



DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

2717 CANAL BLVD SUITE C
HAYS, KANSAS 67601

ATTN: KEITH REAVIS

STOSS 1-24

24-18s-14w BARTON

Start Date: 2016.09.11 @ 13:10:00

End Date: 2016.09.11 @ 00:00:00

Job Ticket #: 01128 DST #: 2

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

Printed: 2016.09.11 @ 21:38:25



DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES LLC

24-18s-14w BARTON

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Test Start: 2016.09.11 @ 13:10:00

Tool Information

Drill Pipe:	Length: 3090.00 ft	Diameter: 3.80 inches	Volume: 43.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 43.78 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3184.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.32 ft			
Tool Length:	87.32 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			3160.00	
Hydraulic tool	5.00			3165.00	
Jars	7.00			3172.00	
Safety Joint	2.00		Fluid	3174.00	
Top Packer	5.00			3179.00	
Packer	5.00			3184.00	29.00 Bottom Of Top Packer
Anchor	3.00			3187.00	
Change Over Sub	0.75			3187.75	
Drill Pipe	31.82			3219.57	
Change Over Sub	0.75			3220.32	
Anchor	17.00			3237.32	
Recorder	0.00	9119	Inside	3237.32	
Recorder	0.00	9139	Outside	3237.32	
Bullnose	5.00			3242.32	58.32 Anchor Tool

Total Tool Length: 87.32



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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: 59.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 5300.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 37 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1800.00	CLEAN GASSY OIL 40 GAS 60 OIL	24.429
0.00	GRAVITY 37 CORRECTED	0.000

Total Length: 1800.00 ft Total Volume: 24.429 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



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GAS RATES

SHELBY RESOURCES LLC

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Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.13	49.17	18.40
2	20	0.13	2.90	1.08
2	30	0.13	4.90	1.83
2	40	0.13	4.03	1.51
2	50	0.13	2.45	0.92

Pressure vs. Time



