



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

445 Union Blvd Suite 208 Lakewood CO 80228

ATTN: Keith Reavis

Vaughan Trust #1-27

27-21s-17w Pawnee

Start Date: 2014.08.05 @ 17:05:00

End Date: 2014.08.05 @ 23:43:30

Job Ticket #: 60354 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.05 @ 23:55:17



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27-21s-17w Pawnee

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DST#: 4

Test Start: 2014.08.05 @ 17:05:00

GENERAL INFORMATION:

Formation: **Lansing H zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:00

Time Test Ended: 23:43:30

Test Type: Conventional Straddle (Initial)

Tester: Jared Scheck

Unit No: S4-Great Bend-60 RT

Interval: 3640.00 ft (KB) To 3665.00 ft (KB) (TVD)

Reference Elevations: 2055.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6651

Press@RunDepth: 76.81 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.08.05 End Date: 2014.08.05

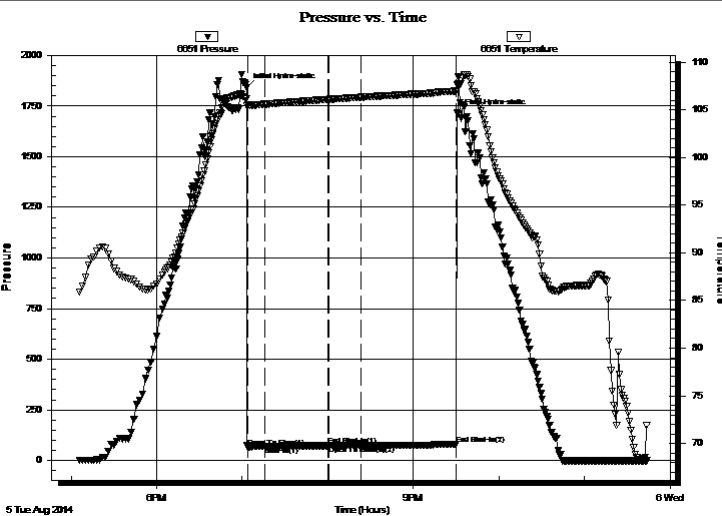
Last Calib.: 2014.08.05

Start Time: 17:05:00 End Time: 23:43:30

Time On Btm: 2014.08.05 @ 19:03:00

Time Off Btm: 2014.08.05 @ 21:31:00

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built 8 inches into bucket w ater
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-No blow w hile turning tabe head joint hit bells checking to make shure did not back out lost count turns



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.24	106.15	Initial Hydro-static
1	66.85	105.54	Open To Flow (1)
13	68.80	105.57	Shut-In(1)
57	73.03	106.09	End Shut-In(1)
58	72.94	106.10	Open To Flow (2)
80	76.81	106.32	Shut-In(2)
147	79.92	106.95	End Shut-In(2)
148	1712.24	107.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud	0.44

Gas Rates

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



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Total Depth: 4290.00 ft (KB) (TVD)

2046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8938

Press@RunDepth: psig @ ft (KB)

Capacity: psig

Start Date: 2014.08.05

End Date: 2014.08.05

Last Calib.: 1899.12.30

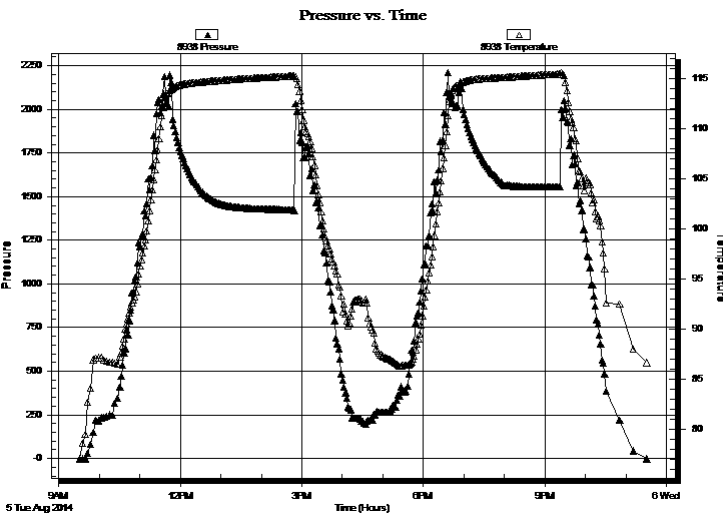
Start Time: 09:30:00

End Time: 23:30:30

Time On Btm:

Time Off Btm:

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Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud	0.44

Gas Rates

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



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TOOL DIAGRAM

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60354

DST#: 4

Test Start: 2014.08.05 @ 17:05:00

Tool Information

Drill Pipe:	Length: 3432.00 ft	Diameter: 3.80 inches	Volume: 48.14 bbl	Tool Weight: 1000.00 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 49.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	3640.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	3665.00 ft			
Interval between Packers:	25.00 ft			
Tool Length:	607.50 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3617.00	
Hydraulic tool	5.00			3622.00	
Jars	6.00			3628.00	
Safety Joint	2.00			3630.00	
Packer	5.00			3635.00	28.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Anchor	22.00			3662.00	
Recorder	1.00			3663.00	
Recorder	1.00			3664.00	
Blank Off Sub	1.00			3665.00	25.00 Tool Interval
Packer	5.00			3670.00	
Change Over Sub	0.75			3670.75	
Drill Pipe	544.00			4214.75	
Change Over Sub	0.75			4215.50	
Recorder	1.00			4216.50	
Bullnose	3.00			4219.50	554.50 Bottom Packers & Anchor
Total Tool Length:	607.50				



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FLUID SUMMARY

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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: 45.00 sec/qt

Cushion Volume: bbl

Water Loss: 10.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mud	0.443

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:

