



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC.**

2717 Canal Blvd.
Hays Kansas 67601

ATTN: Jeremy Schwartz

Fenwick Unit 1-26

26-21s-16w-Pawnee

Start Date: 2014.07.26 @ 06:20:00

End Date: 2014.07.26 @ 14:01:30

Job Ticket #: 18902 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2014.07.26 @ 03:14:10



DRILL STEM TEST REPORT

Shelby Resources LLC.

26-21s-16w-Pawnee

2717 Canal Blvd.
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Fenwick Unit 1-26

Job Ticket: 18902

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.26 @ 06:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:07:30

Time Test Ended: 14:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-40

Interval: 3890.00 ft (KB) To 3900.00 ft (KB) (TVD)

Reference Elevations: 1984.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8931

Inside

Press@RunDepth: 1319.69 psig @ 3895.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.25

End Date:

2014.07.25

Last Calib.:

2014.07.26

Start Time: 06:20:00

End Time:

14:01:30

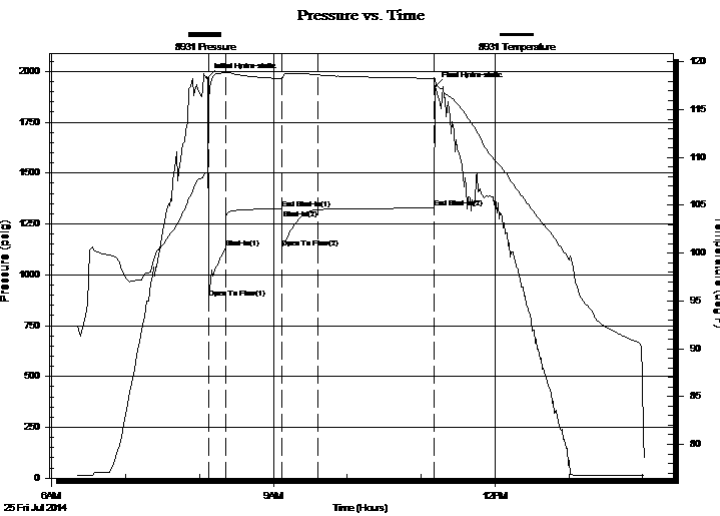
Time On Btm:

2014.07.25 @ 08:06:30

Time Off Btm:

2014.07.25 @ 11:11:30

TEST COMMENT: 1st Open 15 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 45 seconds.
1st Shut in 45 minutes No blow back.
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 45 seconds.
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.33	108.46	Initial Hydro-static
1	885.87	115.86	Open To Flow (1)
15	1130.78	118.85	Shut-In(1)
60	1324.53	118.24	End Shut-In(1)
61	1133.32	118.19	Open To Flow (2)
90	1319.69	118.65	Shut-In(2)
184	1326.62	118.28	End Shut-In(2)
185	1923.90	118.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2920.00	Water 100%	38.98
0.00	Chlorides 39,000	0.00

Gas Rates

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



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Job Ticket: 18902

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.26 @ 06:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:07:30

Time Test Ended: 14:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-40

Interval: 3890.00 ft (KB) To 3900.00 ft (KB) (TVD)

Reference Elevations: 1984.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6999 Outside

Press@RunDepth: 1327.15 psig @ 3895.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.25

End Date:

2014.07.25

Last Calib.:

2014.07.26

Start Time: 06:20:00

End Time:

13:59:53

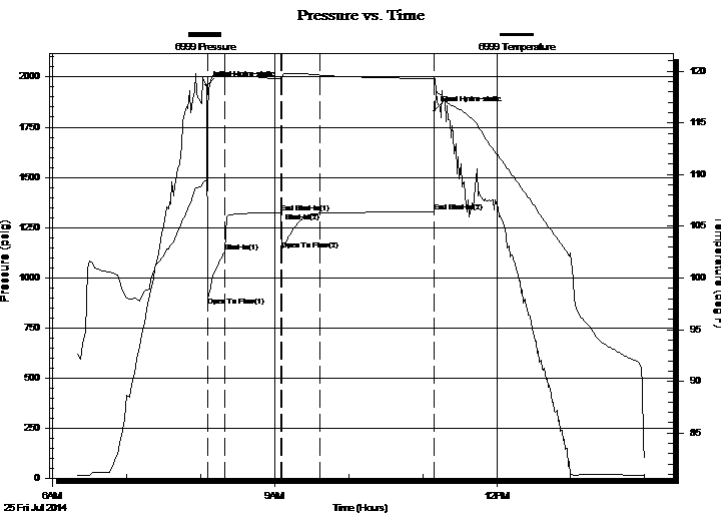
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2014.07.25 @ 08:04:53

Time Off Btm:

2014.07.25 @ 11:09:23

TEST COMMENT: 1st Open 15 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 45 seconds.
1st Shut in 45 minutes No blow back.
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 45 seconds.
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.19	109.48	Initial Hydro-static
1	857.72	109.33	Open To Flow (1)
15	1128.74	119.84	Shut-In(1)
60	1324.71	119.24	End Shut-In(1)
61	1136.53	119.31	Open To Flow (2)
92	1320.92	119.62	Shut-In(2)
184	1327.15	119.29	End Shut-In(2)
185	1831.34	119.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2920.00	Water 100%	38.98
0.00	Chlorides 39,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC.

