

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

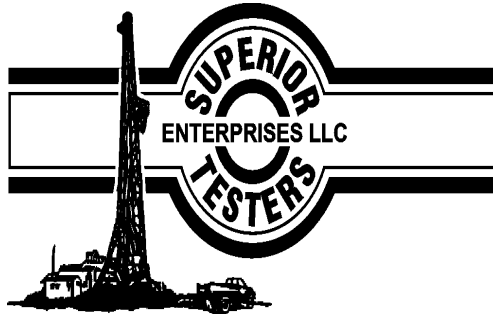
TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Buster #1-10
Doc ID	1309227

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic
Radial Bond





## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC.**

2717 Canel Blvd. Suite C  
Hays Kansas 67601

ATTN: Chris Gottschalk

**10/22S/16W Pawnee**

**Buster #1-10**

Start Date: 2011.02.01 @ 05:18:00

End Date: 2011.02.01 @ 14:45:00

Job Ticket #: 16025                      DST #: 1

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

Printed: 2011.02.01 @ 15:23:29





# DRILL STEM TEST REPORT

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

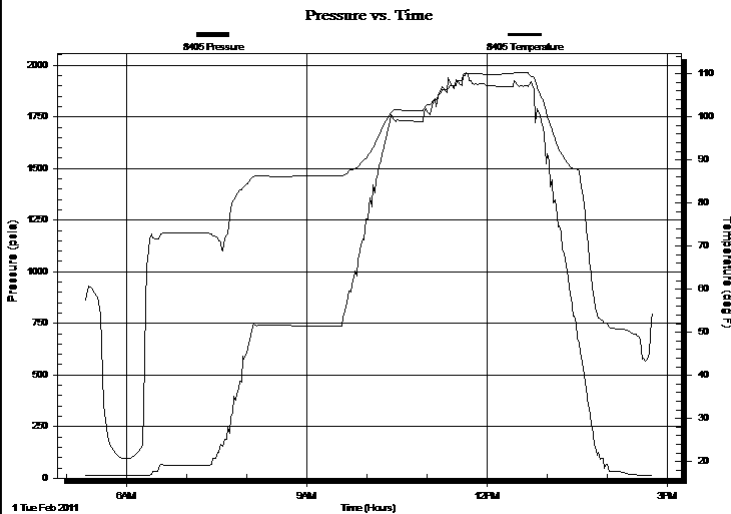
**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 16025 **DST#: 1**  
 Test Start: 2011.02.01 @ 05:18:00

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Dylan E Ellis  
 Time Test Ended: 14:45:00 Unit No: 3345/Great Bend/60  
 Interval: **3936.00 ft (KB) To 3966.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)  
 Total Depth: 3966.00 ft (KB) (TVD) 2007.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8405 Inside**  
 Press @ Run Depth: psia @ 3962.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.02.01 End Date: 2011.02.01 Last Calib.: 2011.02.01  
 Start Time: 05:18:00 End Time: 14:45:32 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 1ST Opening did not happen/w e had a miss run/Packer Failure/ the tally board w as off by 31.00 feet



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mud 100%	0.74
0.00	We had a packer failure	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 16025 **DST#: 1**  
 Test Start: 2011.02.01 @ 05:18:00

## Tool Information

Drill Pipe:	Length: 3679.00 ft	Diameter: 3.80 inches	Volume: 51.61 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: 259.05 ft	Diameter: 2.25 inches	Volume: 1.27 bbl	Weight to Pull Loose:	0.00 lb
			<u>Total Volume: 52.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.05 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	3936.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3913.00	
Hydraulic Tool	5.00			3918.00	
Jars	6.00			3924.00	
Safety Joint	2.00			3926.00	
Packer	5.00			3931.00	28.00 Bottom Of Top Packer
Packer	5.00			3936.00	
Perforations	25.00			3961.00	
Recorder	1.00	8405	Inside	3962.00	
Recorder	1.00	8400	Outside	3963.00	
Bull Plug	3.00			3966.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LLC.  
2717 Canel Blvd. Suite C  
Hays Kansas 67601  
ATTN: Chris Gottschalk

**Buster #1-10**  
**10/22S/16W Pawnee**  
Job Ticket: 16025      **DST#: 1**  
Test Start: 2011.02.01 @ 05:18:00

### 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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7600.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Mud 100%	0.738
0.00	We had a packer failure	0.000

Total Length: 150.00 ft      Total Volume: 0.738 bbl

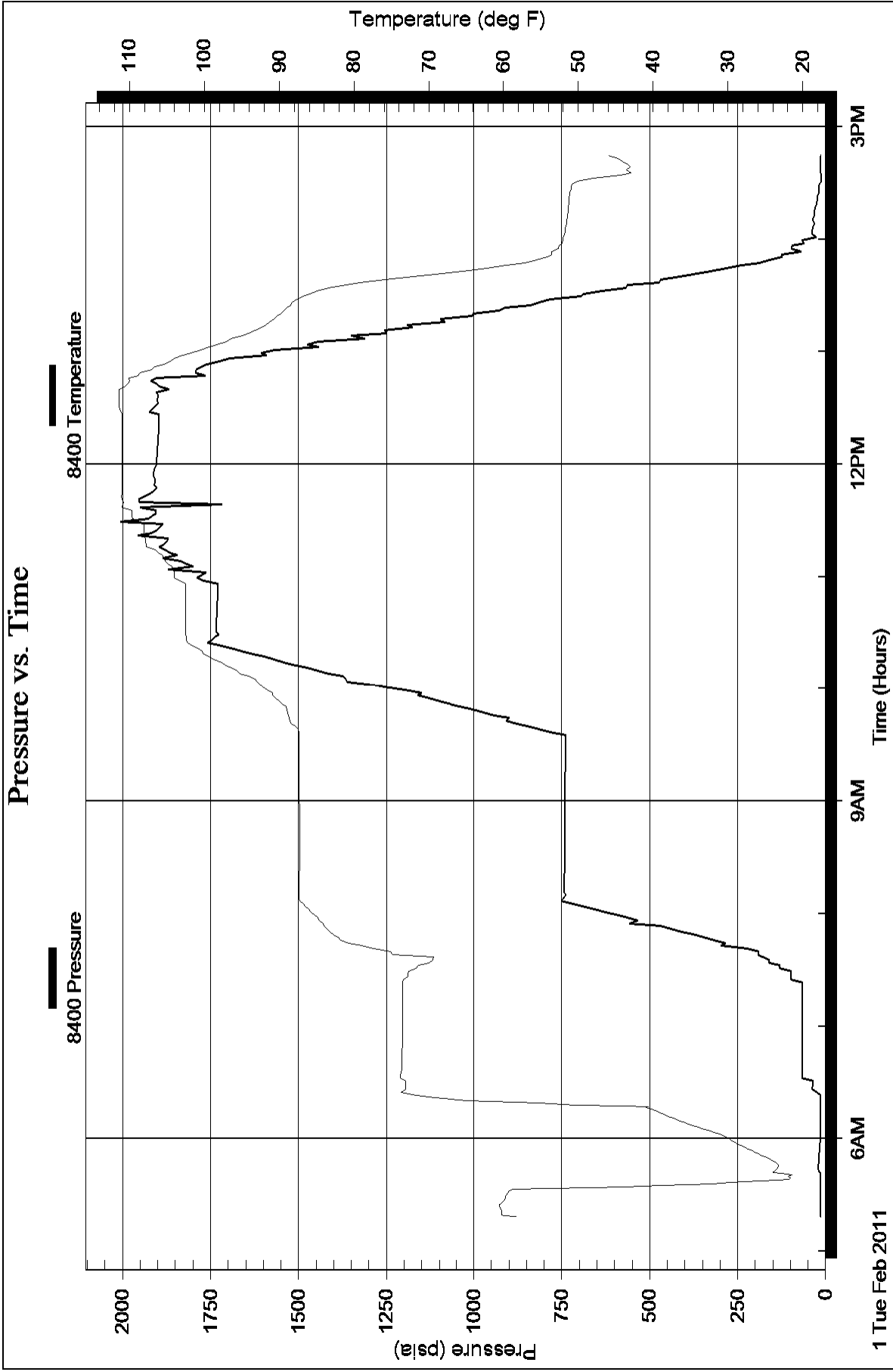
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 8400

Outside Shelby Resources LLC.

