



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1116857  
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: \_\_\_\_\_



1116857

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
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<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> <i>(Submit ACO-4)</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	Prosser 1-36
Doc ID	1116857

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources**

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

### **Prosser 1-36**

### **36-21s-16w-Pawnee**

Start Date: 2012.11.22 @ 08:43:00

End Date: 2012.11.22 @ 17:59:53

Job Ticket #: 17870                      DST #: 1

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

Printed: 2012.11.23 @ 05:14:04



# DRILL STEM TEST REPORT

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

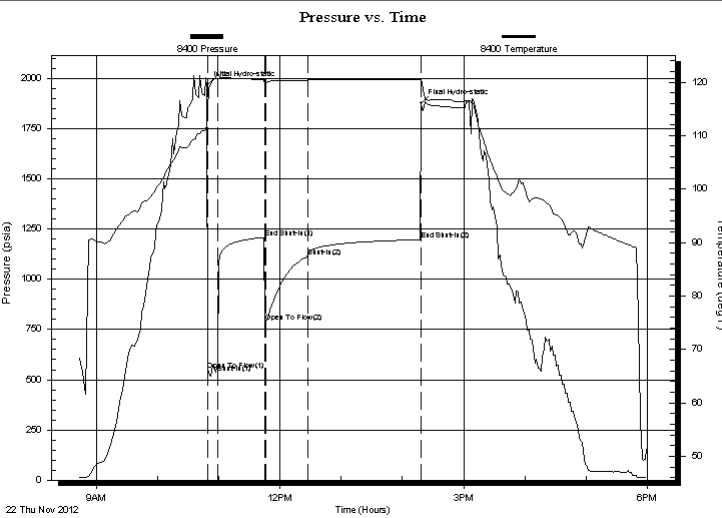
**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17870 **DST#: 1**  
 Test Start: 2012.11.22 @ 08:43:00

## GENERAL INFORMATION:

Formation: **Simpson sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:48:53  
 Time Test Ended: 17:59:53  
 Interval: **3712.00 ft (KB) To 3868.00 ft (KB) (TVD)**  
 Total Depth: 3868.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-58  
 Reference Elevations: 1987.00 ft (KB)  
 1977.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8400 Outside**  
 Press @ Run Depth: 1113.76 psia @ 3865.91 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.11.22 End Date: 2012.11.22 Last Calib.: 2012.11.23  
 Start Time: 08:43:23 End Time: 17:59:53 Time On Btm: 2012.11.22 @ 10:48:23  
 Time Off Btm: 2012.11.22 @ 14:18:23

**TEST COMMENT:** 1st Open 10 minutes Strong blow blew bottom bucket 1 minute.  
 1st Shut in 45 minutes No blow back  
 2nd Open 45 minutes Strong blow blew bottom bucket 1 minute.  
 2nd Shut in 90 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1964.74	111.86	Initial Hydro-static
1	550.47	114.74	Open To Flow (1)
11	578.22	121.27	Shut-In (1)
56	1208.26	120.49	End Shut-In (1)
57	785.76	119.67	Open To Flow (2)
99	1113.76	120.32	Shut-In (2)
210	1197.93	120.46	End Shut-In (2)
210	1876.63	120.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
671.00	Mud cut oil 3% Oil 97% Mud	6.36
610.00	Mud cut gassy oil	8.56
0.00	75% Mud 20% Gas 5% Oil	0.00
608.00	Oil plus gas cut muddy w water	8.53
0.00	Mud 5% Water 30% Gas 55% Oil 5%	0.00
0.00	Chlorides 46,000 67degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

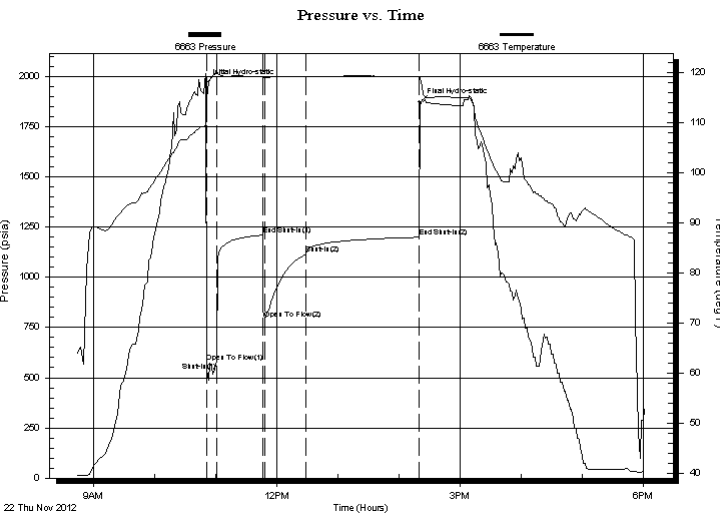
**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17870 **DST#: 1**  
 Test Start: 2012.11.22 @ 08:43:00

## GENERAL INFORMATION:

Formation: **Simpson sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:48:53  
 Time Test Ended: 17:59:53  
 Interval: **3712.00 ft (KB) To 3868.00 ft (KB) (TVD)**  
 Total Depth: 3868.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-58  
 Reference Elevations: 1987.00 ft (KB)  
 1977.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6663 Inside**  
 Press @ RunDepth: 1199.29 psia @ 3864.91 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.11.22 End Date: 2012.11.22 Last Calib.: 2012.11.23  
 Start Time: 08:44:00 End Time: 18:01:30 Time On Btm: 2012.11.22 @ 10:50:00  
 Time Off Btm: 2012.11.22 @ 14:20:30

**TEST COMMENT:** 1st Open 10 minutes Strong blow blew bottom bucket 1 minute.  
 1st Shut in 45 minutes No blow back  
 2nd Open 45 minutes Strong blow blew bottom bucket 1 minute.  
 2nd Shut in 90 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1964.93	110.04	Initial Hydro-static
1	579.24	110.17	Open To Flow (1)
11	575.88	119.87	Shut-In(1)
56	1209.58	119.15	End Shut-In(1)
58	790.82	118.72	Open To Flow (2)
99	1114.31	119.12	Shut-In(2)
210	1199.29	119.19	End Shut-In(2)
211	1870.06	119.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
671.00	Mud cut oil 3% Oil 97%Mud	6.36
610.00	Mud cut gassy oil	8.56
0.00	75% Mud 20% Gas 5% Oil	0.00
608.00	Oil plus gas cut muddy w water	8.53
0.00	Mud 5% Water30% Gas55% Oil5%	0.00
0.00	Chlorides 46,000 67degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17870      **DST#: 1**  
 Test Start: 2012.11.22 @ 08:43:00

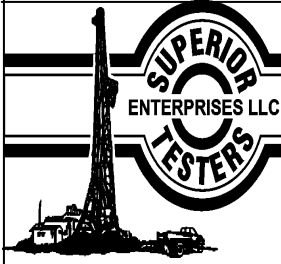
**Tool Information**

Drill Pipe:	Length: 3482.00 ft	Diameter: 3.80 inches	Volume: 48.84 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:	20000.00 lb
Drill Collar:	Length: 217.63 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 48.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.63 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	3712.00 ft			Final	79000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	156.91 ft				
Tool Length:	176.91 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			3697.00	
Hydraulic Tool	5.00			3702.00	
Packer	5.00			3707.00	20.00      Bottom Of Top Packer
Packer	5.00			3712.00	
Anchor	5.00			3717.00	
Change Over Sub	0.75			3717.75	
Drill Pipe	127.41			3845.16	
Change Over Sub	0.75			3845.91	
Anchor	18.00			3863.91	
Recorder	1.00	6663	Inside	3864.91	
Recorder	1.00	8400	Outside	3865.91	
Bull Plug	3.00			3868.91	156.91      Bottom Packers & Anchor

**Total Tool Length: 176.91**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17870      **DST#: 1**  
 Test Start: 2012.11.22 @ 08:43:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.40 ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

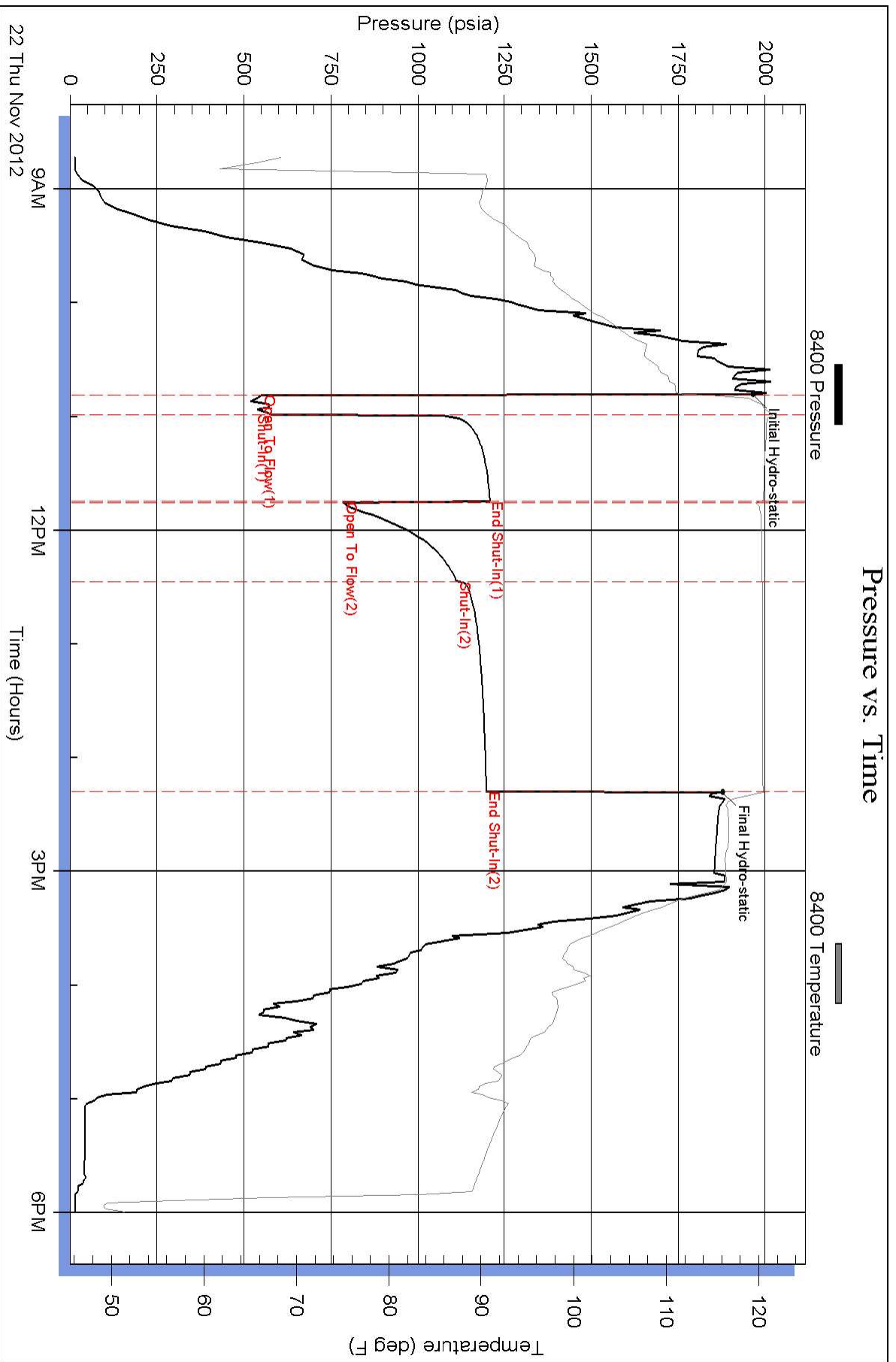
Recovery Table

Length ft	Description	Volume bbl
671.00	Mud cut oil 3% Oil 97%Mud	6.360
610.00	Mud cut gassy oil	8.557
0.00	75% Mud 20% Gas 5% Oil	0.000
608.00	Oil plus gas cut muddy w water	8.529
0.00	Mud 5% Water30% Gas55% Oil5%	0.000
0.00	Chlorides 46,000 67degrees	0.000

