



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: 2015.07.31 @ 08:13:00

End Date: 2015.07.31 @ 00:00:00

Job Ticket #: 010050 DST #: 1

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

Printed: 2015.07.31 @ 16:06:41

SHELBY RESOURCES LLC

24-18S-14W BARTON

McCURRY 1-24

DST # 1

LANSING 'A-F'

2015.07.31



DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

24-18S-14W BARTON

2717 CANAL BLVD SUITE C
HAYS, KANSAS 67601

McCURRY 1-24

Job Ticket: 010050

DST#: 1

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.07.31 @ 08:13:00

GENERAL INFORMATION:

Formation: **LANSING 'A-F'**

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: **3155.00 ft (KB) To 3140.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3140.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 9139

Inside

Press@RunDepth: 480.49 psia @ 3235.06 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.07.31

End Date: 2015.07.31

Last Calib.: 2015.07.31

Start Time: 08:13:00

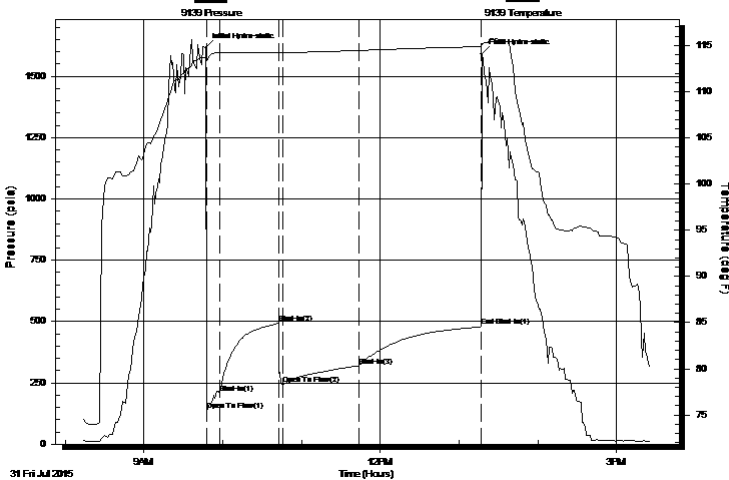
End Time: 15:26:30

Time On Btm: 2015.07.31 @ 09:47:00

Time Off Btm: 2015.07.31 @ 13:17:30

TEST COMMENT: 1ST OPENING 10 MINUTES-GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCET IN 3 MINUTES
1ST SHUT-IN 45 MINUTES-WEAK BLOW BACK FOR 10 MINUTES AND DIED
2ND OPENING 60 MINUTES-GOOD BLOW BUILT TO THE BOTTOM OF BUCKET BUCKET IN 90 SECONDS
2ND SHUT-IN 90 MINUTES-

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1615.78	113.76	Initial Hydro-static
1	137.66	113.33	Open To Flow (1)
11	206.43	114.19	Shut-In(1)
56	493.09	114.29	Shut-In(2)
59	242.67	114.20	Open To Flow (2)
117	319.87	114.46	Shut-In(3)
210	480.49	114.89	End Shut-In(1)
211	1592.07	115.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OIL AND GAS CUT MUDDY WATER	0.30
0.00	5 GAS 5 OIL 40 MUD 40 WATER	0.00
120.00	HEAVY OIL AND GAS CUT MUDDY WATER	0.59
0.00	40 GAS 30 OIL 10 MUD 20 WATER	0.00
120.00	GASSY FROTHY OIL	1.41
0.00	60 GAS 30 OIL 6 MUD 4 water	0.00

