422)**  
LS, gray to cream with some white to off white, micro-xln, some scattered fossiliferous, mostly hard and dense with poor visible porosity, some scattered soft and chalky

**Douglas Shale 3430 (-1442)**  
Shale, gray with some scattered red, mostly soft and waxy

Shale as above

**Brown Lime 3495 (-1507)**  
LS, brown, micro-xln, fossiliferous, hard and dense with no visible porosity, no shows

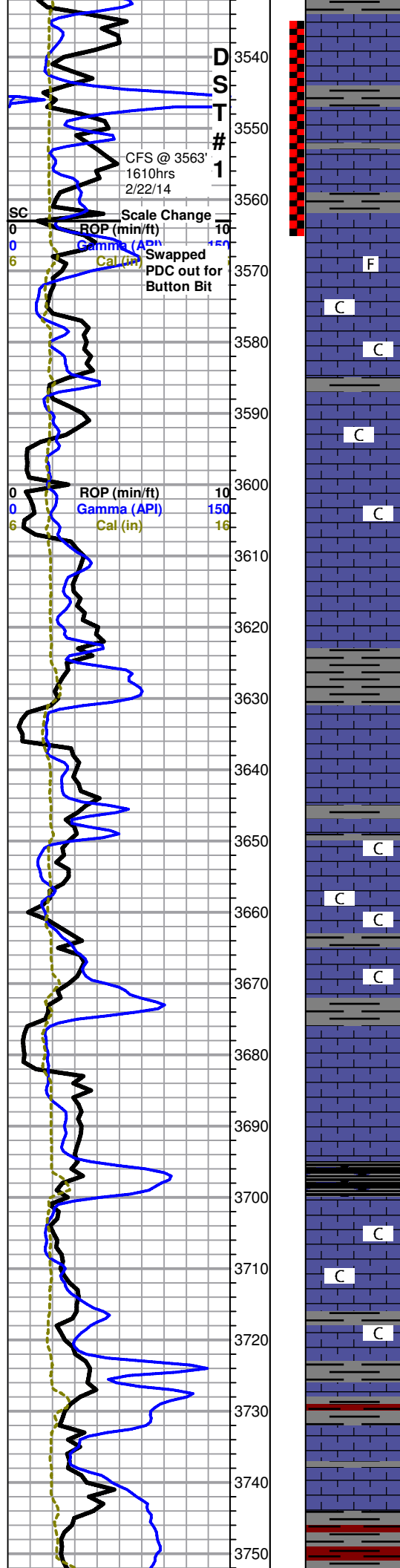
**LKC 3505 (-1517)**  
LS, cream to white/off white, micro-xln, some fossiliferous, mostly dense with poor visible porosity, some soft and chalky, no shows or odor

LS, white to off white with some scattered cream to gray, micro-crypto xln, mix of hard and dense and soft and chalky, poor visible porosity, no shows or odor

ROP (min) 3  
Gamma (API) 150  
Cal (in) 16

Total Gas (units) 200  
C1 (units) 200  
C2 (units) 200  
C3 (units) 200  
C4 (units) 200





**\*\*Invalid Test\*\***

3563' 20" LS as above, also with few small chips cream, micro-xln with very scattered vf pinpoint porosity and several small vugs with very slight light brown stain in and around vugs, one chip with very light brown mostly saturated stain (only visible when dried out), very slow streaming cut with bright white fluorescence, SS gas bubbles in wet tray with slight sheen around bubbles, NSFO, fair odor

40" LS as above, few small chips cream, micro-crypto xln with very scattered vf pinpoint porosity and very light brown stain in and around porosity only, several chips with few very scattered small vugs and slightly vuggy to vuggy edges with with fair xln development and very light brown stain on edge that increases in color to brown when left under lamp, very slow weak cut with dull fluorescence, NSFO, poor odor