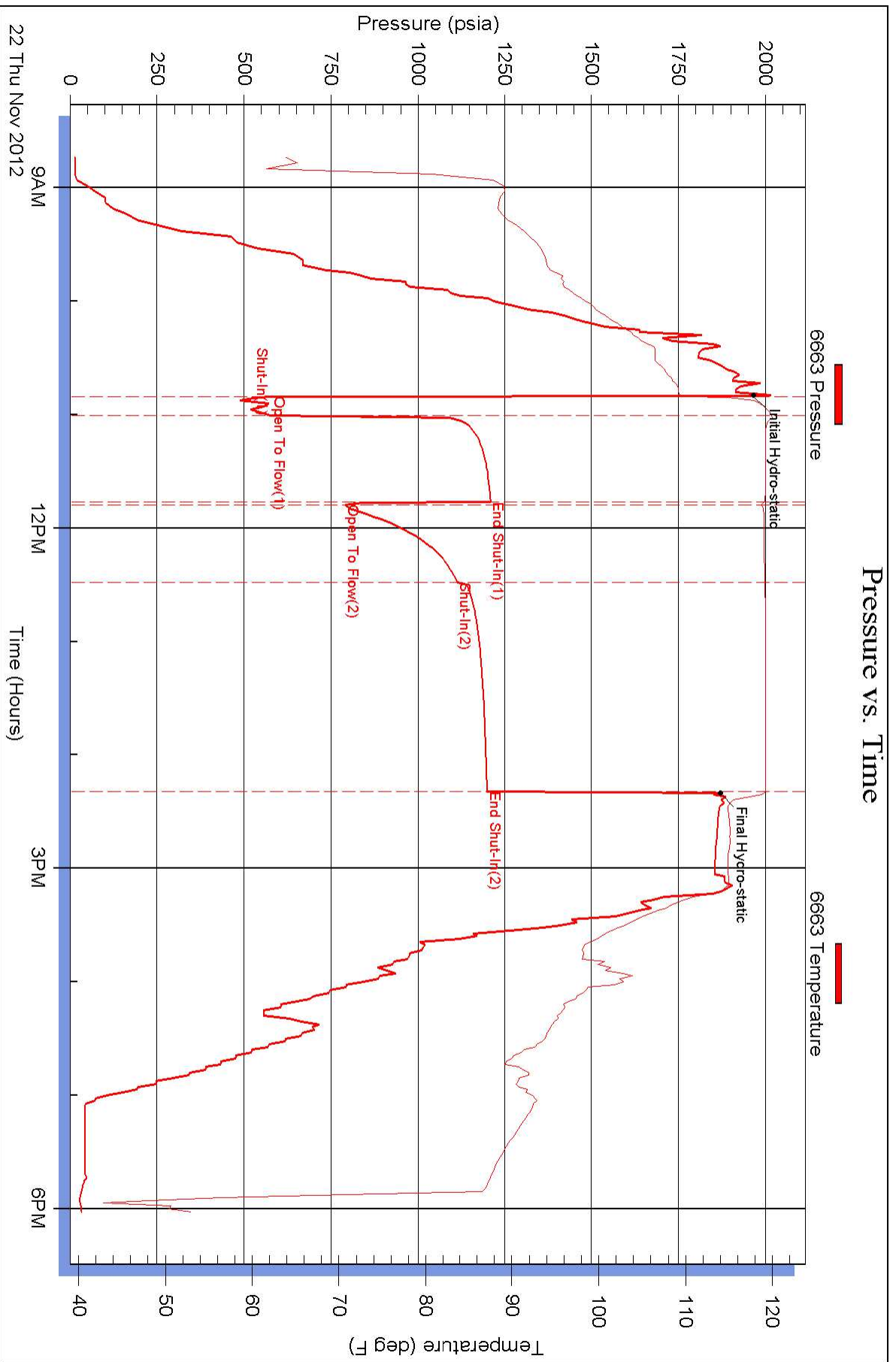
Total Length: 1889.00 ft      Total Volume: 23.446 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources**

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

### **Prosser 1-36**

### **36-21s-16w-Pawnee**

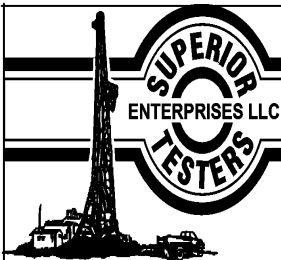
Start Date: 2012.11.23 @ 03:45:00

End Date: 2012.11.23 @ 10:16:00

Job Ticket #: 17871                      DST #: 2

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

Printed: 2012.11.23 @ 20:33:05



# DRILL STEM TEST REPORT

Shelby Resources  
2717 Canal Blvd. Hays Kansas 67601  
ATTN: Keith Reavis

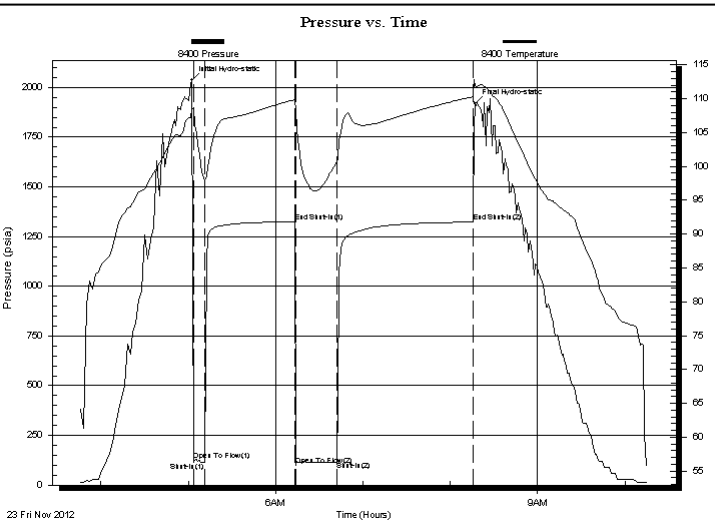
**36-21s-16w-Pawnee**  
**Prosser 1-36**  
Job Ticket: 17871      **DST#: 2**  
Test Start: 2012.11.23 @ 03:45:00

## GENERAL INFORMATION:

Formation: **Arbuckel**  
Deviated: No Whipstock:                          ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 05:03:30                          Tester: Dustin Ellis  
Time Test Ended: 10:16:00                          Unit No: 3315-Great Bend-58  
  
Interval: **3901.00 ft (KB) To 3915.00 ft (KB) (TVD)**      Reference Elevations: 1987.00 ft (KB)  
Total Depth: 3915.00 ft (KB) (TVD)                          1977.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair                          KB to GR/CF: 10.00 ft

**Serial #: 8400      Outside**  
Press @ Run Depth: 117.25 psia @ 3912.00 ft (KB)      Capacity: 5000.00 psia  
Start Date: 2012.11.23      End Date: 2012.11.23      Last Calib.: 2012.11.23  
Start Time: 03:45:00      End Time: 10:16:00      Time On Btm: 2012.11.23 @ 05:02:30  
Time Off Btm: 2012.11.23 @ 08:17:00

**TEST COMMENT:** 1st Open 10 minutes Strong blow blew bottom bucket 1 minutes.  
1st Shut in 60 minutes Yes blow back  
2nd Open 30 minutes Strong blow blew bottom instantly.  
2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2036.06	108.46	Initial Hydro-static
1	125.32	108.67	Open To Flow (1)
9	114.84	97.84	Shut-In(1)
71	1323.37	109.87	End Shut-In(1)
71	101.17	108.21	Open To Flow (2)
100	117.25	100.69	Shut-In(2)
193	1322.67	110.29	End Shut-In(2)
195	1919.63	111.89	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
190.00	Gassy oil cut mud	0.93
0.00	Gas 30% Oil 65% Mud 5%	0.00
0.00	Gas to surface in 6 minutes .	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	9.40	270.24



# DRILL STEM TEST REPORT

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

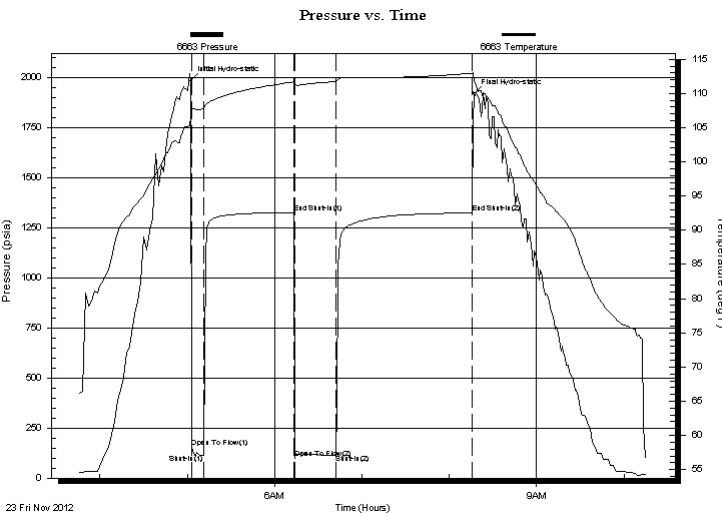
**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17871 **DST#: 2**  
 Test Start: 2012.11.23 @ 03:45:00

