



DRILL STEM TEST REPORT

Prepared For: **Valhalla Exploration LLC.**

133 North Glendale ST.
Wichita Kansas 67208

ATTN: Adam Kennedy

Morgenstern #1-33

33-17s-13w-Barton

Start Date: 2012.10.13 @ 11:36:00

End Date: 2012.10.13 @ 17:29:30

Job Ticket #: 17856 DST #: 1

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

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DRILL STEM TEST REPORT

Valhalla Exploration LLC.
 133 North Glendale ST.
 Wichita Kansas 67208
 ATTN: Adam Kennedy

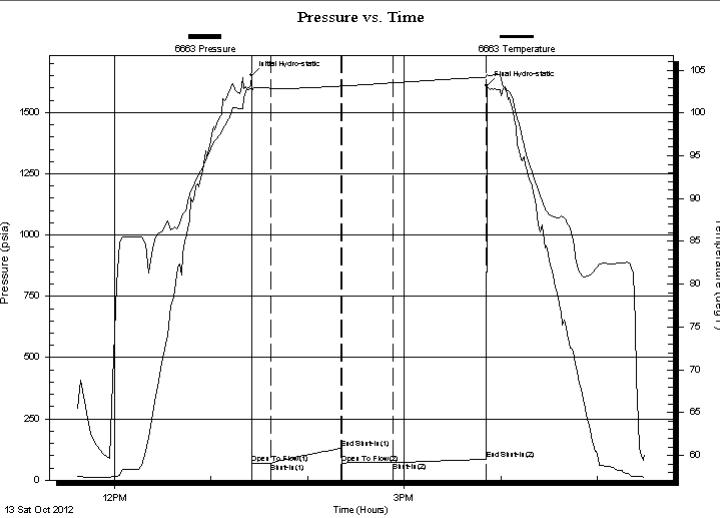
33-17s-13w-Barton
Morgenstern #1-33
 Job Ticket: 17856 **DST#: 1**
 Test Start: 2012.10.13 @ 11:36:00

GENERAL INFORMATION:

Formation: **Lansing H-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:26:00 Tester: Dustin Ellis
 Time Test Ended: 17:29:30 Unit No: 3315-Great Bend-25
 Interval: **3260.00 ft (KB) To 3335.00 ft (KB) (TVD)** Reference Elevations: 1877.00 ft (KB)
 Total Depth: 3335.00 ft (KB) (TVD) 1869.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6663 Inside
 Press @ RunDepth: 85.19 psia @ 3331.98 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.13 End Date: 2012.10.13 Last Calib.: 2012.10.14
 Start Time: 11:36:00 End Time: 17:29:30 Time On Btm: 2012.10.13 @ 13:25:00
 Time Off Btm: 2012.10.13 @ 15:51:30

TEST COMMENT: 1st Open 10 minutes Weak surface blow
 1st Shut in 45 minutes No blow back
 2nd Open 30 minutes Weak surface blow died off after 7 minutes.
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1652.14	102.80	Initial Hydro-static
1	66.84	102.51	Open To Flow (1)
12	69.33	102.90	Shut-In(1)
56	129.45	103.16	End Shut-In(1)
57	70.21	103.15	Open To Flow (2)
88	71.07	103.52	Shut-In(2)
146	85.19	104.20	End Shut-In(2)
147	1609.73	104.51	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Very lightly oil spotted mud 100%	0.07

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



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TOOL DIAGRAM

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DST#: 1

ATTN: Adam Kennedy

Test Start: 2012.10.13 @ 11:36:00

Tool Information

Drill Pipe:	Length: 3271.00 ft	Diameter: 3.80 inches	Volume: 45.88 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.88 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3260.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.98 ft			
Tool Length:	95.98 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			3245.00	
Hydraulic Tool	5.00			3250.00	
Packer	5.00			3255.00	20.00 Bottom Of Top Packer
Packer	5.00			3260.00	
Anchor	6.00			3266.00	
Change Over Sub	0.75			3266.75	
Drill Pipe	31.48			3298.23	
Change Over Sub	0.75			3298.98	
Anchor	32.00			3330.98	
Recorder	1.00	6663	Inside	3331.98	
Recorder	1.00	8400	Outside	3332.98	
Bull Plug	3.00			3335.98	75.98 Bottom Packers & Anchor