LS, cream to gray, micro-xln, some scattered fossiliferous with poor visible porosity, also with abundant white, micro-xln, very soft and chalky in part, friable, some chalk in sample, no shows or odor,

LS, gray to cream, micro-crypto xln, mostly lithographic, hard and dense with poor visible porosity, also with some white as above, no shows or odor

LS, mostly white, micro-xln, very soft and chalky in part, friable, also with some cream, micro-crypto xln, dense with poor visible porosity, some chalk in sample, no shows or odor

LS, cream with some light gray, micro-crypto xln, some sub-oomoldic to oomoldic with poor visible oomold porosity, dense, overall mostly dense with poor visible porosity, some chalky, no shows or odor

LS, gray to tan/light brown, micro-crypto xln, hard and dense with no visible porosity, some scattered cream, sub-oomoldic as above, dense, no shows or odor

LS, cream to light gray, mostly dense with poor visible porosity, some soft and chalky, chalky sample, no shows or odor

LS, cream to gray with some scattered light brown, micro-crypto xln, dense with poor visible porosity, no shows or odor

LS, cream with some scattered gray, micro-xln, mostly dense with poor visible porosity, slightly chalky, no shows or odor

LS, cream to white, micro-xln, some very soft and chalky, friable, some scattered cream colored sub-oomoldic, mostly dense with poor visible oomold porosity, some friable, chalky, no shows or odor

LS, cream to gray with some scattered light brown, micro-crypto xln, mostly hard and dense with poor visible porosity, some scattered soft and chalky, no shows or odor

LS, cream, micro-xln, mostly oomoldic with poor visible oomold porosity, some dense, some brittle, no shows or odor

LS, cream, mostly crypto-xln with some micro-xln, lithographic, hard and dense with poor visible porosity, no shows or odor

**Stark Shale 3695 (-1707)**

LS, mostly same as above, with trace black shale, soft and waxy

LS, cream to white with some light gray, micro-crypto xln, some hard and dense, some very soft and chalky in part, slightly chalky sample, no shows or odor

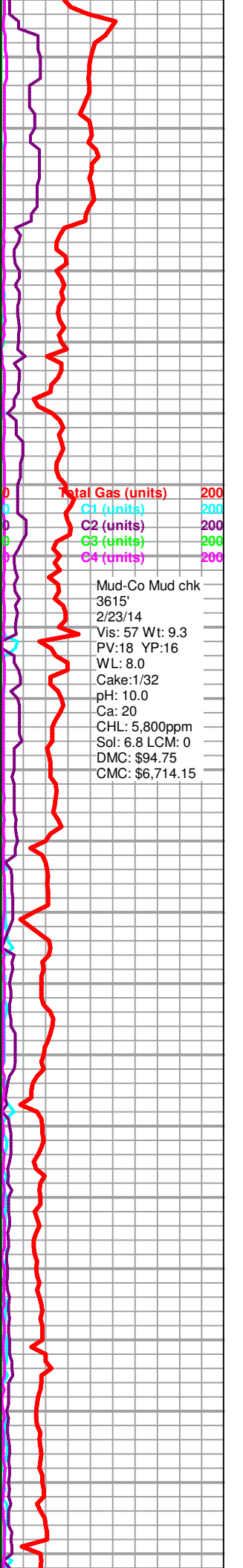
LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, some soft and chalky, no shows or odor

LS, cream to white with some gray, micro-xln, mostly dense with poor visible porosity, some scattered soft and chalky, also with abundant gray shale with trace red, no shows or odor

LS, mostly gray with some cream, micro-xln, dense with poor visible porosity, chalky, no shows or odor

**BKC 3741 (-1753)**

Shale, gray and red, soft and waxy



Mud-Co Mud chk  
 3615'  
 2/23/14  
 Vis: 57 Wt: 9.3  
 PV:18 YP:16  
 WL: 8.0  
 Cake:1/32  
 pH: 10.0  
 Ca: 20  
 CHL: 5,800ppm  
 Sol: 6.8 LCM: 0  
 DMC: \$94.75  
 CMC: \$6,714.15

