

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1352029  
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: \_\_\_\_\_

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	NANCY 5-17
Doc ID	1352029

All Electric Logs Run

Dual Induction
Compensated Nuutron
Micro
Sonic
Radial Bond

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	NANCY 5-17
Doc ID	1352029

Tops

Name	Top	Datum
Topeka	2906	-934
Heebner	3124	-1152
Brown Lime	3205	1233
LKC	3214	-1242
Muncie Creek	3340	-1368
Stark Shale	3402	-1430
BKC	3424	-1452
Arbuckle	3436	1464
LTD	3540	-1568



Customer <i>Shelby Resources</i>		Lease No.		Date <i>2/11/17</i>	
Lease <i>Nancy</i>		Well # <i>5-17</i>			
Field Order # <i>19559</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>	Depth <i>925.15</i>	County <i>Butler</i>	State <i>KS</i>
Type Job <i>8 5/8 Surface Pipe 742</i>			Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 5/8</i>				Pre Pad	Max		5 Min.
Depth <i>925</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>9.76</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press <i>500</i>	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative <i>Larry</i>	Station Manager <i>Scotty</i>	Treater <i>Scotty</i>
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Service Units <i>38950 27463 54196 19860</i>								
Driver Names <i>Scotty Mike Josh</i>								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:00</i>					<i>On location setting up pump</i>
<i>2:45</i>					<i>Break circulation on bottom</i>
<i>3:05</i>	<i>300</i>			<i>5</i>	<i>Pump 1170 Spool</i>
<i>3:05</i>	<i>250</i>		<i>3</i>	<i>5.25</i>	<i>Mix 200 lbs Acryl 15 ppg</i>
<i>3:26</i>	<i>200</i>		<i>9796</i>	<i>5.25</i>	<i>Mix 200 lbs Cement 15 ppg</i>
<i>3:35</i>	<i>0</i>		<i>47.73</i>	<i>0</i>	<i>Shut down</i>
<i>3:36</i>	<i>125</i>				<i>Release plug and displacement</i>
<i>3:36</i>	<i>300</i>		<i>1</i>	<i>5.25</i>	<i> cement circulated to surface</i>
<i>3:44</i>	<i>350</i>		<i>49</i>	<i>3.5</i>	<i>Reduce rate</i>
<i>3:45</i>	<i>350</i>		<i>7</i>	<i>3.5</i>	<i>Plug landed</i>
<i>3:45</i>	<i>550</i>			<i>0</i>	<i>increase pressure</i>
<i>3:46</i>	<i>300</i>			<i>0</i>	<i>Shut down Pressure fell back</i>
<i>3:47</i>	<i>0</i>				<i>Release line pressure</i>
<i>3:47</i>					<i>Job complete</i>
					<i>Bump Plug a few times</i>
					<i>Pressure fell back to 300 psi</i>
					<i>could not hold 300 psi</i>

# GLOBAL OIL FIELD SERVICES, LLC

2850

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell

DATE <u>3-2-17</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Nancy</u>	WELL # <u>5-17</u>	LOCATION <u>48221-3 N 3 E</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR APD

TYPE OF JOB Squeeze thru Retainer

HOLE SIZE \_\_\_\_\_ I.D. \_\_\_\_\_

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE 5 1/2 DEPTH \_\_\_\_\_

DRILL PIPE 2 3/4 DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

EQUIPMENT

PUMP TRUCK CEMENTER \_\_\_\_\_

# 117 HELPER Bill

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER Chris

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED \_\_\_\_\_

504 Cum 2 1/2 in

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

REMARKS:

Retainer @ 3460

Cent of 504 Cum 2 1/2 in

Squeeze to 1500 ft

Wash Clean - 40 in Formation

CHARGE TO: Shelby

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE Chris

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURICES LLC**

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

ATTN: JEREMY SCHWARTZ

**NANCY 5-17**

**17-17S-13W**

Start Date: 2017.02.14 @ 05:10:00

End Date: 2017.02.14 @ 12:47:00

Job Ticket #: 12                      DST #: 1

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.02.14 @ 13:25:20





# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

ATTN: JEREMY SCHWARTZ

Job Ticket: 12

DST#: 1

Test Start: 2017.02.14 @ 05:10:00

## GENERAL INFORMATION:

Formation: **LANSING A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:00

Time Test Ended: 12:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-36

Interval: **3209.00 ft (KB) To 3276.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3276.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139

Inside

Press@RunDepth: 405.57 psia @ 3271.34 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.14

End Date: 2017.02.14

Last Calib.: 2017.02.14

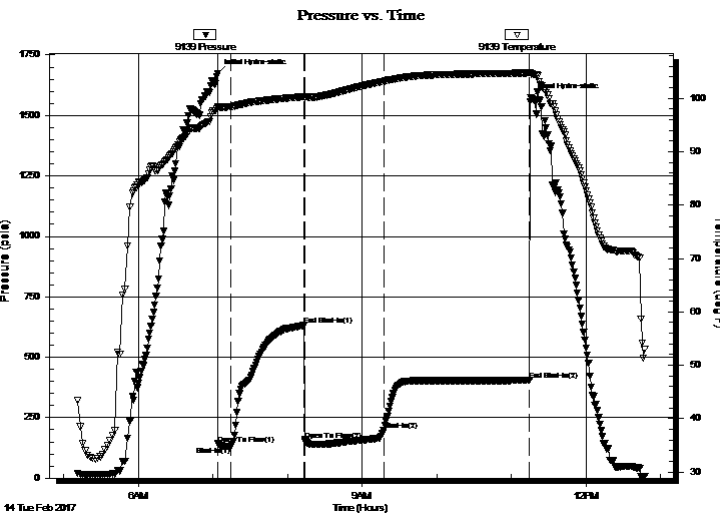
Start Time: 05:10:00

End Time: 12:47:30

Time On Btm: 2017.02.14 @ 07:03:30

Time Off Btm: 2017.02.14 @ 11:15:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BUILDING BLOW BUILT TO 6 INCHES INTO THE WATER  
1ST SHUT-IN 60 MINUTES NO BLOW BACK  
2ND OPENING 60 MINUTES WEAK BLOW BUILT TO BOTTOM OF A 5 GALLON BUCKET IN 28 MINUTES  
2ND SHUT-IN 90 MINUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1674.56	98.47	Initial Hydro-static
1	141.76	98.22	Open To Flow (1)
11	130.35	98.45	Shut-In(1)
70	631.67	100.33	End Shut-In(1)
70	158.57	100.16	Open To Flow (2)
134	198.63	103.22	Shut-In(2)
251	405.57	104.78	End Shut-In(2)
252	1573.98	104.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUDDY FROTHY OIL	0.15
60.00	SLIGHTY OIL CUT MUD	0.30
0.00	5 GAS 15 OIL 10 WATER 70 MUD	0.00
60.00	VERY SLIGHTLY OIL CUT MUD	0.30
0.00	5 OIL 95 MUD	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

ATTN: JEREMY SCHWARTZ

Job Ticket: 12

DST#: 1

Test Start: 2017.02.14 @ 05:10:00

## GENERAL INFORMATION:

Formation: **LANSING A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:00

Time Test Ended: 12:47:00

Interval: **3209.00 ft (KB) To 3276.00 ft (KB) (TVD)**

Total Depth: 3276.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-36

Reference Elevations: 1972.00 ft (KB)

1961.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **91716** Outside

Press@RunDepth: 381.91 psia @ 3271.34 ft (KB)

Start Date: 2017.02.14

Start Time: 05:10:00

End Date:

End Time:

2017.02.14

12:47:59

Capacity: psia

Last Calib.: 2017.02.14

Time On Btm: 2017.02.14 @ 07:03:30

Time Off Btm: 2017.02.14 @ 11:15:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BUILDING BLOW BUILT TO 6 INCHES INTO THE WATER  
1ST SHUT-IN 60 MINUTES NO BLOW BACK  
2ND OPENING 60 MINUTES WEAK BLOW BUILT TO BOTTOM OF A 5 GALLON BUCKET IN 28 MINUTES  
2ND SHUT-IN 90 MINUTES NO BLOW BACK

## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1643.77	98.12	Initial Hydro-static
1	89.44	98.26	Open To Flow (1)
11	92.09	98.48	Shut-In(1)
70	606.98	100.36	End Shut-In(1)
71	99.07	100.37	Open To Flow (2)
131	140.71	103.63	Shut-In(2)
134	190.70	103.86	Shut-In(3)
251	381.91	106.11	End Shut-In(2)
252	1614.70	106.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUDDY FROTHY OIL	0.15
60.00	SLIGHTY OIL CUT MUD	0.30
0.00	5 GAS 15 OIL 10 WATER 70 MUD	0.00
60.00	VERY SLIGHTLY OIL CUT MUD	0.30
0.00	5 OIL 95 MUD	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

ATTN: JEREMY SCHWARTZ

Job Ticket: 12

DST#: 1

Test Start: 2017.02.14 @ 05:10:00

## Tool Information

Drill Pipe:	Length: 2995.00 ft	Diameter: 3.80 inches	Volume: 42.01 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 68000.00 lb
			Total Volume: 43.04 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3209.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.34 ft			
Tool Length:	96.34 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3185.00	
Hydraulic tool	5.00			3190.00	
Jars	7.00			3197.00	
Safety Joint	2.00		Fluid	3199.00	
Top Packer	5.00			3204.00	
Packer	5.00			3209.00	29.00 Bottom Of Top Packer
Anchor	5.00			3214.00	
Change Over Sub	0.75			3214.75	
Drill Pipe	31.84			3246.59	
Change Over Sub	0.75			3247.34	
Anchor	24.00			3271.34	
Recorder	0.00	9139	Inside	3271.34	
Recorder	0.00	91716	Outside	3271.34	
Bullnose	5.00			3276.34	67.34 Anchor Tool

**Total Tool Length: 96.34**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 12

DST#: 1

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.14 @ 05:10:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 7.60 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MUDDY FROTHY OIL	0.148
60.00	SLIGHTY OIL CUT MUD	0.295
0.00	5 GAS 15 OIL 10 WATER 70 MUD	0.000
60.00	VERY SLIGHTLY OIL CUT MUD	0.295
0.00	5 OIL 95 MUD	0.000

