



## 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



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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

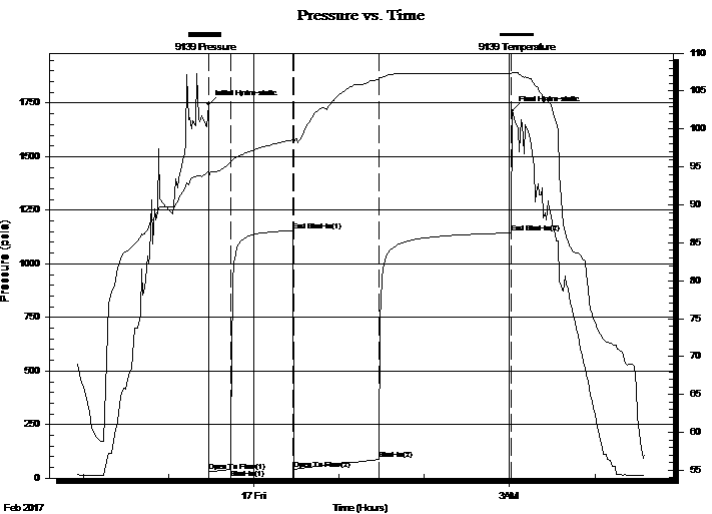
Time On Btm:

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)



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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

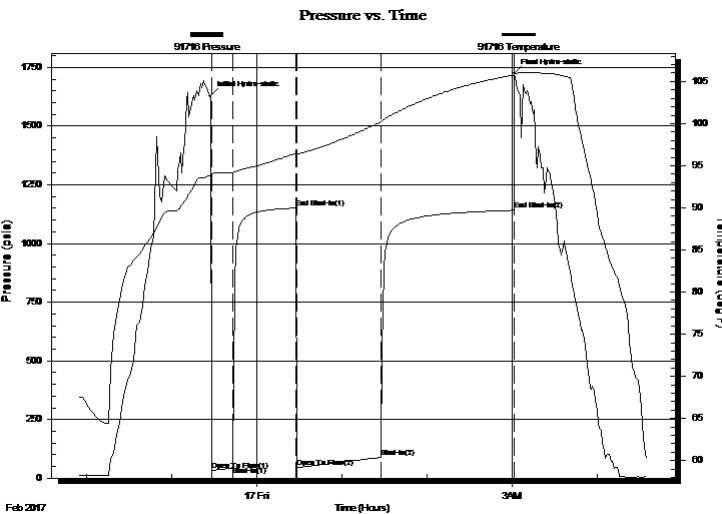
Start Time: 21:55:00

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

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NANCY 5-17

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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
			Total Volume: 46.63 bbl	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

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

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NANCY 5-17

Job Ticket: 01151

DST#: 5

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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: deg API  
Water Salinity: 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

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

