



DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration L.L.C**
133 N Glendale Wichita KS 67206

ATTN: Derek Patterson

Helmerts#1-1

1-22s-12w Stafford

Start Date: 2012.05.07 @ 17:27:00

End Date: 2012.05.07 @ 22:37:30

Job Ticket #: 17135 DST #: 1

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

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 Test Start: 2012.05.07 @ 17:27:00

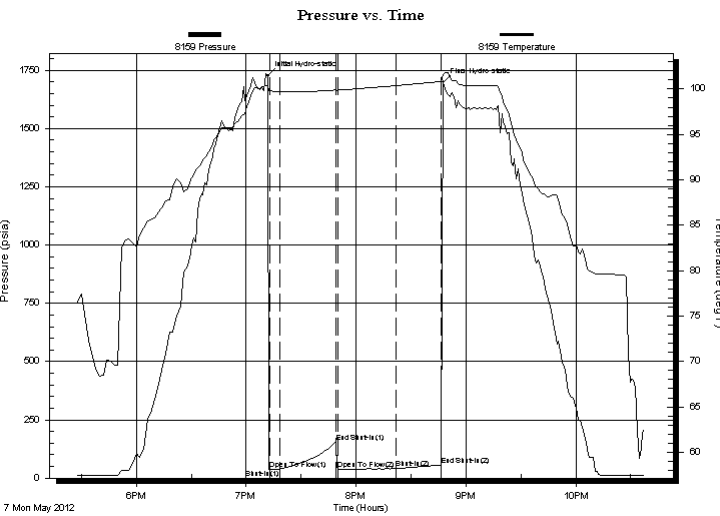
GENERAL INFORMATION:

Formation: **Lansing ' H '**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:13:00
 Time Test Ended: 22:37:30
 Interval: **3352.00 ft (KB) To 3372.00 ft (KB) (TVD)**
 Total Depth: 3372.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press @ RunDepth: 40.82 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.07 End Date: 2012.05.07 Last Calib.: 2012.05.07
 Start Time: 17:27:00 End Time: 22:37:30 Time On Btm: 2012.05.07 @ 19:12:00
 Time Off Btm: 2012.05.07 @ 20:47:30

TEST COMMENT: 1st Open 5 Minutes-Very weak blow built 1/4 inch into water in 5 minutes
 1st Shut-in 30 Minutes No blow back
 2nd Open 30 Minutes-Very weak surge did not built
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1726.31	100.36	Initial Hydro-static
1	39.20	99.81	Open To Flow (1)
7	39.19	99.67	Shut-In(1)
37	155.85	99.91	End Shut-In(1)
38	39.03	99.88	Open To Flow (2)
70	40.82	100.37	Shut-In(2)
95	56.79	100.82	End Shut-In(2)
96	1697.80	101.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



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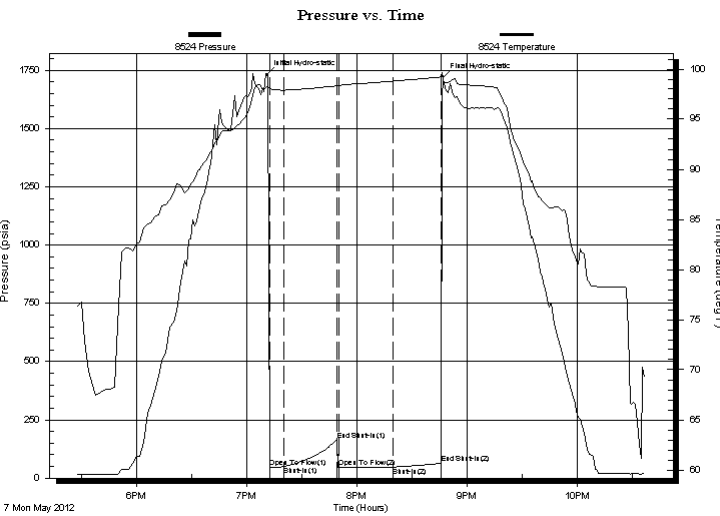
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 Tester: Jared Scheck
 Unit No: 3320-50-Great Bend
 Reference Elevations: 1814.00 ft (KB)
 1807.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8524

Press @ RunDepth: 63.39 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.05.07 End Date: 2012.05.07 Last Calib.: 2012.05.07
 Start Time: 17:27:00 End Time: 22:37:00 Time On Btm: 2012.05.07 @ 19:11:00
 Time Off Btm: 2012.05.07 @ 20:47:00

TEST COMMENT: 1st Open 5 Minutes-Very weak blow built 1/4 inch into water in 5 minutes
 1st Shut-in 30 Minutes No blow back
 2nd Open 30 Minutes-Very weak surge did not built
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1731.28	98.23	Initial Hydro-static
2	45.77	98.04	Open To Flow (1)
9	49.39	97.90	Shut-In(1)
38	163.69	98.33	End Shut-In(1)
39	46.66	98.37	Open To Flow (2)
69	47.05	98.80	Shut-In(2)
95	63.39	99.20	End Shut-In(2)
96	1719.67	98.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



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TOOL DIAGRAM

Valhalla Exploration L.L.C
 133 N Glendale Wichita KS 67206
 A T T N : Derek Patterson

1-22s-12w Stafford
Helmerts#1-1
 Job Ticket: 17135 **DST#: 1**
 Test Start: 2012.05.07 @ 17:27:00

Tool Information

Drill Pipe:	Length: 3219.00 ft	Diameter: 3.80 inches	Volume: 45.15 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3352.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3329.00	
Hydraulic Tool	5.00			3334.00	
Jars	6.00			3340.00	
Safety Joint	2.00			3342.00	
Packer	5.00			3347.00	28.00 Bottom Of Top Packer
Packer	5.00			3352.00	
Anchor	15.00			3367.00	
Recorder	1.00	8159	Inside	3368.00	
Recorder	1.00	8524	Outside	3369.00	
Bullnose	3.00			3372.00	20.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



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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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