Total Length: 150.00 ft      Total Volume: 0.738 bbl

Num Fluid Samples: 0

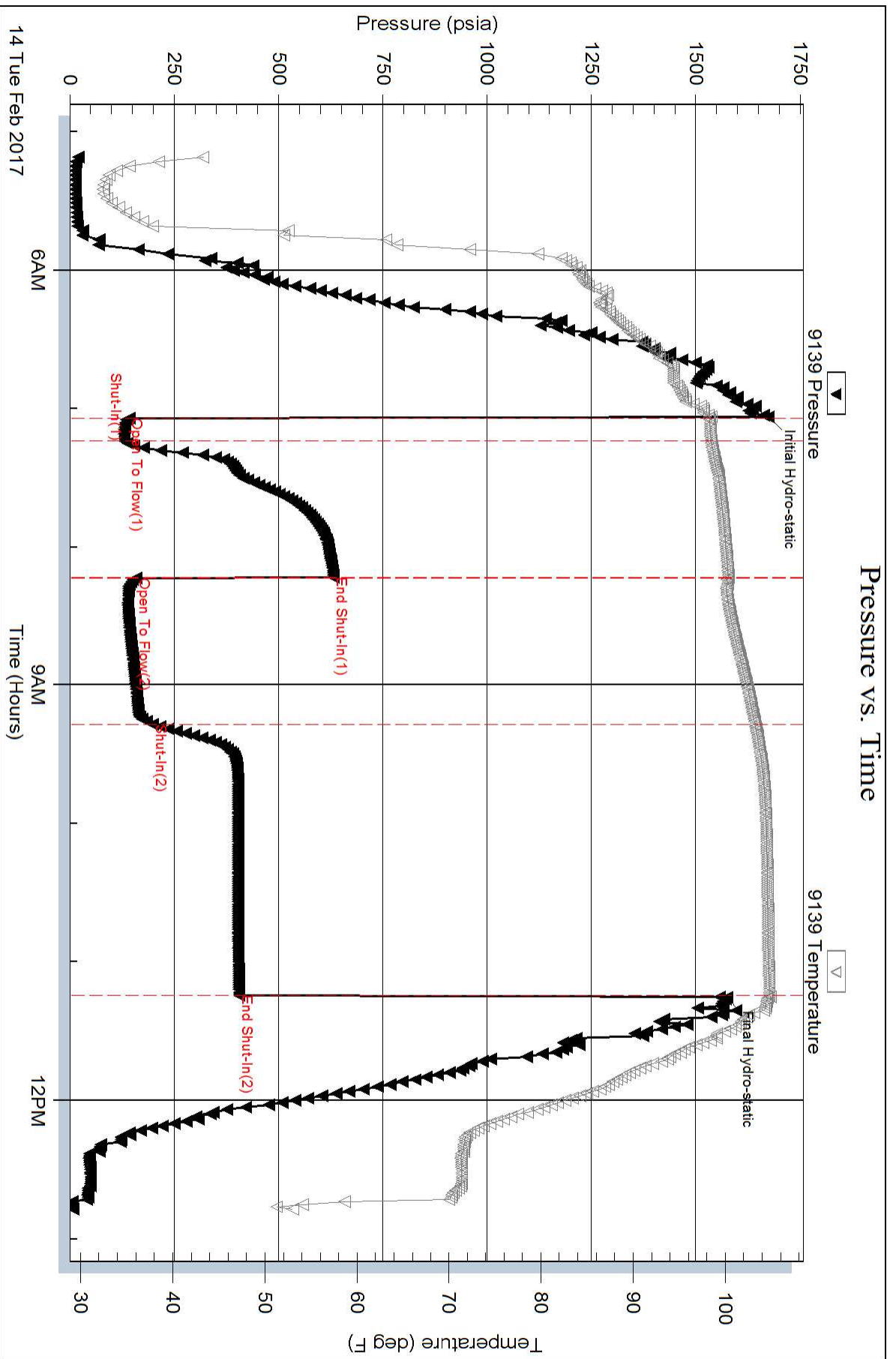
Num Gas Bombs: 0

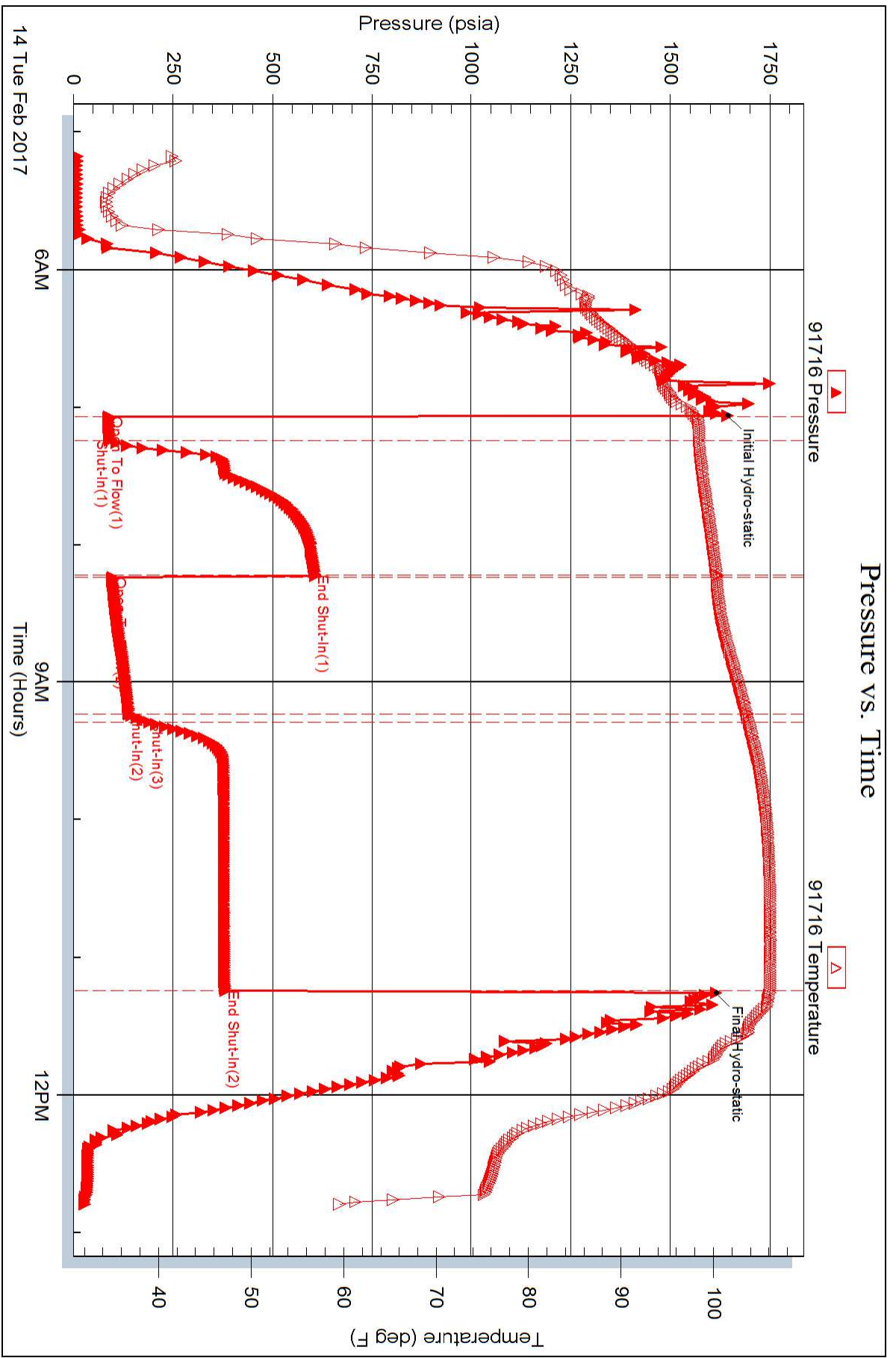
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURICES LLC**

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

ATTN: JEREMY SCHWARTZ

**NANCY 5-17**

**17-17S-13W**

Start Date: 2017.02.15 @ 03:57:00

End Date: 2017.02.15 @ 11:52:00

Job Ticket #: 01148                      DST #: 2

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.02.15 @ 12:12:35



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01148

DST#: 2

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.15 @ 03:57:00

## GENERAL INFORMATION:

Formation: **LANSING H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:00

Time Test Ended: 11:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3336.00 ft (KB) To 3431.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139

Inside

Press@RunDepth: 757.58 psia @ 3425.94 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.15

End Date:

2017.02.15

Last Calib.: 1899.12.30

Start Time: 03:57:00

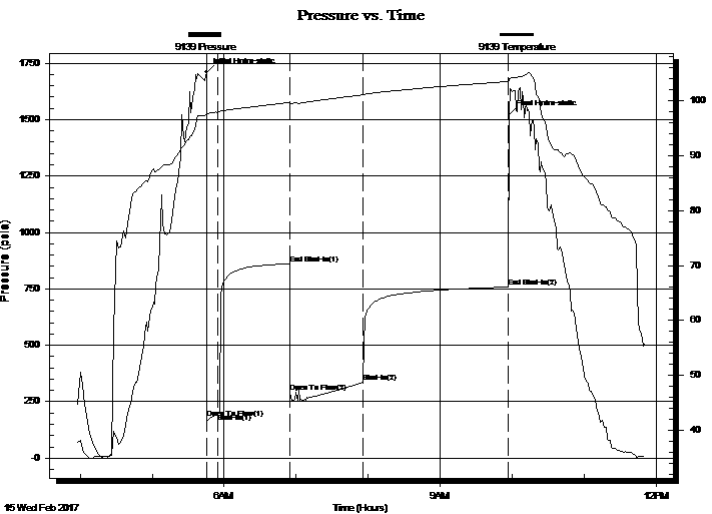
End Time:

11:50:30

Time On Btm: 2017.02.15 @ 05:45:00

Time Off Btm: 2017.02.15 @ 09:57:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BLOW BUILT TO 9 1/2 INCHES INTO THE WATER  
1ST SHUT-IN 60 MINUTES NO BLOW BACK  
2ND OPENING 60 MINUTES WEAK BLOW BUILT TO THE BOTTOM OF THE BUCKET IN 19 MINUTES  
2ND SHUT-IN 120 MINUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1709.06	97.62	Initial Hydro-static
1	176.31	97.25	Open To Flow (1)
10	197.93	97.93	Shut-In(1)
70	861.03	99.73	End Shut-In(1)
70	292.55	99.40	Open To Flow (2)
131	335.48	101.08	Shut-In(2)
251	757.58	103.51	End Shut-In(2)
253	1523.82	104.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	MUD	0.74
300.00	MUDDY WATER	3.66
0.00	CHLORIDES 57,000	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01148

DST#: 2

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.15 @ 03:57:00

## GENERAL INFORMATION:

Formation: **LANSING H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:00

Time Test Ended: 11:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3336.00 ft (KB) To 3431.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **91716** Outside

Press@RunDepth: 729.20 psia @ 3425.94 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.15

End Date: 2017.02.15

Last Calib.: 2017.02.15

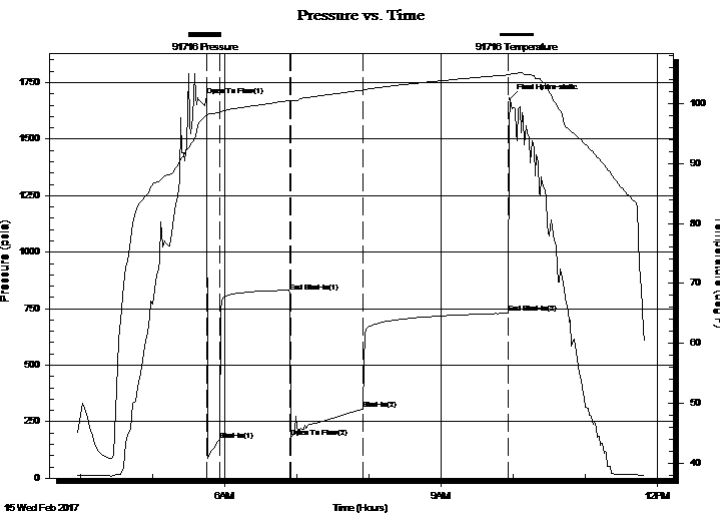
Start Time: 03:57:00

End Time: 11:49:59

Time On Btm:

Time Off Btm: 2017.02.15 @ 09:57:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BLOW BUILT TO 9 1/2 INCHES INTO THE WATER  
1ST SHUT-IN 60 MINUTES NO BLOW BACK  
2ND OPENING 60 MINUTES WEAK BLOW BUILT TO THE BOTTOM OF THE BUCKET IN 19 MINUTES  
2ND SHUT-IN 120 MINUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1691.21	97.91	Open To Flow (1)
11	168.26	98.54	Shut-In(1)
70	825.63	100.54	End Shut-In(1)
71	179.51	100.53	Open To Flow (2)
131	307.02	102.25	Shut-In(2)
251	729.20	104.78	End Shut-In(2)
253	1677.88	104.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	MUD	0.74
300.00	MUDDY WATER	3.66
0.00	CHLORIDES 57,000	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01148

DST#: 2

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.15 @ 03:57:00

## Tool Information

Drill Pipe:	Length: 3122.00 ft	Diameter: 3.80 inches	Volume: 43.79 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 86000.00 lb
			Total Volume: 44.82 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3336.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.94 ft			
Tool Length:	123.94 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			3312.00	
Hydraulic tool	5.00			3317.00	
Jars	7.00			3324.00	
Safety Joint	2.00		Fluid	3326.00	
Top Packer	5.00			3331.00	
Packer	5.00			3336.00	29.00 Bottom Of Top Packer
Anchor	5.00			3341.00	
Change Over Sub	0.75			3341.75	
Drill Pipe	63.44			3405.19	
Change Over Sub	0.75			3405.94	
Anchor	20.00			3425.94	
Recorder	0.00	9139	Inside	3425.94	
Recorder	0.00	91716	Outside	3425.94	
Bullnose	5.00			3430.94	94.94 Anchor Tool

**Total Tool Length: 123.94**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01148

DST#: 2

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.15 @ 03:57:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 61.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4300.00 ppm  
Filter Cake: 0.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MUD	0.738
300.00	MUDDY WATER	3.662
0.00	CHLORIDES 57,000	0.000

Total Length: 450.00 ft      Total Volume: 4.400 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

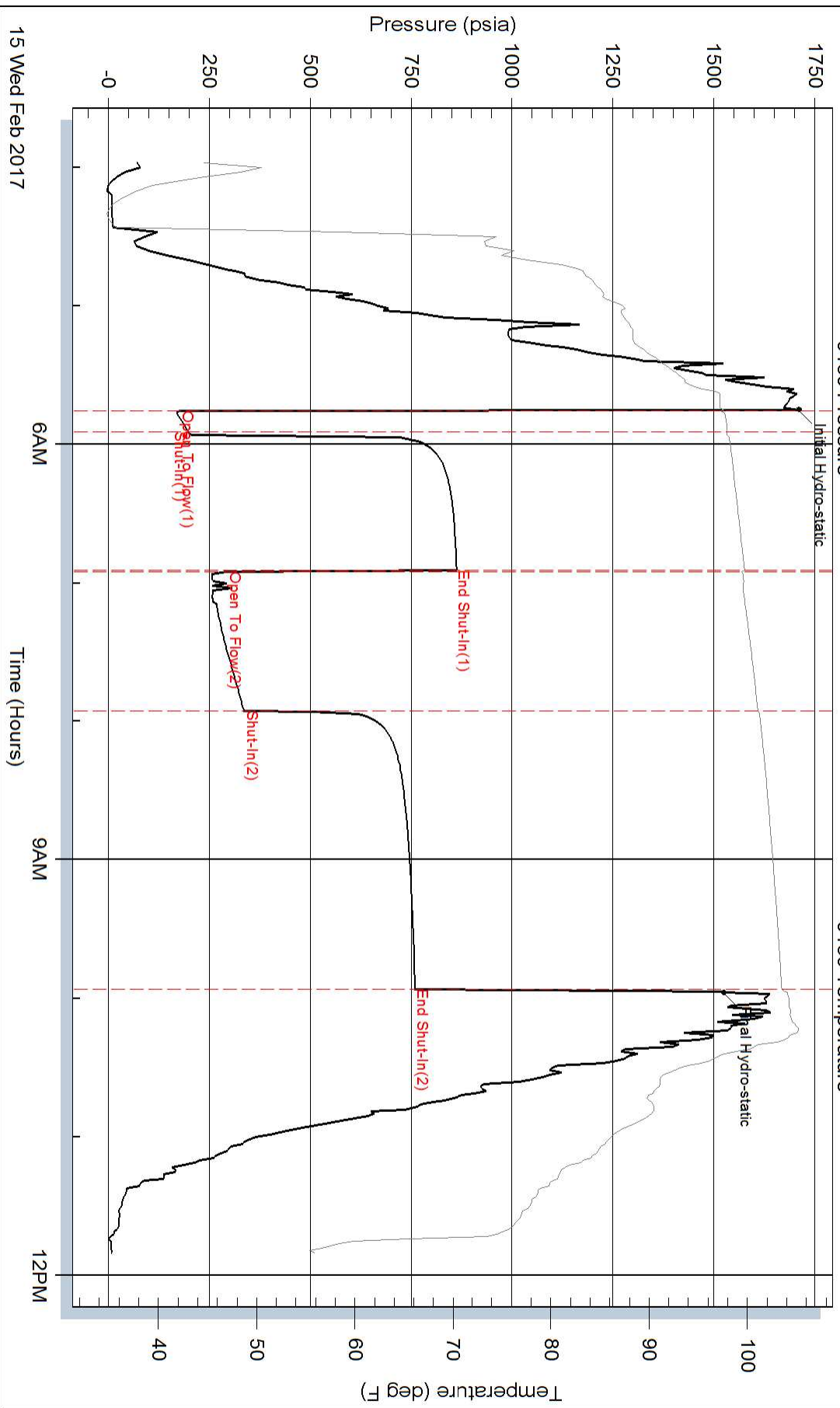
Serial #:

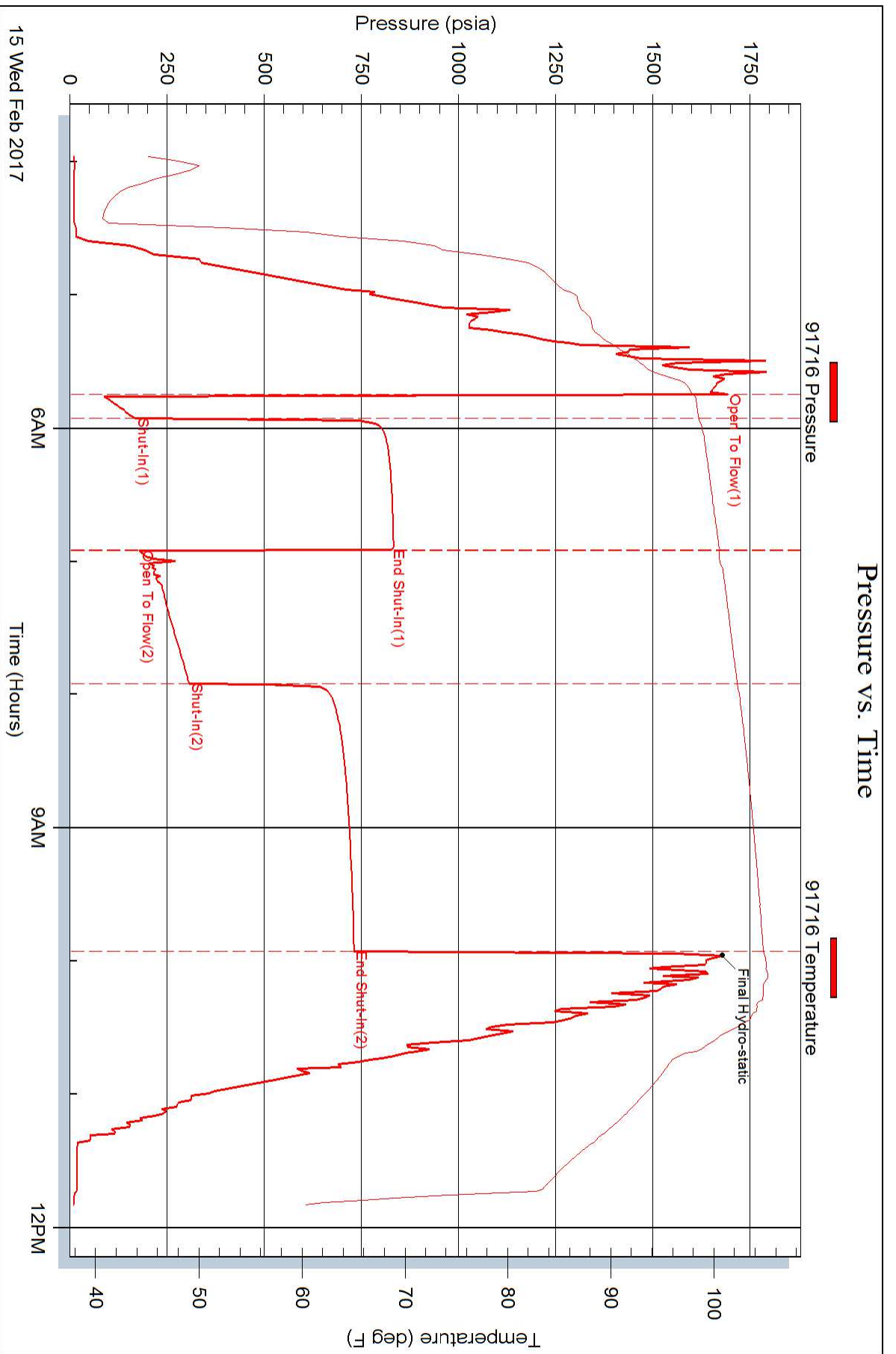
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURICES LLC**

