



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



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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

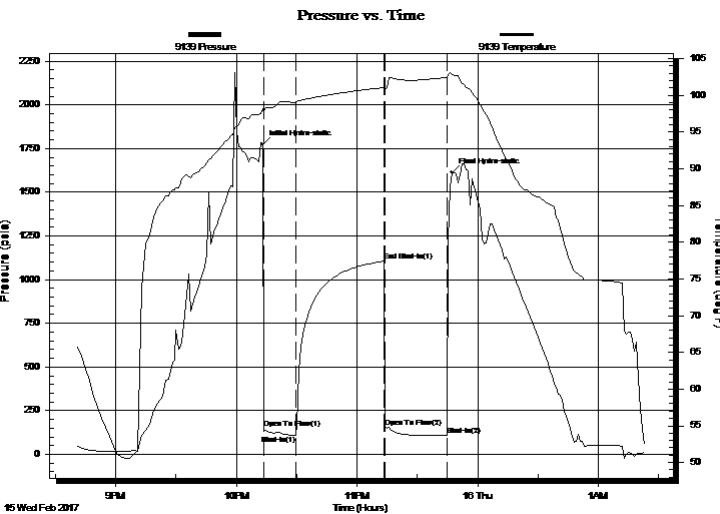
Start Time: 20:40:00

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)



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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

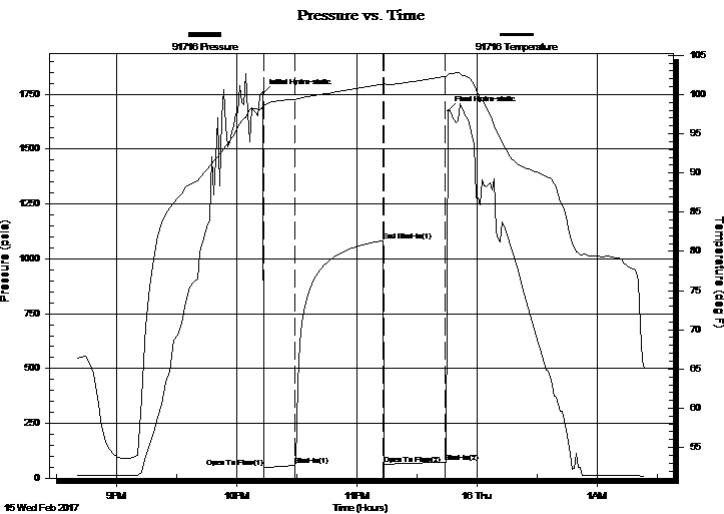
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2ND SHUT-IN 0 NONE TAKEN



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)



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TOOL DIAGRAM

SHELBY RESOURICES LLC

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HAYS, KANSAS 67601

NANCY 5-17

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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
			Total Volume: 45.72 bbl	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	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
Total Tool Length:	59.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 8.00 in³

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

