



## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

621 17th STREET SUITE 1155  
DENVER, COLORADO 80293

ATTN: JERMEU SCHWARTZ

**ELSIE UNIT 1-3**

**3-22S-16W PAWNEE**

Start Date: 2015.11.11 @ 01:25:00

End Date: 2015.11.11 @ 06:25:00

Job Ticket #: 01250                      DST #: 1

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

Printed: 2015.11.11 @ 06:39:28

SHELBY RESOURCES LLC

3-22S-16W PAWNEE

ELSIE UNIT 1-3

DST # 1

CONGLOMERATE

2015.11.11



# DRILL STEM TEST REPORT

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3-22S-16W PAWNEE

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DENVER, COLORADO 80293

ELSIE UNIT 1-3

Job Ticket: 01250

DST#: 1

ATTN: JERMEU SCHWARTZ

Test Start: 2015.11.11 @ 01:25:00

## GENERAL INFORMATION:

Formation: **CONGLOMERATE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:17:00

Time Test Ended: 06:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3826.00 ft (KB) To 3881.00 ft (KB) (TVD)**

Reference Elevations: 2000.00 ft (KB)

Total Depth: 3881.00 ft (KB) (TVD)

1989.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9119

Inside

Press@RunDepth: 95.19 psia @ 3875.78 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.11.11

End Date: 2015.11.11

Last Calib.: 2015.11.11

Start Time: 01:25:00

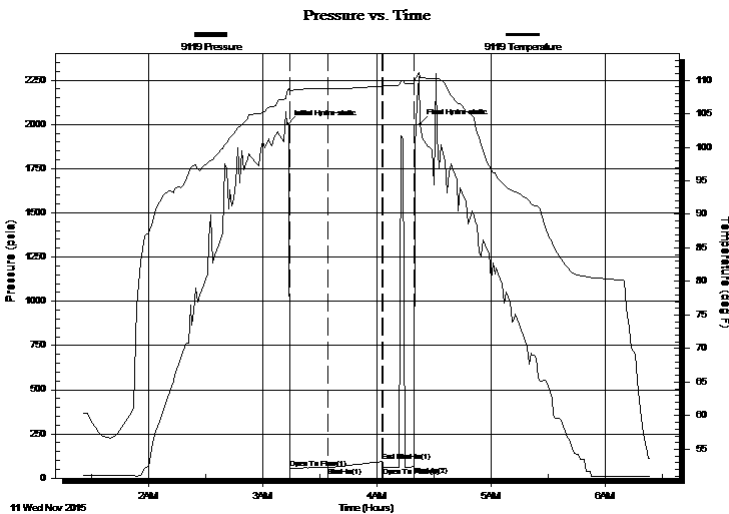
End Time: 06:24:30

Time On Btm: 2015.11.11 @ 03:13:30

Time Off Btm: 2015.11.11 @ 04:23:00

TEST COMMENT: 1ST OPENING 15 MINUTES-WEAK SURFACE BLOW FOR 6 MINUTES AND DIED  
1ST SHUT-IN 30 MINUTES-NO BLOW BACK  
2ND OPENING 20 MINUTES-NO BLOW -FLUSHED TOOL-GOOD SURGE -NO HELP  
2ND SHUT-IN NONE TAKEN

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2001.61	108.64	Initial Hydro-static
1	55.86	108.37	Open To Flow (1)
21	59.65	108.72	Shut-In(1)
50	95.19	109.11	End Shut-In(1)
50	59.08	109.10	Open To Flow (2)
66	64.21	109.49	Shut-In(2)
70	2002.59	110.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	drilling mud	0.21

