



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: 2011.06.01 @ 07:15:00

End Date: 2011.06.01 @ 14:17:30

Job Ticket #: 15792 DST #: 2

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

Printed: 2011.06.02 @ 19:04:57

Grand Mesa Operating
Hess 2-33
33/13S/31W/Gove
DST # 2
LANSING ZONE D
2011.06.01



DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Hess 2-33

1700 N Waterfront Parkway
 Building 600
 Wichita, KS 67206+5514
 ATTN: Steve Stribling

33/13S/31W/Gove

Job Ticket: 15792

DST#: 2

Test Start: 2011.06.01 @ 07:15:00

Tool Information

Drill Pipe:	Length: 3815.00 ft	Diameter: 3.88 inches	Volume: 55.79 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 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:	62000.00 lb
			<u>Total Volume: 56.38 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3961.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	41.00 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			3937.00	
Hydraulic tool	5.00			3942.00	
Change over sub	1.00			3943.00	
Jars	6.00			3949.00	
Safety Joint	2.00			3951.00	
Packer	5.00			3956.00	29.00 Bottom Of Top Packer
Packer	5.00			3961.00	
Anchor	7.00			3968.00	
Recorder	1.00	6749	Inside	3969.00	
Recorder	1.00	6651	Outside	3970.00	
Bullnose	3.00			3973.00	12.00 Bottom Packers & Anchor

Total Tool Length: 41.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Hess 2-33

1700 N Waterfront Parkway
 Building 600
 Wichita, KS 67206+5514
 ATTN: Steve Stribling

33/13S/31W/Gove

Job Ticket: 15792

DST#: 2

Test Start: 2011.06.01 @ 07:15:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 54.00 sec/qt
 Water Loss: 7.19 in³
 Resistivity: ohm.m
 Salinity: 3000.00 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
120.00	OIL AND WATER CUT MUD	0.590
0.00	15% WATER 20% OIL 65% MUD	0.000
120.00	MUDDY WATER CUT OIL	1.755
0.00	15% WATER 20% MUD 65% OIL	0.000

Total Length: 240.00 ft Total Volume: 2.345 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RECOVERY CHLORIDES 39000 PPM

Pressure vs. Time



