



## 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: 2011.05.31 @ 22:00:00

End Date: 2011.06.01 @ 04:58:30

Job Ticket #: 15791                      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

Grand Mesa Operating  
 1700 N Waterfront Parkway  
 Building 600  
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 ATTN: Steve Stribling

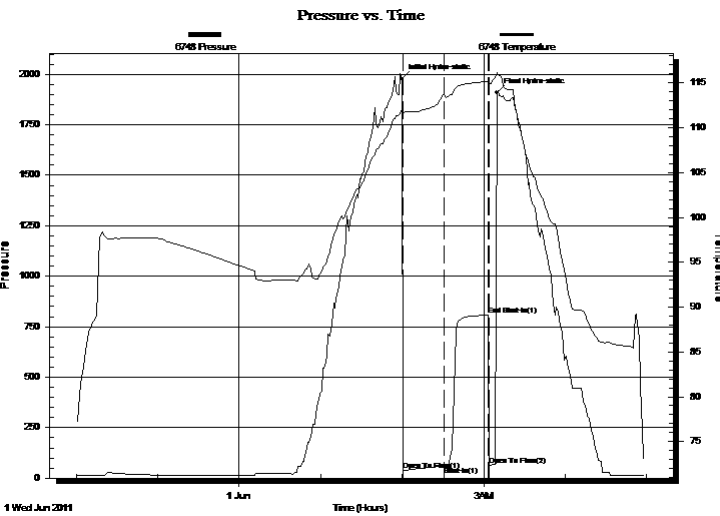
**Hess 2-33**  
**33/13S/31W/Gove**  
 Job Ticket: 15791 **DST#: 1**  
 Test Start: 2011.05.31 @ 22:00:00

## GENERAL INFORMATION:

Formation: **Lansing Zone C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:00:30  
 Time Test Ended: 04:58:30  
 Interval: **3946.00 ft (KB) To 3963.00 ft (KB) (TVD)**  
 Total Depth: 3963.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325/Scott City/94  
 Reference Elevations: 2877.00 ft (KB)  
 2872.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6748 Inside**  
 Press @ Run Depth: 60.40 psig @ 3959.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2011.05.31 End Date: 2011.06.01 Last Calib.: 2011.05.31  
 Start Time: 22:01:00 End Time: 04:58:30 Time On Btm: 2011.06.01 @ 01:59:30  
 Time Off Btm: 2011.06.01 @ 03:09:30

TEST COMMENT: 1ST Open 30 Minutes weak surface blow died after 5 mins  
 1ST Shut In 30 Minutes no blow back  
 2ND Open



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.24	112.05	Initial Hydro-static
1	36.67	111.68	Open To Flow (1)
31	60.40	113.82	Shut-In(1)
64	807.01	115.14	End Shut-In(1)
65	64.74	114.94	Open To Flow (2)
71	1909.20	116.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	MUD WITH SHOW OF OIL/95% MUD 5% CO.30	

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





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**TOOL DIAGRAM**

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**33/13S/31W/Gove**

Job Ticket: 15791

**DST#: 1**

Test Start: 2011.05.31 @ 22:00:00

## Tool Information

Drill Pipe:	Length: 3800.00 ft	Diameter: 3.88 inches	Volume: 55.57 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: 56.16 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3946.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	46.00 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			3922.00	
Hydraulic tool	5.00			3927.00	
Change over sub	1.00			3928.00	
Jars	6.00			3934.00	
Safety Joint	2.00			3936.00	
Packer	5.00			3941.00	29.00 Bottom Of Top Packer
Packer	5.00			3946.00	
Anchor	12.00			3958.00	
Recorder	1.00	6748	Inside	3959.00	
Recorder	1.00	6651	Outside	3960.00	
Bullnose	3.00			3963.00	17.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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Test Start: 2011.05.31 @ 22:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.99 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MUD WITH SHOW OF OIL/95% MUD 5% OIL	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6748

Inside

Grand Mesa Operating

33/13S31W/Gove

DST Test Number: 1

### Pressure vs. Time

