



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: 2015.08.03 @ 02:41:00

End Date: 2015.08.03 @ 00:00:00

Job Ticket #: 01229 DST #: 5

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

Printed: 2015.08.03 @ 09:31:03



DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

24-18S-14W BARTON

2717 CANAL BLVD SUITE C
HAYS, KANSAS 67601

McCURRY 1-24

Job Ticket: 01229

DST#: 5

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.08.03 @ 02:41:00

GENERAL INFORMATION:

Formation: **ARBUCKLED**

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: **3415.00 ft (KB) To 3425.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3425.00 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: 855.83 psia @ 3420.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.08.03

End Date:

2015.08.03

Last Calib.:

2015.08.03

Start Time:

02:41:00

End Time:

09:13:30

Time On Btm:

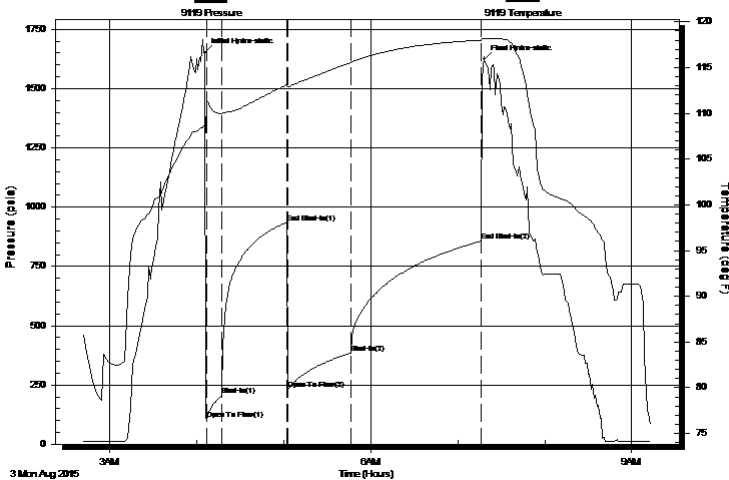
2015.08.03 @ 04:05:30

Time Off Btm:

2015.08.03 @ 07:18:30

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

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1650.47	108.65	Initial Hydro-static
2	104.82	111.42	Open To Flow (1)
12	208.16	109.95	Shut-In(1)
57	934.23	113.10	End Shut-In(1)
57	231.51	112.90	Open To Flow (2)
101	384.75	115.53	Shut-In(2)
191	855.83	117.99	End Shut-In(2)
193	1624.01	118.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	SALT WATER CHLORIDES26000	8.12

Gas Rates

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



DRILL STEM TEST REPORT

SHELBY RESOURCES LLC

24-18S-14W BARTON

2717 CANAL BLVD SUITE C
HAYS, KANSAS 67601

McCURRY 1-24

Job Ticket: 01229

DST#: 5

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.08.03 @ 02:41:00

GENERAL INFORMATION:

Formation: **ARBUCKLED**

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: **3415.00 ft (KB) To 3425.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3425.00 ft (KB) (TVD)

1897.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 3139

Inside

Press@RunDepth: 855.03 psia @ 3420.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.08.03

End Date:

2015.08.03

Last Calib.:

2015.08.03

Start Time: 02:41:00

End Time:

09:13:30

Time On Btm:

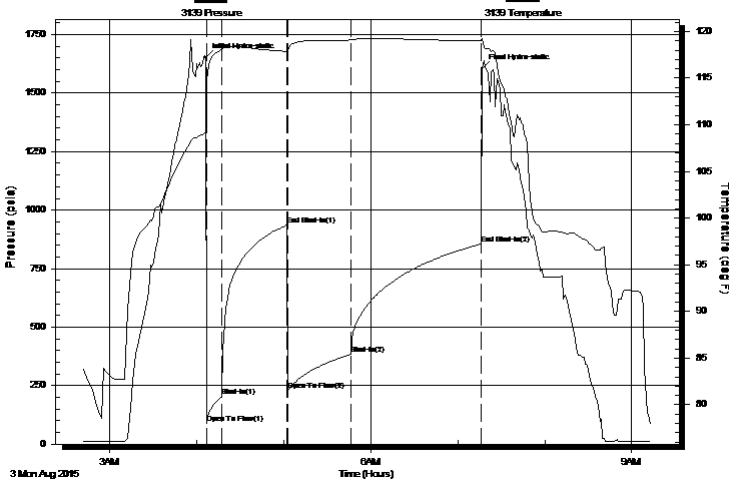
2015.08.03 @ 04:06:00

Time Off Btm:

2015.08.03 @ 07:17:00

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

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1653.29	109.11	Initial Hydro-static
1	89.59	111.98	Open To Flow (1)
12	206.88	118.09	Shut-In(1)
56	935.31	117.86	End Shut-In(1)
57	230.78	117.69	Open To Flow (2)
101	384.83	119.08	Shut-In(2)
190	855.03	118.97	End Shut-In(2)
191	1605.15	119.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	SALT WATER CHLORIDES26000	8.12