10/22S/16W Pawnee

DST Test Number: 1



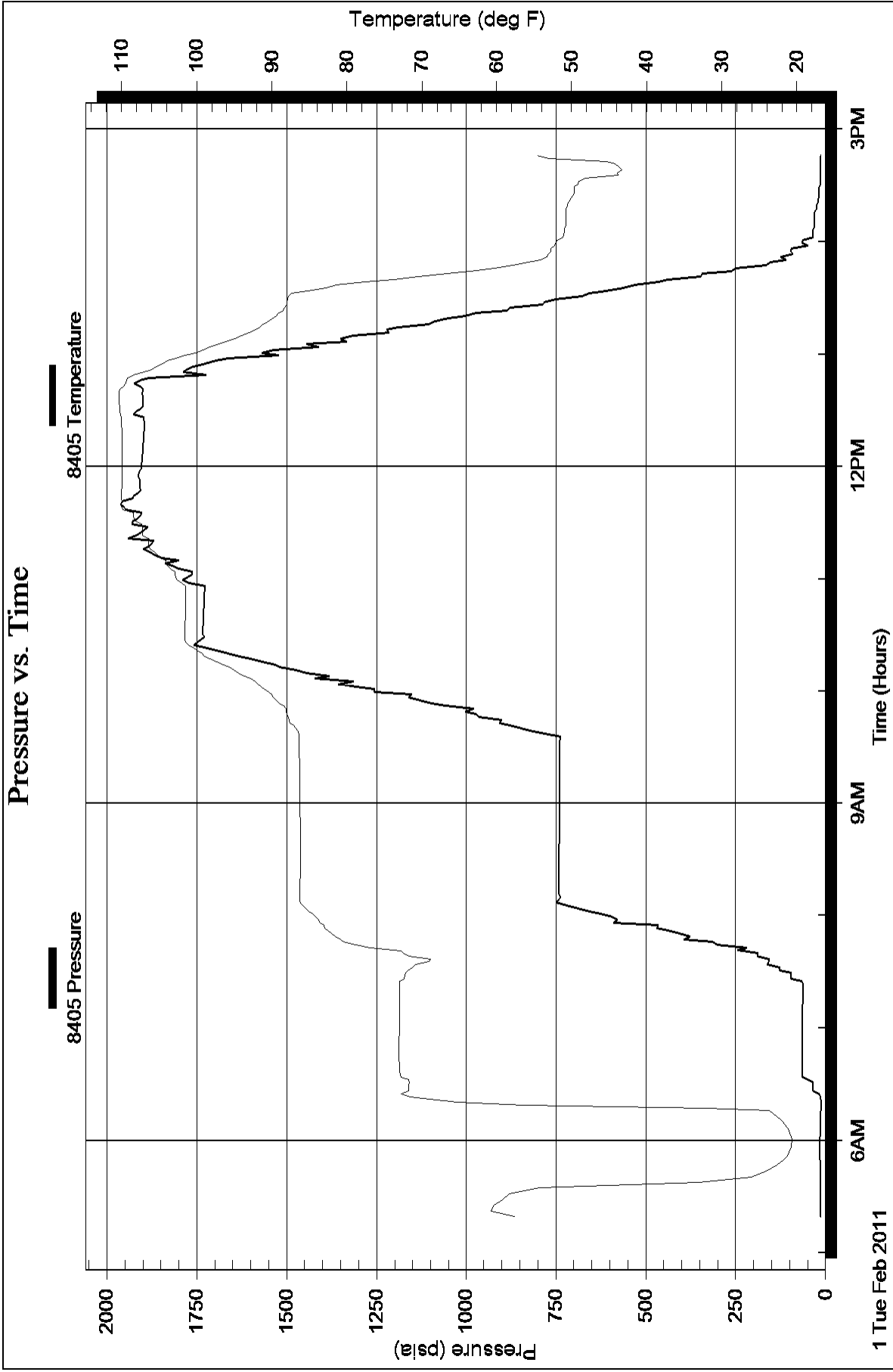
Serial #: 8405

Inside

Shelby Resources LLC.

10/22S/16W Pawnee

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC.**

2717 Canel Blvd. Suite C  
Hays Kansas 67601

ATTN: Chris Gottschalk

**10/22S/16W Pawnee**

**Buster #1-10**

Start Date: 2011.02.04 @ 07:26:00

End Date: 2011.02.04 @ 16:18:30

Job Ticket #: 15651                      DST #: 2

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

Printed: 2011.02.04 @ 17:01:10



# DRILL STEM TEST REPORT

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

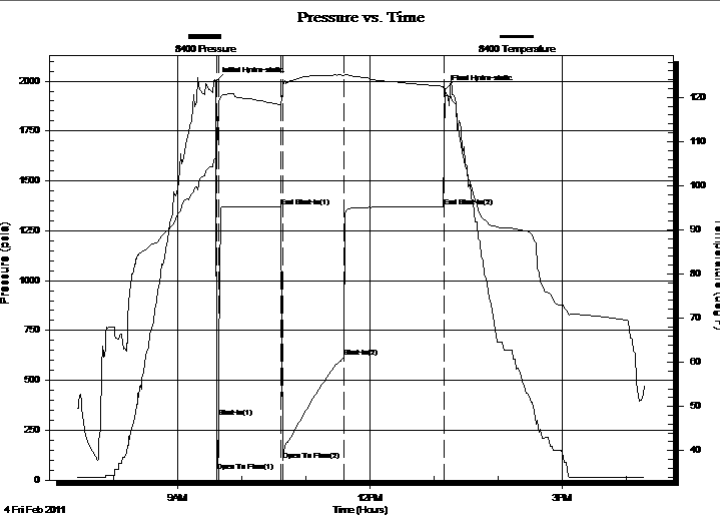
**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 15651 **DST#: 2**  
 Test Start: 2011.02.04 @ 07:26:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:36:30 Tester: Dylan E Ellis  
 Time Test Ended: 16:18:30 Unit No: 3345/Great Bend/60  
 Interval: **4033.00 ft (KB) To 4040.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)  
 Total Depth: 4040.00 ft (KB) (TVD) 2007.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8400 Outside**  
 Press @ Run Depth: 617.60 psia @ 4037.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.02.04 End Date: 2011.02.04 Last Calib.: 2011.02.04  
 Start Time: 07:26:00 End Time: 16:18:30 Time On Btm: 2011.02.04 @ 09:35:30  
 Time Off Btm: 2011.02.04 @ 13:10:30