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

ATTN: JEREMY SCHWARTZ

**NANCY 5-17**

**17-17S-13W**

Start Date: 2017.02.16 @ 08:40:00

End Date: 2017.02.16 @ 00:00:00

Job Ticket #: 01149                      DST #: 3

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.02.16 @ 01:51:51



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01149

DST#: 3

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:14:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3420.00 ft (KB) To 3450.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139

Inside

Press@RunDepth: 1105.52 psia @ 3445.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.15

End Date: 2017.02.16

Last Calib.: 2017.02.16

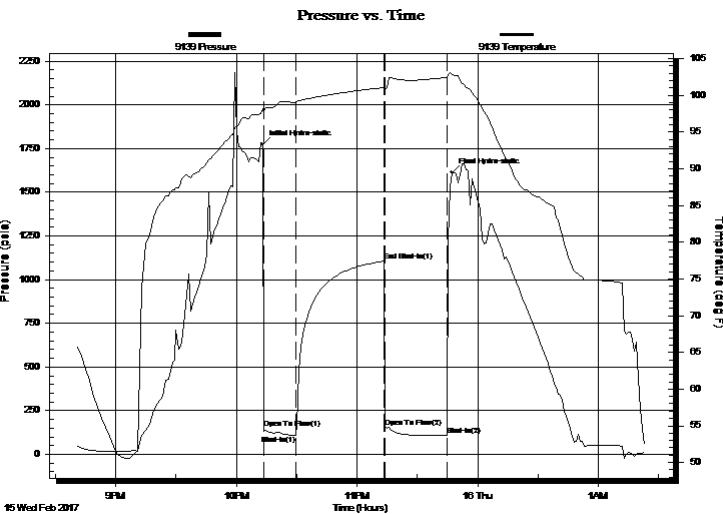
Start Time: 20:40:00

End Time: 01:23:30

Time On Btm: 2017.02.15 @ 22:13:00

Time Off Btm: 2017.02.15 @ 23:47:00

TEST COMMENT: 1ST OPENING 15 MINUTES VERY WEAK SURFACE BLOW FOR 11 MINUTES AND DIED  
1ST SHUT-IN 45 MINUTES NO BLOW BACK  
2ND OPENING 30 MINUTES VERY WEAK SURFACE BLOW FOR 30 MINUTES AND PULLED THE TOOL  
2ND SHUT-IN 0 NONE TAKEN



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1772.75	98.26	Initial Hydro-static
1	148.73	97.71	Open To Flow (1)
17	107.01	99.07	Shut-In(1)
61	1105.52	101.06	End Shut-In(1)
61	155.92	100.76	Open To Flow (2)
92	108.92	102.46	Shut-In(2)
94	1613.87	102.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	CLEAN OIL	0.02
55.00	OIL CUT MUD 45 OILK 55 MUD	0.27

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01149

DST#: 3

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:14:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3420.00 ft (KB) To 3450.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1082.04 psia @ 3445.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.15

End Date: 2017.02.16

Last Calib.: 2017.02.16

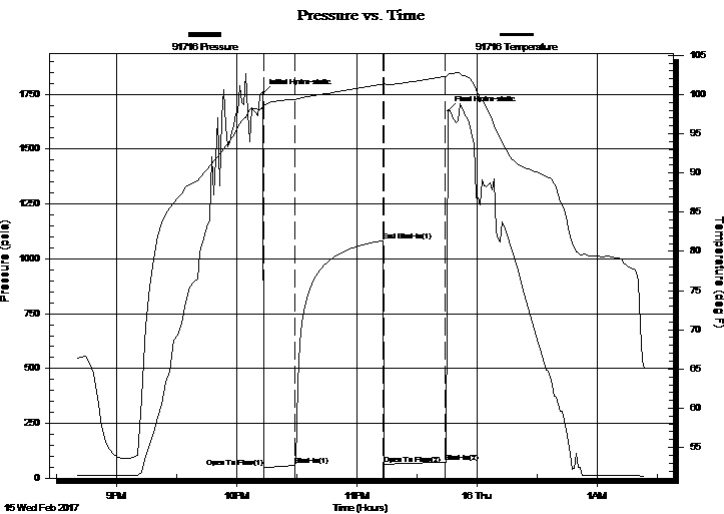
Start Time: 20:40:00

End Time: 01:23:30

Time On Btm: 2017.02.15 @ 22:13:00

Time Off Btm: 2017.02.15 @ 23:45:30

TEST COMMENT: 1ST OPENING 15 MINUTES VERY WEAK SURFACE BLOW FOR 11 MINUTES AND DIED  
1ST SHUT-IN 45 MINUTES NO BLOW BACK  
2ND OPENING 30 MINUTES VERY WEAK SURFACE BLOW FOR 30 MINUTES AND PULLED THE TOOL  
2ND SHUT-IN 0 NONE TAKEN



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1754.78	98.47	Initial Hydro-static
1	47.61	98.63	Open To Flow (1)
16	57.78	99.38	Shut-In(1)
60	1082.04	101.34	End Shut-In(1)
61	61.10	101.36	Open To Flow (2)
91	74.39	102.31	Shut-In(2)
93	1673.53	102.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	CLEAN OIL	0.02
55.00	OIL CUT MUD 45 OILK 55 MUD	0.27

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01149

DST#: 3

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

## Tool Information

Drill Pipe:	Length: 3186.00 ft	Diameter: 3.80 inches	Volume: 44.69 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	84000.00 lb
			<u>Total Volume: 45.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3420.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	59.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3396.00	
Hydraulic tool	5.00			3401.00	
Jars	7.00			3408.00	
Safety Joint	2.00		Fluid	3410.00	
Top Packer	5.00			3415.00	
Packer	5.00			3420.00	29.00 Bottom Of Top Packer
Anchor	25.00			3445.00	
Recorder	0.00	9139	Inside	3445.00	
Recorder	0.00	91716	Outside	3445.00	
Bullnose	5.00			3450.00	30.00 Anchor Tool
<b>Total Tool Length:</b>	<b>59.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01149

DST#: 3

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 8.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CLEAN OIL	0.025
55.00	OIL CUT MUD 45 OILK 55 MUD	0.270

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

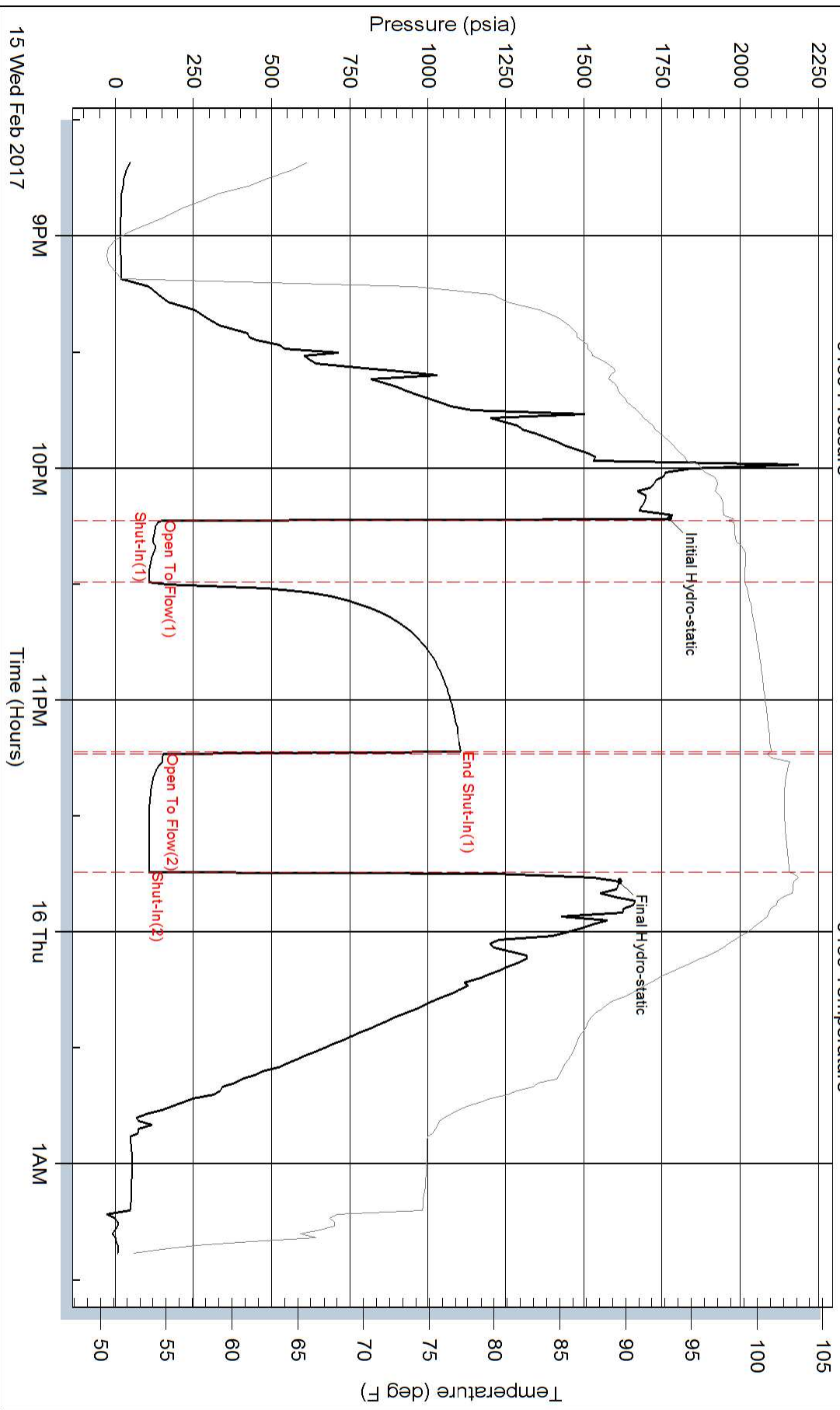
Serial #:

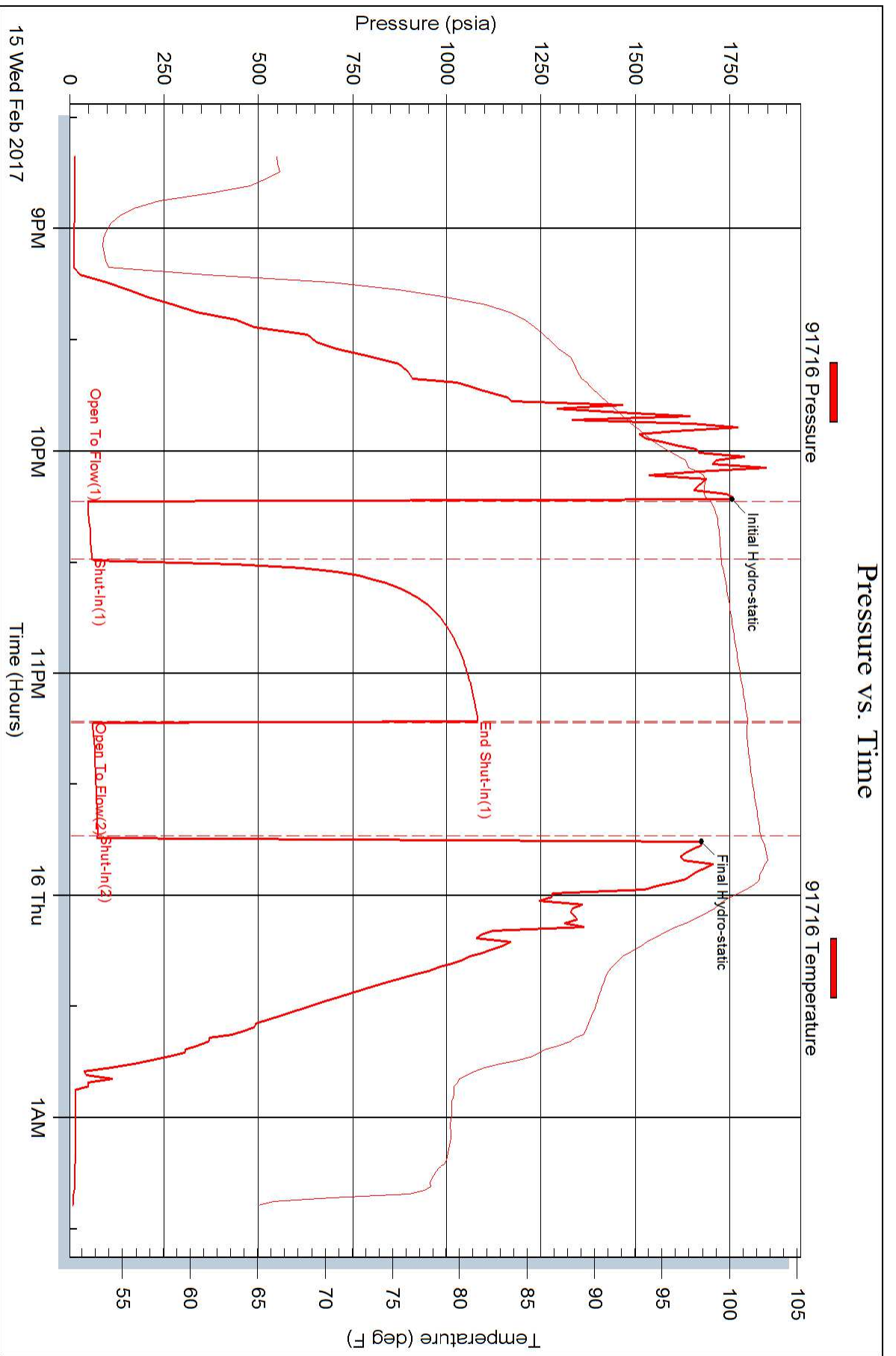
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURICES LLC**

