



DRILL STEM TEST REPORT

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

2117 anal Blvd Hays KS 676601

ATTN: Jeremy Schwartz

Hickey 1-2

2-18-14w Barton

Start Date: 2014.07.02 @ 05:00:00

End Date: 2014.07.02 @ 11:47:30

Job Ticket #: 18593 DST #: 2

Superior Testers Enterprises LLC
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 Test Start: 2014.07.02 @ 05:00:00

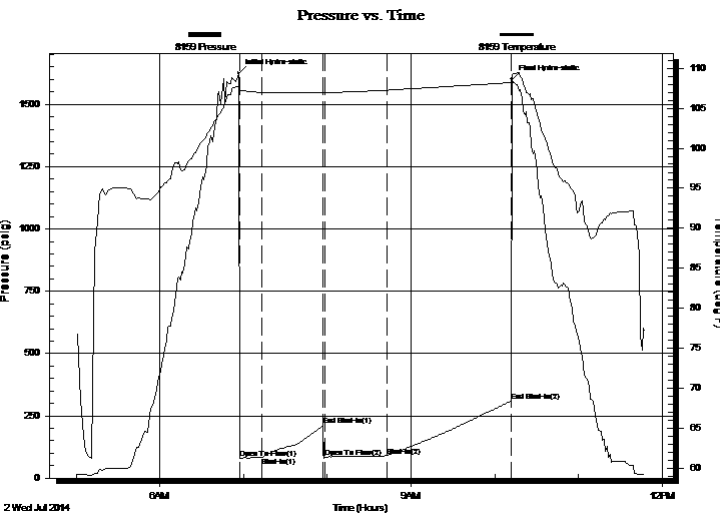
GENERAL INFORMATION:

Formation: **Lansing H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:57:30
 Time Test Ended: 11:47:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3330-Great Bend- 30
 Interval: **3237.00 ft (KB) To 3335.00 ft (KB) (TVD)**
 Total Depth: 3335.00 ft (KB) (TVD)
 Reference Elevations: 1986.00 ft (KB)
 1977.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 9.00 ft

Serial #: 8159

Press@RunDepth: 89.80 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.02 End Date: 2014.07.02 Last Calib.: 2014.07.02
 Start Time: 05:00:00 End Time: 11:47:30 Time On Btm: 2014.07.02 @ 06:56:30
 Time Off Btm: 2014.07.02 @ 10:12:30

TEST COMMENT: 1st Opening 15 Minutes:Weak building blow built 3 1/2 inches into water in 15 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opneing 45 Minutes-Weak building blow built 10 inches into water in 45 minutes
 2ns Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.38	107.56	Initial Hydro-static
1	78.26	107.22	Open To Flow (1)
17	82.67	106.97	Shut-In(1)
61	211.51	106.99	End Shut-In(1)
62	84.40	106.95	Open To Flow (2)
106	89.80	107.26	Shut-In(2)
195	308.04	108.20	End Shut-In(2)
196	1600.07	109.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gas oil cut mud 10%gas 10%oil 80%mud	0.15
0.00	30 gas in pipe	0.00

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

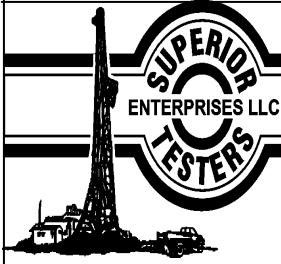
Drill Pipe:	Length: 3030.00 ft	Diameter: 3.80 inches	Volume: 42.50 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 43.53 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	3237.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	126.00 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			3214.00	
Hydraulic tool	5.00			3219.00	
Jars	6.00			3225.00	
Safety Joint	2.00			3227.00	
Packer	5.00			3232.00	28.00 Bottom Of Top Packer
Packer	5.00			3237.00	
Anchor	4.00			3241.00	
Change Over Sub	0.75			3241.75	
Drill Pipe	63.50			3305.25	
Change Over Sub	0.75			3306.00	
Anchor	24.00			3330.00	
Recorder	1.00	8159	Inside	3331.00	
Recorder	1.00	8524	Outside	3332.00	
Bulk Plug	3.00			3335.00	98.00 Bottom Packers & Anchor

Total Tool Length: 126.00



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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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	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
30.00	gas oil cut mud 10%gas 10%oil 80%mud	0.148
0.00	30 gas in pipe	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

