



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

1700 N Waterfront Parkway
Building 600
Wichita, KS 67206+5514

ATTN: Steve Stribling

33/13S/31W/Gove

Hess 2-33

Start Date: 2011.06.07 @ 21:40:00

End Date: 2011.06.08 @ 07:36:30

Job Ticket #: 15799 DST #: 9

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

Printed: 2011.06.08 @ 08:29:04

Grand Mesa Operating
Hess 2-33
33/13S/31W/Gove
DST # 9
Johnson
2011.06.07



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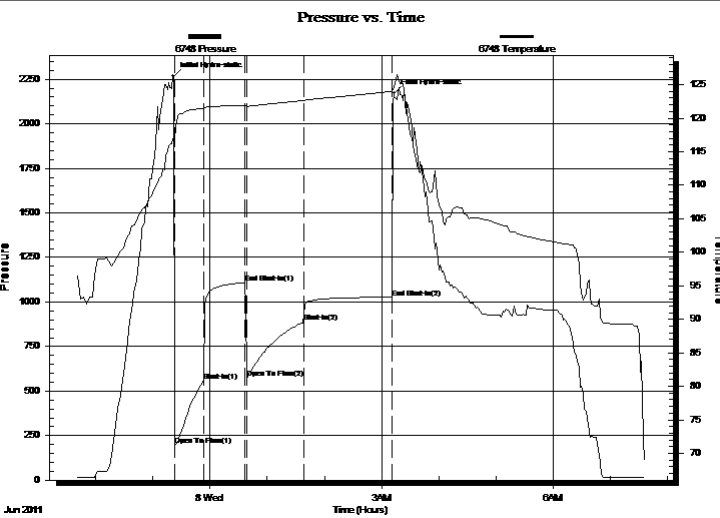
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GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 23:23:00 Tester: Ken Swinney
 Time Test Ended: 07:36:30 Unit No: 3325 Scott City/94
 Interval: **4436.00 ft (KB) To 4493.00 ft (KB) (TVD)** Reference Elevations: 2877.00 ft (KB)
 Total Depth: 4493.00 ft (KB) (TVD) 2872.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6748 Outside
 Press @ Run Depth: 885.09 psig @ 4490.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2011.06.07 End Date: 2011.06.08 Last Calib.: 2011.06.08
 Start Time: 21:41:00 End Time: 07:36:30 Time On Btm: 2011.06.07 @ 23:21:30
 Time Off Btm: 2011.06.08 @ 03:13:00

TEST COMMENT: 1ST Open 30 Minutes/Good blow/Blow built to bottom of bucket in 2 minutes
 1ST Shut In 45 Minutes/Blow back built to bottom of bucket in 22 minutes
 2ND Open 60 Minutes/Good blow/Blow built to bottom of bucket in 2 minutes
 2ND Shut In 90 Minutes/Blow back built to 2 inches in 20 minutes/died off 30 minutes later



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.65	117.07	Initial Hydro-static
2	195.85	116.60	Open To Flow (1)
32	556.91	121.43	Shut-In(1)
75	1108.03	121.95	End Shut-In(1)
77	574.86	121.77	Open To Flow (2)
137	885.09	122.63	Shut-In(2)
229	1020.63	123.98	End Shut-In(2)
232	2171.05	124.56	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
680.00	Gas in pipe 100% gas	8.78
2200.00	Gassy oil 15% gas 85% oil	32.17
120.00	Mud cut oil 30% Mud 70% Oil	1.75
0.00	gravity below 30	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: 4305.00 ft	Diameter: 3.88 inches	Volume: 62.96 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 63.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.75 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4436.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.75 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			4412.25	
Hydraulic tool	5.00			4417.25	
Change over sub	0.75			4418.00	
Jars	6.00			4424.00	
Safety Joint	2.00			4426.00	
Packer	5.00			4431.00	28.75 Bottom Of Top Packer
Packer	5.00			4436.00	
Anchor	5.00			4441.00	
change over sub	0.75			4441.75	
drill pipe	31.50			4473.25	
change over sub	0.75			4474.00	
anchor	14.00			4488.00	
Recorder	1.00	6749	Inside	4489.00	
Recorder	1.00	6748	Outside	4490.00	
bull plug	3.00			4493.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.75



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 55.00 sec/qt
 Water Loss: 7.99 in³
 Resistivity: ohm.m
 Salinity: 6000.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psig

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
680.00	Gas in pipe 100% gas	8.780
2200.00	Gassy oil 15% gas 85% oil	32.173
120.00	Mud cut oil 30% Mud 70% Oil	1.755
0.00	gravity below 30	0.000

Total Length: 3000.00 ft Total Volume: 42.708 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity of oil 29
 Circulating Sub Yes

Pressure vs. Time