Shale as above

### Marmaton 3762 (-1774)

LS, cream to gray, micro-xln, some scattered fossiliferous, mostly dense with poor visible porosity, no shows or odor

Mostly LS as above, with some gray and red shale, poor sample very small crushed up chips

### Conglomerate 3785 (-1797)

Mixed gray and red shales and cream to gray LS, red wash, no shows or odor

Mixed cream to gray LS, red and gray shale, and some scattered white, tan, orange, red and opaque cherts, heavy red wash, no shows or odor

### Conglomerate Chert/Sand 3797 (-1809)

Fenwick#1-35DST#2.jpg

3819' 30" Chert, vari-colored white, tan, brown, orange, opaque, some tripolitic, some with tripolitic edges, some chips with large vugs and good visible porosity with brown to black mostly saturated to saturated stain, some chips bleeding gas bubbles, slow streaming cut with milky white fluorescence, also with some vf very scattered sub-rounded to rounded quartz grains in bottom of tray, found one small sand cluster, sub-rounded to sub-angular, poorly sorted, friable, saturated brown stain, slight show free oil upon break, fair to good show free oil in tray, good odor

3819' 60" Vari-colored cherts as above, some scattered tripolitic as above, shows appear to be dropping out, some very scattered quartz grains at bottom of tray, also appear to be less than above, fair to good show free oil in tray, fair odor

~45/45% Mix of gray and red shale with trace green and tan to white with trace brown and opaque chert, fresh and sharp, some with tripolitic edges and brown to black stain, very weak to no cut, also with some scattered LS, some sub-oolitic to sub-ooloidic, no red wash

As above, with influx of tan to white chert, ~(70%chrt/30%sh), very chalky

Mixed Cherts and shales with some scattered LS as above, also with some fused quartz and chert aggregate, composed of white to cream chert fragments and silicified fossil fragment inclusions and spicules within mostly amorphous fused and layered transparent quartz crystal matrix, exhibits some well developed crystalline quartz growths on edges and within vugs, scattered to mostly saturated black stain, slow streaming cut with dull fluorescence

Mixed shales cherts and LS, also with green and yellow shale and some scattered SS clusters, fine grained, brown, sub-rounded to sub-angular grains, poorly sorted, some fairly well cemented, some friable, when crushed some clusters have SSFO, poor odor in cup, red wash

### Simpson Shale 3874 (-1886)

Mostly shale, gray to green and yellow with some red, also few SS clusters as above, fair odor in cup, SSFO

### Simpson Sand 3884 (-1896)

Fenwick#1-35DST#3.jpg

3897' 30" Mixed shales as above, with some cherts and LS, also with some SS, vf-f, clear to brown, sub-rounded to sub-angular, friable, fairly well sorted, calcareous, some clusters slowly bleeding free oil droplets to surface, upon break clusters have fair to good show free oil, fair to good show free oil in tray, good odor in cup

60" Mixed shales with some scattered chert and LS as above, few very scattered SS clusters as above as well, with some scattered vf loose quartz grains in bottom of tray, NSFO, poor odor in cup

Shale, gray with some red, yellow, and green, mostly soft and waxy, some blocky and dense, with scattered SS, clear to black, medium to coarse grained, poorly sorted with some scattered shale and chert inclusions and some white clay filled, some friable, some fairly well cemented with black stain, NSFO, also with some green to gray clay with quartz grains trapped, fair odor

### Arbuckle 3924 (-1936)

Fenwick#1-35DST#4.jpg

3931' 30" Dolomite, cream, micro-xln, some weathered and dense with poor visible porosity, some (~25%) sub-sucrosic to sucrosic with fair development and poor to fair visible porosity, scattered to mostly saturated brown stain, some slowly bleeding free oil, few chips (~5-10%) rhombic, with several scattered vugs to fair vuggy porosity, bleeding free oil and gas bubbles, also with some very scattered black SS clusters as above, NSFO form clusters, good show free oil in tray, strong pungent odor in cup