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

ATTN: JEREMY SCHWARTZ

**NANCY 5-17**

**17-17S-13W**

Start Date: 2017.02.16 @ 08:40:00

End Date: 2017.02.16 @ 00:00:00

Job Ticket #: 01150                      DST #: 4

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.02.16 @ 15:08:26



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01150

DST#: 4

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:46:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3420.00 ft (KB) To 3456.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139

Inside

Press@RunDepth: 1032.54 psia @ 3451.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.16

End Date: 2017.02.16

Last Calib.: 2017.02.16

Start Time: 08:40:00

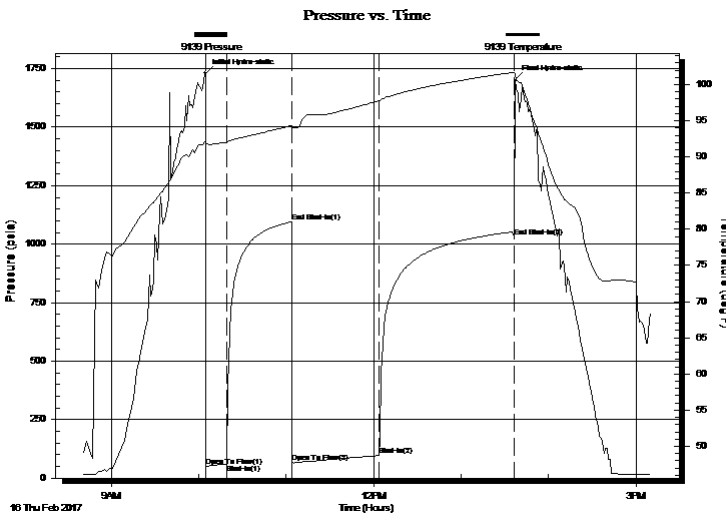
End Time: 15:10:30

Time On Btm: 2017.02.16 @ 10:04:30

Time Off Btm: 2017.02.16 @ 13:37:00

TEST COMMENT: 1ST OPENING 15 MINUTES WEAK BLOW BUILT TO 2 INCHES INTO THE WATER  
1ST SHUT-IN 45 MINUTES NO BLOW BACK  
2ND OPENING 60 MINUTES WEAK BLOW BUILT TO 5 1/2 INCHES INTO THE WATER  
2ND SHUT-IN 90 MINKUTES NO BLOW BACK

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1730.76	92.24	Initial Hydro-static
1	52.27	91.82	Open To Flow (1)
15	60.60	92.03	Shut-In(1)
59	1095.77	94.34	End Shut-In(1)
60	66.27	93.96	Open To Flow (2)
119	96.60	97.74	Shut-In(2)
212	1032.54	101.68	End Shut-In(2)
213	1703.12	101.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	clean oil	0.07
35.00	oil cut mud 10 oil 90 mud	0.17
60.00	oil cut mud 5 oil 95 mud	0.30

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01150

DST#: 4

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:46:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3420.00 ft (KB) To 3456.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1049.43 psia @ 3451.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.16

End Date: 2017.02.16

Last Calib.: 2017.02.16

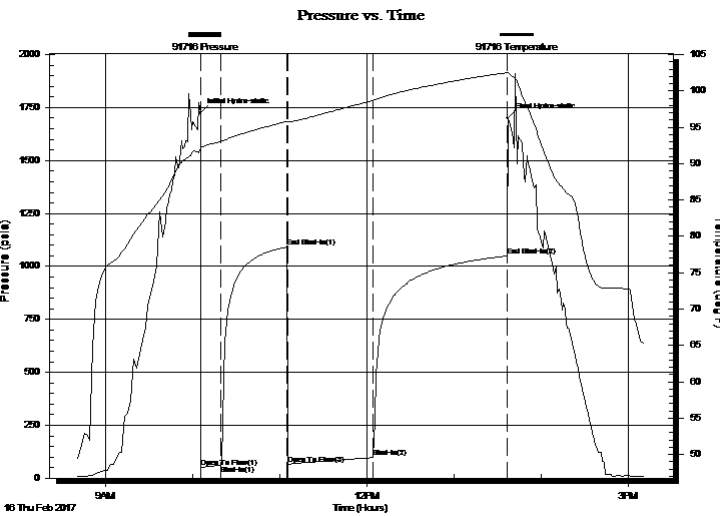
Start Time: 08:40:00

End Time: 15:11:00

Time On Btm: 2017.02.16 @ 10:05:00

Time Off Btm: 2017.02.16 @ 13:37:00

TEST COMMENT: 1ST OPENING 15 MINUTES WEAK BLOW BUILT TO 2 INCHES INTO THE WATER  
 1ST SHUT-IN 45 MINUTES NO BLOW BACK  
 2ND OPENING 60 MINUTES WEAK BLOW BUILT TO 5 1/2 INCHES INTO THE WATER  
 2ND SHUT-IN 90 MINKUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1725.55	92.04	Initial Hydro-static
1	50.34	92.26	Open To Flow (1)
14	60.64	93.04	Shut-In(1)
60	1091.70	95.82	End Shut-In(1)
60	65.71	95.81	Open To Flow (2)
119	97.08	98.70	Shut-In(2)
212	1049.43	102.52	End Shut-In(2)
212	1700.98	102.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	clean oil	0.07
35.00	oil cut mud 10 oil 90 mud	0.17
60.00	oil cut mud 5 oil 95 mud	0.30

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01150

DST#: 4

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

## Tool Information

Drill Pipe:	Length: 3187.00 ft	Diameter: 3.80 inches	Volume: 44.71 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:	200009.0 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3420.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	65.00 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			3396.00	
Hydraulic tool	5.00			3401.00	
Jars	7.00			3408.00	
Safety Joint	2.00		Fluid	3410.00	
Top Packer	5.00			3415.00	
Packer	5.00			3420.00	29.00 Bottom Of Top Packer
Anchor	31.00			3451.00	
Recorder	0.00	9139	Inside	3451.00	
Recorder	0.00	91716	Outside	3451.00	
Bullnose	5.00			3456.00	36.00 Anchor Tool
<b>Total Tool Length:</b>	<b>65.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01150

DST#: 4

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 68.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	clean oil	0.074
35.00	oil cut mud 10 oil 90 mud	0.172
60.00	oil cut mud 5 oil 95 mud	0.295

Total Length: 110.00 ft      Total Volume: 0.541 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

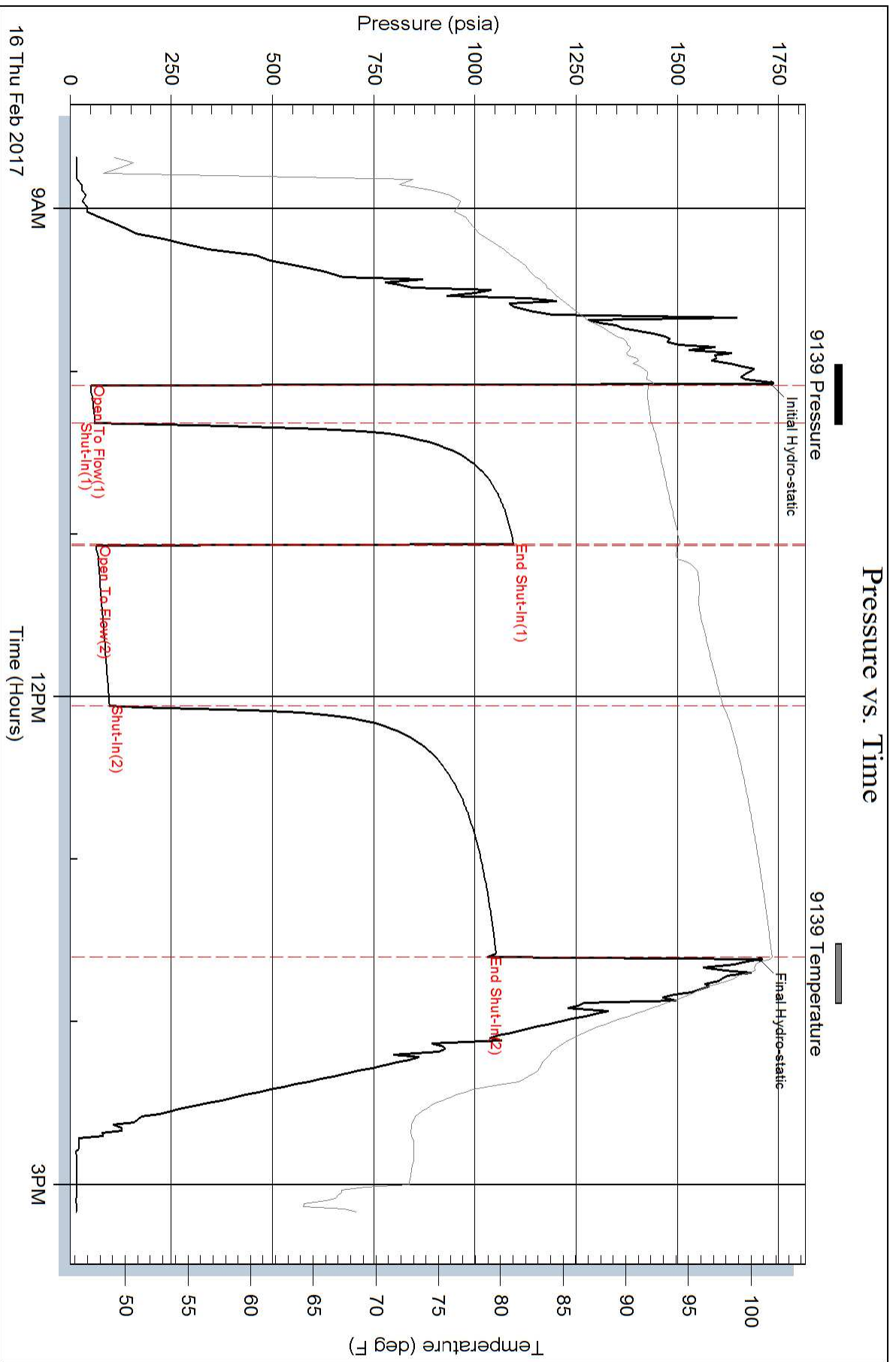
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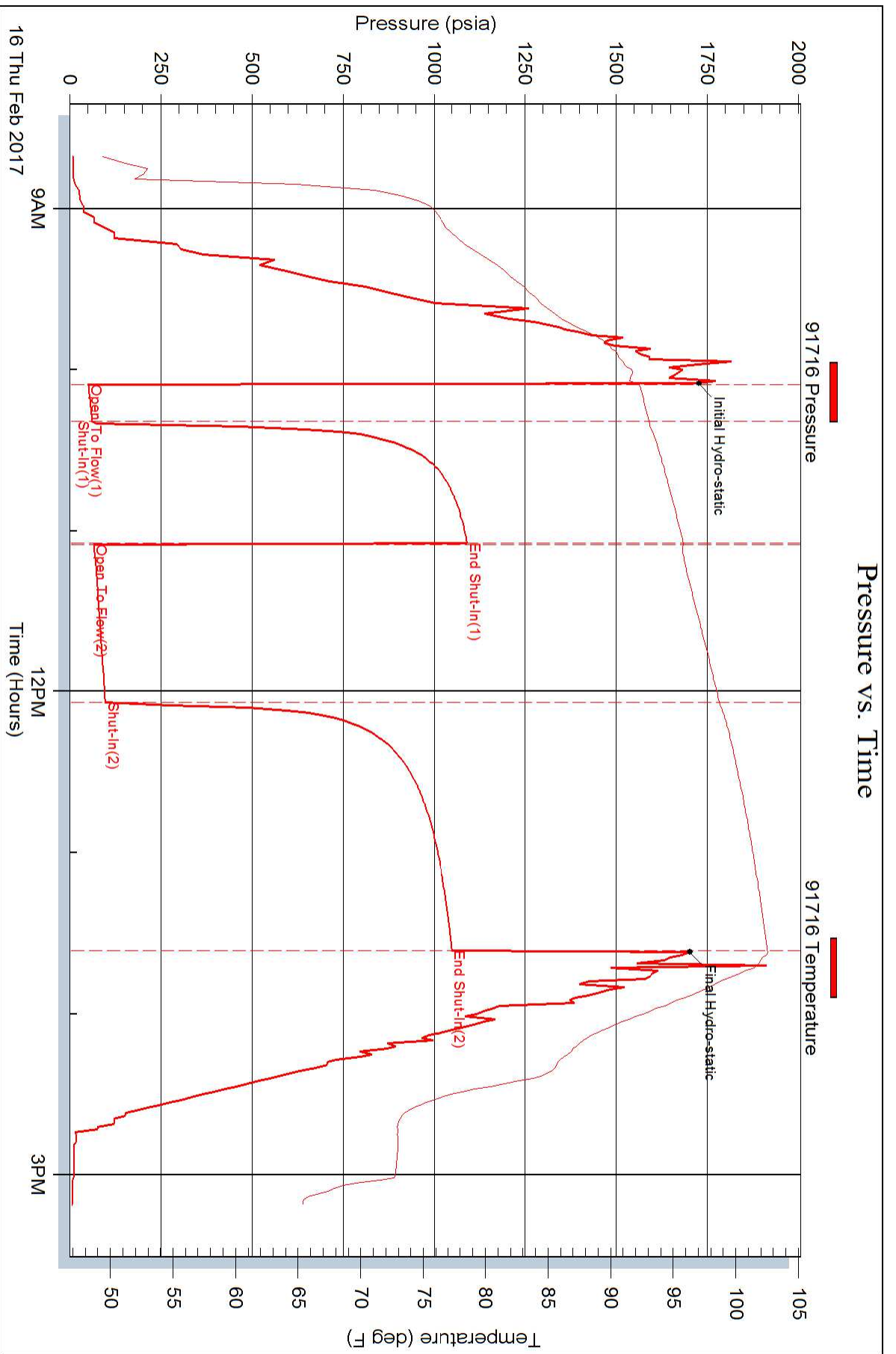
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURICES LLC**

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

ATTN: JEREMY SCHWARTZ

**NANCY 5-17**

**17-17S-13W**

Start Date: 2017.02.17 @ 21:55:00

End Date: 2017.02.17 @ 04:35:00

Job Ticket #: 01151                      DST #: 5

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.02.17 @ 04:47:50



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01151

DST#: 5

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.17 @ 21:55:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:00

Time Test Ended: 04:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3455.00 ft (KB) To 3463.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139

Inside

Press@RunDepth: 1144.23 psia @ 3458.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.16

End Date:

2017.02.17

Last Calib.:

2017.02.17

Start Time: 21:55:00

End Time:

04:35:00

Time On Btm:

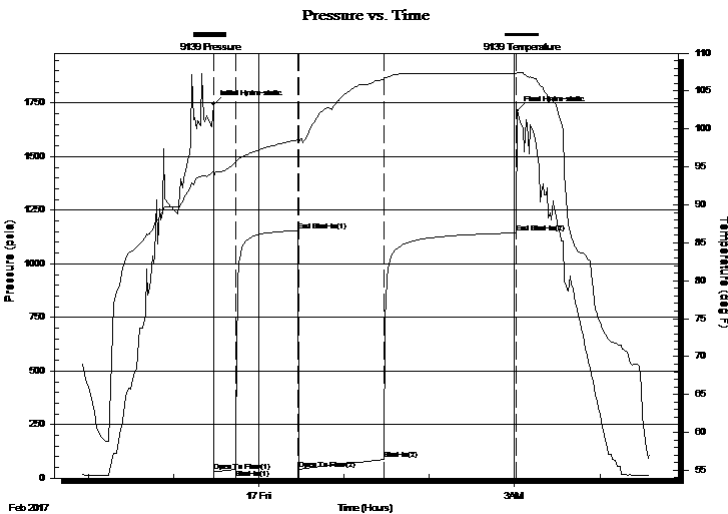
2017.02.16 @ 23:28:00

Time Off Btm:

2017.02.17 @ 03:02:00

TEST COMMENT: 1ST OPENING 15 MINUTES WEAK BUILDING BLOW BUILT TO 1 1/2 INCHES INTO THE WATER  
1ST SHUT-IN 45 MINUTES  
2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO 5 1/2 INCHES INTO THE WATER  
2ND SHUT-IN 90 MINUTES

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1742.91	94.37	Initial Hydro-static
1	30.60	93.53	Open To Flow (1)
16	40.61	95.52	Shut-In(1)
60	1154.47	98.58	End Shut-In(1)
60	42.72	98.17	Open To Flow (2)
120	87.11	106.58	Shut-In(2)
213	1144.23	107.34	End Shut-In(2)
214	1713.31	107.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER WITH A TRACE OF OIL	0.59
0.00	LESS THAN 1 PERCENT OIL	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01151

DST#: 5

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.17 @ 21:55:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:00

Time Test Ended: 04:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3455.00 ft (KB) To 3463.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1141.93 psia @ 3458.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.16

End Date: 2017.02.17

Last Calib.: 2017.02.17

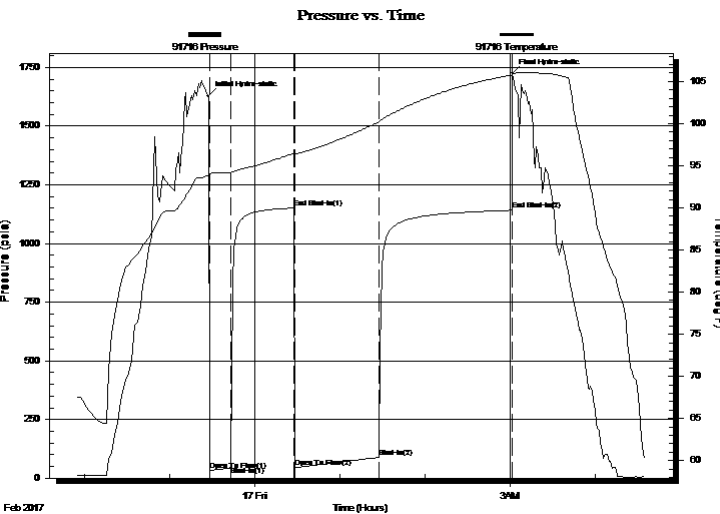
Start Time: 21:55:00

End Time: 04:35:00

Time On Btm: 2017.02.16 @ 23:27:30

Time Off Btm: 2017.02.17 @ 03:01:30

TEST COMMENT: 1ST OPENING 15 MINUTES WEAK BUILDING BLOW BUILT TO 1 1/2 INCHES INTO THE WATER  
1ST SHUT-IN 45 MINUTES  
2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO 5 1/2 INCHES INTO THE WATER  
2ND SHUT-IN 90 MINUTES



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1628.59	93.85	Initial Hydro-static
1	34.18	93.96	Open To Flow (1)
16	48.83	94.22	Shut-In(1)
60	1151.08	96.47	End Shut-In(1)
61	45.37	96.49	Open To Flow (2)
120	88.61	100.21	Shut-In(2)
214	1141.93	105.77	End Shut-In(2)
214	1725.01	105.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER WITH A TRACE OF OIL	0.59
0.00	LESS THAN 1 PERCENT OIL	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01151

DST#: 5

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.17 @ 21:55:00

## Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 46.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3455.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	32.00 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			3436.00	
Hydraulic tool	5.00			3441.00	
Jars	7.00			3448.00	
Safety Joint	2.00		Fluid	3450.00	
Packer	5.00			3455.00	24.00 Bottom Of Top Packer
Anchor	3.00			3458.00	
Recorder	0.00	9139	Inside	3458.00	
Recorder	0.00	91716	Outside	3458.00	
Bullnose	5.00			3463.00	8.00 Anchor Tool
<b>Total Tool Length:</b>	<b>32.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

SHELBY RESOURICES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01151

DST#: 5

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.17 @ 21:55:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 8.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WATER WITH A TRACE OF OIL	0.590
0.00	LESS THAN 1 PERCENT OIL	0.000

Total Length: 120.00 ft      Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

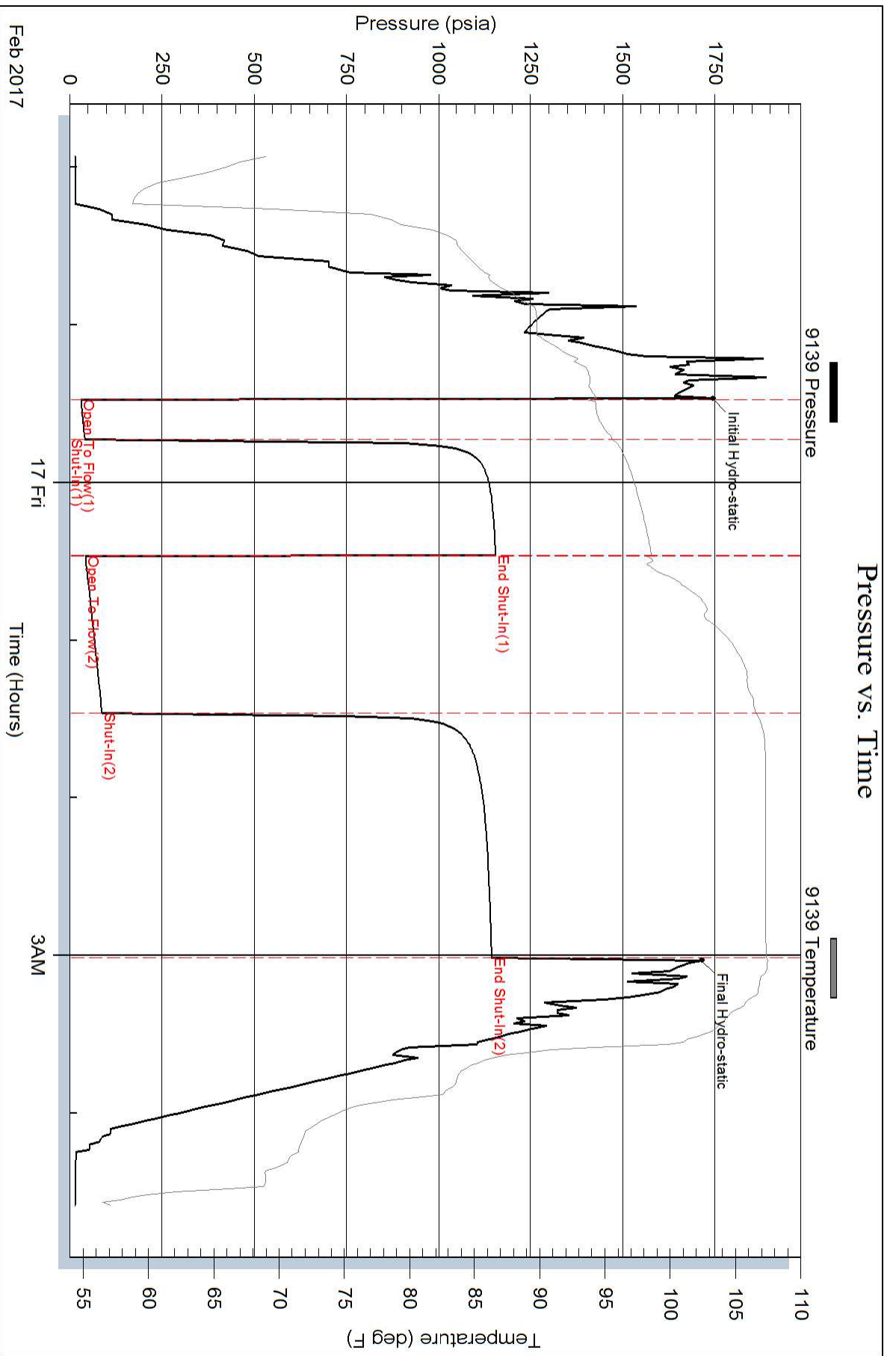
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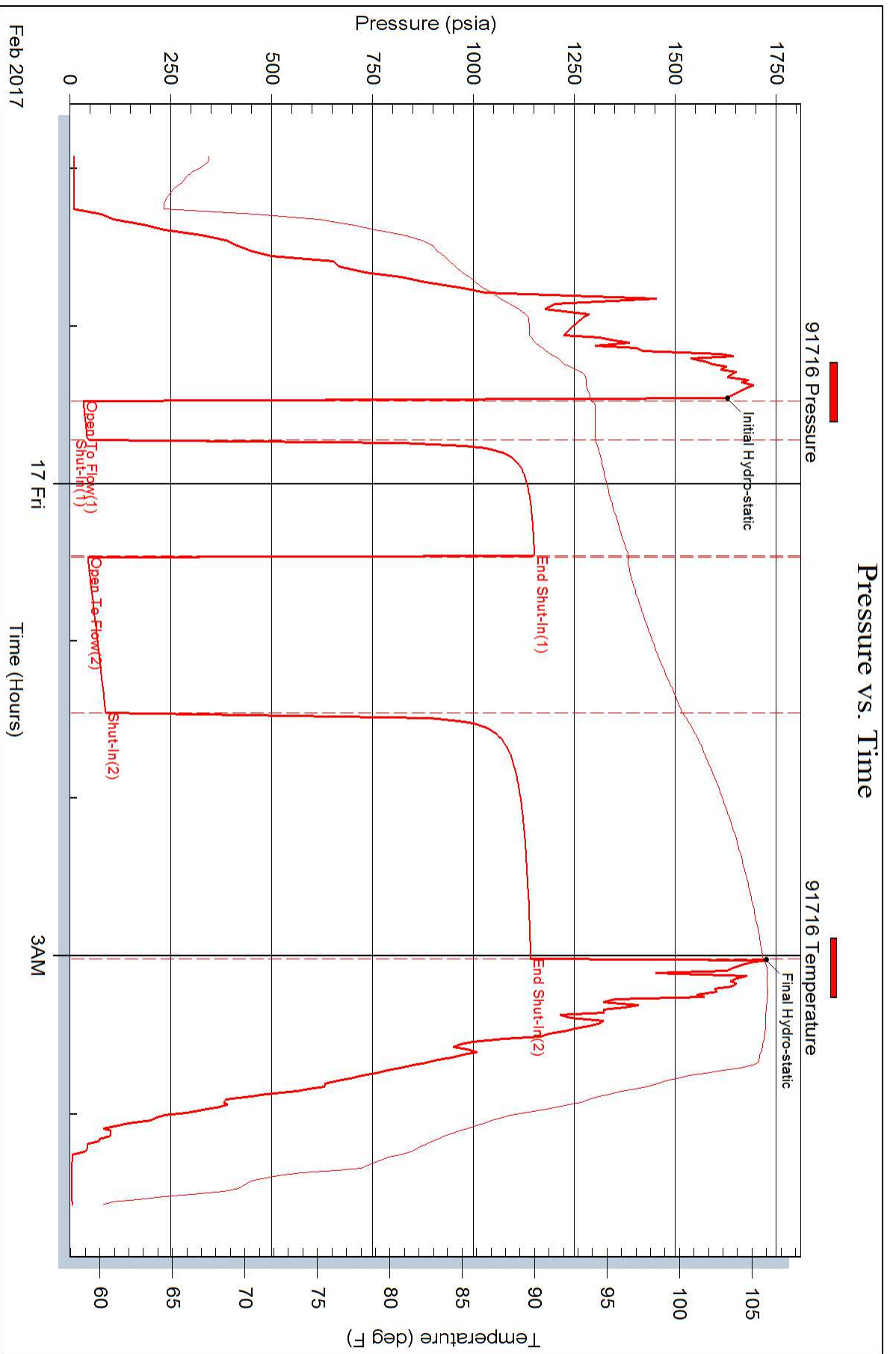
Laboratory Name:

Laboratory Location:

Recovery Comments:









Scale 1:240 Imperial

Well Name: Nancy #5-17  
 Surface Location: 789' FNL, 1538' FWL, Sec. 17-17S-13W  
 Bottom Location:  
 API: 15-009-26163-0000  
 License Number:  
 Spud Date: 2/10/2017 Time: 6:00 PM  
 Region: Barton County  
 Drilling Completed: 2/17/2017 Time: 10:30 AM  
 Surface Coordinates:  
 Bottom Hole Coordinates:  
 Ground Elevation: 1961.00ft  
 K.B. Elevation: 1972.00ft  
 Logged Interval: 2800.00ft To: 3540.00ft  
 Total Depth: 3540.00ft  
 Formation: Lansing Kansas City  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**

Company: Shelby Resources, LLC  
 Address: 621 17th St, Suite 1155  
 Denver, CO 80293  
 Contact Geologist: Janine Sturdavant  
 Contact Phone Nbr: 303-907-2209 / 720-274-4682  
 Well Name: Nancy #5-17  
 Location: 789' FNL, 1538' FWL, Sec. 17-17S-13W  
 API: 15-009-26163-0000  
 Pool:  
 State: Kansas Field: Trapp  
 Country: USA

**LOGGED BY**



Company: Shelby Resources, LLC  
 Address: 621 17th St, Suite 1155  
 Denver, CO 80293  
 Phone Nbr: 203-671-6034  
 Logged By: Geologist Name: Jeremy Schwartz

**NOTES**

The Shelby Resources, LLC Nancy #5-17 was drilled to a total depth of 3540', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

Five DST's were conducted throughout the Lansing-Kansas City and Arbuckle zones. The DST Reports can be found at the bottom of this log.

