



DRILL STEM TEST REPORT

Prepared For: **SHELBY RESOURCES LLC**

621 17TH STREET SUITE 1150
DENVER, COLORADO 80293

ATTN: JEREMY SCHWARTZ

FENWICK 32-26

26-21S-16W PAWNEE

Start Date: 2015.06.20 @ 03:11:00

End Date:

Job Ticket #: 01040

DST #: 2

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

Printed: 2015.06.20 @ 19:36:51



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DST#: 2

ATTN: JEREMY SCHWARTZ

Test Start: 2015.06.20 @ 03:11:00

GENERAL INFORMATION:

Formation: **simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No:

Interval: **3855.00 ft (KB) To 3890.00 ft (KB) (TVD)**

Reference Elevations: 1988.00 ft (KB)

Total Depth: 3890.00 ft (KB) (TVD)

1875.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 113.00 ft

Serial #: **3139** Outside

Press@RunDepth: 241.92 psia @ 3885.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2015.06.20

End Date: 2015.06.20

Last Calib.: 2015.06.20

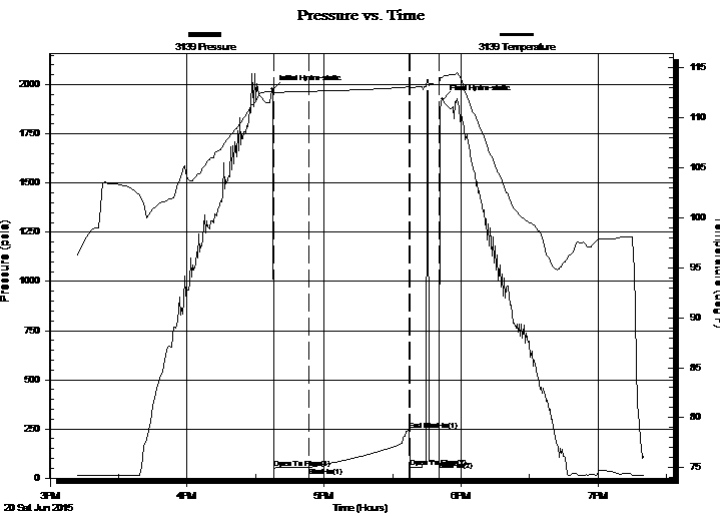
Start Time: 15:11:00

End Time: 19:20:30

Time On Btm: 2015.06.20 @ 16:37:30

Time Off Btm: 2015.06.20 @ 17:52:00

TEST COMMENT: 1st opening 15 minutes very weak surface blow for 6 minutes and died
1st shut-in 45 minutes-no blow back
2nd opening 10 minutes no blow came out of the hole



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1975.00	112.95	Initial Hydro-static
1	51.66	112.47	Open To Flow (1)
16	54.88	112.66	Shut-In(1)
60	241.92	113.09	End Shut-In(1)
60	55.82	112.99	Open To Flow (2)
73	87.76	113.38	Shut-In(2)
75	1926.24	114.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	drilling mud	0.42

Gas Rates

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



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ATTN: JEREMY SCHWARTZ

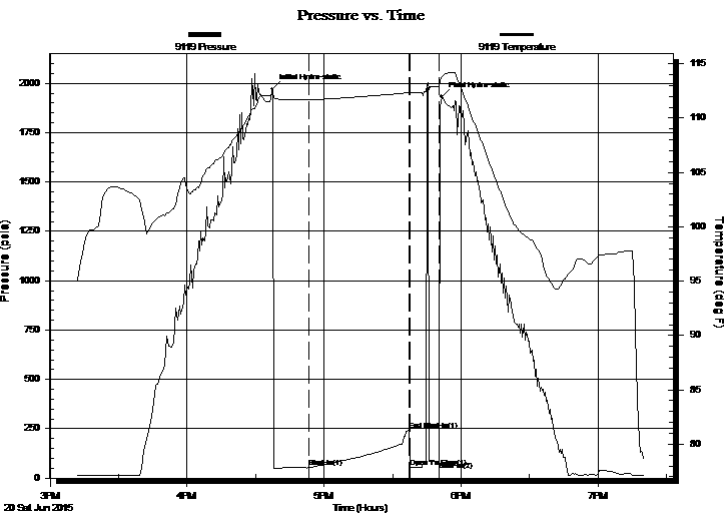
Test Start: 2015.06.20 @ 03:11:00

GENERAL INFORMATION:

Formation: **simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Interval: **3855.00 ft (KB) To 3890.00 ft (KB) (TVD)**
 Total Depth: 3890.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No:
 Reference Elevations: 1988.00 ft (KB)
 1875.00 ft (CF)
 KB to GR/CF: 113.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 240.89 psia @ 3885.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.06.20 End Date: 2015.06.20 Last Calib.: 2015.06.20
 Start Time: 15:11:00 End Time: 19:20:30 Time On Btm: 2015.06.20 @ 16:37:30
 Time Off Btm: 2015.06.20 @ 17:51:30

TEST COMMENT: 1st opening 15 minutes very weak surface blow for 6 minutes and died
 1st shut-in 45 minutes-no blow back
 2nd opening 10 minutes no blow came out of the hole