Total Tool Length: 95.98



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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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Very lightly oil spotted mud 100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

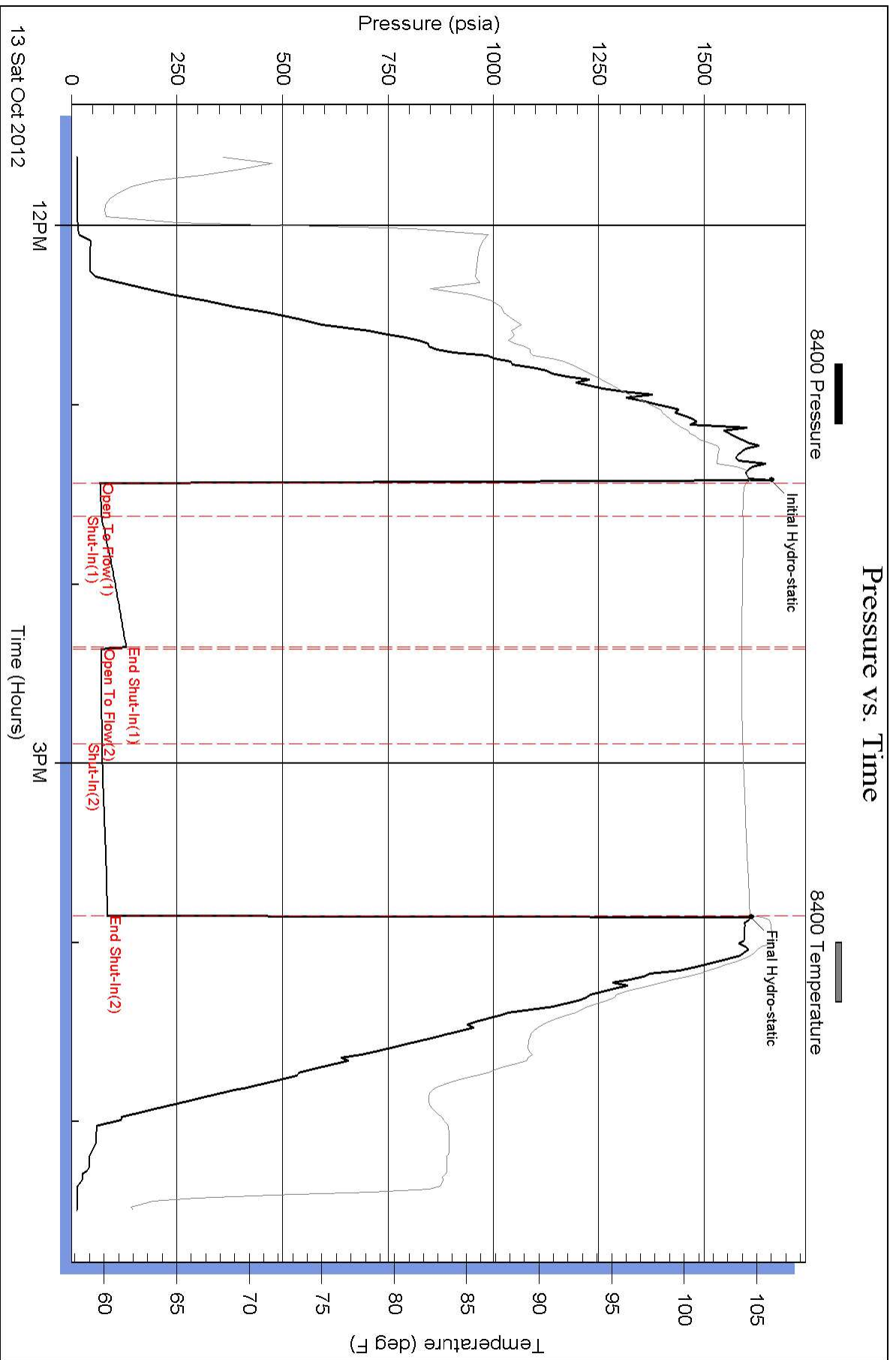
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

