



## DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

2717 CANAL BLVD SUITE C  
HAYS , KANSAS 67601

ATTN: JEFREMY SCHWARTZ

**McCURRY 1-24**

**24-18S-14W BARTON**

Start Date: 2015.08.02 @ 10:42:00

End Date: 2015.08.02 @ 00:00:00

Job Ticket #: 01228                      DST #: 4

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

Printed: 2015.08.02 @ 19:42:42



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Job Ticket: 01228

DST#: 4

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.08.02 @ 10:42:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3370.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **9139** Outside

Press@RunDepth: 850.13 psia @ 3410.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.08.02

End Date:

2015.08.02

Last Calib.:

2015.08.02

Start Time: 10:43:00

End Time:

17:36:00

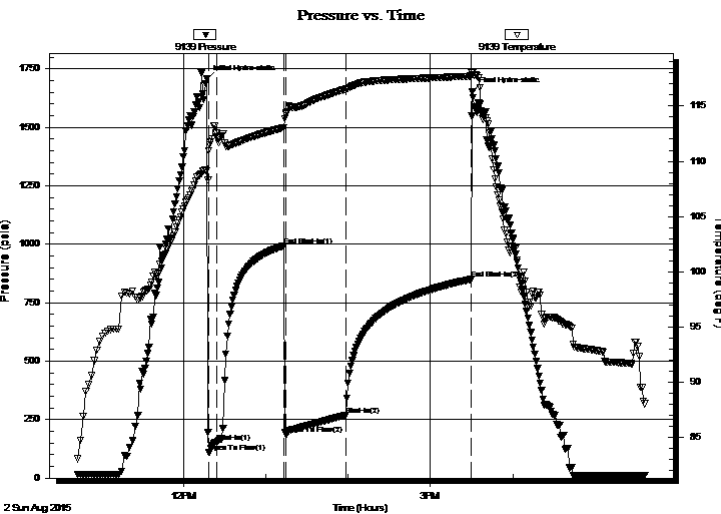
Time On Btm:

2015.08.02 @ 12:17:00

Time Off Btm:

2015.08.02 @ 15:30:30

TEST COMMENT: 1ST OPENING 10 MINUTES GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 3 1/2 MIN.  
1ST SHUT-IN 45 MINUTES-NO BLOW BACK  
2ND OPENING 45 MINUTES-GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 5 MINUTES  
2ND SHUT-IN 90 MINUTES- NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1705.80	109.12	Initial Hydro-static
2	109.85	110.97	Open To Flow (1)
8	152.55	112.20	Shut-In(1)
56	993.02	113.04	End Shut-In(1)
58	187.41	114.29	Open To Flow (2)
102	269.55	116.53	Shut-In(2)
193	850.13	117.70	End Shut-In(2)
194	1654.20	117.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SLIGHTLY MUD CUT OIL	0.30
0.00	10 GAS 80 OIL 5 MUD 5 w ater	0.00
120.00	CLEAN GASSY OIL 10 GAS 90 OIL	0.59
120.00	SLIGHTLY MUD CUT GASSY OIL	1.35
0.00	10 GAS 70 OIL 20 MUD	0.00
180.00	MUD CUT GASSY OIL	2.52

## Gas Rates

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



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Unit No: 1

Interval: **3370.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9119

Inside

Press@RunDepth: 850.90 psia @ 3410.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.08.02

End Date:

2015.08.02

Last Calib.:

2015.08.02

Start Time: 10:43:00

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17:36:00

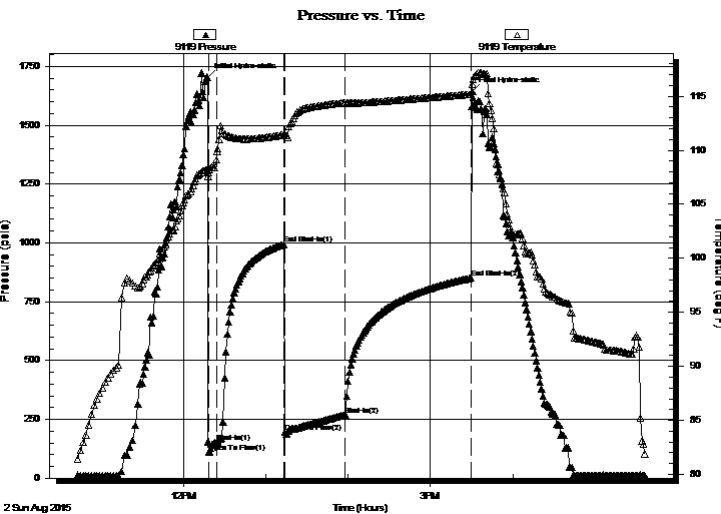
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2ND SHUT-IN 90 MINUTES- NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1701.78	108.15	Initial Hydro-static
1	110.03	107.94	Open To Flow (1)
7	153.70	109.89	Shut-In(1)
56	993.93	111.44	End Shut-In(1)
57	195.45	111.57	Open To Flow (2)
101	269.01	114.38	Shut-In(2)
192	850.90	115.18	End Shut-In(2)
193	1643.30	116.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SLIGHTLY MUD CUT OIL	0.30
0.00	10 GAS 80 OIL 5 MUD 5 w ater	0.00
120.00	CLEAN GASSY OIL 10 GAS 90 OIL	0.59
120.00	SLIGHTLY MUD CUT GASSY OIL	1.35
0.00	10 GAS 70 OIL 20 MUD	0.00
180.00	MUD CUT GASSY OIL	2.52