## GENERAL INFORMATION:

Formation: **Arbuckel**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 05:03:30 Tester: Dustin Ellis  
 Time Test Ended: 10:16:00 Unit No: 3315-Great Bend-58  
 Interval: **3901.00 ft (KB) To 3915.00 ft (KB) (TVD)** Reference Elevations: 1987.00 ft (KB)  
 Total Depth: 3915.00 ft (KB) (TVD) 1977.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 6663 Inside**  
 Press @ Run Depth: 1325.08 psia @ 3911.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.11.23 End Date: 2012.11.23 Last Calib.: 2012.11.23  
 Start Time: 03:45:00 End Time: 10:16:00 Time On Btm: 2012.11.23 @ 05:02:30  
 Time Off Btm: 2012.11.23 @ 08:17:00

**TEST COMMENT:** 1st Open 10 minutes Strong blow blew bottom bucket 1 minutes.  
 1st Shut in 60 minutes Yes blow back  
 2nd Open 30 minutes Strong blow blew bottom instantly.  
 2nd Shut in 90 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1983.75	106.48	Initial Hydro-static
1	155.75	107.46	Open To Flow (1)
9	117.20	107.82	Shut-In(1)
71	1326.98	111.69	End Shut-In(1)
71	100.35	111.33	Open To Flow (2)
100	117.60	111.73	Shut-In(2)
193	1325.08	112.95	End Shut-In(2)
195	1921.50	111.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	Gassy oil cut mud	0.93
0.00	Gas 30% Oil 65% Mud 5%	0.00
0.00	Gas to surface in 6 minutes .	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	9.40	270.24



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17871      **DST#: 2**  
 Test Start: 2012.11.23 @ 03:45:00

**Tool Information**

Drill Pipe:	Length: 3663.00 ft	Diameter: 3.80 inches	Volume: 51.38 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:	20000.00 lb
Drill Collar:	Length: 217.63 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 52.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.63 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3901.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	42.00 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			3878.00	
Hydraulic Tool	5.00			3883.00	
Jars	6.00			3889.00	
Safety Joint	2.00			3891.00	
Packer	5.00			3896.00	28.00      Bottom Of Top Packer
Packer	5.00			3901.00	
Anchor	9.00			3910.00	
Recorder	1.00	6663	Inside	3911.00	
Recorder	1.00	8400	Outside	3912.00	
Bull Plug	3.00			3915.00	14.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17871      **DST#: 2**  
 Test Start: 2012.11.23 @ 03:45:00

### 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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

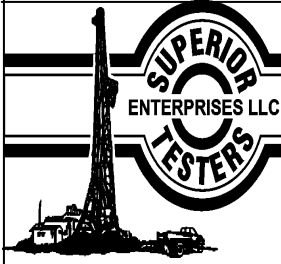
Length ft	Description	Volume bbl
190.00	Gassy oil cut mud	0.934
0.00	Gas 30% Oil 65% Mud 5%	0.000
0.00	Gas to surface in 6 minutes .	0.000

Total Length: 190.00 ft      Total Volume: 0.934 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: H2s detector w as flashing. Thats w hy one reading.



# DRILL STEM TEST REPORT

**GAS RATES**

Shelby Resources  
2717 Canal Blvd. Hays Kansas 67601  
ATTN: Keith Reavis

**36-21s-16w-Pawnee**  
**Prosser 1-36**  
Job Ticket: 17871      **DST#: 2**  
Test Start: 2012.11.23 @ 03:45:00

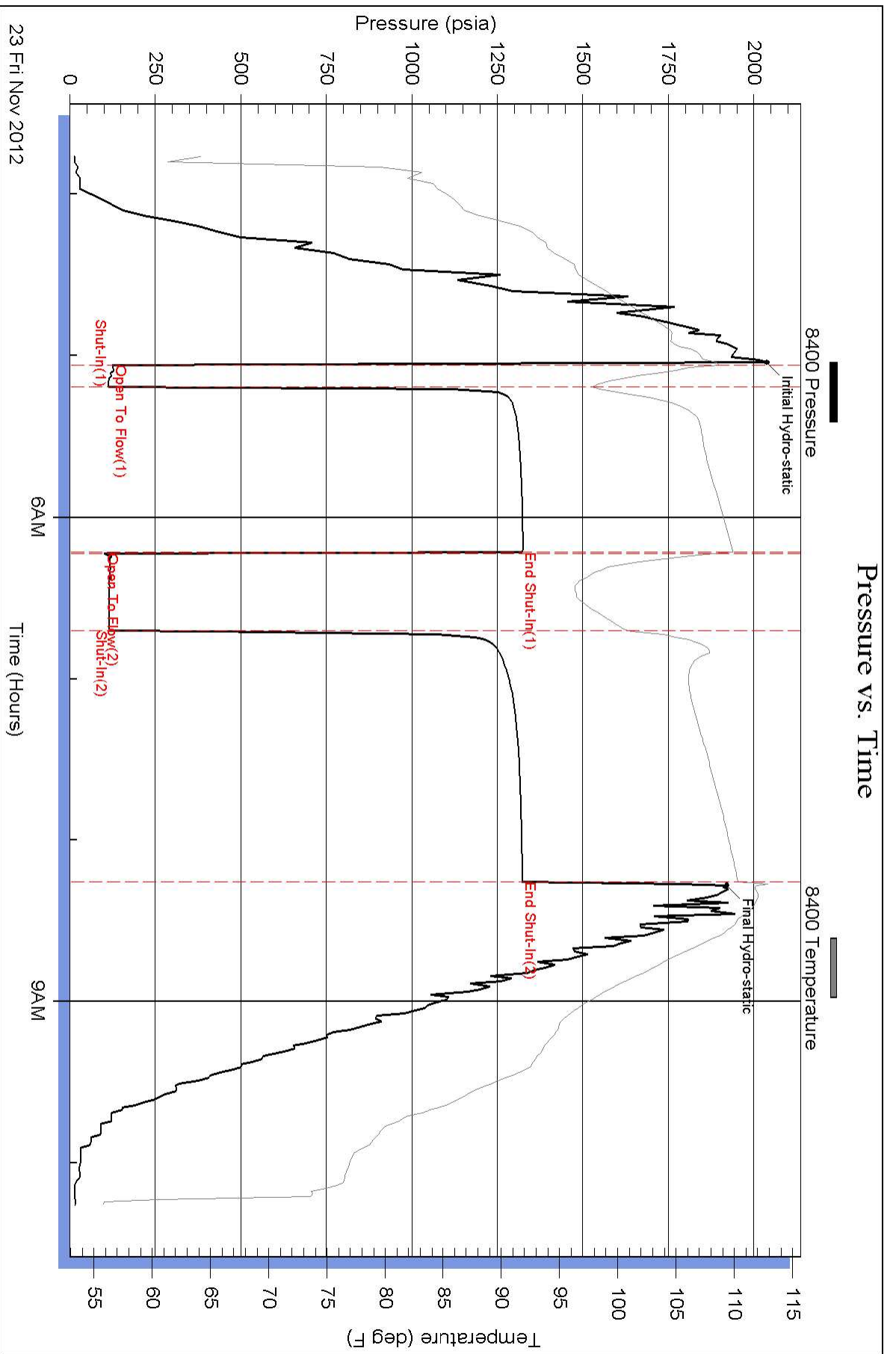
## Gas Rates Information

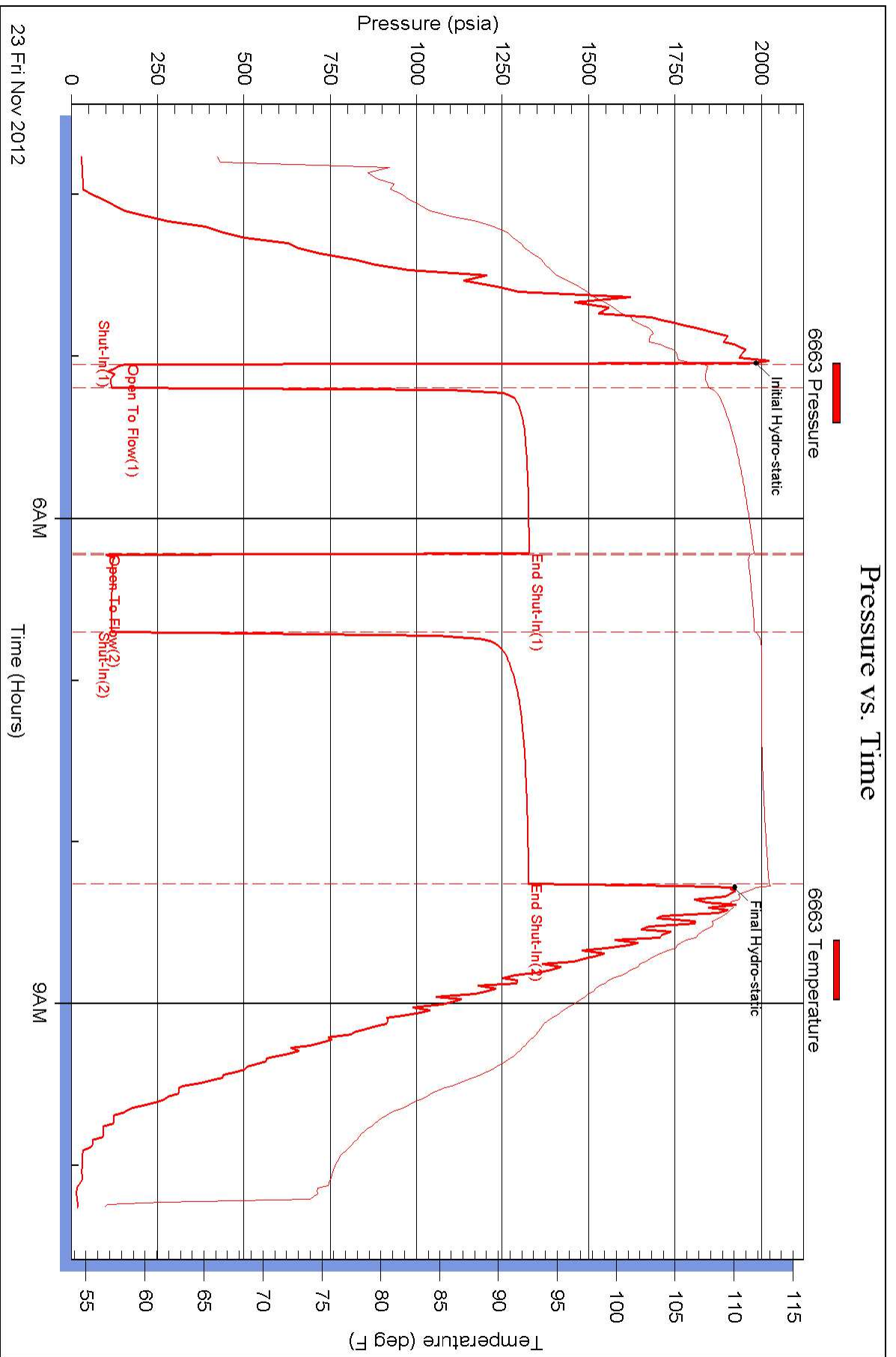
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	15	1.00	9.40	270.24









## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources**

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

### **Prosser 1-36**

### **36-21s-16w-Pawnee**

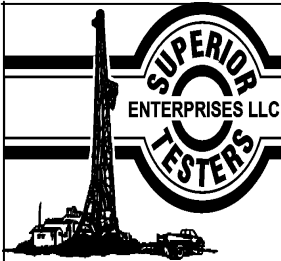
Start Date: 2012.11.24 @ 06:25:00

End Date: 2012.11.24 @ 14:36:00

Job Ticket #: 17872                      DST #: 3

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

Printed: 2012.11.24 @ 12:48:40



# DRILL STEM TEST REPORT

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

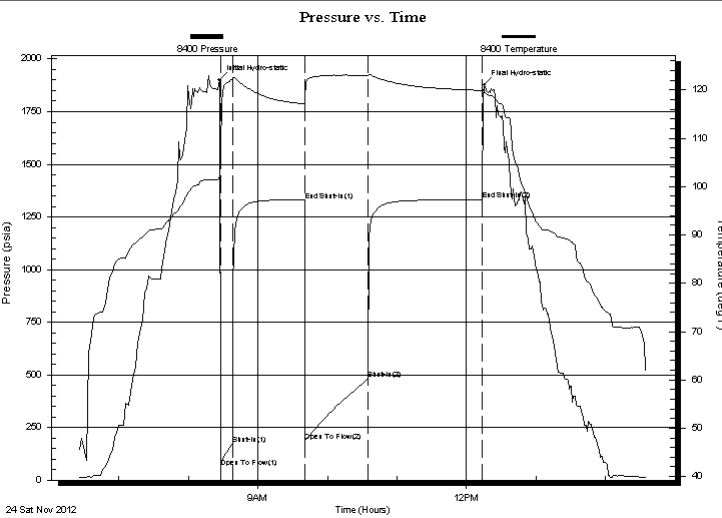
**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17872      **DST#: 3**  
 Test Start: 2012.11.24 @ 06:25:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 08:27:30  
 Time Test Ended: 14:36:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-58  
 Interval: **3920.00 ft (KB) To 3925.00 ft (KB) (TVD)**  
 Total Depth: 3925.00 ft (KB) (TVD)  
 Reference Elevations: 1987.00 ft (KB)  
 1977.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

**Serial #: 8400      Outside**  
 Press @ Run Depth: 478.31 psia @ 3922.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.11.24      End Date: 2012.11.24      Last Calib.: 2012.11.24  
 Start Time: 06:25:00      End Time: 14:36:00      Time On Btm: 2012.11.24 @ 08:26:30  
    Time Off Btm: 2012.11.24 @ 12:15:30

**TEST COMMENT:** 1st Open 10 minutes Strong blow blew bottom bucket 2 minutes.  
 1st Shut in 60 minutes Yes blow back  
 2nd Open 60 minutes Strong blow blew bottom bucket 6 minutes  
 2nd Shut in 90 minutes Yes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1899.69	101.93	Initial Hydro-static
1	60.70	107.78	Open To Flow (1)
12	172.43	122.18	Shut-In(1)
74	1328.65	117.16	End Shut-In(1)
74	186.83	118.54	Open To Flow (2)
128	478.31	122.98	Shut-In(2)
227	1330.97	119.89	End Shut-In(2)
230	1876.81	119.39	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	Oil cut muddy w ater	0.15
0.00	5%Oil 10%Mud Water85%	0.00
700.00	Water 100%	8.11
0.00	Chlorides 47,000@62degrees	0.00

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



# DRILL STEM TEST REPORT

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

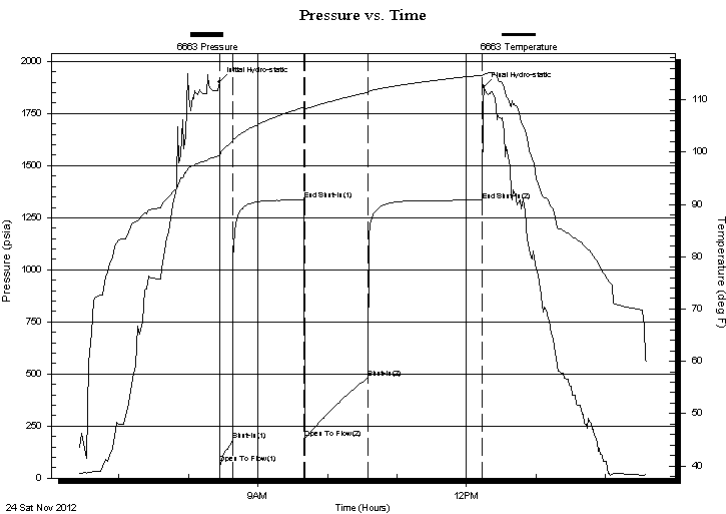
**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17872      **DST#: 3**  
 Test Start: 2012.11.24 @ 06:25:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 08:27:30  
 Time Test Ended: 14:36:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-58  
 Interval: **3920.00 ft (KB) To 3925.00 ft (KB) (TVD)**  
 Total Depth: 3925.00 ft (KB) (TVD)  
 Reference Elevations: 1987.00 ft (KB)  
 1977.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

**Serial #: 6663      Inside**  
 Press @ Run Depth: 1333.81 psia @ 3921.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.11.24      End Date: 2012.11.24      Last Calib.: 2012.11.24  
 Start Time: 06:25:00      End Time: 14:35:30      Time On Btm: 2012.11.24 @ 08:26:30  
 Time Off Btm: 2012.11.24 @ 12:15:00

**TEST COMMENT:** 1st Open 10 minutes Strong blow blew bottom bucket 2 minutes.  
 1st Shut in 60 minutes Yes blow back  
 2nd Open 60 minutes Strong blow blew bottom bucket 6 minutes  
 2nd Shut in 90 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1903.08	99.37	Initial Hydro-static
1	73.34	99.28	Open To Flow (1)
12	179.70	102.00	Shut-In(1)
73	1334.49	108.55	End Shut-In(1)
74	190.93	108.31	Open To Flow (2)
128	480.51	111.38	Shut-In(2)
227	1333.81	114.68	End Shut-In(2)
229	1879.62	114.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil cut muddy w ater	0.15
0.00	5%Oil 10%Mud Water85%	0.00
700.00	Water 100%	8.11
0.00	Chlorides 47,000@62degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

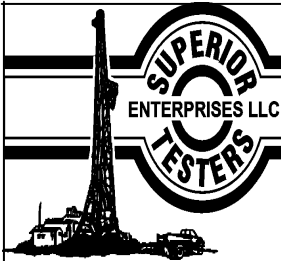
**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17872      **DST#: 3**  
 Test Start: 2012.11.24 @ 06:25:00

## Tool Information

Drill Pipe:	Length: 3691.00 ft	Diameter: 3.80 inches	Volume: 51.78 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:	20000.00 lb
Drill Collar:	Length: 217.63 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 52.85 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.63 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3920.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	5.00 ft				
Tool Length:	28.00 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			3902.00	
Hydraulic Tool	5.00			3907.00	
Jars	6.00			3913.00	
Safety Joint	2.00			3915.00	
Packer	5.00			3920.00	23.00      Bottom Of Top Packer
Packer	0.00			3920.00	
Anchor	0.00			3920.00	
Recorder	1.00	6663	Inside	3921.00	
Recorder	1.00	8400	Outside	3922.00	
Bull Plug	3.00			3925.00	5.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>28.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources  
 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

**36-21s-16w-Pawnee**  
**Prosser 1-36**  
 Job Ticket: 17872      **DST#: 3**  
 Test Start: 2012.11.24 @ 06:25:00

### Mud and Cushion Information

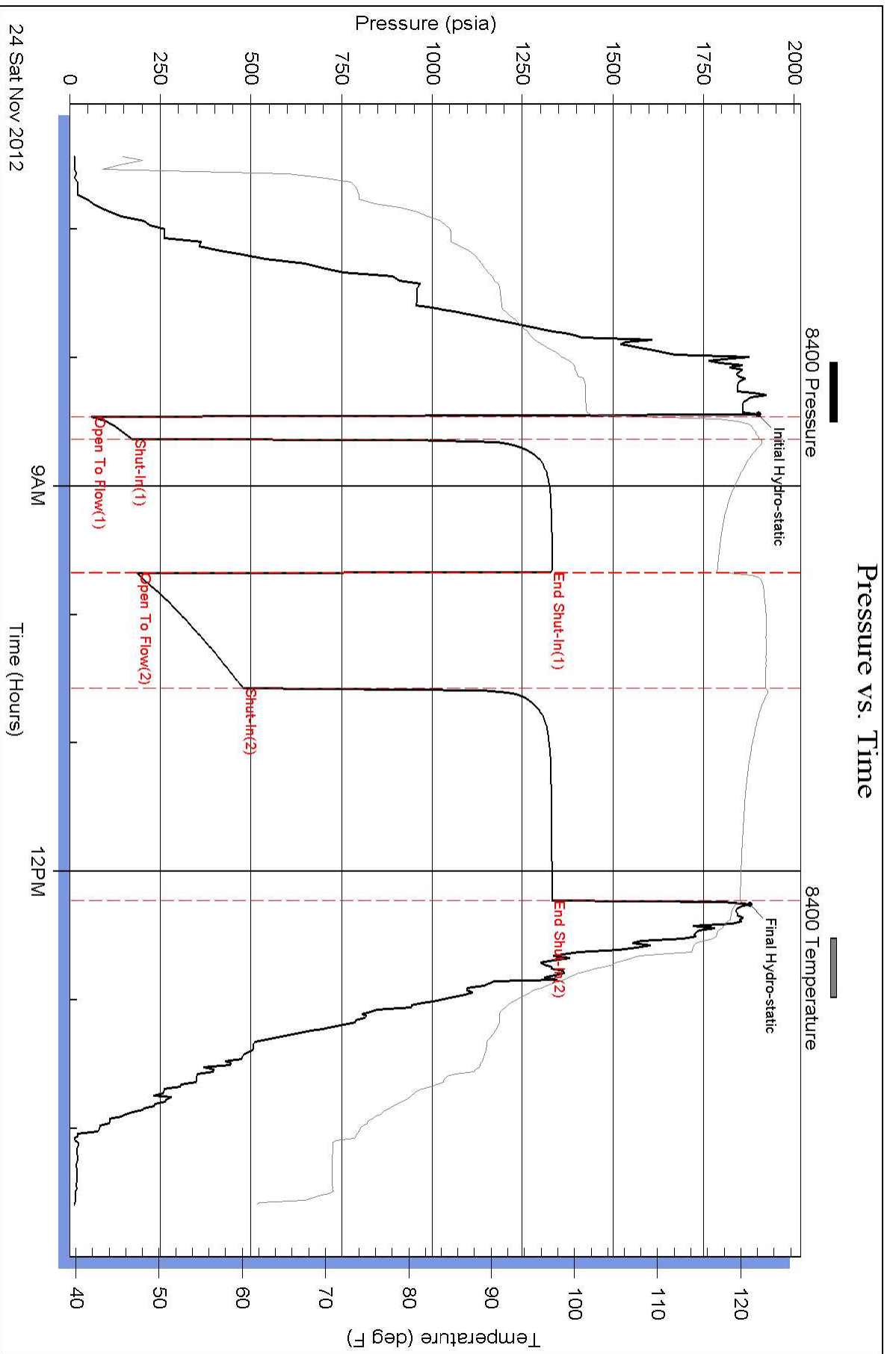
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.30 ohm.m	Gas Cushion Pressure: psia		
Salinity: 5700.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

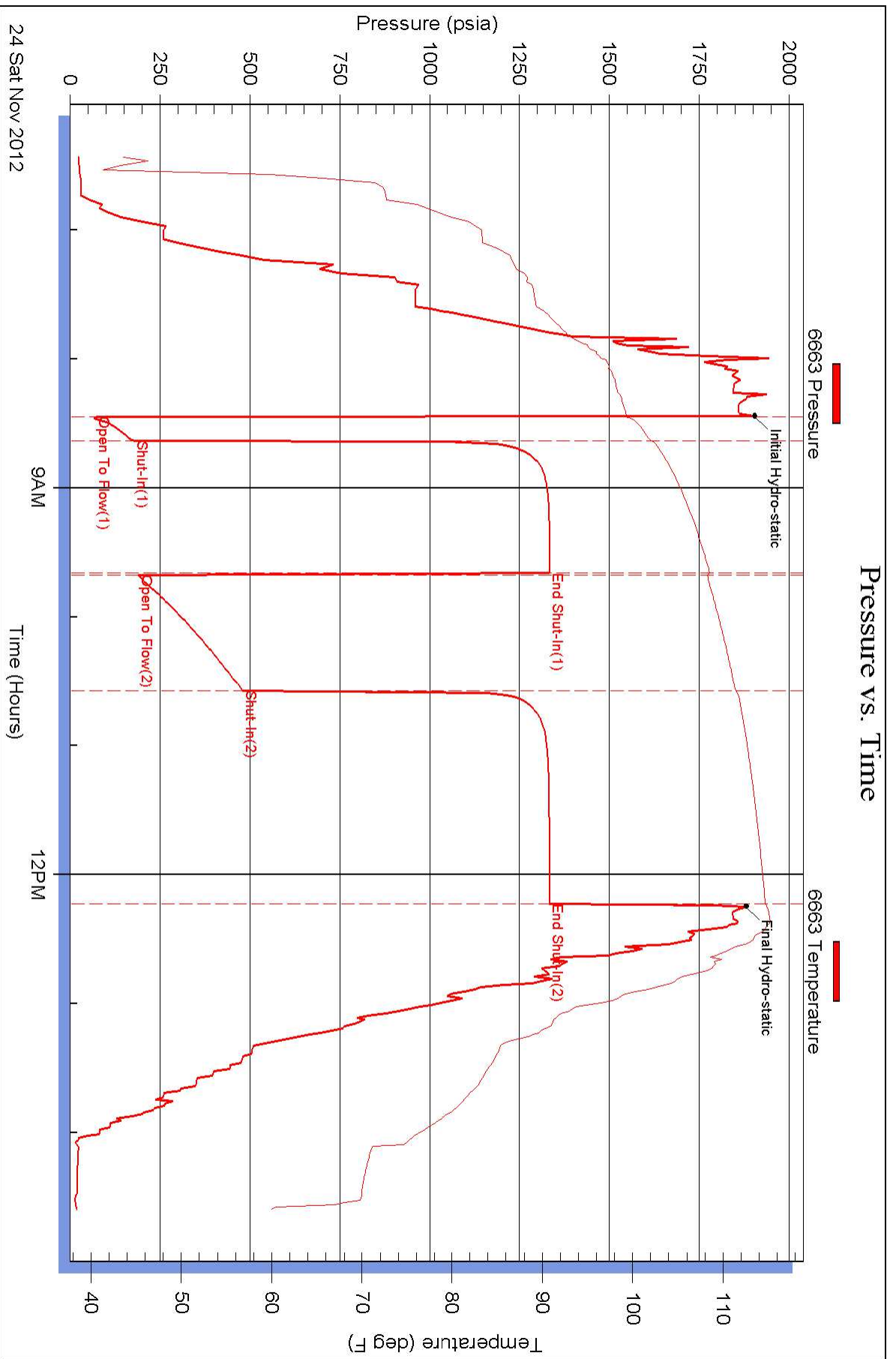
Recovery Table

Length ft	Description	Volume bbl
30.00	Oil cut muddy w ater	0.148
0.00	5%Oil 10%Mud Water85%	0.000
700.00	Water 100%	8.110
0.00	Chlorides 47,000@62degrees	0.000

Total Length: 730.00 ft      Total Volume: 8.258 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







Customer Helby Resources	Lease No. [Handwritten]	Date 11-18-12	
Lease Trosser	Well # #1-36		
Field Order # 07037A	Station Pratt	Casing 8 5/8"	Depth 799'
Type Job 8 5/8" Surface		Formation C.N.W.	County Lawnee
		Legal Description 36-21-16	State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8"	Tubing Size 2 3/8"	Shots/Ft		Acid 200 SK Aron 12#	RATE	PRESS	ISIP	
Depth 799'	Depth	From	To	Pre Pad 200 SKS Com. @ 15#	Max 3% CC 1/4" C.F.		5 Min. 2% Ogel	
Volume 67 BBL	Volume	From	To	Pad	Min		10 Min.	
Max Press # 3000 #	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 437'	Packer Depth	From	To	Flush Disp H2O	Gas Volume		Total Load	

Customer Representative F BALOO "TP"	Station Manager scotty	Treater Allen
Service Units 28443 19889 19843 19826 19860		
Driver Names Allen Edmundo Mike Lawrence		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30 AM					on Loc. Discuss Safety Setup, Plan Job
12:15 PM					Rig @ 475' Drilling To 1005'
12:30					Hole cut 1005'
					start out of hole w/ bit
					For short trip
2:45					start back out of hole to run csg.
3:30					out of hole rig up to run
					8 5/8 csg 24#
3:50					start 8 5/8 csg shoe jt 42' w/
					Reg Guide Shoe, Insert float in
					collar.
5:00					Pipe @ 999 Hookup + circ w/ Rig
5:15	200'		93	3 1/2	st mix 200 SKS A-CON @ 12#
					5 1/2 st mix 200 SKS com. 2% Ogel
					3% CC 1/4" C.F @ 15#
			43		Finish mix
					Release Top Rubber Plug 8 5/8"
5:45	200'			5 1/2	st. Disp.
6:00	700'			3	Plug down
					wash up Equip. + Rack up
7:00					Job complete
					+ thanks Allen, Ed, Mike L.

Customer <i>SHELBY - Res</i>	Lease No.	Date <i>11-25-12</i>	
Lease <i>Prosser</i>	Well # <i>1-36</i>		
Field Order # <i>7409</i>	Station <i>Pratt KS</i>	Casing <i>D.A.</i>	Depth <i>3915</i>
Type Job <i>CNW P.T.A.</i>	Formation	County <i>PAWNEE KS</i>	State <i>KS</i>
		Legal Description <i>36-21-16</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>D.P.</i>		From	To	Pre Pad	Max		5 Min.
Depth	Depth	From	To	Pad	Min		10 Min.
Volume	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Suther</i>
-------------------------	--------------------------------------	---------------------------------

Service Units	<i>37905</i>	<i>27463</i>	<i>70929</i>	<i>19918</i>					
Driver Names	<i>Sullivan</i>	<i>McGowan</i>	<i>Phy</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:10</i>					<i>on loc. Softly mixing P.T.A.</i>
<i>2:25</i>			<i>10</i>	<i>3</i>	<i>Set Plug 3915' w/ 50stk</i>
<i>5</i>			<i>12</i>		<i>space</i>
<i>2:37</i>			<i>47</i>		<i>mix cut</i>
					<i>Disp</i>
<i>4:20</i>			<i>10</i>		<i>Set Plug @ 1030' w/ 50stk</i>
<i>5</i>			<i>12</i>	<i>3</i>	<i>space</i>
<i>4:30</i>			<i>8</i>		<i>mix cut</i>
					<i>Disp</i>
<i>4:50</i>			<i>5</i>		<i>Set Plug @ 400' w/ 40stk</i>
<i>5</i>			<i>10</i>		<i>space</i>
<i>4:58</i>			<i>2</i>		<i>mix cut</i>
					<i>Disp</i>
<i>5:10</i>			<i>6</i>		<i>Set TOP 60' Plug w/ 20stk</i>
<i>5</i>			<i>8</i>	<i>7</i>	<i>plug RH w 30stk</i>
			<i>6</i>		<i>plug MH w/ 20stk</i>
<i>5:30</i>					<i>JOB - Complete</i>
					<i>Thank you</i>

**OPERATOR**

Company: SHELBY RESOURCES, LLC  
 Address: 445 Union BLVD, suite 208  
 Lakewood, CO 80228

Contact Geologist: Janine Sturdavant  
 Contact Phone Nbr: 720-274-4682 / 303-907-2209

Well Name: PROSSER #1-36  
 Location: Sec. 36 - 21S - 16W

Pool:  
 State: Kansas

API: 15-145-21698-00-00  
 Field: EVERS  
 Country: USA

**Scale 1:240 Imperial**

Well Name: PROSSER #1-36  
 Surface Location: Sec. 36 - 21S - 16W  
 Bottom Location:  
 API: 15-145-21698-00-00  
 License Number:  
 Spud Date: 11/17/2012 Time: 10:00 PM  
 Region: Pawnee County  
 Drilling Completed: 11/24/2012 Time: 8:25 PM  
 Surface Coordinates: 1112' FSL & 494' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1977.00ft  
 K.B. Elevation: 1987.00ft  
 Logged Interval: 2900.00ft To: 4000.00ft  
 Total Depth: 4000.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Polymer/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 1112' FSL  
 E/W Co-ord: 494' FWL

**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

**CONTRACTOR**

Contractor: STERLING DRILLING COMPANY  
 Rig #: 2  
 Rig Type: mud rotary  
 Spud Date: 11/17/2012 Time: 10:00 PM  
 TD Date: 11/24/2012 Time: 8:25 PM  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 1987.00ft Ground Elevation: 1977.00ft  
 K.B. to Ground: 10.00ft

**NOTES**

The Shelby #1-36 Prosser well was drilled to an RTD of 4000', bottoming in the Arbuckle. A TookeDAQ gas detector unit was employed during the drilling of all prospective formations. Sample shows of oil were noted in the Simpson and Arbuckle formations.

Three DST's were conducted in the Simpson and Arbuckle formations

Based on the sample shows, gas kicks, DST results, and log analysis it was determined by all parties involved that the well be plugged and abandoned.

The samples were saved and will be available for further review at the Kansas Geological Survey well sample library, located in Wichita, KS.

Respectfully Submitted,  
 Jeremy Schwartz  
 Geologist

DATE	DEPTH	ACTIVITY
Wednesday, November 21, 2012	3300	Geologist on location @ 0240hrs
Thursday, November 22, 2012	3760	Drilled through Lansing, Marmaton, DST #1 in Simpson
Friday, November 23, 2012	3915	Drilled through Simpson, DST #2 in Arbuckle
Saturday, November 24, 2012	3925'	Drilled 10', DST #3 in Arbuckle, released tester, reached TD of 4000' @ 2025hrs
Sunday, November 25, 2012	4000'	Finished Logging operations @ 0500hrs, Geologist released @ 0530hrs

CLIENT:	Captiva II
WELL NAME:	PROSSER # 1-36
LEGAL:	36-21-16 1112' FSL & 494' FWL
COUNTY:	PAWNEE
API :	15-145-21698
DRLG CONTRACTOR:	STERLING DRILLING
RIG #:	2
DOGHOUSE #:	620-388-5651
TOOLPUSHER:	UVALDO MARTINEZ
CELL #:	620-388-1164

		P&A (8/30/12)				OIL - P&A (2/1/71)				OIL - P&A (8/1/60)							
		CAPTIVA II				IRON DRILLING				IRON DRILLING							
		WFYOG #1-2				PROSSER #1-B				SHADY 'A' 2							
		NE SW NW NE 2-22-16				SW SW SW 36-21-16				C NE NW NE 2-22-16							
		PROSSER # 1-36		2016		1978		1987									
		KB	1987	KB	2016	KB	1978	KB	1987								
		LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.							
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	
TOPEKA	3097	-1110	3097	-1110	3130	-1114	+ 4	+ 4					3104	-1117	+ 7	+ 7	
QUEEN HILL	3270	-1283	3271	-1284	3307	-1291	+ 4	+ 7					3280	-1293	####	####	+ 9
HEEBNER	3375	-1388	3374	-1387	3414	-1398	+ 10	+ 11	3369	-1391	+ 3	+ 4	3388	-1401	+ 13	+ 14	
TORONTO	3396	-1409	3392	-1405	3429	-1413	+ 4	+ 8	3390	-1412	+ 3	+ 7	3410	-1423	+ 14	+ 18	
DOUGLAS	3409	-1422	3409	-1422	3448	-1432	+ 10	+ 10	3402	-1424	+ 2	+ 2	3423	-1436	+ 14	+ 14	
BROWN LIME	3488	-1501	3487	-1500	3521	-1505	+ 4	+ 5	3479	-1501	+ 0	+ 1	3497	-1510	+ 9	+ 10	
LANSING	3492	-1505	3492	-1505	3528	-1512	+ 7	+ 7	3487	-1509	+ 4	+ 4	3510	-1523	+ 18	+ 18	
STARK SHALE	3685	-1698	3689	-1702	3720	-1704	+ 6	+ 2					3696	-1709	+ 11	+ 7	
BASE KC	3731	-1744	3734	-1747	3768	-1752	+ 8	+ 5	3726	-1748	+ 4	+ 1	3748	-1761	+ 17	+ 14	
CONGLOM CHERT	3806	-1819	3808	-1821	3844	-1828	+ 9	+ 7	3765	-1787	- 32	- 34					
SIMPSON SHALE	3842	-1855	3840	-1853	3878	-1862	+ 7	+ 9	3831	-1853	- 2	+ 0	3852	-1865	+ 10	+ 12	
CLEAN SIMP SND	3858	-1871	3857	-1870	3892	-1876	+ 5	+ 6	3846	-1868	- 3	- 2	3864	-1877	+ 6	+ 7	
ARBUCKLE	3914	-1927	3910	-1923	3957	-1941	+ 14	+ 18	3903	-1925	- 2	+ 2	3923	-1936	+ 9	+ 13	
RTD			4000	-2013	4050	-2034		+ 21	3917	-1939		- 74	3933	-1946		- 67	
LTD	4001	-2014															

PROGNOSIS		
ANHYDRITE TOP	973	1014
HEEBNER SHALE	3378	-1391
TORONTO	3399	-1412
BROWN LIME	3492	-1505
LANSING	3502	-1515
BKC	3703	-1716
SIMP SH	3840	-1853
ARBUCKLE	3903	-1916
TD	4000	-2013

TESTED	TESTED	TESTED
<b>DST #1 LKC</b> 30' MUD, 120' OCM SIP: 1060 - 1080# <b>DST #2 CONGL 3808-3878</b> 20' DRILLING MUD SIP: 604 - 102 <b>DST #3 ARBUCKLE 3958 - 3966</b> 360' DRILLING MUD, 180' WM, 180' MW, 840' WTR SIP: 1333 - 1347	<b>DST #1 LKC 3508-3538</b> 30' WM <b>DST #2 CONG 3825-3847</b> 30' SGCM, 240' GIP <b>DST #3 SIMP 3846-3885</b> 3510' OIL W/ SLUGS OF GAS, BOTTOM 660' SMC, NO WTR	<b>DST #1 3817-3834</b> 680' OIL, 70' WTR <b>DST # 2 3861-3871</b> 30' M & SSO <b>DST #3 3869-3881</b> 10' WTR










### ROCK TYPES

Cht vari	Lmst fw<7	Shgy	shale, red
Chtcong	Lmst fw>7	shale, gry	Ss
Dolsec	shale, grn	Carbon Sh	

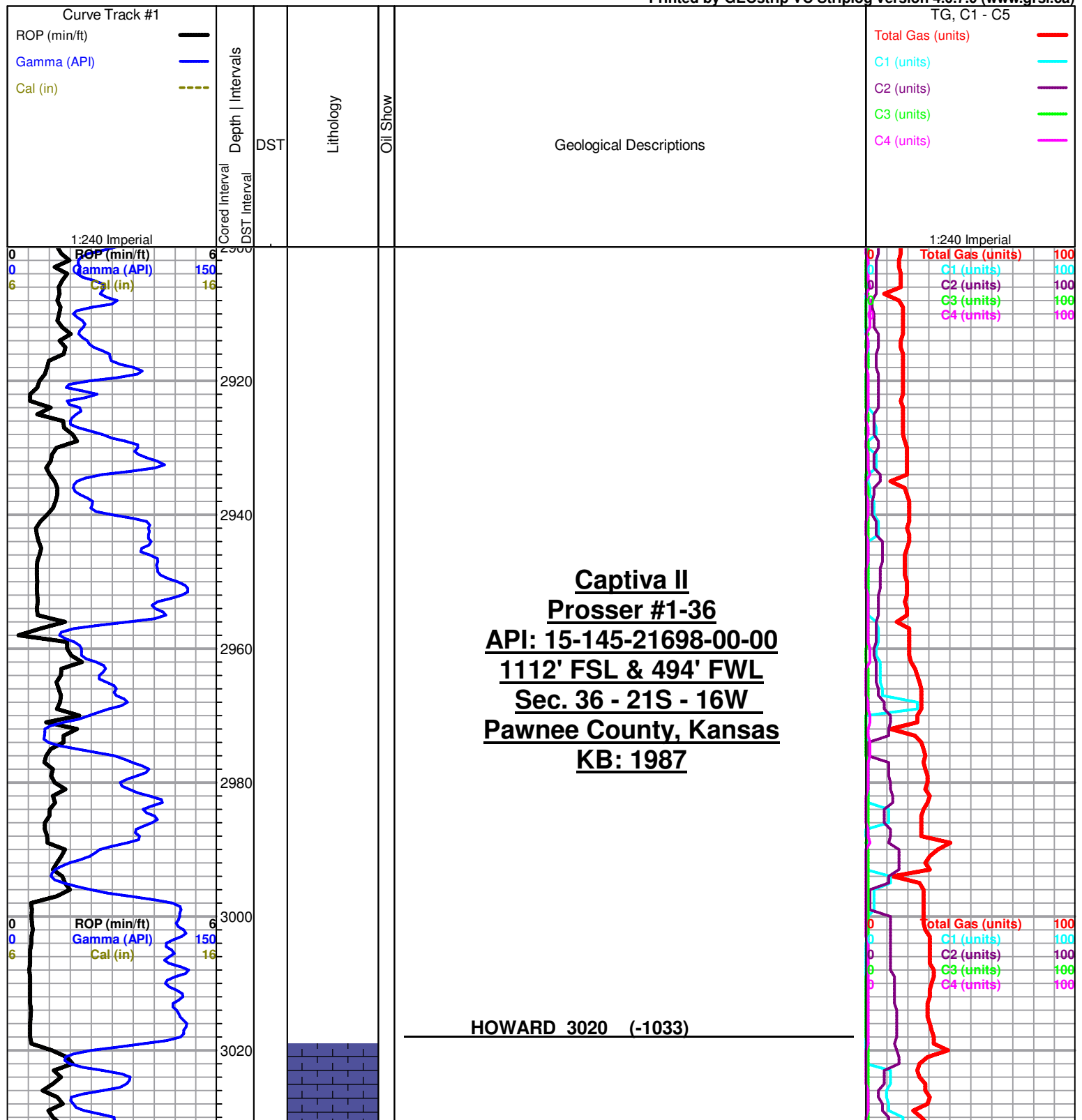
### ACCESSORIES

<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
△ Chert White	○ Bioclastic or Fragmental	••• Sandstone	C Chalky
○ Varicolored chert	F Fossils < 20%		
P Pyrite	⚡ Oomoldic		

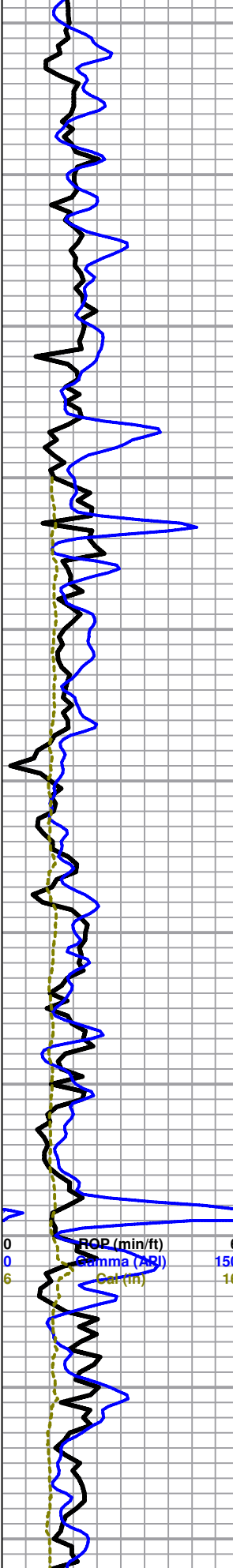
### OTHER SYMBOLS

- MISC**
-  Daily Report
  -  Digital Photo
  -  Document
  -  Folder
  -  Link
  -  Vertical Log File
  -  Horizontal Log File
  -  Core Log File
  -  Drill Cuttings Rpt

- DST**
-  DST Int
  -  DST alt



3040  
3060  
3080  
3100  
3120  
3140  
3160  
3180  
3200  
3220  
3240



P

D

D

D

F

Limestone, cream to gray with some brown, vf-f xln, fossiliferous, some pyrite, no shows

**TOPEKA 3097 (-1110)**

Limestone, gray to tan, vf-f xln, fossiliferous, no shows

Limestone, gray to cream f-xln, fossiliferous, no shows

as above

Limestone, gray to tan, vf-f xln, tight, no shows

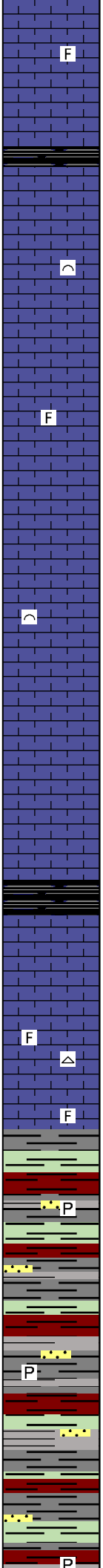
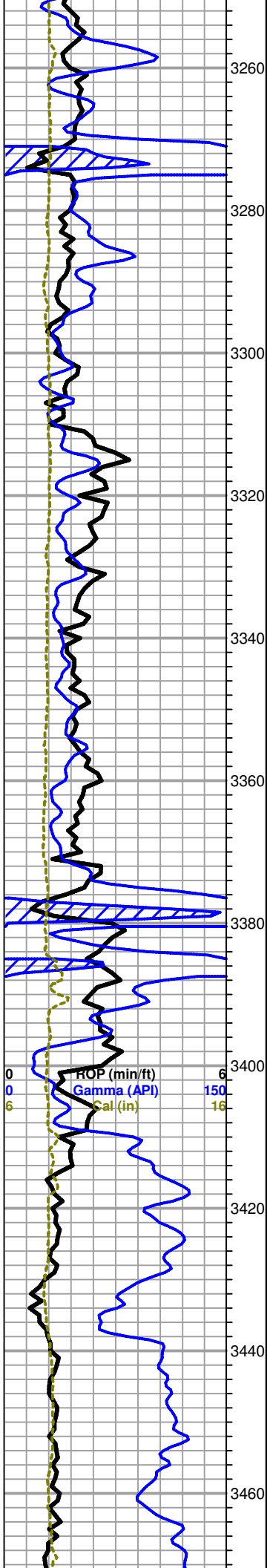
**KING HILL 3196 (-1209)**

Limestone, cream to gray, vf-f xln, trace black shale

Limestone, cream with some gray, vf-f xln, some crypto-xln, some fossil fragments, no shows

LS as above

Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100



Limestone, cream with some gray, vf-f xln, some fossiliferous, trace gray shale laminates, some chalk, no shows

**QUEEN HILL 3271 (-1284)**

Limestone, cream to gray, vf-f xln, some gray shale laminates, some chalk, trace black shale, trace chert, no shows

Limestone, cream to gray, vf-f xln, some fossiliferous, trace black shale, no shows

As above, no shows

LS as above with some gray/green thin shale laminates, trace chert, no shows

Limestone, cream to gray, vf-f xln, some gray med-xln, some fossiliferous, occasional pyrite and chert, trace red shale

Limestone, cream to gray with some brown, vf-f xln, some with fossil fragments, no shows

Limestone, cream to white, vf-f xln, no shows

**HEEBNER 3374 (-1387)**

Black shale with some thin gray laminates

**TORONTO 3392 (-1405)**

Limestone, cream to white, vf-f xln, some gray f-med xln, some fossiliferous, also some fossiliferous white and gray cherts

**DOUGLAS 3409 (-1422)**

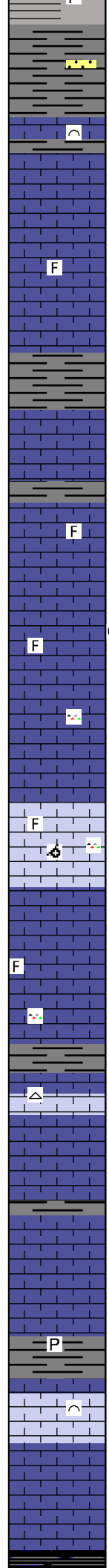
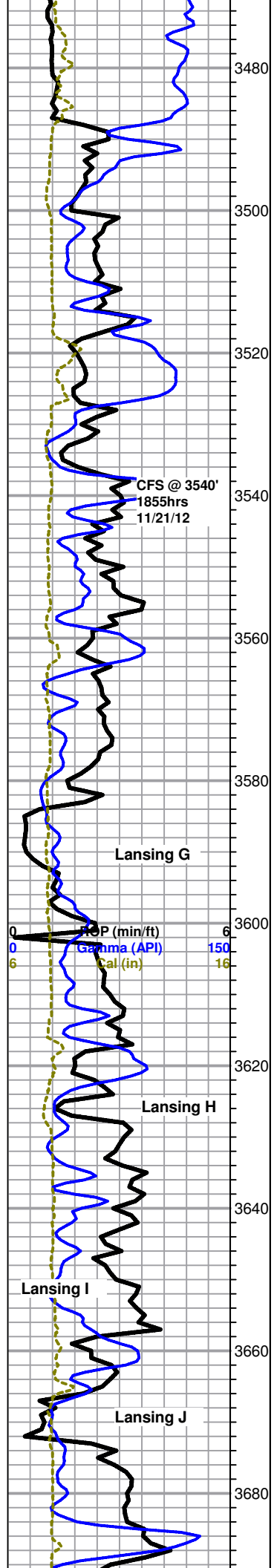
Shale, vari-colored gray to green with some red, waxy, soft, abundant pyrite nodules, some sand stringers, light gray, vf micaceous

As above

Mud-Co Mud chk  
 3272' @ 0900hrs  
 11/21/2012  
 Vis: 50, WT: 8.9  
 PV: 14, YP: 20  
 WL: 8.0, Cake:  
 1/32  
 pH: 10.5, Ca:  
 20ppm  
 CHL: 5,700ppm  
 Sol: 4.0%  
 LCM: 1  
 DMC:\$ 3,929.70  
 CMC: \$8,304.45

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100





**BROWN LIME 3487 (-1500)**  
 Limestone, brown, fossiliferous, no shows

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**LANSING 3492 (-1505)**  
 Limestone, cream to white, vf-f xln, some vf sucrosic, no visible porosity, no shows, no odor

Limestone, cream to white, vf-f xln, some vf sucrosic, slightly fossiliferous, no shows, no odor

Gray Shale

Limestone, cream to white, vf-f xln, lithographic, slight mineral fluorescence, no visible porosity, no shows, no odor

Limestone, cream to white with some tan, vf-f with some crypto-xln, occasional slightly fossiliferous light brown chert, no visible porosity, no shows, no odor

Limestone, cream to white with some tan, vf-f xln, slightly fossiliferous, one chip with small vug and very slight light brown edge stain, fair to poor fluorescence, very slow streaming cut

Limestone, cream to tan with some light gray, vf-f xln, trace light brown med-xln, some slightly fossiliferous vari-colored cherts, no shows, no odor

Limestone, cream to tan, vf-f, oomoldic, slightly fossiliferous, some chalk and varicolored chert, trace pyrite, no shows, no odor

Limestone, cream to tan, vf-f, oomoldic, no shows

LS as above, some slightly oolitic to oomoldic, no shows

Limestone, cream to tan, vf-f xln, some fossil fragments, poor to no visible porosity, some gray shale with a trace of red, trace white chert, no shows, no odor

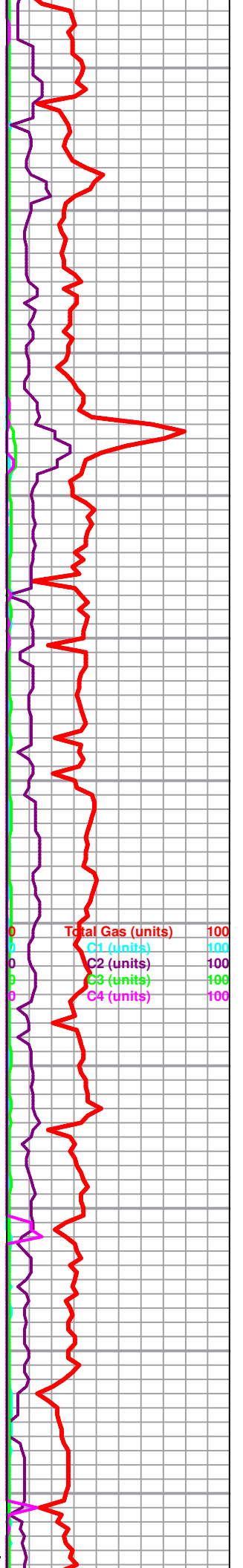
Limestone, cream to white, vf-f, some light brown med-xln, some chalk, no shows

