



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: 2019.10.01 @ 12:00:00

End Date: 2019.10.01 @ 18:11:00

Job Ticket #: 01372 DST #: 1

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

Printed: 2019.10.01 @ 17:23:19



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Shelby Resources LLC

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Lakewood, Colorado 80401

Slattery #1-16

Job Ticket: 01372

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2019.10.01 @ 12:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:49:00

Time Test Ended: 18:11:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **3224.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1964.00 ft (KB)

1959.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 9139

Press@RunDepth: 907.89 psig @ ft (KB)

Capacity: psig

Start Date: 2019.10.01

End Date:

2019.10.01

Last Calib.:

1899.12.30

Start Time: 12:00:00

End Time:

16:59:00

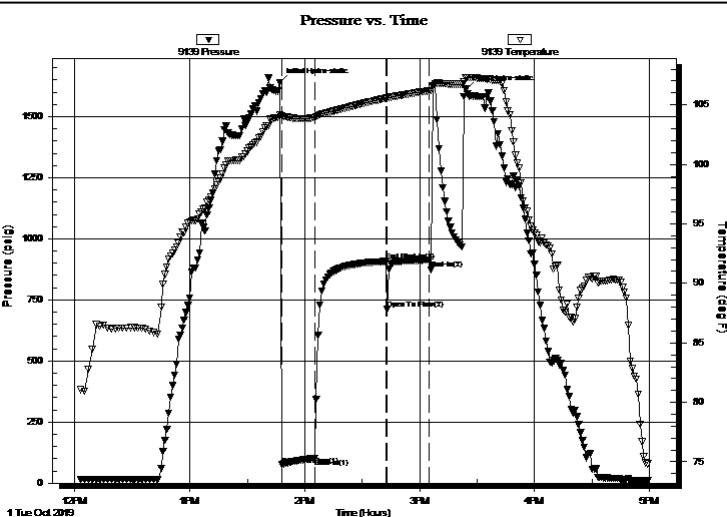
Time On Btm:

2019.10.01 @ 13:47:00

Time Off Btm:

2019.10.01 @ 15:24:00

TEST COMMENT: 1st Opening 15 Minutes weak 1/2 blow to weak surface blow
1st Shut-In 45 Minutes
2nd Opening 36 Minutes no blow flushed tool no help
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.70	104.14	Initial Hydro-static
1	75.16	104.06	Open To Flow (1)
18	102.13	103.92	Shut-In(1)
56	907.89	105.56	End Shut-In(1)
56	711.43	105.53	Open To Flow (2)
78	913.02	106.18	Shut-In(2)
97	1612.48	107.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	drilling mud	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Tester: Gene Budig

Unit No: 1

Interval: **3224.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1964.00 ft (KB)

1959.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 9119

Press@RunDepth: 909.85 psig @ ft (KB)

Capacity: psig

Start Date: 2019.10.01 End Date: 2019.10.01

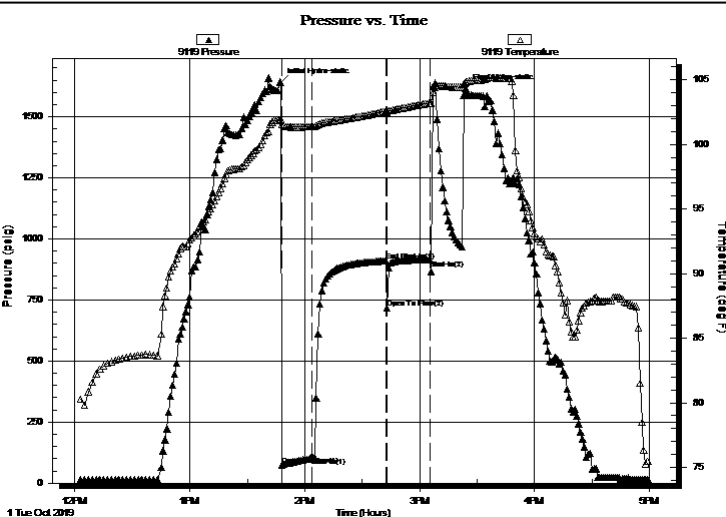
Last Calib.: 1899.12.30

Start Time: 12:00:00 End Time: 16:59:00

Time On Btm: 2019.10.01 @ 13:47:30

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TEST COMMENT: 1st Opening 15 Minutes weak 1/2 blow to weak surface blow
1st Shut-In 45 Minutes
2nd Opening 36 Minutes no blow flushed tool no help
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.38	101.95	Initial Hydro-static
1	74.92	101.52	Open To Flow (1)
16	103.93	101.37	Shut-In(1)
55	909.85	102.56	End Shut-In(1)
56	716.14	102.50	Open To Flow (2)
78	915.20	103.20	Shut-In(2)
97	1616.27	104.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	drilling mud	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

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

Slattery #1-16

Job Ticket: 01372

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2019.10.01 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3102.00 ft	Diameter: 3.80 inches	Volume: 43.51 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
		Total Volume:	43.51 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3224.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.17 ft			
Tool Length:	116.17 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3199.00	
Hydraulic tool	5.00			3204.00	
Jars	5.00			3209.00	
Safety Joint	5.00			3214.00	
Packer	5.00			3219.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3224.00	
Anchor	5.00			3229.00	
Change Over Sub	0.75			3229.75	
Drill Pipe	62.67			3292.42	
Change Over Sub	0.75		Inside	3293.17	
Anchor	12.00			3305.17	
Recorder	0.00	9139	Inside	3305.17	
Recorder	0.00	9119	Outside	3305.17	
Bullnose	5.00			3310.17	86.17 Bottom Packers & Anchor

Total Tool Length: 116.17



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FLUID SUMMARY

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DST#: 1

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Test Start: 2019.10.01 @ 12:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 9.60 in³

Resistivity: ohm.m

Salinity: 6500.00 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
60.00	drilling mud	0.000

Total Length: 60.00 ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