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1970.92	112.36	Initial Hydro-static
16	53.94	111.70	Shut-In(1)
60	240.89	112.36	End Shut-In(1)
60	56.46	112.25	Open To Flow (1)
73	87.17	112.89	Shut-In(2)
74	1932.41	113.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	drilling mud	0.42

Gas Rates

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



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TOOL DIAGRAM

SHELBY RESOURCES LLC

26-21S-16W PAWNEE

621 17TH STREET SUITE 1150
DENVER, COLORADO 80293

FENWICK 32-26

Job Ticket: 01040

DST#: 2

ATTN: JEREMY SCHWARTZ

Test Start: 2015.06.20 @ 03:11:00

Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 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: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 68000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3855.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	64.00 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			3831.00	
Hydraulic tool	5.00			3836.00	
Jars	7.00			3843.00	
Safety Joint	2.00		Fluid	3845.00	
Top Packer	5.00			3850.00	
Packer	5.00			3855.00	29.00 Bottom Of Top Packer
Anchor	30.00			3885.00	
Recorder	0.00	9119	Inside	3885.00	
Recorder	0.00	3139	Outside	3885.00	
Bullnose	5.00			3890.00	35.00 Anchor Tool
Total Tool Length:	64.00				



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FLUID SUMMARY

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Test Start: 2015.06.20 @ 03:11:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 9.60 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	drilling mud	0.417

Total Length: 70.00 ft Total Volume: 0.417 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

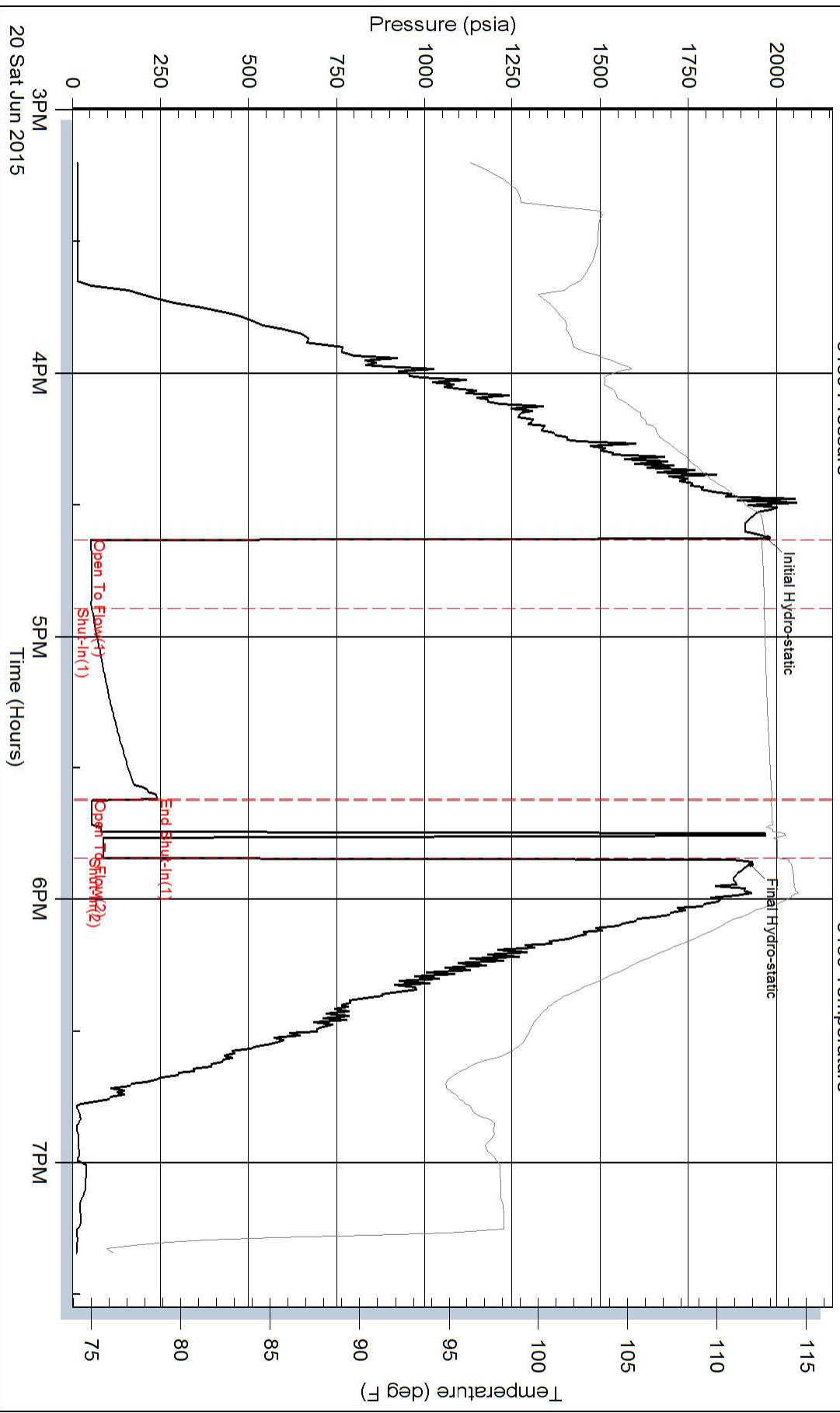
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