60" Dolomite, micro-xln, some weathered and desnse with poor visible porosity, mostly barren, some with poor to fair development and poor to fair visible porosity with few chips slowly bleeding free oil, few chips with fair rhombic development and several small scattered vugs, slowly bleeding free oil, fair show free oil in tray, fair pungent odor in cup

Dolomite, cream, micro-xln, some dense with poor visible porosity, some sub-sucrosic with some very scattered sucrosic, some friable, barren, poor fleeting odor in cup

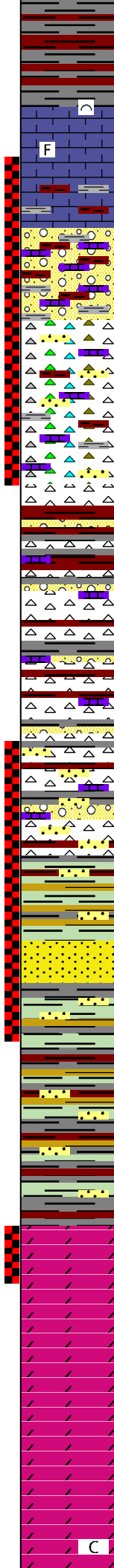
\*\*False Foot 3760.5 - 3761.5\*\*

ROP (min/ft)  
Gamma (API)  
Cal (in)

