



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

13949 W Colfax bld.1 Sut 120
Lakewood ,Colorado 80401

ATTN: Jeremy Schwartz

Slattery #1-16

16-18s-14w

Start Date: 2019.10.03 @ 07:35:00

End Date: 2019.10.03 @ 00:00:00

Job Ticket #: 01375 DST #: 4

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

Printed: 2019.10.03 @ 14:03:38



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Shelby Resources LLC

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ATTN: Jeremy Schwartz

Test Start: 2019.10.03 @ 07:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:09:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No:

Interval: **3478.00 ft (KB) To 3487.00 ft (KB) (TVD)**

Reference Elevations: 1964.00 ft (KB)

Total Depth: 3487.00 ft (KB) (TVD)

1959.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 1939

Press@RunDepth: 1125.02 psig @ ft (KB)

Capacity: psig

Start Date: 2019.10.03

End Date:

2019.10.03

Last Calib.:

1899.12.30

Start Time: 07:35:00

End Time:

13:42:00

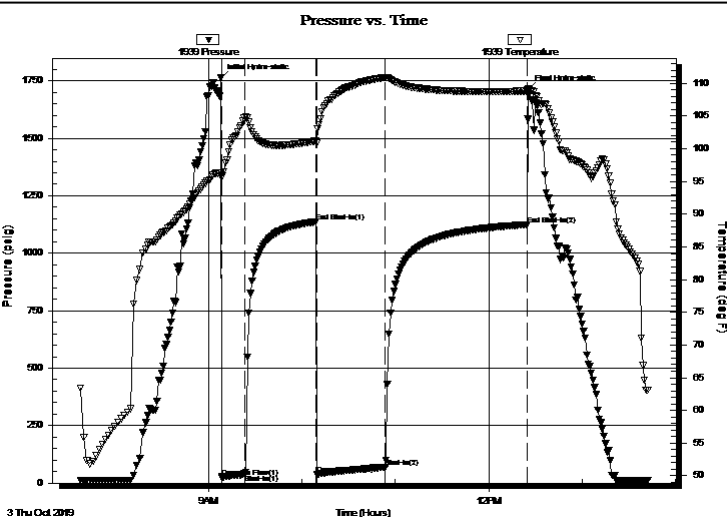
Time On Btm:

2019.10.03 @ 09:08:00

Time Off Btm:

2019.10.03 @ 12:25:30

TEST COMMENT: 1st opening 15 Minutes weak blow built to 2 inches into the water
1st Shut-In 45 Minutes
2nd Opening 45 Minutes weak blow built to 3 inches into the water
2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.59	96.31	Initial Hydro-static
1	25.92	95.52	Open To Flow (1)
15	37.98	104.67	Shut-In(1)
61	1136.83	101.19	End Shut-In(1)
62	39.73	100.86	Open To Flow (2)
106	70.04	110.87	Shut-In(2)
197	1125.02	108.80	End Shut-In(2)
198	1710.92	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	chlorides	0.44
0.00	not a speck of oil	0.00
0.00	chlorides 16,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Unit No:

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Reference Elevations: 1964.00 ft (KB)

Total Depth: 3487.00 ft (KB) (TVD)

1959.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 9119

Press@RunDepth: 1128.43 psig @ ft (KB)

Capacity: psig

Start Date: 2019.10.03

End Date:

2019.10.03

Last Calib.:

1899.12.30

Start Time: 07:35:00

End Time:

13:42:30

Time On Btm:

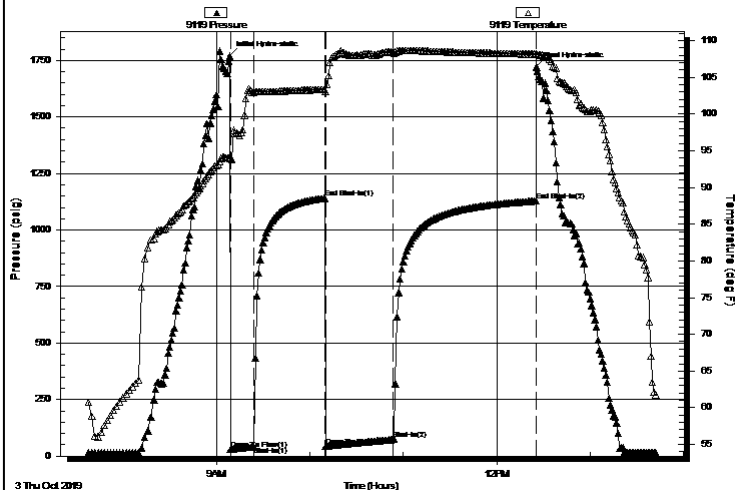
2019.10.03 @ 09:08:30

Time Off Btm:

2019.10.03 @ 12:25:30

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2nd Shut-In 90 Minutes

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.73	94.06	Initial Hydro-static
1	31.21	93.88	Open To Flow (1)
16	41.64	102.89	Shut-In(1)
61	1140.51	103.36	End Shut-In(1)
62	43.54	103.06	Open To Flow (2)
105	72.95	108.33	Shut-In(2)
197	1128.43	108.17	End Shut-In(2)
197	1720.78	108.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	chlorides	0.44
0.00	not a speck of oil	0.00
0.00	chlorides 16,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

16-18s-14w

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Tool Information

Drill Pipe:	Length: 3344.00 ft	Diameter: 3.80 inches	Volume: 46.91 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 68000.00 lb
		Total Volume:	47.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3478.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Jars	5.00			3463.00	
Safety Joint	5.00			3468.00	
Packer	5.00			3473.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3478.00	
Anchor	4.00			3482.00	
Recorder	0.00	9119	Inside	3482.00	
Recorder	0.00	9139	Outside	3482.00	
Bullnose	5.00			3487.00	9.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.60 in³

Resistivity: ohm.m

Salinity: 6600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	chlorides	0.443
0.00	not a speck of oil	0.000
0.00	chlorides 16,000	0.000

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