Due to DST results, sample shows, gas kicks, and log analysis it was determined by all parties involved to further test the well through production casing. 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

**CONTRACTOR**

Contractor: Sterling Drilling Co

Rig #: 5  
 Rig Type: mud rotary  
 Spud Date: 2/10/2017  
 TD Date: 2/17/2017  
 Rig Release:

Time: 6:00 PM  
 Time: 10:30 AM  
 Time:



### ELEVATIONS

K.B. Elevation: 1972.00ft      Ground Elevation: 1961.00ft  
 K.B. to Ground: 11.00ft

DATE	DEPTH	ACTIVITY
Monday, February 13, 2017	3050'	Geologist Jeremy Schwartz on location @ 1245hrs, ~3050', drlg ahead through Heebner, Toronto, Douglas, Brown Lime, CFS @ 3208', drop survey
	3208'	Strap out, conduct bit trip, successful bit trip, resume drlg ahead through Lansing,
Tuesday, February 14, 2017	3276'	CFS @ 3276', conduct DST #1 in the Lansing "A-D", successful test, resume drlg
	3296'	through Lansing "G", CFS @ 3296', resume drlg
Wednesday, February 15, 2017	3431'	CFS @ 3431', conduct DST #2 in the Lansing "H-K", successful test, resume drlg,
	3450'	CFS @ 3443', resume drlg, CFS @ 3450', conduct DST #3 in the Arbuckle
Thursday, February 16, 2017	3456'	successful test, CFS @ 3456', conduct DST #4 in the Arbuckle, successful test
	3463'	resume drlg, CFS @ 3463', conduct DST #5 in the Arbuckle, succesful test,
Wednesday, February 17, 2016	3463'	resume drlg ahead to TD, TD of 3540' reached @ 1030hrs, CTCH 1hr, drop survey
	3540'	come out of the hole to conduct logging operations, logging operations
		complete @ 1700hrs, Geologist Jeremy Schwartz off location @ 1715hrs

FORMATION	SHELBY RESOURCES, LLC												ENERGY THREE, INC				SHELBY RESOURCES, LLC				
	NANCY #5-17						NANCY #1-17						CREST TRUST #1				NANCY #3-17				
	NW-SW-NE-NW 17-17S-13W						C-N/2-SW-NW 17-17S-13W						N/2-N/2-SE-NW 17-17S-13W				NE-SW-SE-NW 17-17S-13W				
	KB		1972		KB		1992		KB		1961		KB		1978						
LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.	
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	908	1064	909	1063	928	1064	1064	+ 0	- 1	898	1063	+ 1	+ 0	916	1062	+ 2	+ 1				
BASE	934	1038	937	1035	956	1036	+ 2	- 1		926	1035	+ 3	+ 0	944	1034	+ 4	+ 1				
TOPEKA	2906	-934	2906	-934	2920	-928	- 6	- 6		2895	-934	+ 0	+ 0	2912	-934	+ 0	+ 0				
KING HILL	2973	-1001	2972	-1000	2986	-994	- 7	- 6		2962	-1001	+ 0	+ 1	2978	-1000	- 1	+ 0				
QUEEN HILL	3037	-1065	3036	-1064	3050	-1058	- 7	- 6		3025	-1064	- 1	+ 0	3042	-1064	- 1	+ 0				
HEEBNER SHALE	3124	-1152	3120	-1148	3138	-1146	- 6	- 2		3113	-1152	+ 0	+ 4	3129	-1151	- 1	+ 3				
TORONTO	3142	-1170	3142	-1170	3156	-1164	- 6	- 6		3132	-1171	+ 1	+ 1	3144	-1166	- 4	- 4				
DOUGLAS SHALE	3151	-1179	3150	-1178	3166	-1174	- 5	- 4		3141	-1180	+ 1	+ 2	3157	-1179	+ 0	+ 1				
BROWN LIME	3205	-1233	3205	-1233	3218	-1226	- 7	- 7		3196	-1235	+ 2	+ 2	3212	-1234	+ 1	+ 1				
LKC	3214	-1242	3214	-1242	3228	-1236	- 6	- 6		3210	-1249	+ 7	+ 7	3219	-1241	- 1	- 1				
LKC G	3289	-1317	3290	-1318	3300	-1308	- 9	- 10		3277	-1316	- 1	- 2	3292	-1314	- 3	- 4				
MUNCIE CREEK	3340	-1368	3341	-1369	3354	-1362	- 6	- 7		3328	-1367	- 1	- 2	3344	-1366	- 2	- 3				
LKC H	3346	-1374	3348	-1376	3361	-1369	- 5	- 7		3336	-1375	+ 1	- 1	3349	-1371	- 3	- 5				
STARK SHALE	3402	-1430	3403	-1431	3413	-1421	- 9	- 10		3387	-1426	- 4	- 5	3402	-1424	- 6	- 7				
BKC	3424	-1452	3425	-1453	3438	-1446	- 6	- 7		3415	-1454	+ 2	+ 1	3429	-1451	- 1	- 2				
ARBUCKLE	3436	-1464	3441	-1469	3476	-1484	+ 20	+ 15		3443	-1482	+ 18	+ 13	3455	-1477	+ 13	+ 8				
RTD			3540	-1568	3539	-1547		- 21		3475	-1514		- 54	3525	-1547		- 21				
LTD	3540	-1568			3537	-1545	- 23			3474	-1513	- 55		3528	-1550	- 18					

### ROCK TYPES






 Congl	 Lmst fw<7 shale, gry	 Carbon Sh shale, red
 Dolprim		

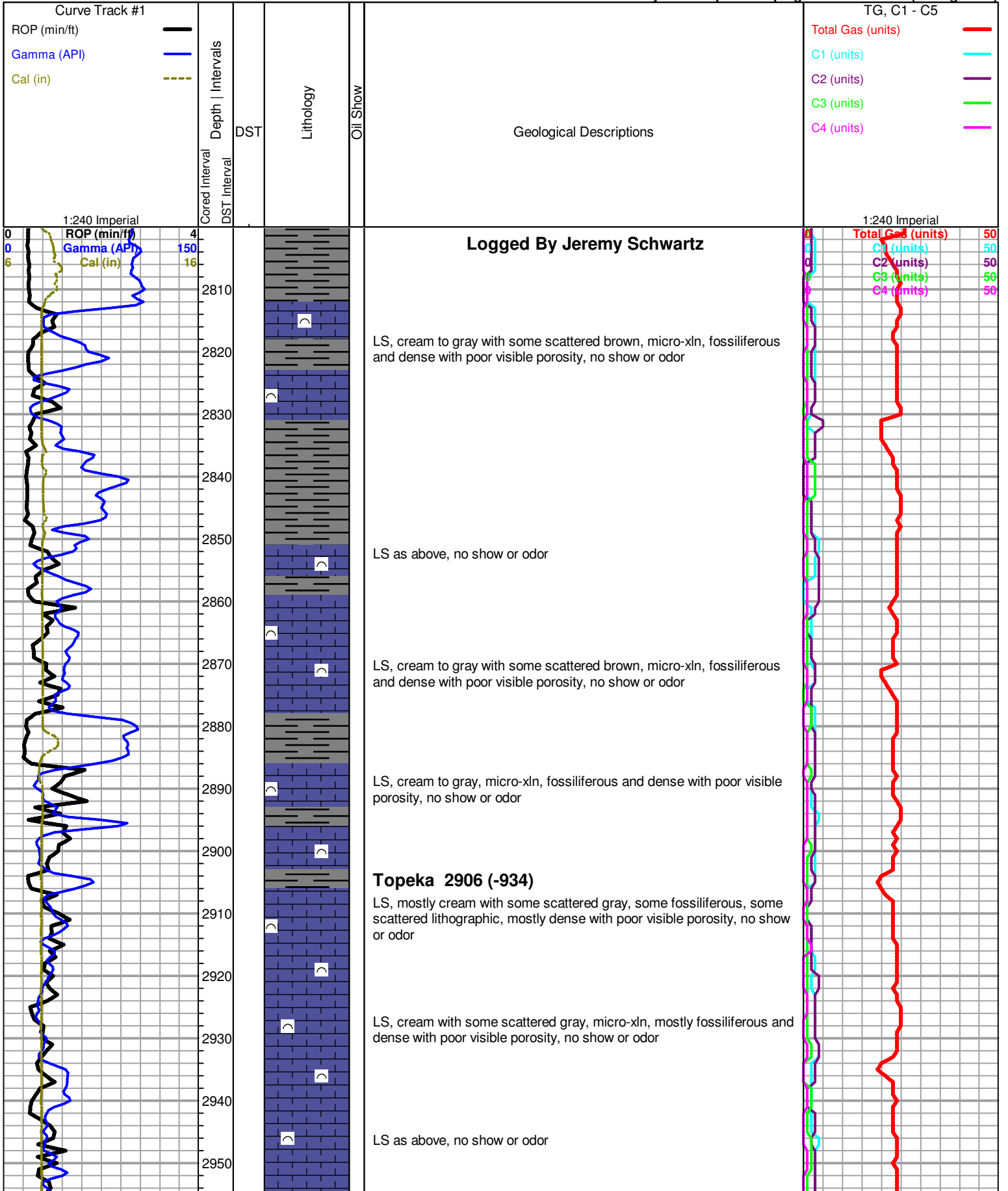
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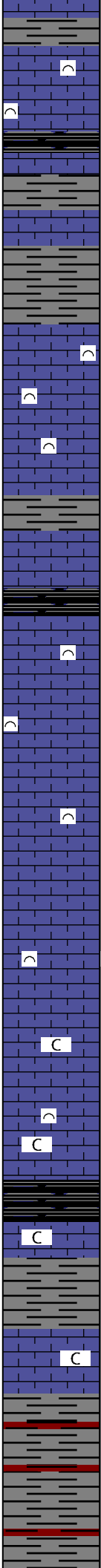
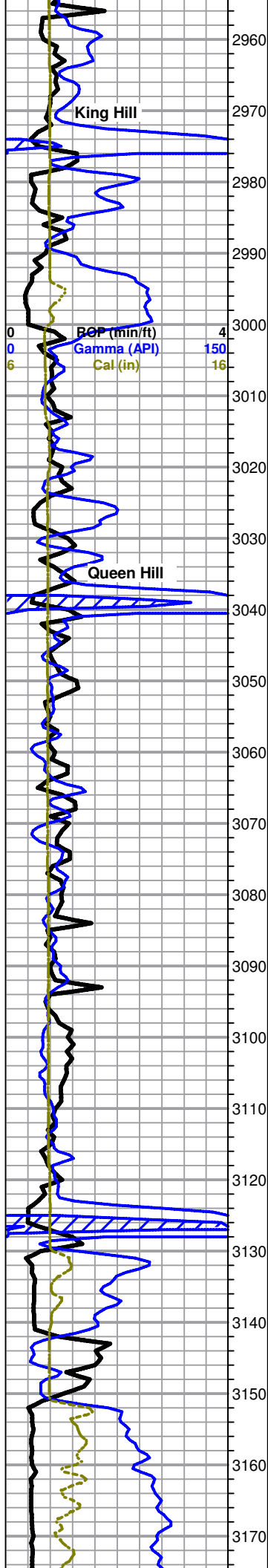
<b>MINERAL</b> △ Chert White P Pyrite	<b>FOSSIL</b> ∩ Bioclastic or Fragmental	<b>STRINGER</b> ~~~~ Chert ■ Limestone ••• Sandstone — Shale — red shale	<b>TEXTURE</b> C Chalky
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### OTHER SYMBOLS

<b>MISC</b> DR Daily Report Digital Photo Document Folder	<b>DST</b> ■ DST Int ■ DST alt
---	--------------------------------------

-  Link
-  Vertical Log File
-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt





LS, cream with some scattered gray, micro-xln, fossiliferous with some scattered lithographic, dense with poor visible porosity, no show or odor

LS, cream to gray with some very scattered brown, mostly micro-xln with some very scattered crypto-xln, fossiliferous to lithographic and dense with poor visible porosity, no show or odor

LS, cream with some scattered gray, micro-xln, fossiliferous to lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

LS, cream to light gray, micro-xln, fossiliferous and dense with poor visible porosity, with some very scattered cream, crypto-xln, lithographic and dense with poor visible porosity, no show or odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, few very small chips with re-crystalized edges and poor wet to tarry black stain on edges only, poor visible porosity, NSFO, no odor

LS, cream, micro-xln, mostly lithographic with some scattered fossiliferous, poor visible porosity, some scattered soft and chalky in part, fairly chalky sample, no show or odor

**Heebner 3120 (-1148)**

Shale, black carbonaceous

**Toronto 3142 (-1170)**

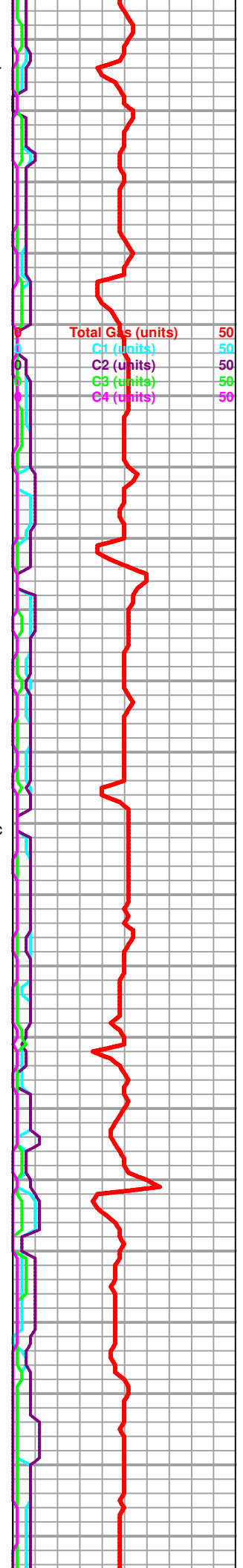
LS, cream with some scattered tan to white, micro-crypto xln, mostly lithographic and dense with poor visible porosity, slightly chalky, no show or odor

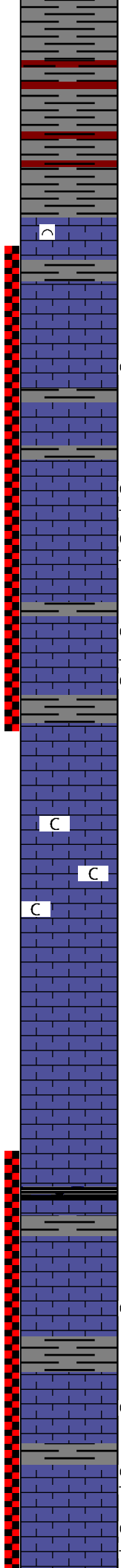
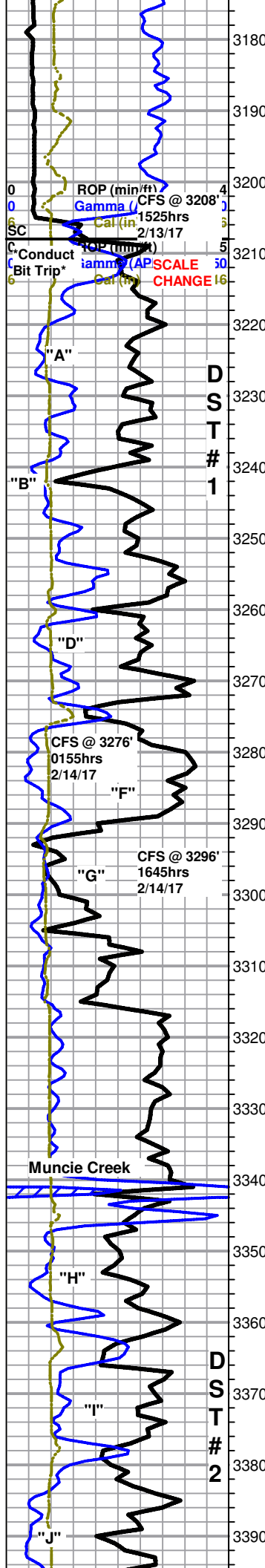
**Douglas Shale 3150 (-1178)**