CFS @ 3819'  
2020hrs  
2/23/14

CFS @ 3897'  
1715hrs  
2/24/14

Bit Bounce @ 3927'  
CFS @ 3931'  
0940hrs  
2/25/14



D  
S  
T  
#  
1  
2

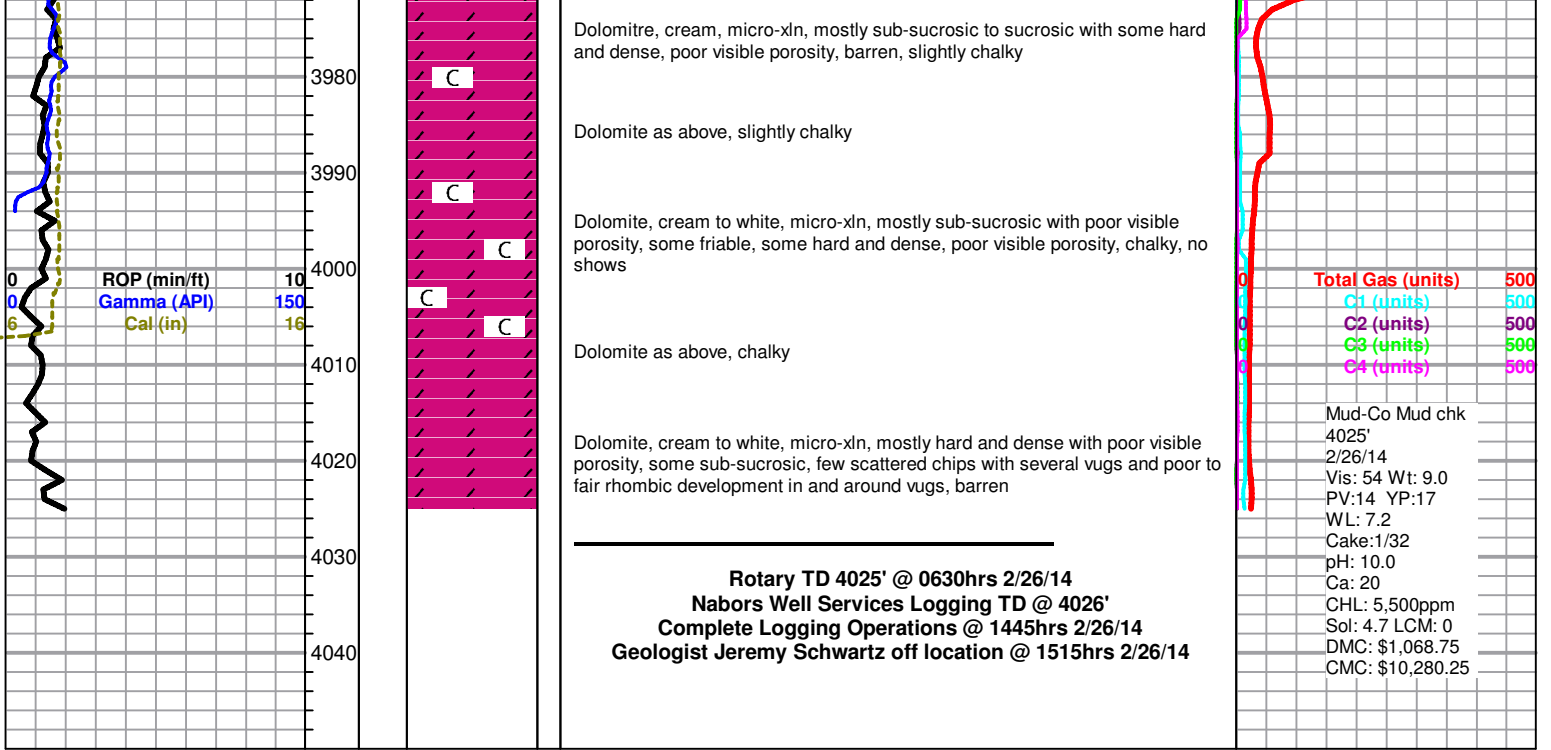
D  
S  
T  
#  
3  
4

Total Gas (units) 200  
C1 (units) 200  
C2 (units) 200  
C3 (units) 200  
C4 (units) 200

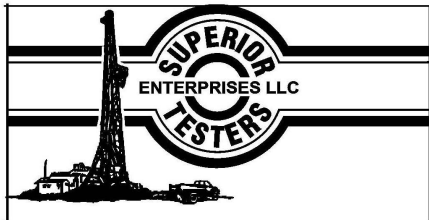
Scale Change  
Total Gas (units) 500  
C1 (units) 500  
C2 (units) 500  
C3 (units) 500  
C4 (units) 500

Trip Gas from DST #2

Mud-Co Mud chk  
3912'  
2/25/14  
Vis: 68 Wt: 9.2  
PV:16 YP:22  
WL: 6.4  
Cake:1/32  
pH: 10.0  
Ca: 20  
CHL: 4,800ppm  
Sol: 6.2 LCM: 0  
DMC: \$990.95  
CMC: \$9,211.50



**Rotary TD 4025' @ 0630hrs 2/26/14**  
**Nabors Well Services Logging TD @ 4026'**  
**Complete Logging Operations @ 1445hrs 2/26/14**  
**Geologist Jeremy Schwartz off location @ 1515hrs 2/26/14**



# DRILL STEM TEST REPORT

Shelby Resources LLC

35/21s/16w/Pawnee

2717 Canal Blvd Suite C  
Hays Ks, 67601

Fenwick #1-35

Job Ticket: 19203

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.02.22 @ 22:00:00

## GENERAL INFORMATION:

Formation: **LKC "B-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:21:00  
 Time Test Ended: 05:00:30  
 Interval: **3535.00 ft (KB) To 3563.00 ft (KB) (TVD)**  
 Total Depth: 3535.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

