



DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES L.L.C.**

621 17 th STREET SUITE 1155
DENVER,COLORADO 80293

ATTN: JEREMY SCHWARTZ

L S UNIT 1-15

15-18S-14W BARTON

Start Date: 2015.12.04 @ 09:52:00

End Date: 2015.12.04 @ 19:29:00

Job Ticket #: 01200 DST #: 1

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

Printed: 2015.12.04 @ 06:08:05

SHELBY RESOURCES L.L.C.

15-18S-14W BARTON

L S UNIT 1-15

DST # 1

KANSAS CITY ;B

2015.12.04



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L S UNIT 1-15

Job Ticket: 01200

DST#: 1

ATTN: JEREMY SCHWARTZ

Test Start: 2015.12.04 @ 09:52:00

GENERAL INFORMATION:

Formation: **KANSAS CITY ;B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:00

Time Test Ended: 19:29:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3203.00 ft (KB) To 3219.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3219.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9119

Inside

Press@RunDepth: 897.13 psia @ 3214.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.03

End Date: 2015.12.03

Last Calib.: 2015.12.04

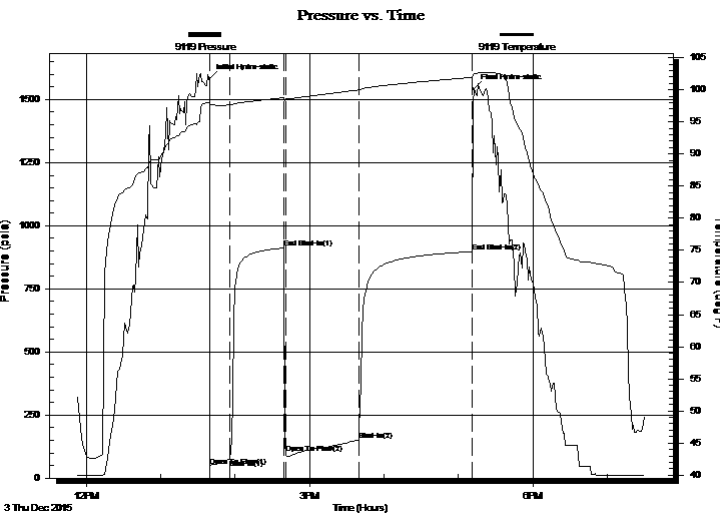
Start Time: 11:52:00

End Time: 19:30:00

Time On Btm: 2015.12.03 @ 13:39:00

Time Off Btm: 2015.12.03 @ 17:12:30

TEST COMMENT: 1st OPENING 15 MINUTES GOOD BLOW BUILT TO BOTTOM OF A 5 GALLON BUCKET IN 2 1/2 MINUTES
1st SHUT-IN 45 MINUTE-NO BLOW BACK
2nd OPENING 60 MINUTES GOOD BLOW BUILT TO BOTTOM OF A 5 GALLON BUCKET IN 2 MINUTES
2nd SHUT-IN 90 MINUTES-GAS TO SRFACE ON THBE 2ND SHUT-IN



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1581.67	98.04	Initial Hydro-static
1	48.10	97.31	Open To Flow (1)
18	76.36	97.63	Shut-In(1)
61	911.99	98.80	End Shut-In(1)
62	97.35	98.61	Open To Flow (2)
121	150.73	99.96	Shut-In(2)
212	897.13	101.91	End Shut-In(2)
214	1542.57	102.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SLIGHTLY OIL CUT MUDDY WATER	2950.70
0.00	5 GAS 5 OIL 10 MUD 80 WATER	0.00
60.00	OIL AND GAS CUT MUDDY WATER	2950.70
0.00	15 GAS 40 OIL 15 MUD 30 WATER	0.00
120.00	SLIGHTLY MUD CUT GASSY OIL	4426.47
0.00	10 GAS 75 OIL 15 MUD	0.00

Gas Rates

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



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Tester: GENE BUDIG

Unit No: 1

Interval: **3203.00 ft (KB) To 3219.00 ft (KB) (TVD)**

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3219.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139 Outside