Shale, mostly gray with some very scattered red, mostly soft and waxy

Shale as above

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50



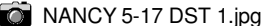


Shale as above, with slight influx red

**Brown Lime 3205 (-1233)**

LS, brown, micro-xln, fossiliferous and very dense with no visible porosity, no show or odor

**Lansing 3214 (-1242)**



LS, cream to gray with some scattered white, mostly lithographic and dense with poor visible porosity, some scattered slightly fossiliferous, no show or odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, few scattered chips (<5%) with some poor to fair pinpoint to very slightly vuggy edges with very scattered light golden brown stain around porosity only, upon break few chips with VSSFO, NSFO in tray, some scattered dull yellow fluor., fair fleeting odor in cup

LS, cream, micro-xln, mostly lithographic with poor visible porosity, with some scattered (~20%) fair oomoldic to slightly vuggy porosity with scattered to mostly saturated light golden brown stain in porosity and matrix, with fair show gas bubbles in porosity as well, upon break slight to good show free oil in some chips (very light brown droplets), chips show fair inter-xln porosity and darker stain in some scattered areas, scattered to even dull yellow fluor., in some chips, NSFO in tray, fair odor

LS as above with shows appearing to be slightly dropping out, NSFO in tray, poor odor

LS, cream, micro-xln, mostly lithographic with some very scattered slightly fossiliferous, with some scattered (~15%) with some scattered fair pinpoint porosity to few scattered small vugs with scattered light brown stain and slight to fair show gas bubbles mostly around porosity only, upon break or when agitated chips have fair to good show free oil, some scattered dull yellow fluor., good show free oil in tray, fair odor

3276' 30" LS, cream to gray, micro-xln, fossiliferous to lithographic, mostly poor visible porosity, few very scattered chips with slight inter-fossil porosity and poor stain, few with very slightly vuggy edges, upon break VSSFO in few chips, NSFO in tray, poor odor

3276' 60" Mostly same as above, NSFO in tray, poor odor

LS, cream, crypto-micro xln, lithographic and dense with poor visible porosity, no show or odor

3296' 30" LS, cream, crypto-micro xln, mostly lithographic and dense with poor visible porosity, with some very scattered sub-oolitic to sub-oomoldic and few chips oomoldic, barren with poor visible oomold porosity, fairly chalky, no show or odor

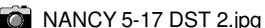
3296' 60" LS, cream, micro-xln, mostly sub-oomoldic to oomoldic with some scattered sub-oolitic, barren with poor visible oomold porosity, chalky, no show or odor

LS, cream, micro-xln, oomoldic to sub-oomoldic with some scattered sub-oolitic, barren with poor visible oomold porosity, no show or odor

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, with some scattered sub-oomoldic, barren with poor visible oomold porosity, no show or odor

LS, gray to cream, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor



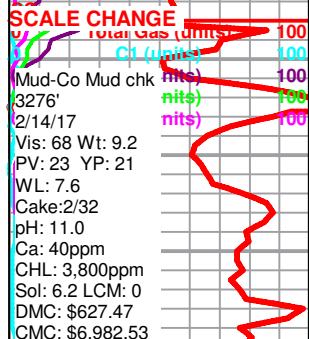
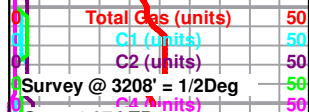
LS, cream to gray with some very scattered brown, micro-xln, lithographic and dense with poor visible porosity, no show or odor

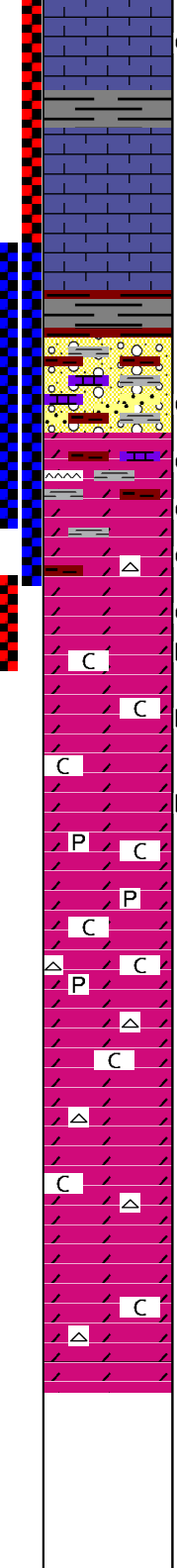
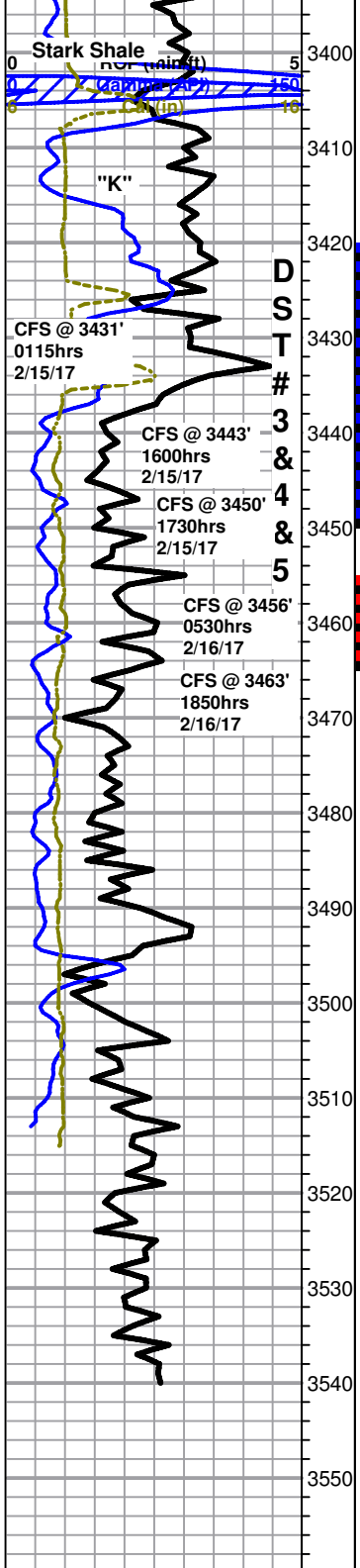
LS, cream to gray, micro-xln, lithographic and dense, with few chips oomoldic with fair visible oomold porosity, most barren, upon break 2 chips show very scattered stain in 3464' 60" Mostly same as above, with some very scattered stain on few chips, one chip with some scattered heavy, tarry free oil, upon break SSFO, also with some scattered gilsonitic stain on some chips, NSFO in tray, no odor

LS, mostly cream with some scattered gray, micro-xln, lithographic with poor visible porosity, with few very scattered chips with several very small edge vugs and poor very scattered stain in porosity only, upon break VSSFO and poor visible inter-xln porosity with some very scattered dull yellow fluor., NSFO in tray, no odor

LS, cream to gray with some scattered white, micro-xln, lithographic and dense with poor visible porosity, barren, with some very scattered chips white to cream, micro-xln, with few scattered fairly large vugs mostly around edges, no visible stain, upon break NSFO or visible inter-xln stain on most, few chips with trace very light golden stain that increase in color and saturation under lamp for several minutes, chips with dull fluor., and very weak slow cut with lighter fluid with milky white fluor., fair show gas bubbles in wet tray, NSFO, poor odor

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, barren, with few very scattered chips with one to two small vugs and show of gas bubbles as above,





NSFO in tray, no flour., no odor

LS, cream to gray with some very scattered white, micro-xln, lithographic and dense with poor visible porosity, barren, with few very scattered small chips with few small vugs to slightly vuggy edge porosity with brown stain in porosity only, some too dense to break, few with fair show free oil upon break and slight to fair show gas bubbles in porosity as well, NSFO in tray, no flour., or odor

LS, mostly cream with some very scattered light gray and white, micro-xln, lithographic and dense with poor visible porosity, no show, flour., or odor

3431' 30" LS, cream to gray with some very scattered white, micro-xln, lithographic and dense with poor visible porosity, no show or odor

**BKC 3425 (-1453)**

3431' 60" LS as above, with slight influx gray and red shale, no show or odor

3443' 30" Gray and red shale, with scattered cream to gray LS and some very scattered tan to orange and opaque cherts, no show or odor

**Arbuckle 3441 (-1469)**

NANCY 5-17 DST 3.jpg  
 NANCY 5-17 DST 4.jpg  
 NANCY 5-17 DST 5.jpg

3443' 60" Conglomerate as above, with some very scattered SS, vf-grained, sub-angular to sub-rounded and fairly well sorted, with scattered stain that increases to saturated under lamp, fairly friable, upon break fair show free oil, few clusters slowly bleed oil to surface under lamp, found few small chips dolomite, brown, sucrosic to some scattered sub-rhombic to rhombic development with few small vugs, saturated stain, fair show free oil upon break, SSFO in tray, fair odor

3450' 60" Mixed LS, shales, and cherts, with slight influx dolomite, cream to off-white, micro-xln, sucrosic to sub-sucrosic, some dense, some fairly friable with scattered stain to free oil droplets in matrix, upon break chips show scattered inter-xln stain and fair inter-xln porosity with fair to good show free oil, most chips increase to saturated stain when left under lamp, with few very scattered chips sub-rhombic to rhombic with few scattered small vugs and fair inter-xln porosity with saturated stain, SSFO in tray, fair pungent odor

3456' 60" Dolomite, cream with some very scattered white, micro-xln, mostly sub-sucrosic and dense, barren, with some scattered sucrosic, fairly friable with very scattered to scattered stain, upon break most have slight to fair show free oil, with some very scattered sub-rhombic with scattered fair visible porosity and mostly very scattered stain, some slightly to fairly chalky, also with fairly abundant gray and red shale with some scattered white chert, SSFO in tray, poor odor

3463' 30" Dolomite, cream to off-white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, barren, few very scattered chips sub-rhombic and fairly friable with mostly poor visible porosity, some slightly to fairly chalky, no show or odor

~3470" Dolomite, mostly cream with some scattered off-white to light brown, micro-xln, mostly dense and barren with poor visible porosity, some with very scattered gilsonitic stain, with some scattered sub-rhombic, some fairly friable, few chips with several small vugs and scattered gilsonitic stain, slightly chalky, no show or odor

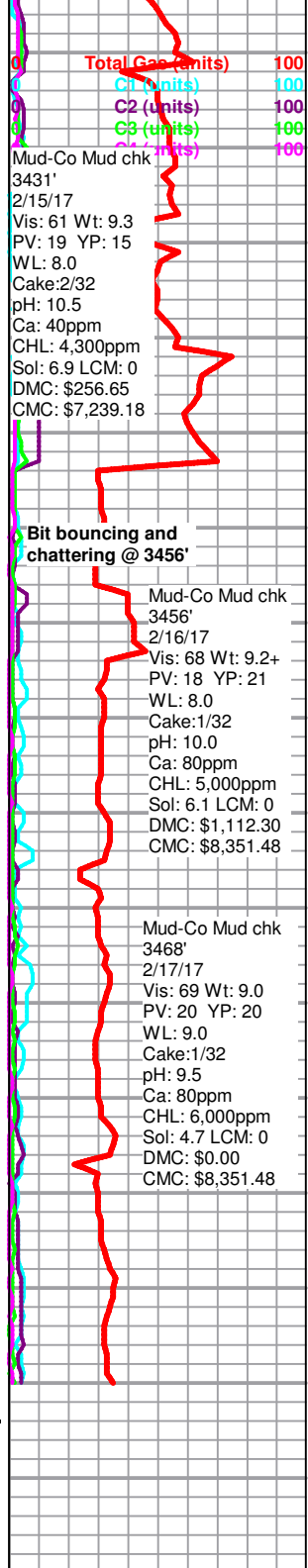
~3480" Dolomite as above, with influx sub-rhombic, most fairly friable, some with scattered pyrite inclusions, some very scattered gilsonitic stain, most completely barren, slightly chalky, no show or odor

~3490" Dolomite, cream to light brown and some scattered white, micro-xln, mostly sub-rhombic with some scattered rhombic and some sucrosic to sub-sucrosic, some with fair visible porosity, barren, fairly chalky, few chips with some scattered pyrite inclusions, with some scattered white chert, no show or odor

~3500-3520 Dolomite as above, no show or odor

LS, cream to light brown, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, with some very scattered sub-rhombic with mostly poor visible porosity, with some very scattered white chert, few chips oolitic, slightly chalky, no show or odor

Dolomite, mostly cream with some scattered light brown, sub-rhombic to sub-sucrosic with some very scattered rhombic development on few chips, some sub-rhombic with fair visible porosity, barren, most sub-sucrosic is dense with poor visible porosity, with some scattered white chert, trace oolitic, less chalky, no show or odor



**Rotary TD 3540' @ 1030hrs 2/17/17**  
**Eli Wireline Services Logging TD @ 3540'**  
**Complete Logging Operations @ 1700hrs 2/17/17**  
**Geologist Jeremy Schwartz off location @ 1715hrs 2/17/17**





# DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 12

DST#: 1

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.14 @ 05:10:00

## GENERAL INFORMATION:

Formation: **LANSING A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:00

Time Test Ended: 12:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1-36

Interval: **3209.00 ft (KB) To 3276.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3276.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

## Serial #: 9139

## Inside

Press@RunDepth: 405.57 psia @ 3271.34 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.14 End Date: 2017.02.14