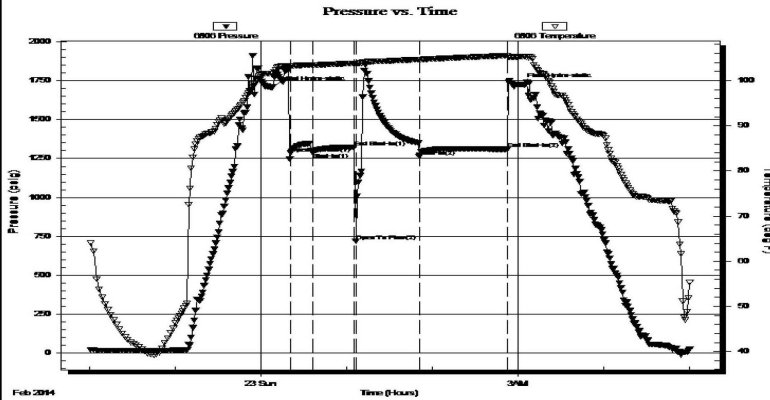
Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzern  
 Unit No: 3330/60/Great Bend  
 Reference Elevations: 1988.00 ft (KB)  
 1975.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 6806

## Inside

Press@RunDepth: 1263.28 psig @ 3559.00 ft (KB)  
 Start Date: 2014.02.22 End Date: 2014.02.23  
 Start Time: 22:00:00 End Time: 05:00:30  
 Capacity: 5000.00 psig  
 Last Calib.: 2014.02.23  
 Time On Btm: 2014.02.23 @ 00:08:30  
 Time Off Btm: 2014.02.23 @ 03:01:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.  
 1st Shut In/ 30 Minutes. No blow back.  
 2nd Open/ 45 Minutes. No blow, flushed tool had good flush bubbles and gained a weak surface blow.  
 2nd Shut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.76	101.56	Initial Hydro-static
13	1284.63	103.20	Open To Flow (1)
28	1285.31	103.44	Shut-In(1)
57	1323.34	103.84	End Shut-In(1)
58	717.41	103.72	Open To Flow (2)
103	1263.28	104.65	Shut-In(2)
164	1310.39	105.54	End Shut-In(2)
173	1726.18	105.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.02

## Gas Rates

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

**DRILL STEM TEST REPORT**

Shelby Resources LLC

**35/21s/16w/Pawnee**

2717 Canal Blvd Suite C  
Hays Ks, 67601

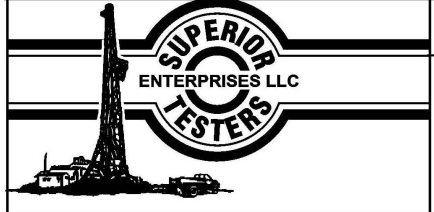
**Fenwick #1-35**

Job Ticket: 19204

**DST#: 2**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 00:00:00

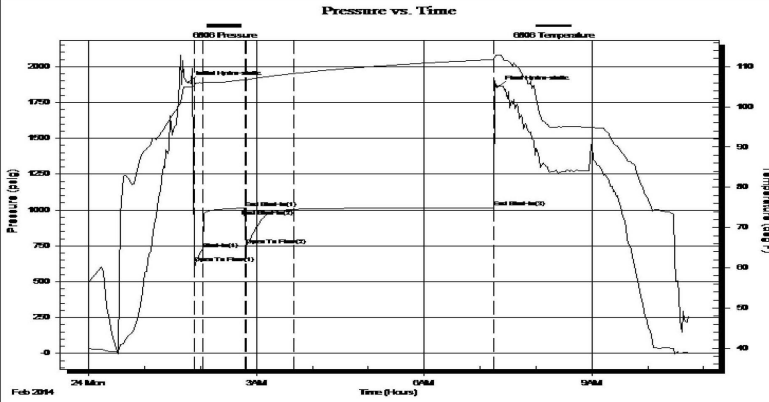


**GENERAL INFORMATION:**

Formation: **Conglomerate**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:53:00  
 Time Test Ended: 10:44:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzern  
 Unit No: 3330/60/Great Bend  
 Interval: **3774.00 ft (KB) To 3819.00 ft (KB) (TVD)**  
 Total Depth: 3819.00 ft (KB) (TVD)  
 Reference Elevations: 1988.00 ft (KB)  
 1975.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 KB to GR/CF: 13.00 ft