26-21s-16w-Pawnee

2717 Canal Blvd.
Hays Kansas 67601

Fenwick Unit 1-26

Job Ticket: 18902

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.26 @ 06:20:00

Tool Information

Drill Pipe:	Length: 3662.00 ft	Diameter: 3.80 inches	Volume: 51.37 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: 216.97 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 52.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.97 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	3890.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	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			3867.00	
Hydraulic tool	5.00			3872.00	
Jars	6.00			3878.00	
Safety Joint	2.00			3880.00	
Top Packer	5.00			3885.00	
Packer	5.00			3890.00	28.00 Bottom Of Top Packer
Perforations	5.00			3895.00	
Recorder	0.00	8931	Inside	3895.00	
Recorder	0.00	6999	Outside	3895.00	
Bull Plug	5.00			3900.00	10.00 Anchor Tool
Total Tool Length:	38.00				



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FLUID SUMMARY

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DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.26 @ 06:20:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2920.00	Water 100%	38.983
0.00	Chlorides 39,000	0.000

Total Length: 2920.00 ft Total Volume: 38.983 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

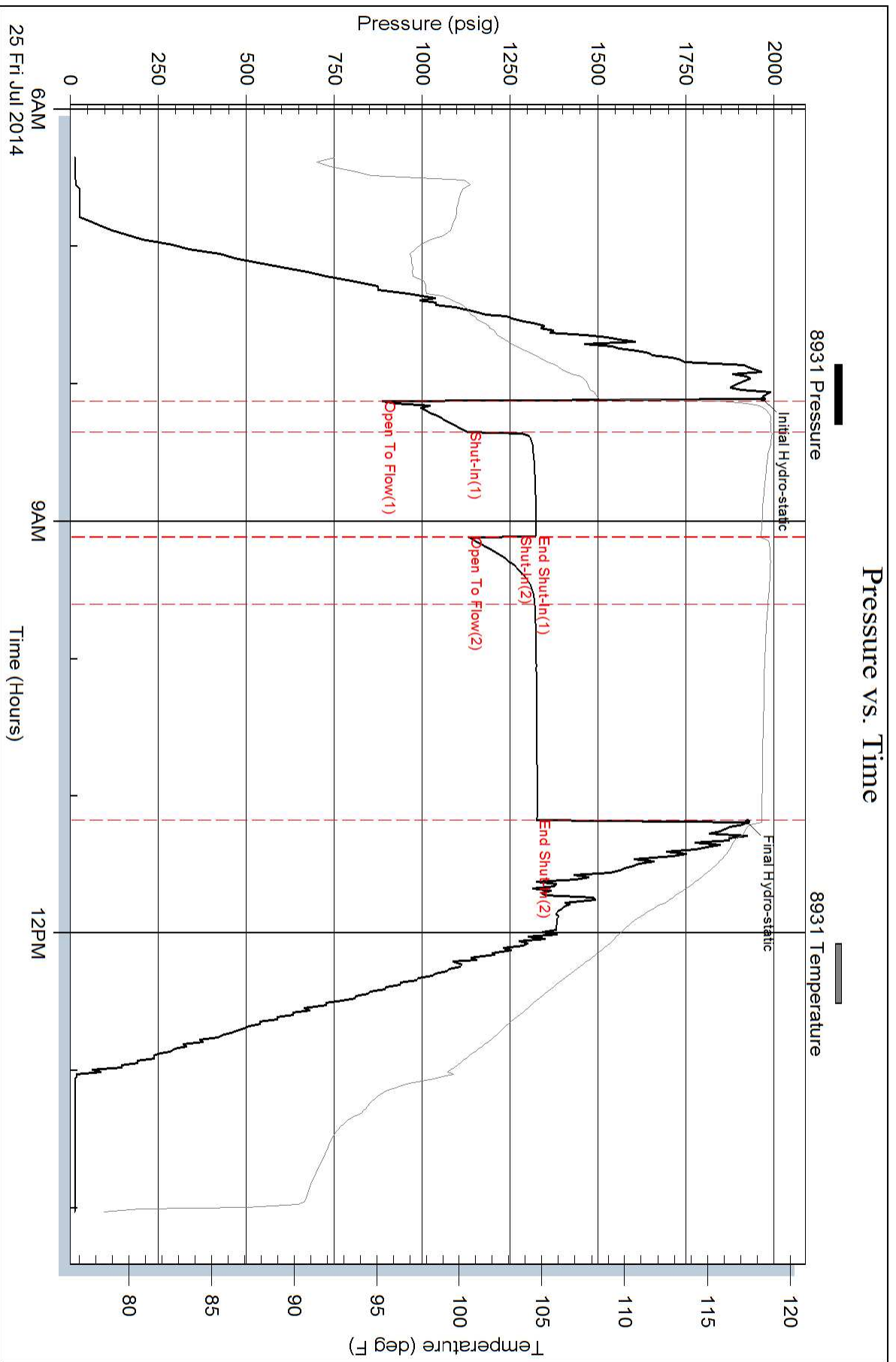
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