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: 01229

DST#: 5

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.08.03 @ 02:41:00

Tool Information

Drill Pipe:	Length: 3182.00 ft	Diameter: 3.80 inches	Volume: 44.64 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:	8.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3415.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3396.00	
Hydraulic tool	5.00			3401.00	
Jars	7.00			3408.00	
Safety Joint	2.00		Fluid	3410.00	
Packer	5.00			3415.00	24.00 Bottom Of Top Packer
Anchor	5.00			3420.00	
Recorder	0.00	3139	Inside	3420.00	
Recorder	0.00	9136	Outside	3420.00	
Bullnose	5.00			3425.00	10.00 Anchor Tool
Total Tool Length:	34.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

SHELBY RESOURCES LLC

24-18S-14W BARTON

2717 CANAL BLVD SUITE C
HAYS, KANSAS 67601

McCURRY 1-24

Job Ticket: 01229

DST#: 5

ATTN: JEFREMY SCHWARTZ

Test Start: 2015.08.03 @ 02:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
720.00	SALT WATER CHLORIDES26000	8.123

Total Length: 720.00 ft Total Volume: 8.123 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

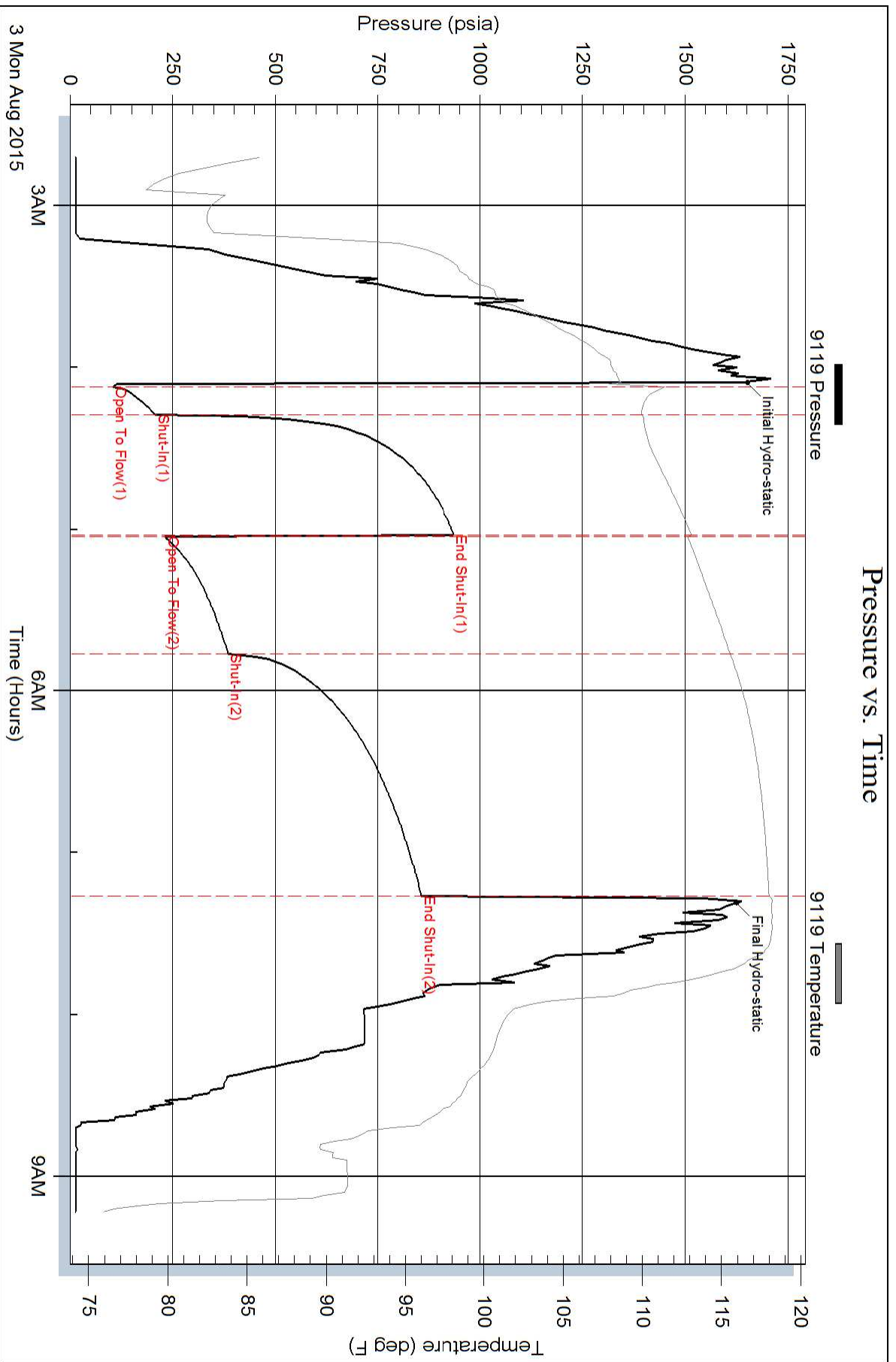
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

