



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

Nancy #1-17

17/17S/13W/Barton

Start Date: 2013.08.19 @ 16:59:00

End Date: 2013.08.20 @ 01:15:00

Job Ticket #: 17606 DST #: 1

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

Printed: 2013.08.20 @ 01:41:07



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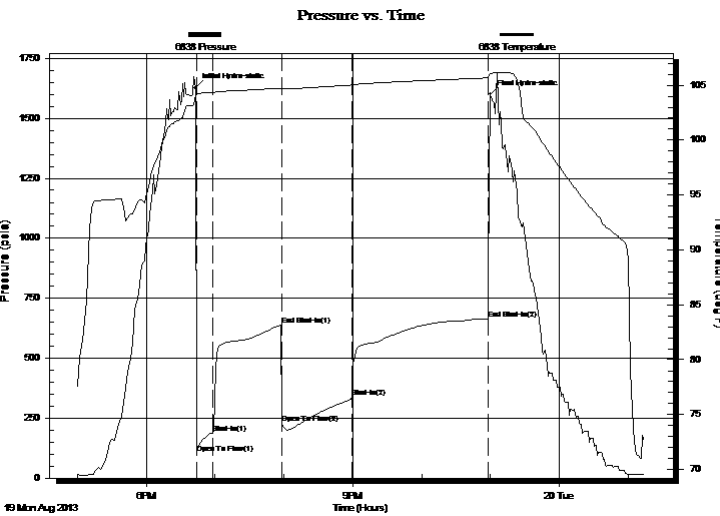
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Nancy #1-17
 Job Ticket: 17606 **DST#: 1**
 Test Start: 2013.08.19 @ 16:59:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:43:30
 Time Test Ended: 01:15:00
 Interval: **3228.00 ft (KB) To 3287.00 ft (KB) (TVD)**
 Total Depth: 3287.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/32
 Reference Elevations: 1992.00 ft (KB)
 1979.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6838 Outside
 Press @ Run Depth: 664.61 psia @ 3284.32 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.19 End Date: 2013.08.20 Last Calib.: 2013.08.20
 Start Time: 16:59:00 End Time: 01:15:00 Time On Btm: 2013.08.19 @ 18:42:30
 Time Off Btm: 2013.08.19 @ 23:00:00

TEST COMMENT: 1ST Open 15 Minutes/Strong blow /Blow built to bottom of bucket in 3 minutes
 1ST Shut In 60 Minutes/Blow back built to bottom of bucket in 7 minutes
 2ND Open 60 Minutes/Strong blow /Built to bottom bucket in 3 1/2 min/Gas surface 45 min/To weak to guage
 2ND Shu In 120 Minutes/Blow back built to bottom of bucket in 4 minutes



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1626.58	104.17	Initial Hydro-static
1	105.28	104.18	Open To Flow (1)
16	187.87	104.32	Shut-In(1)
76	639.73	104.74	End Shut-In(1)
76	227.54	104.65	Open To Flow (2)
137	335.68	105.02	Shut-In(2)
256	664.61	105.67	End Shut-In(2)
258	1600.44	106.06	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
300.00	Mud cut Gassy Oil(20% emulsified)	1.48
0.00	Mud 5% Gas 20% Oil 75%	0.00
504.00	Mud cut Oily Gas	6.80
0.00	Mud 10% Oil 40% Gas 50%	0.00
0.00	Corrected Grav. Oil 39	0.00

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 2899.00 ft	Diameter: 3.80 inches	Volume: 40.67 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 42.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3228.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.32 ft			
Tool Length:	86.32 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			3206.00	
Hydraulic Tool	5.00			3211.00	
Jars	5.00			3216.00	
Safety Joint	2.00			3218.00	
Packer	5.00			3223.00	27.00 Bottom Of Top Packer
Packer	5.00			3228.00	
Perforations	6.00			3234.00	
Change Over Sub	0.75			3234.75	
Drill Pipe	31.82			3266.57	
Change Over Sub	0.75			3267.32	
Anchor	15.00			3282.32	
Recorder	1.00	6749	Inside	3283.32	
Recorder	1.00	6838	Outside	3284.32	
Bullnose	3.00			3287.32	59.32 Bottom Packers & Anchor

Total Tool Length: 86.32



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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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	Mud cut Gassy Oil(20% emulsified)	1.475
0.00	Mud 5% Gas 20% Oil 75%	0.000
504.00	Mud cut Oily Gas	6.797
0.00	Mud 10% Oil 40% Gas 50%	0.000
0.00	Corrected Grav. Oil 39	0.000

Total Length: 804.00 ft Total Volume: 8.272 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