**TEST COMMENT:** 1ST Opening 15 Minutes weak but building blow/blow built to 2 inches into the bucket of water  
 1ST Shut-In 45 Minutes yes blow back  
 2ND Opening 60 Minutes fair buiding blow/blow blew to bottom of the bucket of water in 4 minutes  
 2ND Shut-In 90 Minutes yes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1999.47	106.32	Initial Hydro-static
1	42.44	107.27	Open To Flow (1)
3	317.43	118.46	Shut-In(1)
62	1369.56	118.30	End Shut-In(1)
63	101.49	121.02	Open To Flow (2)
121	617.60	125.02	Shut-In(2)
214	1369.18	122.52	End Shut-In(2)
215	1957.64	120.93	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
698.00	Clean Gassy Oil 100%	7.43
315.00	Slightly Mud cut Oilly Water	4.42
0.00	Oil 10% Mud 15% Water 75%	0.00
252.00	Slightly Oil cut Water	3.53
0.00	Oil 6% Water 94%	0.00
126.00	Oil Spotted Water	1.77

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



# DRILL STEM TEST REPORT

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

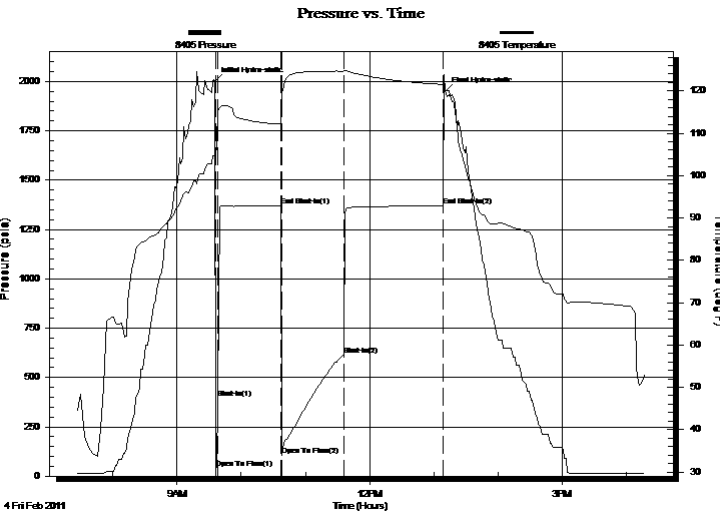
**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 15651 **DST#: 2**  
 Test Start: 2011.02.04 @ 07:26:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:36:30 Tester: Dylan E Ellis  
 Time Test Ended: 16:18:30 Unit No: 3345/Great Bend/60  
 Interval: **4033.00 ft (KB) To 4040.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)  
 Total Depth: 4040.00 ft (KB) (TVD) 2007.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

**Serial #: 8405 Inside**  
 Press @ Run Depth: 1368.08 psia @ 4036.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.02.04 End Date: 2011.02.04 Last Calib.: 2011.02.04  
 Start Time: 07:26:00 End Time: 16:17:01 Time On Btm: 2011.02.04 @ 09:35:01  
 Time Off Btm: 2011.02.04 @ 13:10:01

**TEST COMMENT:** 1ST Opening 15 Minutes weak but building blow/blow built to 2 inches into the bucket of water  
 1ST Shut-In 45 Minutes yes blow back  
 2ND Opening 60 Minutes fair building blow/blow blew to bottom of the bucket of water in 4 minutes  
 2ND Shut-In 90 Minutes yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1999.87	104.73	Initial Hydro-static
1	41.90	104.05	Open To Flow (1)
3	395.03	115.41	Shut-In(1)
62	1368.65	112.24	End Shut-In(1)
63	103.22	115.36	Open To Flow (2)
121	615.09	124.59	Shut-In(2)
214	1368.08	121.53	End Shut-In(2)
215	1946.98	120.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
698.00	Clean Gassy Oil 100%	7.43
315.00	Slightly Mud cut Oilly Water	4.42
0.00	Oil 10% Mud 15% Water 75%	0.00
252.00	Slightly Oil cut Water	3.53
0.00	Oil 6% Water 94%	0.00
126.00	Oil Spotted Water	1.77

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 15651 **DST#: 2**  
 Test Start: 2011.02.04 @ 07:26:00

**Tool Information**

Drill Pipe:	Length: 3759.00 ft	Diameter: 3.80 inches	Volume: 52.73 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: 259.05 ft	Diameter: 2.25 inches	Volume: 1.27 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 54.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.05 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4033.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 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			4010.00	
Hydraulic Tool	5.00			4015.00	
Jars	6.00			4021.00	
Safety Joint	2.00			4023.00	
Packer	5.00			4028.00	28.00 Bottom Of Top Packer
Packer	5.00			4033.00	
Perforations	2.00			4035.00	
Recorder	1.00	8405	Inside	4036.00	
Recorder	1.00	8400	Outside	4037.00	
Bull Plug	3.00			4040.00	7.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 15651      **DST#: 2**  
 Test Start: 2011.02.04 @ 07:26:00

### 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: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9200.00 ppm			
Filter Cake: 1.00 inches			

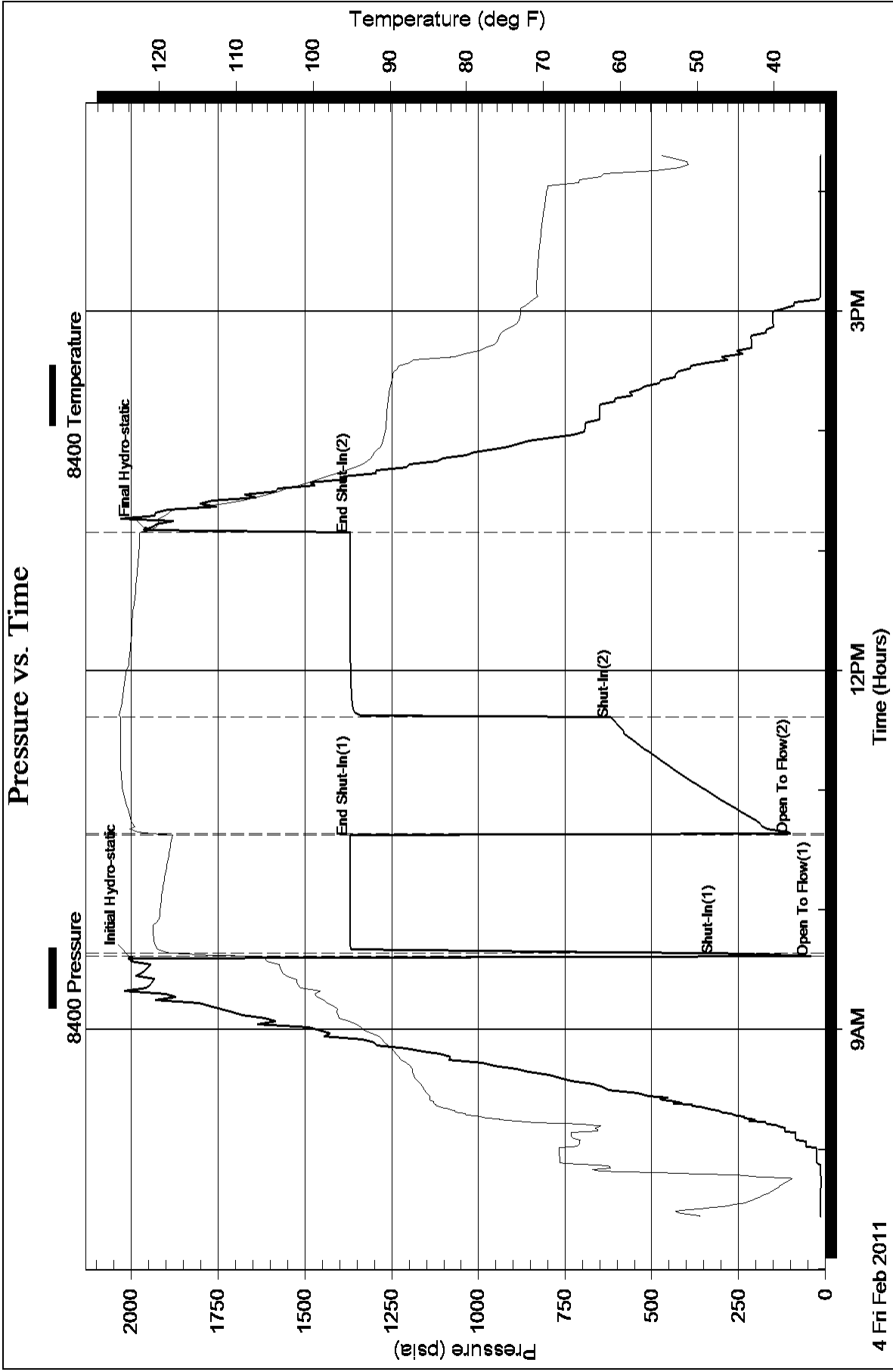
### Recovery Information

Recovery Table

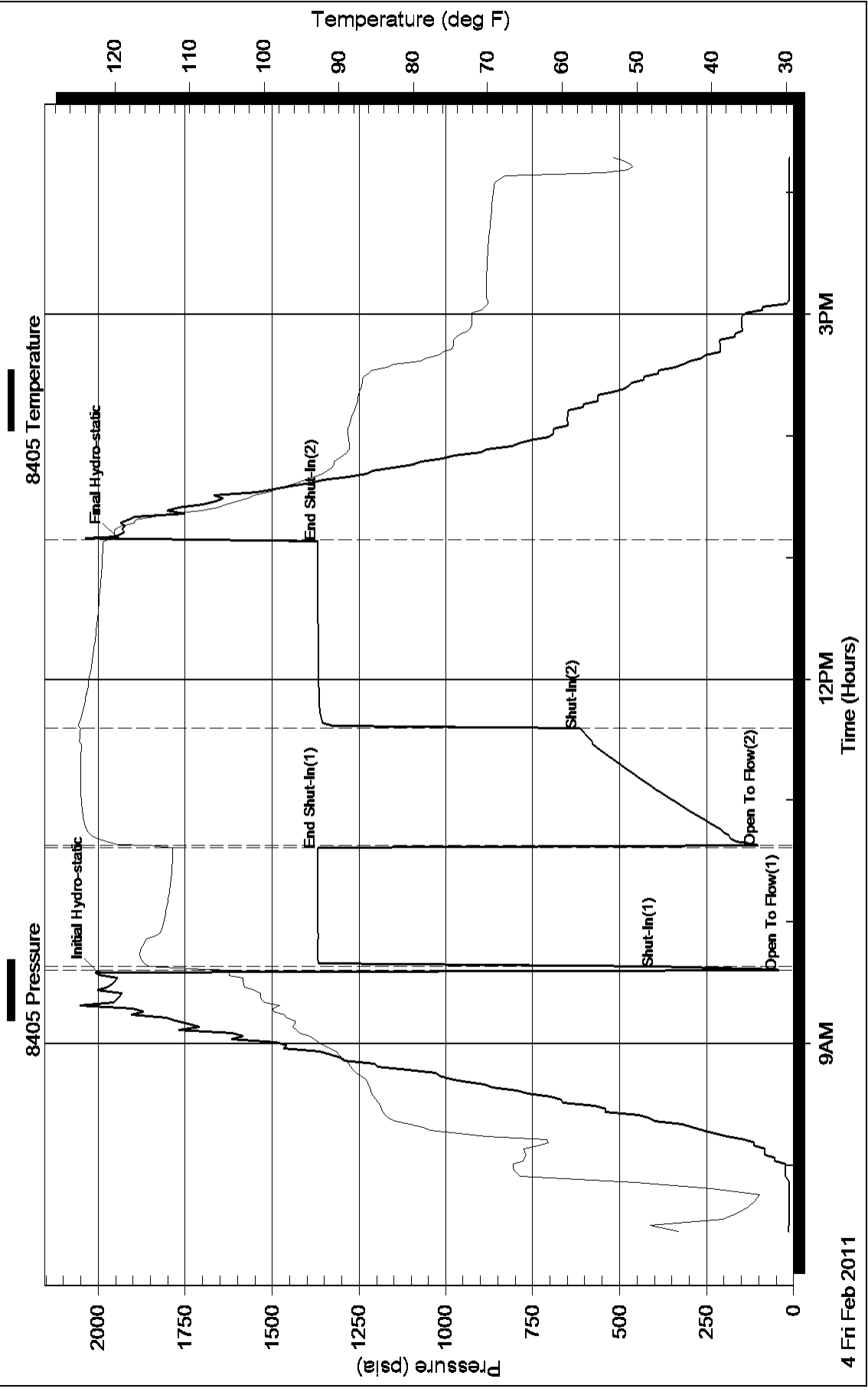
Length ft	Description	Volume bbl
698.00	Clean Gassy Oil 100%	7.431
315.00	Slightly Mud cut Oilly Water	4.419
0.00	Oil 10% Mud 15% Water 75%	0.000
252.00	Slightly Oil cut Water	3.535
0.00	Oil 6% Water 94%	0.000
126.00	Oil Spotted Water	1.767
0.00	Oil 1% Water 99%	0.000
0.00	Chlorides were 33,000.0	0.000
0.00	Resistivity w as .21 @68 degrees	0.000
0.00	Gravity of Oil corrected w as 41	0.000

Total Length: 1391.00 ft      Total Volume: 17.152 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 Canel Blvd. Suite C  
Hays Kansas 67601

ATTN: Chris Gottschalk

**10/22S/16W Pawnee**

**Buster #1-10**

Start Date: 2011.02.05 @ 10:38:00

End Date: 2011.02.05 @ 00:00:00

Job Ticket #: 15652                      DST #: 3

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

Printed: 2011.02.05 @ 20:14:00

Shelby Resources LLC.      Buster #1-10      10/22S/16W Pawnee      DST # 3      Viola      2011.02.05







# DRILL STEM TEST REPORT

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

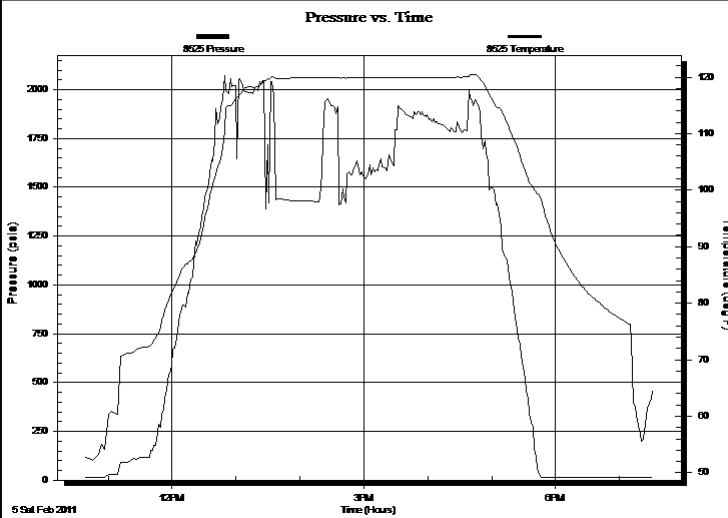
**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 15652 **DST#: 3**  
 Test Start: 2011.02.05 @ 10:38:00

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3922.00 ft (KB) To 3952.00 ft (KB) (TVD)**  
 Total Depth: 4130.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Straddle (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345/Great Bend/60  
 Reference Elevations: 2018.00 ft (KB)  
 2007.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8525 Inside**  
 Press @ Run Depth: psia @ 4128.72 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.02.05 End Date: 2011.02.05 Last Calib.: 2011.02.05  
 Start Time: 10:38:00 End Time: 19:31:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 1ST Opening 15 Minutes strong blow bottom of the bucket instantly/slow backed off  
 1ST Shut-In 45 Minutes no blow back  
 2ND Opening 30 Minutes strong blow/blow blew to bottom of the bucket in 5 minutes  
 2ND Shut-In 60 Minutes no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
813.00	Mud with spots of Oil	9.04
0.00	Mud 100%	0.00

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 15652      **DST#: 3**  
 Test Start: 2011.02.05 @ 10:38:00

**Tool Information**

Drill Pipe:	Length: 3660.00 ft	Diameter: 3.80 inches	Volume: 51.34 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: 259.05 ft	Diameter: 2.25 inches	Volume: 1.27 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 52.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.05 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3922.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	3951.30 ft			
Interval between Packers:	29.30 ft			
Tool Length:	237.72 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: We slid to bottom round 15 feet. We had to set the tool 4 times to get it to hit bottom and stay. When we came up we pulled 145,000 on it 2 different times. Also when we came off bottom we also pulled around 150,000 on it.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3899.00	
Hydraulic Tool	5.00			3904.00	
Jars	6.00			3910.00	
Safety Joint	2.00			3912.00	
Packer	5.00			3917.00	28.00      Bottom Of Top Packer
Packer	5.00			3922.00	
ASE Carrier	5.00			3927.00	
Perforations	21.00			3948.00	
Recorder	0.00	8405	Inside	3948.00	
Recorder	0.00	8400	Outside	3948.00	
Blank Off Sub	0.75			3948.75	
T.C.	2.55			3951.30	29.30      Tool Interval
Packer	3.24			3954.54	
Change Over Sub	0.75			3955.29	
Drill Pipe	159.68			4114.97	
Change Over Sub	0.75			4115.72	
Perforations	13.00			4128.72	
Recorder	0.00	8525	Inside	4128.72	
Bull plug	3.00			4131.72	180.42      Bottom Packers & Anchor

**Total Tool Length: 237.72**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources LLC.  
 2717 Canel Blvd. Suite C  
 Hays Kansas 67601  
 ATTN: Chris Gottschalk

**Buster #1-10**  
**10/22S/16W Pawnee**  
 Job Ticket: 15652      **DST#: 3**  
 Test Start: 2011.02.05 @ 10:38:00

### 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: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

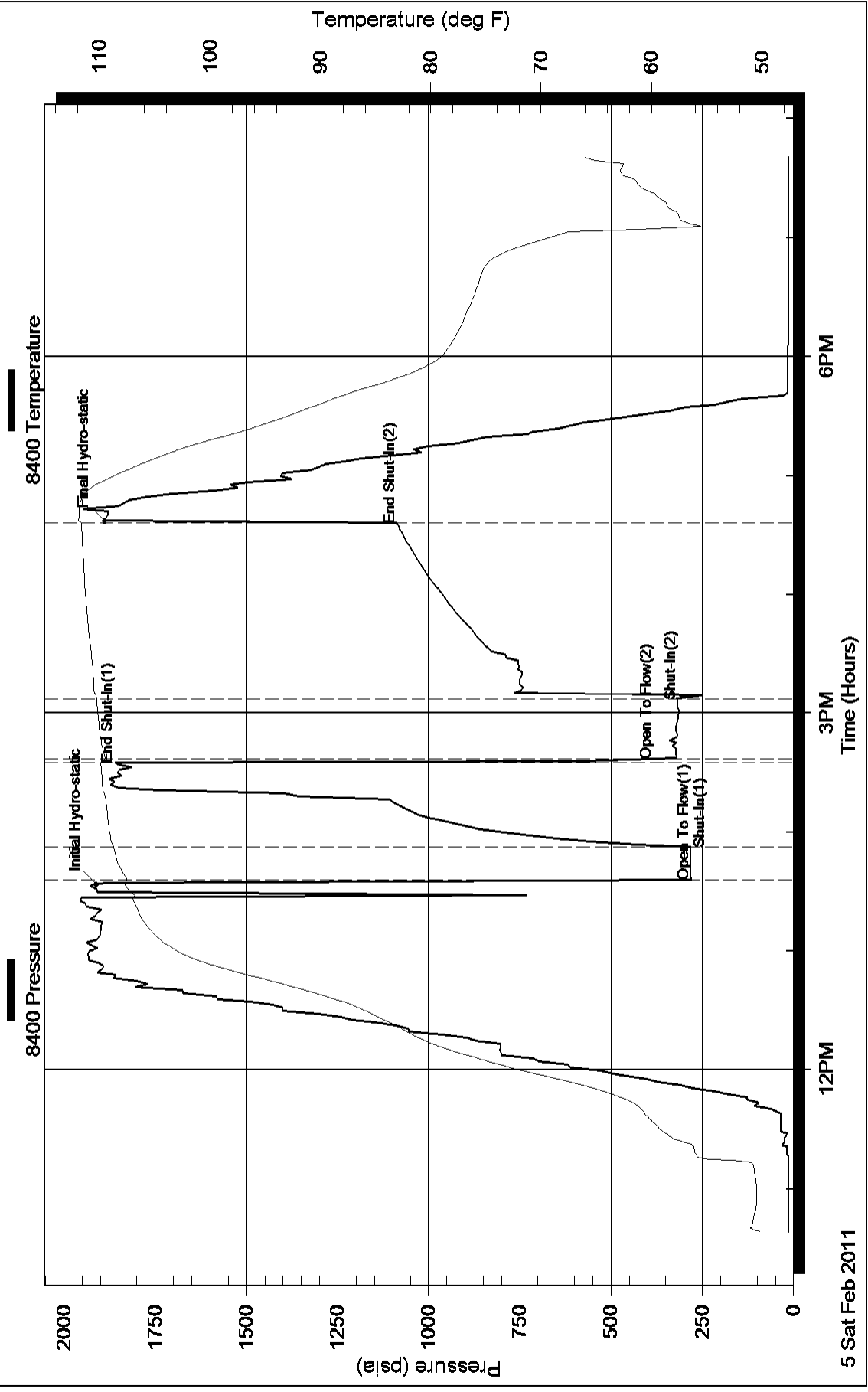
Recovery Table

Length ft	Description	Volume bbl
813.00	Mud with spots of Oil	9.044
0.00	Mud 100%	0.000