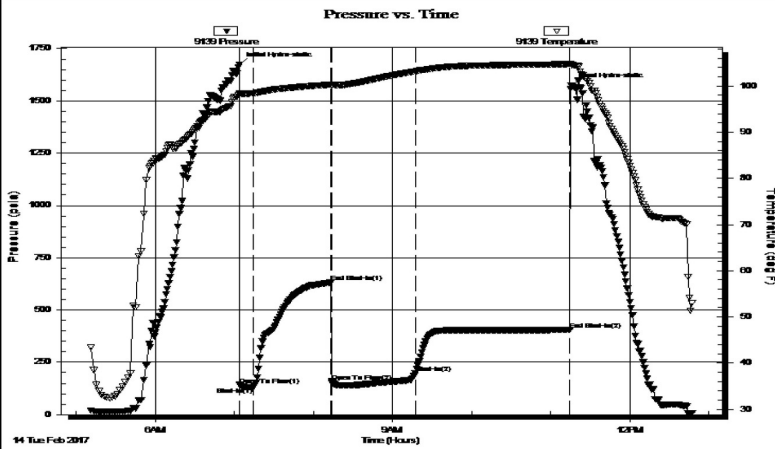
Last Calib.: 2017.02.14

Start Time: 05:10:00 End Time: 12:47:30

Time On Btm: 2017.02.14 @ 07:03:30

Time Off Btm: 2017.02.14 @ 11:15:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BUILDING BLOW BUILT TO 6 INCHES INTO THE WATER  
 1ST SHUT-IN 60 MINUTES NO BLOW BACK  
 2ND OPENING 60 MINUTES WEAK BLOW BUILT TO BOTTOM OF A 5 GALLON BUCKET IN 28 MINUTES  
 2ND SHUT-IN 90 MINUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1674.56	98.47	Initial Hydro-static
1	141.76	98.22	Open To Flow (1)
11	130.35	98.45	Shut-In(1)
70	631.67	100.33	End Shut-In(1)
70	158.57	100.16	Open To Flow (2)
134	198.63	103.22	Shut-In(2)
251	405.57	104.78	End Shut-In(2)
252	1573.98	104.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUDDY FROTHY OIL	0.15
60.00	SLIGHTY OIL CUT MUD	0.30
0.00	5 GAS 15 OIL 10 WATER 70 MUD	0.00
60.00	VERY SLIGHTLY OIL CUT MUD	0.30
0.00	5 OIL 95 MUD	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01148

DST#: 2

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.15 @ 03:57:00

## GENERAL INFORMATION:

Formation: **LANSING H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:00

Time Test Ended: 11:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3336.00 ft (KB) To 3431.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

## Serial #: 9139

### Inside

Press@RunDepth: 757.58 psia @ 3425.94 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.15

End Date: 2017.02.15

Last Calib.: 1899.12.30

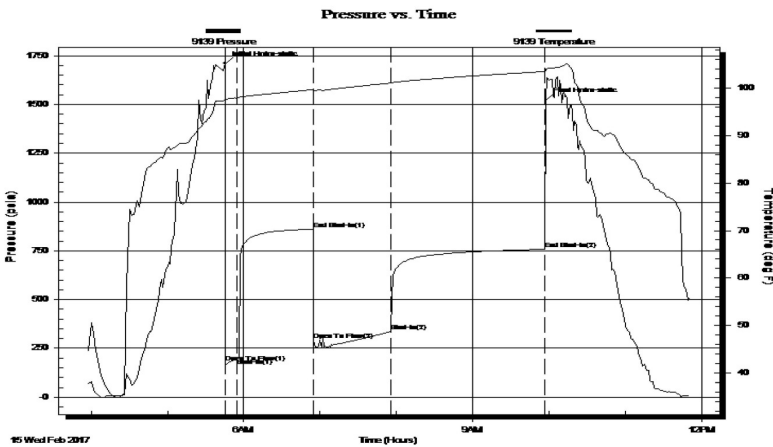
Start Time: 03:57:00

End Time: 11:50:30

Time On Btm: 2017.02.15 @ 05:45:00

Time Off Btm: 2017.02.15 @ 09:57:30

TEST COMMENT: 1ST OPENING 10 MINUTES WEAK BLOW BUILT TO 9 1/2 INCHES INTO THE WATER  
1ST SHUT-IN 60 MINUTES NO BLOW BACK  
2ND OPENING 60 MINUTES WEAK BLOW BUILT TO THE BOTTOM OF THE BUCKET IN 19 MINUTES  
2ND SHUT-IN 120 MINUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1709.06	97.62	Initial Hydro-static
1	176.31	97.25	Open To Flow (1)
10	197.93	97.93	Shut-In(1)
70	861.03	99.73	End Shut-In(1)
70	292.55	99.40	Open To Flow (2)
131	335.48	101.08	Shut-In(2)
251	757.58	103.51	End Shut-In(2)
253	1523.82	104.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	MUD	0.74
300.00	MUDDY WATER	3.66
0.00	CHLORIDES 57,000	0.00

## Gas Rates

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

# DRILL STEM TEST REPORT



SHELBY RESOURCES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01149

DST#: 3

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

**GENERAL INFORMATION:**

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:14:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3420.00 ft (KB) To 3450.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 9139**

**Inside**

Press@RunDepth: 1105.52 psia @ 3445.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.15

End Date: 2017.02.16

Last Calib.: 2017.02.16

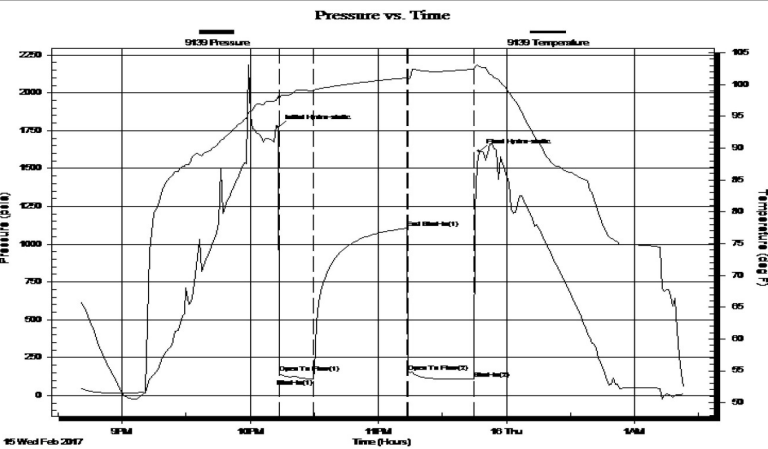
Start Time: 20:40:00

End Time: 01:23:30

Time On Btm: 2017.02.15 @ 22:13:00

Time Off Btm: 2017.02.15 @ 23:47:00

TEST COMMENT: 1ST OPENING 15 MINUTES VERY WEAK SURFACE BLOW FOR 11 MINUTES AND DIED  
 1ST SHUT-IN 45 MINUTES NO BLOW BACK  
 2ND OPENING 30 MINUTES VERY WEAK SURFACE BLOW FOR 30 MINUTES AND PULLED THE TOOL  
 2ND SHUT-IN 0 NONE TAKEN



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1772.75	98.26	Initial Hydro-static
1	148.73	97.71	Open To Flow (1)
17	107.01	99.07	Shut-In(1)
61	1105.52	101.06	End Shut-In(1)
61	155.92	100.76	Open To Flow (2)
92	108.92	102.46	Shut-In(2)
94	1613.87	102.80	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	CLEAN OIL	0.02
55.00	OIL CUT MUD 45 OILK 55 MUD	0.27

**Gas Rates**

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

# DRILL STEM TEST REPORT



SHELBY RESOURCES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01150

DST#: 4

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.16 @ 08:40:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:46:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3420.00 ft (KB) To 3456.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

## Serial #: 9139

### Inside

Press@RunDepth: 1032.54 psia @ 3451.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.16

End Date: 2017.02.16

Last Calib.: 2017.02.16

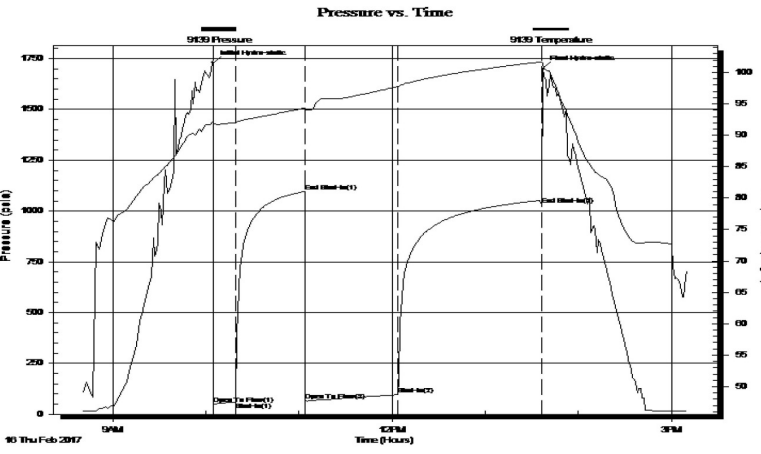
Start Time: 08:40:00

End Time: 15:10:30

Time On Btm: 2017.02.16 @ 10:04:30

Time Off Btm: 2017.02.16 @ 13:37:00

TEST COMMENT: 1ST OPENING 15 MINUTES WEAK BLOW BUILT TO 2 INCHES INTO THE WATER  
 1ST SHUT-IN 45 MINUTES NO BLOW BACK  
 2ND OPENING 60 MINUTES WEAK BLOW BUILT TO 5 1/2 INCHES INTO THE WATER  
 2ND SHUT-IN 90 MINUTES NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1730.76	92.24	Initial Hydro-static
1	52.27	91.82	Open To Flow (1)
15	60.60	92.03	Shut-In(1)
59	1095.77	94.34	End Shut-In(1)
60	66.27	93.96	Open To Flow (2)
119	96.60	97.74	Shut-In(2)
212	1032.54	101.68	End Shut-In(2)
213	1703.12	101.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	clean oil	0.07
35.00	oil cut mud 10 oil 90 mud	0.17
60.00	oil cut mud 5 oil 95 mud	0.30

## Gas Rates

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

DRILL STEM TEST REPORT



SHELBY RESOURCES LLC

17-17S-13W

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

NANCY 5-17

Job Ticket: 01151

DST#: 5

ATTN: JEREMY SCHWARTZ

Test Start: 2017.02.17 @ 21:55:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:29:00

Time Test Ended: 04:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3455.00 ft (KB) To 3463.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3463.00 ft (KB) (TVD)

1961.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139

Inside

Press@RunDepth: 1144.23 psia @ 3458.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.02.16

End Date: 2017.02.17

Last Calib.: 2017.02.17

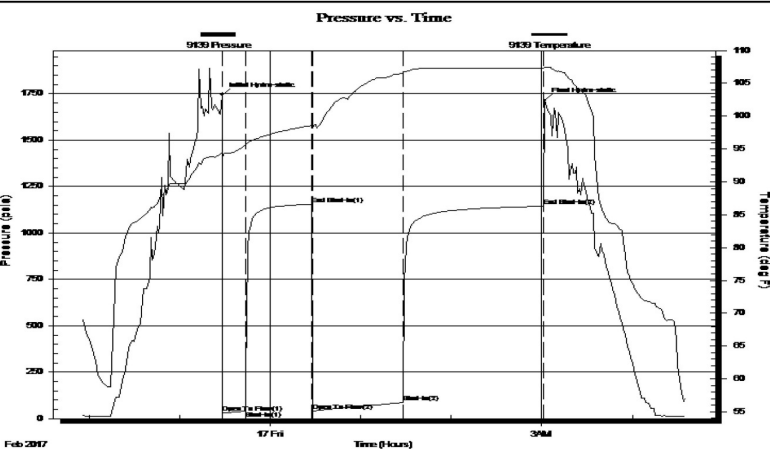
Start Time: 21:55:00

End Time: 04:35:00

Time On Btm: 2017.02.16 @ 23:28:00

Time Off Btm: 2017.02.17 @ 03:02:00

TEST COMMENT: 1ST OPENING 15 MINUTES WEAK BUILDING BLOW BUILT TO 1 1/2 INCHES INTO THE WATER  
1ST SHUT-IN 45 MINUTES  
2ND OPENING 60 MINUTES WEAK BUILDING BLOW BUILT TO 5 1/2 INCHES INTO THE WATER  
2ND SHUT-IN 90 MINUTES



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1742.91	94.37	Initial Hydro-static
1	30.60	93.53	Open To Flow (1)
16	40.61	95.52	Shut-In(1)
60	1154.47	98.58	End Shut-In(1)
60	42.72	98.17	Open To Flow (2)
120	87.11	106.58	Shut-In(2)
213	1144.23	107.34	End Shut-In(2)
214	1713.31	107.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER WITH A TRACE OF OIL	0.59
0.00	LESS THAN 1 PERCENT OIL	0.00

Gas Rates

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

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>Shelby Resources</i>	Lease No.	Date <i>2/18/2017</i>	
Lease <i>NSncy</i>	Well # <i>5-17</i>		
Field Order # <i>14749</i>	Station <i>Pratt, KS</i>	Casing <i>5 1/2</i>	Depth <i>3521</i>
		County <i>Barton</i>	State <i>KS</i>
Type Job <i>2421 5 1/2 Longstring</i>	Formation <i>D-3540</i>		Legal Description <i>17-17s-13w</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>3 1/2</i>				Pre Pad	Max		5 Min.
Depth <i>3521</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>837</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush <i>Freshwater</i>	Gas Volume		Total Load
Plug Depth <i>20</i>	Packer Depth	From	To				

Customer Representative <i>Chris Gottschalk</i>	Station Manager <i>David Scott</i>	Treater <i>Darin Franklin</i>
Service Units <i>92911 84981 19843 19960 73768</i>		
Driver Names <i>Darin McGuire McGuire McGraw McGraw</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>9:00pm</i>					<i>On location / Safety meeting</i>
					<i>3 1/2 Casing set 9'</i>
					<i>T-2,4,6,8,9,11 B-Shoe</i>
					<i>100SK PA2 Cement, 5% Gyp, 10%</i>
					<i>SGI+, .5% fluid loss, .25pps Cellofibre</i>
					<i>5pps silsonite, .25pps defosmer</i>
					<i>15.3 ppg, 1.36 veild, 5.54 wsg</i>
					<i>100SK 60/40 PO2, 2% Gel</i>
					<i>14.4 ppg, 1.27 veild, 5.23 wsg</i>
					<i>Diagn on bottom &amp; break circulation</i>
<i>5:45am</i>	<i>400</i>		<i>16</i>	<i>5</i>	<i>mix 50SK SCSUenser 60/40 PO2</i>
	<i>400</i>		<i>24</i>	<i>5</i>	<i>mix 100SK PA2</i>
					<i>Shut down</i>
					<i>Wash pump &amp; ms &amp; Release Plug</i>
	<i>200</i>		<i>0</i>	<i>6</i>	<i>Start displacement</i>
	<i>600</i>		<i>38</i>	<i>6</i>	<i>L.P. Pressure</i>
	<i>1,000</i>		<i>73</i>	<i>3</i>	<i>Slow Rate</i>
<i>6:15pm</i>	<i>1,500</i>		<i>83</i>	<i>3</i>	<i>Bump Plug</i>
					<i>Flow - Shut in 500 PSI</i>
	<i>50</i>		<i>7</i>	<i>3</i>	<i>Plug 29' hole - 30SK 60/40</i>
	<i>50</i>		<i>5</i>	<i>3</i>	<i>Plug mouse hole - 20SK 60/40</i>
<i>6:45am</i>					<i>Job Complete / Degrin &amp; crew</i>

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



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

Pat Apple, Chairman  
Shari Feist Albrecht, Commissioner  
Jay Scott Emler, Commissioner

Sam Brownback, Governor

June 23, 2017

Chris Gottschalk  
Shelby Resources LLC  
13949 W COLFAX AVE BLDG 1 STE 120  
LAKEWOOD, CO 80401-3248

Re: ACO-1  
API 15-009-26163-00-00  
NANCY 5-17  
NW/4 Sec.17-17S-13W  
Barton County, Kansas

Dear Chris Gottschalk:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 02/11/2017 and the ACO-1 was received on June 23, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department