Gas Rates

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



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SHELBY RESOURCES LLC

24-18S-14W BARTON

2717 CANAL BLVD SUITE C
HAYS, KANSAS 67601

McCURRY 1-24

Job Ticket: 010050

DST#: 1

ATTN: JEFREMY SCHWARTZ

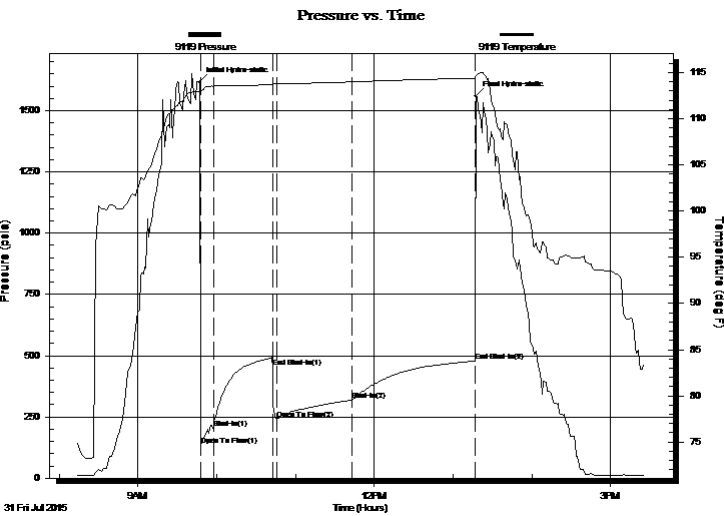
Test Start: 2015.07.31 @ 08:13:00

GENERAL INFORMATION:

Formation: **LANSING 'A-F'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:00:00 Tester: GENE BUDIG
 Time Test Ended: 00:00:00 Unit No: 1
 Interval: **3155.00 ft (KB) To 3140.00 ft (KB) (TVD)** Reference Elevations: 1908.00 ft (KB)
 Total Depth: 3140.00 ft (KB) (TVD) 1897.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 9119 Outside
 Press@RunDepth: 477.60 psia @ 3235.06 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.07.31 End Date: 2015.07.31 Last Calib.: 2015.07.31
 Start Time: 08:13:00 End Time: 15:26:00 Time On Btm: 2015.07.31 @ 09:47:00
 Time Off Btm: 2015.07.31 @ 13:17:30

TEST COMMENT: 1ST OPENING 10 MINUTES-GOOD BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCET IN 3 MINUTES
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 2ND OPENING 60 MINUTES-GOOD BLOW BUILT TO THE BOTTOM OF BUCKET BUCKET IN 90 SECONDS
 2ND SHUT-IN 90 MINUTES-



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1617.88	112.97	Initial Hydro-static
1	136.30	112.58	Open To Flow (1)
11	202.48	113.51	Shut-In(1)
56	453.81	113.65	End Shut-In(1)
59	241.07	113.77	Open To Flow (2)
117	318.83	113.97	Shut-In(2)
210	477.60	114.38	End Shut-In(2)
211	1559.84	114.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OIL AND GAS CUT MUDDY WATER	0.30
0.00	5 GAS 5 OIL 40 MUD 40 WATER	0.00
120.00	HEAVY OIL AND GAS CUT MUDDY WATER	0.59
0.00	40 GAS 30 OIL 10 MUD 20 WATER	0.00
120.00	GASSY FROTHY OIL	1.41
0.00	60 GAS 30 OIL 6 MUD 4 water	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

SHELBY RESOURCES LLC

24-18S-14W BARTON

2717 CANAL BLVD SUITE C
HAYS, KANSAS 67601

McCURRY 1-24

Job Ticket: 010050

DST#: 1

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.07.31 @ 08:13:00

Tool Information

Drill Pipe:	Length: 2931.00 ft	Diameter: 3.80 inches	Volume: 41.11 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: 72000.00 lb
			Total Volume: 42.14 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3155.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.06 ft			
Tool Length:	114.06 ft			
Number of Packers:	3	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			3131.00	
Hydraulic tool	5.00			3136.00	
Jars	7.00			3143.00	
Safety Joint	2.00		Fluid	3145.00	
Top Packer	5.00			3150.00	
Packer	5.00			3155.00	29.00 Bottom Of Top Packer
Anchor	5.00			3160.00	
Change Over Sub	0.75			3160.75	
Drill Pipe	63.56			3224.31	
Change Over Sub	0.75			3225.06	
Anchor	10.00			3235.06	
Recorder	0.00	9139	Inside	3235.06	
Recorder	0.00	9119	Outside	3235.06	
Bullnose	5.00			3240.06	85.06 Anchor Tool

Total Tool Length: 114.06



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FLUID SUMMARY

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HAYS, KANSAS 67601

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Job Ticket: 010050

DST#: 1

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.07.31 @ 08:13:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 9.19 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	OIL AND GAS CUT MUDDY WATER	0.295
0.00	5 GAS 5 OIL 40 MUD 40 WATER	0.000
120.00	HEAVY OIL AND GAS CUT MUDDY WATER	0.590
0.00	40 GAS 30 OIL 10 MUD 20 WATER	0.000
120.00	GASSY FROTHY OIL	1.410
0.00	60 GAS 30 OIL 6 MUD4 w ater	0.000
120.00	GASSY FROTHY OIL	1.683
0.00	20 GAS 70 OIL 6 MUD 4 WATER	0.000
120.00	OIL AND GAS CUT MUDDY WATER	1.683
0.00	10 GAS 30 OIL 35 MUD 25 WATER	0.000
65.00	VERY THICH HEAVY MUD NO GRIND OUT	0.912
0.00	1500 FEET OF GAS IN THE PIPE	0.000
0.00	CHLORIDES38000	0.000