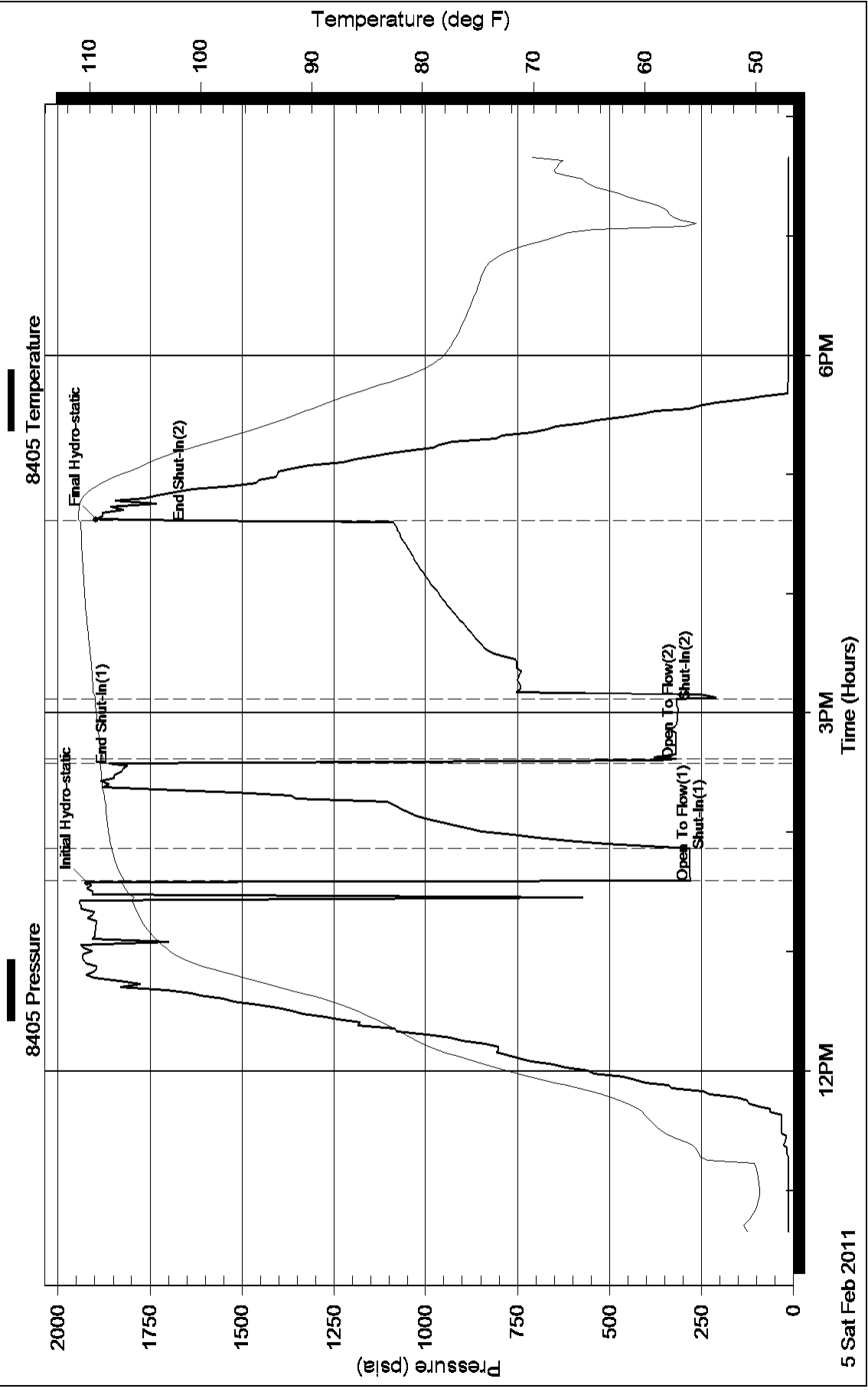
Total Length: 813.00 ft      Total Volume: 9.044 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



### Pressure vs. Time



# Pressure vs. Time



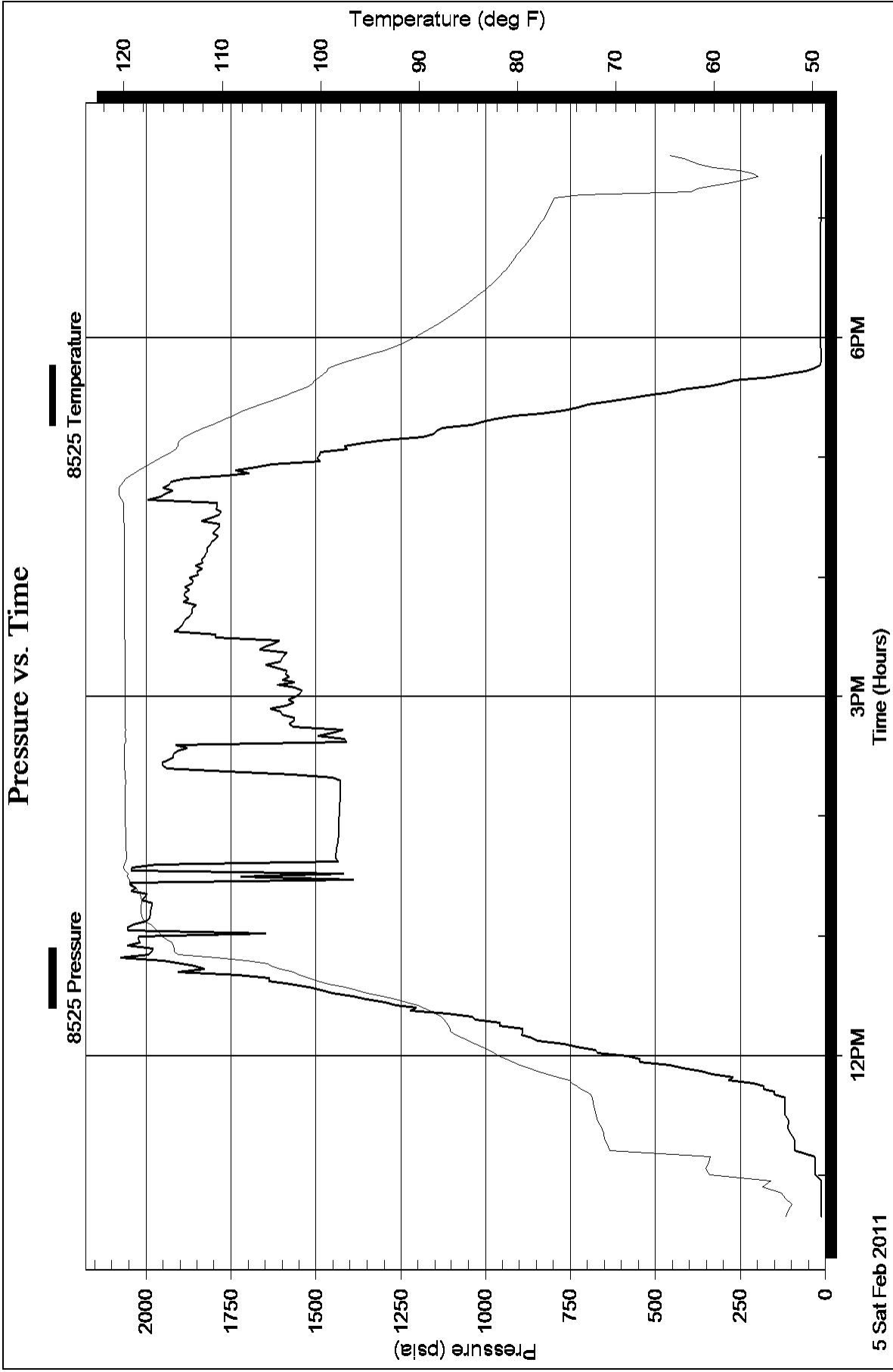
Serial #: 8525

Inside

Shelby Resources LLC.

10/22S/16W Pawnee

DST Test Number: 3



# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

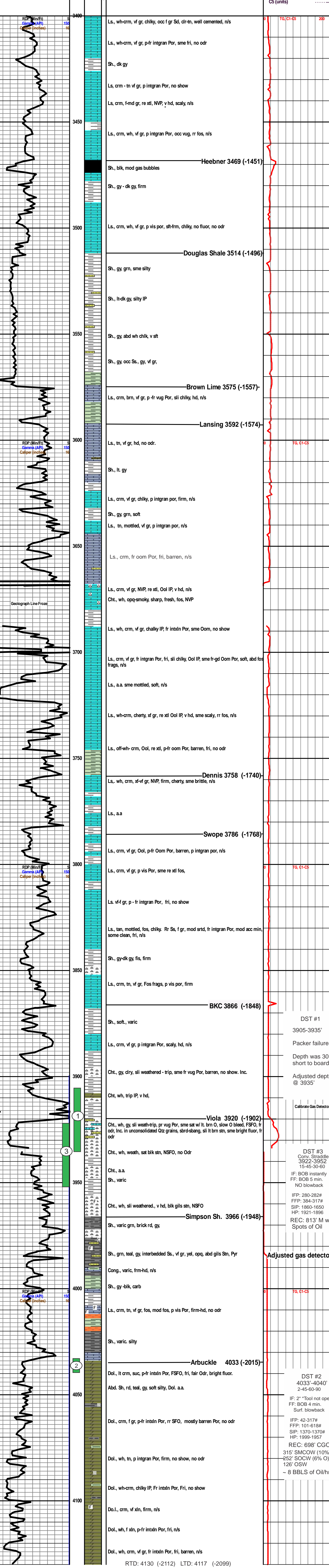
COMPANY	Capitva II	ELEVATIONS	KB 2018'
LEASE	Buster #1-10	DF	
FIELD	Wildcat	GL 2007'	
LOCATION	1863' ENL & 1737' FEL	Measurements Are All From Kelly Bushing	
SEC	10 TWSP 22S RGE 16W	CASING	CONDUCTOR 8-5/8" at 1018' SURFACE 8-5/8" at 1018' PRODUCTION None
COUNTY	Pawnee STATE Kansas		
CONTRACTOR	Sterling Drilling Co. Rig #2		
SPUD	1/27/11 COMP 2/6/11		
RTD	4130' LTD 4117'		
MUD UP	3100' TYPE MUD Chemical		
SAMPLES SAVED FROM	3100' TO RTD		
DRILLING TIME KEPT FROM	3200' TO RTD		
SAMPLES EXAMINED FROM	3100' TO RTD		
GEOLOGICAL SUPERVISION FROM	3150'		
GEOLOGIST ON WELL	Sean Deenihan		

REMARKS The Buster #1-10 was analyzed through sample, DST, and log analysis. It was decided the well was non-commercial. Therefore, the Buster #1-10 was plugged and abandoned.

api: 15-145-21630 Respectfully Submitted, Sean Deenihan



FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	1015 (1003)	1015 (1003)
Heebner Shale	3465 (-1447)	3469 (-1451)
Brown Lime	3571 (-1553)	3575 (-1557)
Lansing	3578 (-1560)	3592 (-1574)
BKC	3864 (-1846)	3866 (-1848)
Viola	3917 (-1899)	3920 (-1902)
Simpson Sh.	3978 (-1960)	3966 (-1948)
Arbuckle	4032 (-2014)	4033 (-2015)





# ALLIED CEMENTING CO., LLC. 038683

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Great Bend

DATE <u>1-27-11</u>	SEC. <u>10</u>	TWP. <u>22S</u>	RANGE <u>16W</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 PM</u>	JOB FINISH <u>9:30 PM</u>
LEASE <u>Buster</u>	WELL # <u>1-10</u>	LOCATION <u>K-19 3 East TO</u>			COUNTY <u>Pawnee</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>90th RD 1/2 South west in TO</u>					

CONTRACTOR Sterling Rig 2  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 1020  
 CASING SIZE 8 5/8 23# DEPTH 1020.24  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 800 MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.10  
 CEMENT LEFT IN CSG. 42.10  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 62.25

OWNER Shelby Resources

CEMENT  
 AMOUNT ORDERED 400 5/8 60/40 3% cc  
+ 2% Gel

COMMON	<u>240</u>	@	<u>13.50</u>	<u>3240.00</u>
POZMIX	<u>160</u>	@	<u>7.55</u>	<u>1208.00</u>
GEL	<u>7</u>	@	<u>20.25</u>	<u>141.75</u>
CHLORIDE	<u>13</u>	@	<u>51.50</u>	<u>669.50</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>400</u>	@	<u>2.25</u>	<u>900.00</u>
MILEAGE	<u>400 x 20 x .10</u>			<u>800.00</u>

EQUIPMENT  
 PUMP TRUCK CEMENTER Wayne - D  
 # 346 HELPER Bob - R  
 BULK TRUCK  
 # 344 DRIVER Kevin W  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Ran 1020 feet 8 5/8 casing and insert  
hook up to mud circulated casing  
shut down hook up mix 400  
5x 60/40 3% cc + 2% gel shut down  
release plug Displace 62.25 BBHs  
fresh water hand plug at 800 psi  
Release Hole Cement did circulate  
Rig Down Basket at 169 feet

TOTAL 6,959.25

SERVICE

DEPTH OF JOB	<u>1020.24</u>			
PUMP TRUCK CHARGE				<u>991.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>20</u>	@	<u>7.00</u>	<u>140.00</u>
MANIFOLD		@		
		@		
		@		

TOTAL 1131.00

CHARGE TO: Shelby Resources  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>1 8 5/8</u>	<u>Rubber Plug</u>	@	<u>74.00</u>	<u>74.00</u>
<u>1 8 5/8</u>	<u>Insert</u>	@	<u>158.00</u>	<u>158.00</u>
<u>1 8 5/8</u>	<u>Basket</u>	@	<u>221.00</u>	<u>221.00</u>
<u>1</u>	<u>Guide shoe</u>	@	<u>258.00</u>	<u>258.00</u>
		@		

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment  
 and furnish cementer and helper(s) to assist owner or



Customer <i>SHELBY RESOURCES</i>	Lease No.	Date <i>02-06-11</i>
Lease <i>BUSTER</i>	Well # <i>1-10</i>	
Field Order # <i>3564</i>	Station <i>PRATT KS</i>	Casing <i>D.P.</i>
	Depth <i>4033'</i>	County <i>PAWNEE</i>
Type Job <i>CNW P.T.A.</i>	Formation	State <i>KS</i>
		Legal Description <i>10-22-16</i>

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

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

Service Units	<i>19866</i>	<i>33708</i>	<i>20920</i>	<i>19959</i>	<i>21010</i>				
Driver Names	<i>Sullivan</i>	<i>Melton</i>	<i>Mitchell</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0130</i>					<i>on loc softy matry P.T.A.</i>
					<i>Bottom plug 4033' w/50 sk 60/40 Pore</i>
<i>0315</i>			<i>10</i>	<i>3</i>	<i>SPACK</i>
<i>5</i>			<i>10</i>	<i>4</i>	<i>mix cut</i>
<i>0330</i>			<i>54</i>	<i>6</i>	<i>Dip Ann shut down</i>
					<i>Set Plug 1050' w/50 sk</i>
<i>0605</i>			<i>10</i>	<i>3</i>	<i>SPACK</i>
<i>5</i>			<i>10</i>	<i>4</i>	<i>mix cut</i>
<i>0645</i>			<i>8</i>		<i>Dip &amp; shut down</i>
					<i>Set Plug 400' w/40 sk</i>
<i>0640</i>			<i>5</i>	<i>3</i>	<i>SPACK</i>
<i>5</i>			<i>8</i>	<i>4</i>	<i>mix cut</i>
<i>0647</i>			<i>1</i>		<i>Dip</i>
					<i>Plug TOP 600' w/20 sk</i>
<i>0730</i>			<i>5</i>	<i>3</i>	<i>Plug R4 w/20</i>
<i>5</i>			<i>6</i>		<i>Plug m.h. w/20</i>
<i>0745</i>			<i>5</i>	<i>3</i>	<i>SOB Complete</i>

*Thank you*

Customer Shelby Resources, LLC	Lease No.	Date 4-24-16	
Lease Buster	Well # 1-10		
Field Order # 12679	Station Pratt, Kansas	Casing 5 1/2 14Lb	Depth 4099ft
Type Job C.R.S.P.W. - Longstring	County Pawnee	Formation	State Kansas
			Legal Description 10-225-16W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2 14Lb/ft	Tubing Size 4 1/2 11.75	Shots/Ft	100 sacks	Acid	AA-2 with 1.25 lb/st	RATE	PRESS	ISIP
Depth 4099ft	Depth	From	To 108	Pre Pad	58 Fluid loss	Max	5 lb/st	5 Min.
Volume 97.5	Volume	From	To 15.3L	Pad	Gal, 5.54 Gal/st	Min	1.36	10 Min.
Max Press 1500 Psi	Max Press	From	To	Frac		Avg		15 Min.
Well Connection Plug Control	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	97 Bbl Fresh Water	Gas Volume		Total Load

Customer Representative Chris Gottschalk	Station Manager Kevin Gordley	Treater Clarence R. Messick
Service Units 37216 78982 86779 77686 19918		
Driver Names Messick Graves Whitfield		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:30					Truck on location and holds safety meeting.
					Steering Drilling start to run Auto Fill Float shoe shoe joint with latch
					Down Baffles screwed into collar and a total of 98 Jts new 14Lb/ft 5 1/2 casing
					A Basket was installed above collar # 2. A Turbolizer was installed on collar # 1 357 and # 11
					Casing in well. Circulate for 45 minutes
8:00		2,000			Shut in well and pressure Test.
8:02	300			6	Start mixing 50 sacks 60/40 Poz cement
	300		11	6	start mixing 100 sacks AA-2 cement
8:08	300		35		stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.
8:12	200			6.5	Start Fresh water Displacement
				5	Start to lift cement.
8:30	600		97		Plug down.
	1,500				Pressure up.
					Release pressure. Float shoe hold
			7-5	3	Plug Rat and Mouse holes
					Wash up pump truck.
9:00					Job complete
					Thank You
					Clarence R. Scott Bryan



**MORNING DRILLING REPORT**

<b>Sterling Drilling Company, Rig #4</b>		Wellsite Geologist:	
Box 1006, Pratt, Kansas 67124-1006			
Office Phone (620) 672-9508, Fax 672-9509			
<b>Rig #4 Phone Numbers (Dog House)</b>		<i>IN USE</i>	<i>Toolpusher</i>
Rig Cellular	(620) 388-4192	Yes	Larry Saloga
Geologist Cellular	(620) 388-5433	Yes	C (620) 388-4193
		Yes	
		Yes	

<b>Fax to:</b> <u>Jim Waechter/Chris Gottschalk</u>	
# of Pages	1 Fax# E-Mail out
WELL NAME	<u>Buster #1-10 OWWO</u>
LOCATION	<u>SW NE SW NE</u>
SEC	10 TWP
22s	RNG
16w	CO
<u>Pawnee</u>	
<u>Shelby Resources, LLC</u>	
<u>621 17th Street, Suite 1155</u>	
<u>Denver, CO 80293</u>	
ELEVATION	G.L. 2007 K.B. 2019 API# 15-145-21630-00-01

Central Kansas staked location April 28, 2015. Langfeld Dirt called Dig-Safe. Langfeld leveled location, and built offsite reserve pit 04/21/16 .Mikes for trash trailer and toilets. **Sterling made spud call on 06/19/16 to KCC (Scott Alberg). Reserve pit to SW outside irrigation circle. Shane's Tank Svc hauling from water well to SDC frac tank instead of digging water pit inside circle irrigation..**

**Day** 3 **Date:** 04/24/16 Sunday Reached RTD 4130' at 7:45 pm on 04/23/16

Running casing at 4130' at 7 am. Washed/Reamed and drilled 2223' in last 24.00 hours.  
 Daywork 24.00 hours (8.50 Washing down, 4.75 Drilling Arbuckle plug, 1.75 Short trip 35 stands, 2.50 CTCH, 3.75 LDDP, .75 Pull BOP, 2.00 Run casing).  
227 FPH

- 0' - 73' Top Plug- Hard Cement
- 73' - 340' Open hole
- 340' - 448' 2nd Plug- Hard Cement
- 448' - 983' Open hole
- 983' - 1105' 3rd Plug - Hard Cement
- 1105' - 3900' Open hole
- 3900' - 4030' Arbuckle Plug- Hard Cement
- 4030' - 4130' Open hole

**Day** 4 **Date:** 04/25/16 Monday

Moving off location at 7 am. Drilled 0' in last 24 hours.  
 Daywork 12.00 hours (1.00 Circulate casing, 1.00 Cement casing, 2.00 Clean pits, 8.00 Tear down for rig move).  
 Dry watch 12.00 hours.

**Production Casing Data:**

Ran 98 joints of new, 14#, 5-1/2" casing. Tallied 4084.15' with 0.81' GS. Set at 4099' KB. Basket on bottom of 20.95' SJ. Latch down baffle in top of 1st collar. Centralizers (5) 1,3,5,7,11. Cemented with 50 sks of 60/40 Scavenger and 100 sks AA-2 "Shelby Blend". Plug down at 8:45 am on 04/24/16. Basic Energy Svcs ticket #12645. Plugged rathole w/30 sks and mousehole with 20 sks. Sterling reported data to KCC

Cum Mud \$ \$1,944



**MORNING DRILLING REPORT**

<b>Sterling Drilling Company, Rig #4</b>		Wellsite Geologist:	
Box 1006, Pratt, Kansas 67124-1006			
Office Phone (620) 672-9508, Fax 672-9509			
<b>Rig #4 Phone Numbers (Dog House)</b>		<i>IN USE</i>	<i>Toolpusher</i>
Rig Cellular	(620) 388-4192	Yes	Larry Saloga
Geologist Cellular	(620) 388-5433	Yes	C (620) 388-4193
		Yes	
		Yes	

<b>Fax to:</b> <u>Jim Waechter/Chris Gottschalk</u>	
# of Pages	1 Fax# E-Mail out
WELL NAME	Buster #1-10 OWWO
LOCATION	SW NE SW NE
SEC	10 TWP
22s	RNG 16w CO Pawnee
Shelby Resources, LLC	
621 17th Street, Suite 1155	
Denver, CO 80293	
ELEVATION	G.L. 2007 K.B. 2019 API# 15-145-21630-00-01

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(Michelle Pennington) on 04/25/16.