**Serial #: 6806 Inside**  
 Press@RunDepth: 726.90 psig @ 3815.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.24 Last Calib.: 2014.02.24  
 Start Time: 00:00:00 End Time: 10:44:00 Time On Btm: 2014.02.24 @ 01:47:00  
 Time Off Btm: 2014.02.24 @ 07:19:00

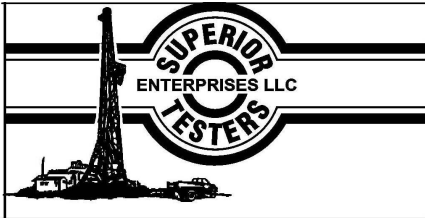
**TEST COMMENT:** 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket in 30 seconds.  
 1st Shut In/ 45 Minutes. Blow back built to bottom of 5 gallon bucket. Gas to surface in 5 minutes.  
 2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 30 seconds.  
 2nd Shut In/ 90 Minutes. Oil to surface 5 minutes into shut in.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.58	105.02	Initial Hydro-static
6	631.14	105.25	Open To Flow (1)
16	726.90	105.99	Shut-In(1)
61	1013.14	106.77	End Shut-In(1)
62	753.34	106.74	Open To Flow (2)
113	1004.62	108.26	End Shut-In(2)
328	1019.44	111.75	End Shut-In(3)
332	1858.84	112.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2772.00	100% Clean Gassy Oil.	35.88
0.00	Oil Gravity corrected to 41	0.00
0.00	reversed fluid out to a truck.	0.00

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



# DRILL STEM TEST REPORT

Shelby Resources LLC

35/21s/16w/Pawnee

2717 Canal Blvd Suite C  
Hays Ks, 67601

**Fenwick #1-35**

Job Ticket: 19205

**DST#: 3**

ATTN: Jeremy Schwartz

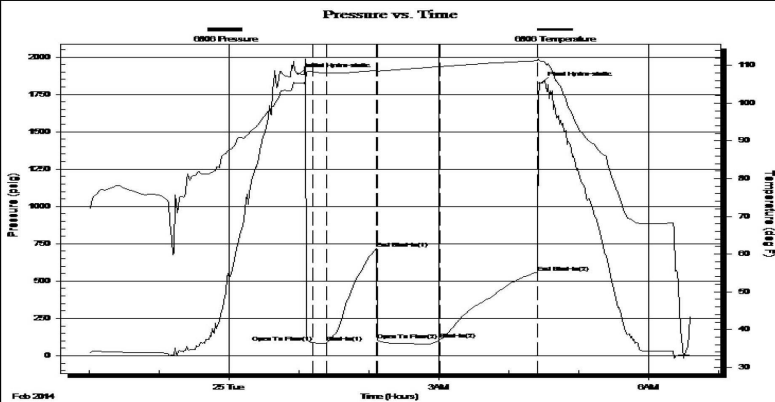
Test Start: 2014.02.24 @ 22:00:00

**GENERAL INFORMATION:**

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:30  
 Time Test Ended: 06:36:30  
 Interval: **3857.00 ft (KB) To 3897.00 ft (KB) (TVD)**  
 Total Depth: 3897.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzern  
 Unit No: 3330/60/Great Bend  
 Reference Elevations: 1988.00 ft (KB)  
 1975.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 6806 Inside**  
 Press@RunDepth: 107.65 psig @ 3893.00 ft (KB)  
 Start Date: 2014.02.24 End Date: 2014.02.25 Capacity: 5000.00 psig  
 Start Time: 22:00:00 End Time: 06:36:30 Last Calib.: 2014.02.25  
 Time On Btm: 2014.02.25 @ 00:59:30  
 Time Off Btm: 2014.02.25 @ 04:27:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 1 1/2 inches into water.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Fair blow built to 4 inches into water.  
 2nd Shut In/ 90 Minutes. No blow back.