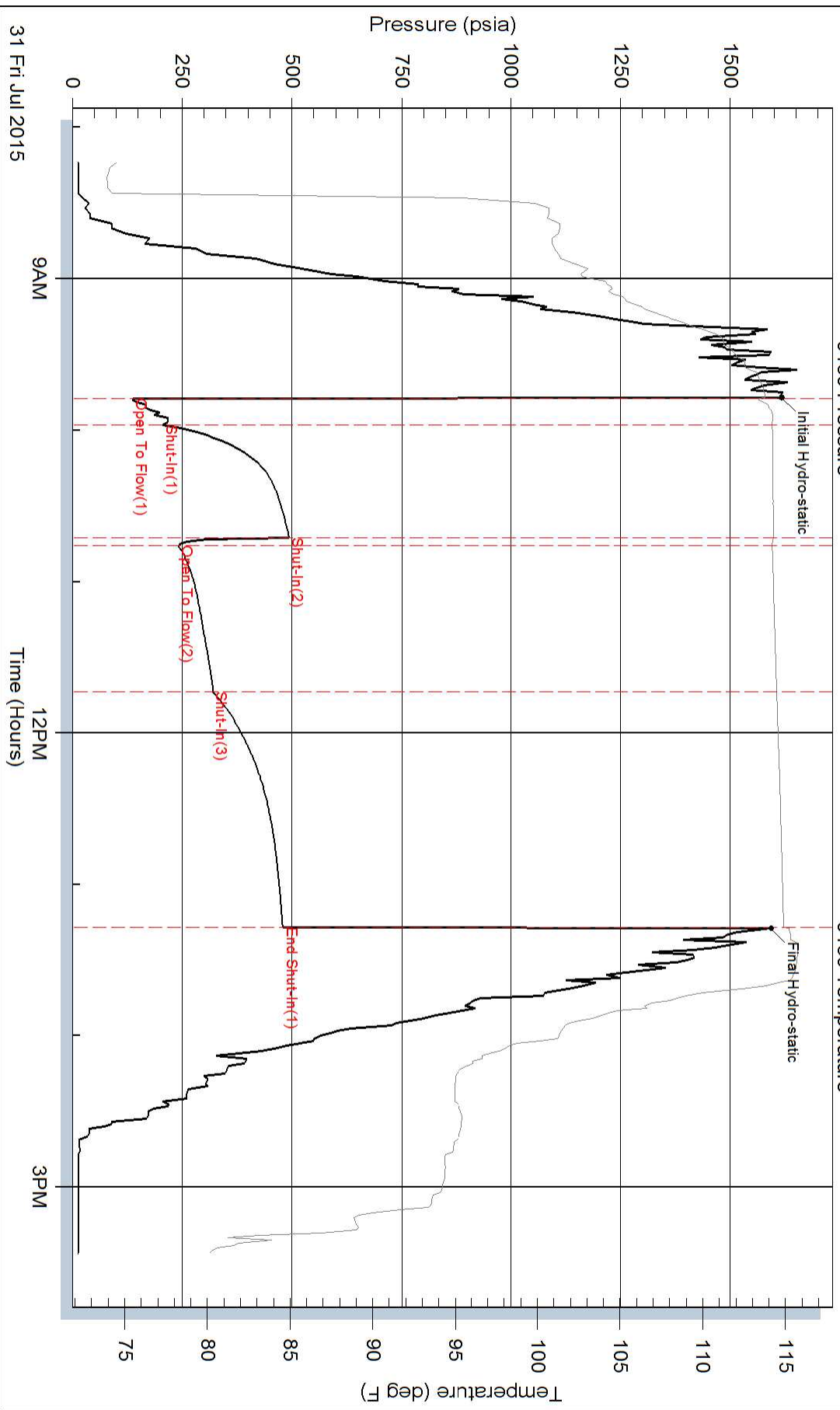
Total Length: 605.00 ft Total Volume: 6.573 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