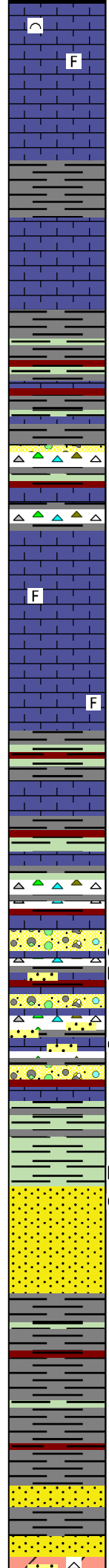
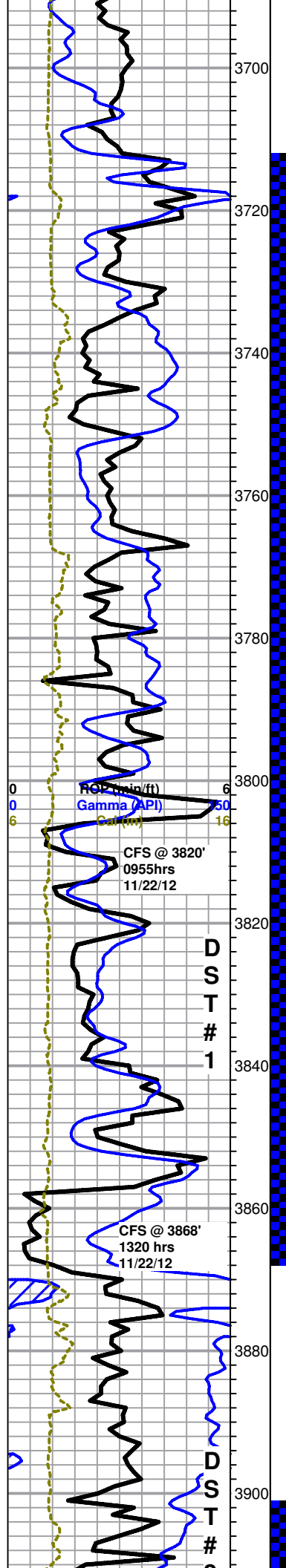
Limestone as above with some gray/green shale laminates and occasional pyrite nodules

Limestone, white to light gray, vf-f xln, slightly fossiliferous, sub oomoldic, no shows

Limestone, white to light gray, vf-f with some crypto-xln, some very slightly fossiliferous, mostly lithographic, no shows

**STARK SHALE 3689 (-1702)**





Black carbonaceous shale

Limestone, white to light grayish tan, vf-f xln, some slightly oolitic to sub-oomoldic, chalky, no shows

Limestone, cream to light gray with some reddish brown, oolitic to oomoldic, no shows

Limestone, white to light gray, vf-f xln, with some reddish brown oolitic to oomoldic, no shows

Gray Shale

**Base K/C 3734 (-1747)**

Shale, varicolored gray to green with trace of red, waxy, soft

Varicolored chert, orange, pink, red, white, brown, with shale as above

Limestone, cream to tan, vf-f xln, slightly fossiliferous, poor to no visible porosity, samples predominantly limestone with cherts and shales dropping out

Prosser 1-36.DST #1.jpg

Limestone, cream to light gray, vf-f xln, some fossiliferous, some white vf sucrosic, no shows or odor

**Conglomerate Chert 3808 (-1821)**

Conglomerate, shale, varicolored gray to green and red, waxy, soft, with some varicolored chert, orange, pink, red, maroon, white, brown

Conglomerate as above with scattered black oil stain in some tripolitic chert, some saturated limestone with scattered pinpoint porosity, fair streaming cut, fair show free oil in tray (clingy/tarry), very faint odor in cup

as above, in 3850 sample, sandstone, fine grained, poorly cemented, unconsolidated, friable, fair black oil stain

**SIMPSON SHALE 3840 (-1853)**

Green shale, waxy, soft

**SIMPSON SAND 3857 (-1870)**

Sandstone, very fine grained, arkosic, well cemented, poorly sorted, angular, slight black dead oil stain, no fluorescence, very slow streaming cut

75 min sample - Quartz sandstone, only a few clusters, fine grained, sub rounded to round, fairly sorted, friable, slight show free oil, lots of loose sub-rounded quartz grains in bottom of tray, very faint odor in cup

Shale, Gray with trace of green and red, most firm and dense with some soft and waxy

Shale as above, with quartz sandstone clusters, sub rounded to round, friable, also with abundant loose sub-rounded quartz grains at the bottom of the tray

Prosser 1-36.DST#2.jpg

**ARBUCKLE 3910 (-1923)**

Mud-Co Mud chk  
3811 @ 0915hrs  
11/22/2012  
Vis: 59, WT: 9.7  
PV: 19, YP: 19  
WL: 8.4, Cake:  
1/32  
pH: 10.0, Ca:  
20ppm  
CHL: 7,000ppm  
Sol: 9.5%  
LCM: 1  
DMC: \$1,272.55  
CMC: \$9,577

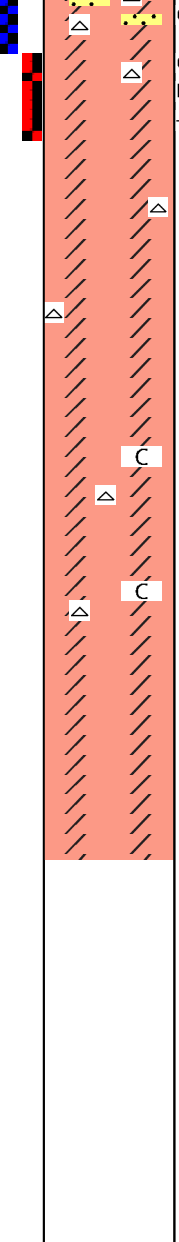
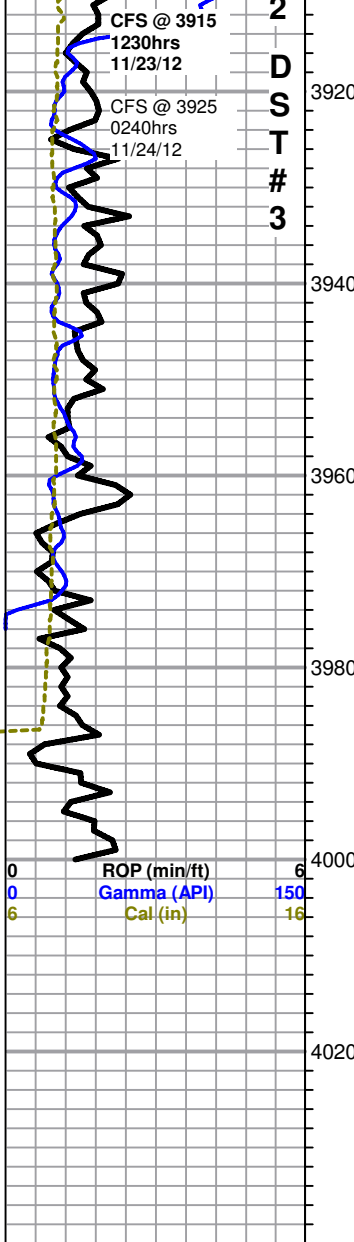
Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100

Lighter test @ 3825'

3868'  
Deviation survey: 1/4"  
Pipe Strap  
0.25 STB

Lighter test @ 3871'

Mud-Co Mud chk  
3868' @ 0745hrs  
11/23/2012  
Vis: 59, WT: 9.3  
PV: 20, YP: 11  
WL: 7.2, Cake:  
1/32  
pH: 10.0, Ca:  
20ppm  
CHL: 6,200ppm  
Sol: 6.8%  
LCM: 1  
DMC: \$799.90  
CMC: \$10,376.90



Dolomite, white, recrystallized and weathered with some compact crypto-xln, cherty, with chert, white to tan, tripolitic with scattered black edge stain, also some quartz sandstone clusters, sub-rounded to round, with abundant loose grains in bottom of tray, fair sheen and vf light free oil droplets on top of wet sample cup with strong odor

3925' Dolomite, white to tan, fine-xln, rhombic to sub-rhombic, slight stain, excellent fluorescence, slight show free oil on break, poor to good cut, poor visible porosity, also dolomite and chert as above, faint odor in wet cup

Prosser 1-36.DST#3.jpg

Dolomite, cream to tan, vf-f xln, sub rhombic, poor visible porosity, trace white chert and chalk, no shows,

Dolomite, vf-f, cream to tan, rhombic to sub-rhombic, with some white vf sucrosic, poor visible porosity, more chalk and chert, no shows

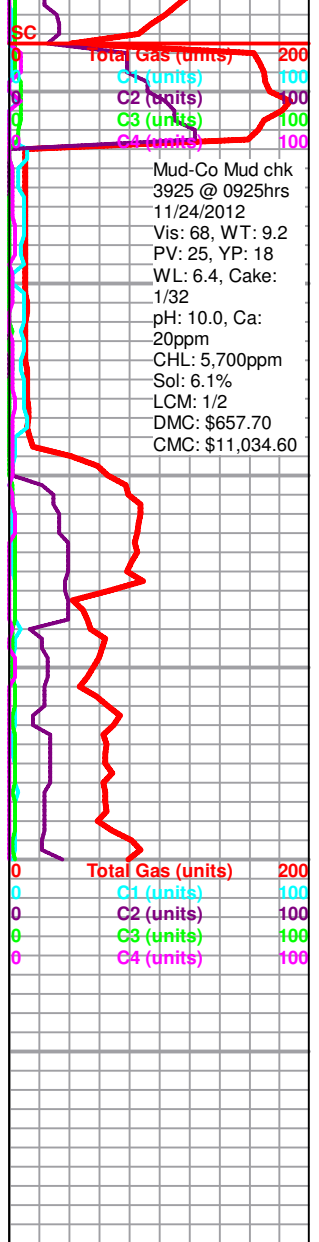
As above

Dolomite, vf-f, cream to tan, rhombic to sub rhombic, poor visible porosity, also with some white vf-sucrosic with fair inter-xln porosity, no shows

**RTD 4000 (-2013)**

**Rotary TD 4000' @ 2025hrs, 11/24/2012**  
**Nabors Services Logging TD @ 4001**  
**Complete Logging Operations @ 0500hrs**

**Geologist Jeremy Schwartz off location @ 0530hrs**



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 15, 2013

Chris Gottschalk  
Shelby Resources LLC  
445 Union Boulevard  
Suite 208  
LAKEWOOD, CO 80228

Re: ACO1  
API 15-145-21698-00-00  
Prosser 1-36  
SW/4 Sec.36-21S-16W  
Pawnee County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Chris Gottschalk