**PRESSURE SUMMARY**

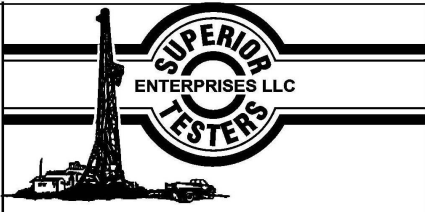
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.69	105.30	Initial Hydro-static
12	88.68	108.32	Open To Flow (1)
25	89.47	107.96	Shut-In(1)
67	718.17	108.64	End Shut-In(1)
68	104.67	108.51	Open To Flow (2)
122	107.65	109.70	Shut-In(2)
205	558.75	111.24	End Shut-In(2)
208	1825.76	111.11	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	20% Oil, 80% Mud	0.15

**Gas Rates**

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



# DRILL STEM TEST REPORT

Shelby Resources LLC

35/21s/16w/Pawnee

2717 Canal Blvd Suite C  
Hays Ks, 67601

Fenwick #1-35

Job Ticket: 19206

DST#: 4

ATTN: Jeremy Schwartz

Test Start: 2014.02.25 @ 12:20:00

## GENERAL INFORMATION:

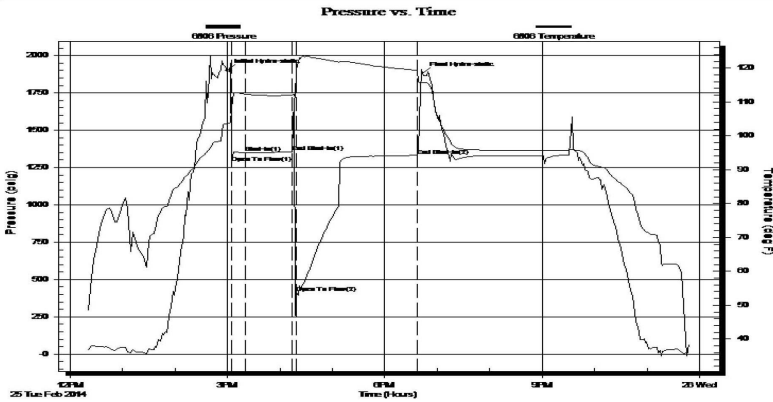
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:05:00  
 Time Test Ended: 23:48:00  
 Interval: **3924.00 ft (KB) To 3931.00 ft (KB) (TVD)**  
 Total Depth: 3931.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Reference Elevations: 1988.00 ft (KB)  
 1975.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 6806

## Inside

Press@RunDepth: 1348.66 psig @ 3927.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.25 End Date: 2014.02.26 Last Calib.: 2014.02.26  
 Start Time: 12:20:00 End Time: 23:48:00 Time On Btm: 2014.02.25 @ 14:59:30  
 Time Off Btm: 2014.02.25 @ 18:43:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak blow built to 2 inches into bucket of deisel.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. No blow, flushed tool and gained good blow to bottom of 5 gallon bucket of deisel.  
 2nd Shut In/ 90 Minutes. Blow back built to 2 inches into bucket of deisel.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.31	103.68	Initial Hydro-static
6	1281.08	107.71	Open To Flow (1)
21	1348.66	112.27	Shut-In(1)
75	1352.46	111.97	End Shut-In(1)
80	408.70	119.68	Open To Flow (2)
217	1331.59	119.35	End Shut-In(2)
224	1882.89	115.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2709.00	Clean oil	35.00
0.00	reversed fluid to truck due to presence of H2S gas.	0.00
0.00	Oil corrected gravity was 42.	0.00

## Gas Rates

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