Press@RunDepth: 894.97 psia @ 3214.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.12.03

End Date: 2015.12.03

Last Calib.: 2015.12.04

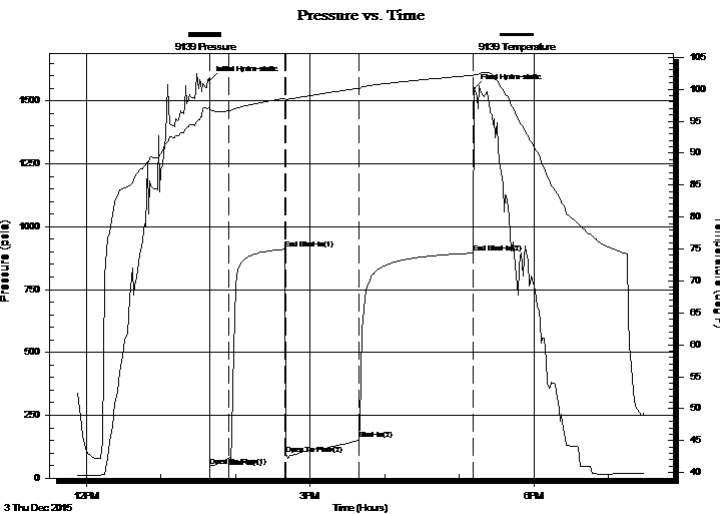
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2nd SHUT-IN 90 MINUTES-GAS TO SRFACE ON THBE 2ND SHUT-IN



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1580.94	97.13	Initial Hydro-static
1	48.45	96.65	Open To Flow (1)
16	77.88	96.63	Shut-In(1)
61	910.38	98.58	End Shut-In(1)
62	95.01	98.42	Open To Flow (2)
121	153.35	100.15	Shut-In(2)
212	894.97	102.18	End Shut-In(2)
213	1548.02	102.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SLIGHTLY OIL CUT MUDDY WATER	2950.70
0.00	5 GAS 5 OIL 10 MUD 80 WATER	0.00
60.00	OIL AND GAS CUT MUDDY WATER	2950.70
0.00	15 GAS 40 OIL 15 MUD 30 WATER	0.00
120.00	SLIGHTLY MUD CUT GASSY OIL	4426.47
0.00	10 GAS 75 OIL 15 MUD	0.00

Gas Rates

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



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TOOL DIAGRAM

SHELBY RESOURCES L.L.C.

15-18S-14W BARTON

621 17 th STREET SUITE 1155
DENVER, COLORADO 80293

L S UNIT 1-15

Job Ticket: 01200

DST#: 1

ATTN: JEREMY SCHWARTZ

Test Start: 2015.12.04 @ 09:52:00

Tool Information

Drill Pipe:	Length: 2967.00 ft	Diameter: 3.80 inches	Volume: 41.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 225.00 inches	Volume: 10327.46 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 10369.08 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3203.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3179.00	
Hydraulic tool	5.00			3184.00	
Jars	7.00			3191.00	
Safety Joint	2.00		Fluid	3193.00	
Top Packer	5.00			3198.00	
Packer	5.00			3203.00	29.00 Bottom Of Top Packer
Anchor	11.00			3214.00	
Recorder	0.00	9119	Inside	3214.00	
Recorder	0.00	9139	Outside	3214.00	
Bullnose	5.00			3219.00	16.00 Anchor Tool
Total Tool Length:	45.00				



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FLUID SUMMARY

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Test Start: 2015.12.04 @ 09:52:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 3600.00 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
60.00	SLIGHTLY OIL CUT MUDDY WATER	2950.702
0.00	5 GAS 5 OIL 10 MUD 80 WATER	0.000
60.00	OIL AND GAS CUT MUDDY WATER	2950.702
0.00	15 GAS 40 OIL 15 MUD 30 WATER	0.000
120.00	SLIGHTLY MUD CUT GASSY OIL	4426.474
0.00	10 GAS 75 OIL 15 MUD	0.000
90.00	MUDDY FROTHY OIL	1.262
	CHLORIDES 32000	

Total Length: 330.00 ft Total Volume: 10329.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