## Gas Rates

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



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TOOL DIAGRAM

SHELBY RESOURCES LLC

24-18S-14W BARTON

2717 CANAL BLVD SUITE C  
HAYS, KANSAS 67601

McCURRY 1-24

Job Ticket: 01228

DST#: 4

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.08.02 @ 10:42:00

## Tool Information

Drill Pipe:	Length: 3152.00 ft	Diameter: 3.80 inches	Volume: 44.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 78000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3370.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3346.00	
Hydraulic tool	5.00			3351.00	
Jars	7.00			3358.00	
Safety Joint	2.00		Fluid	3360.00	
Top Packer	5.00			3365.00	
Packer	5.00			3370.00	29.00 Bottom Of Top Packer
Anchor	40.00			3410.00	
Recorder	0.00	9119	Inside	3410.00	
Recorder	0.00	9139	Outside	3410.00	
Bullnose	5.00			3415.00	45.00 Anchor Tool
<b>Total Tool Length:</b>	<b>74.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 66.00 sec/qt  
Water Loss: 10.58 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4700.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 46 deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SLIGHTLY MUD CUT OIL	0.295
0.00	10 GAS 80 OIL 5 MUD 5 w ater	0.000
120.00	CLEAN GASSY OIL 10 GAS 90 OIL	0.590
120.00	SLIGHTLY MUD CUT GASSY OIL	1.346
0.00	10 GAS 70 OIL 20 MUD	0.000
180.00	MUD CUT GASSY OIL	2.525
0.00	10 GAS 60 OIL 30 MUD	0.000
120.00	CLEAN GASSY OIL GRAVITY 46 CORRECTE	1.683
0.00	30 GAS 70 OIL	0.000
0.00	300 GAS IN THE PIPE	0.000

Total Length: 600.00 ft      Total Volume: 6.439 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

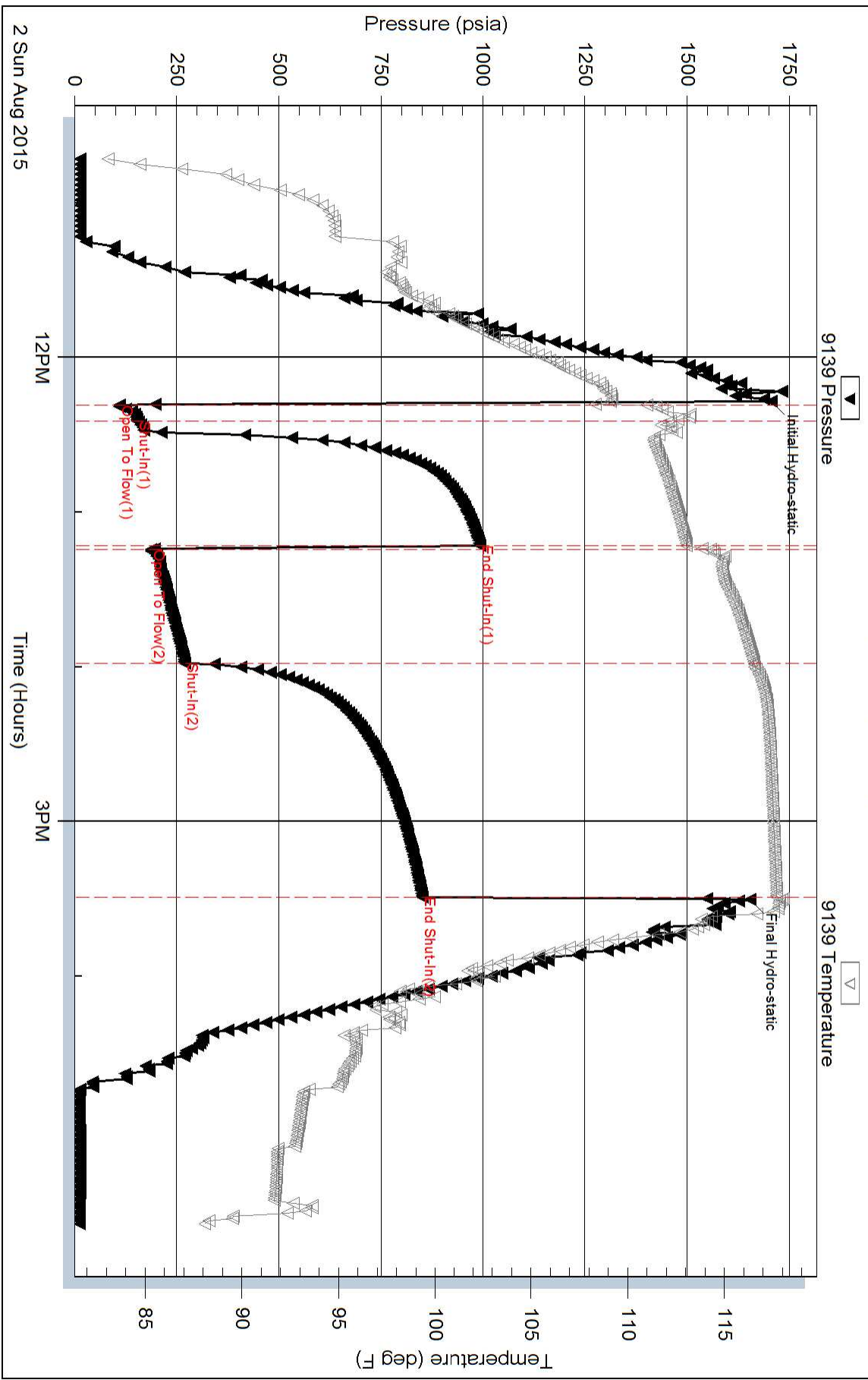
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time