## Gas Rates

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



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ELSIE UNIT 1-3

Job Ticket: 01250

DST#: 1

ATTN: JERMEU SCHWARTZ

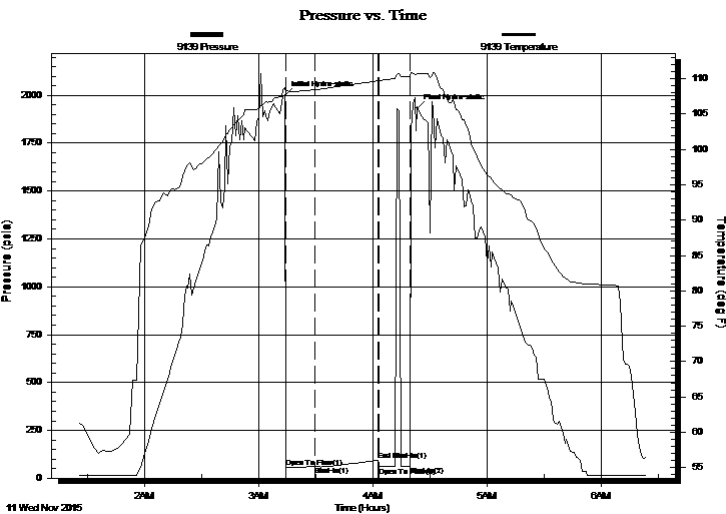
Test Start: 2015.11.11 @ 01:25:00

## GENERAL INFORMATION:

Formation: **CONGLOMERATE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:17:00  
 Time Test Ended: 06:25:00  
 Interval: **3826.00 ft (KB) To 3881.00 ft (KB) (TVD)**  
 Total Depth: 3881.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: GENE BUDIG  
 Unit No: 1  
 Reference Elevations: 2000.00 ft (KB)  
 1989.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 9139 Outside**  
 Press@RunDepth: 93.77 psia @ 3875.78 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2015.11.11 End Date: 2015.11.11 Last Calib.: 2015.11.11  
 Start Time: 01:25:00 End Time: 06:24:30 Time On Btm: 2015.11.11 @ 03:14:00  
 Time Off Btm: 2015.11.11 @ 04:23:30

**TEST COMMENT:** 1ST OPENING 15 MINUTES-WEAK SURFACE BLOW FOR 6 MINUTES AND DIED  
 1ST SHUT-IN 30 MINUTES-NO BLOW BACK  
 2ND OPENING 20 MINUTES-NO BLOW -FLUSHED TOOL-GOOD SURGE -NO HELP  
 2ND SHUT-IN NONE TAKEN



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1997.62	108.71	Initial Hydro-static
1	57.83	108.23	Open To Flow (1)
16	59.44	108.44	Shut-In(1)
50	93.77	109.71	End Shut-In(1)
50	58.81	109.72	Open To Flow (2)
66	64.35	110.32	Shut-In(2)
70	1932.22	110.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	drilling mud	0.21

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES LLC

3-22S-16W PAWNEE

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ELSIE UNIT 1-3

Job Ticket: 01250

DST#: 1

ATTN: JERMEU SCHWARTZ

Test Start: 2015.11.11 @ 01:25:00

## Tool Information

Drill Pipe:	Length: 3812.00 ft	Diameter: 3.80 inches	Volume: 53.47 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 53.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3826.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.78 ft			
Tool Length:	83.78 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			3802.00	
Hydraulic tool	5.00			3807.00	
Jars	7.00			3814.00	
Safety Joint	2.00		Fluid	3816.00	
Top Packer	5.00			3821.00	
Packer	5.00			3826.00	29.00 Bottom Of Top Packer
Anchor	5.00			3831.00	
Change Over Sub	0.75			3831.75	
Drill Pipe	31.28			3863.03	
Change Over Sub	0.75			3863.78	
Anchor	12.00			3875.78	
Recorder	0.00	9119	Inside	3875.78	
Recorder	0.00	9139	Outside	3875.78	
Bullnose	5.00			3880.78	54.78 Anchor Tool

**Total Tool Length: 83.78**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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ELSIE UNIT 1-3

Job Ticket: 01250

DST#: 1

ATTN: JERMEU SCHWARTZ

Test Start: 2015.11.11 @ 01:25:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 57.00 sec/qt  
Water Loss: 8.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4800.00 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	drilling mud	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

