



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Inc**

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

ATTN: Steve Striebling

34/12S/32W/Gove

Dale 2-34

Start Date: 2011.06.28 @ 08:53:00

End Date: 2011.06.28 @ 14:46:30

Job Ticket #: 16592 DST #: 1

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

Printed: 2011.06.30 @ 09:05:18



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Job Ticket: 16592

DST#: 1

Test Start: 2011.06.28 @ 08:53:00

GENERAL INFORMATION:

Formation: **Lansing Zone D,E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:55:30

Time Test Ended: 14:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/72

Interval: **4096.00 ft (KB) To 4111.00 ft (KB) (TVD)**

Reference Elevations: 2995.00 ft (KB)

Total Depth: 4111.00 ft (KB) (TVD)

2990.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **6748** Outside

Press @ RunDepth: 49.32 psig @ 4108.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.06.28 End Date: 2011.06.28

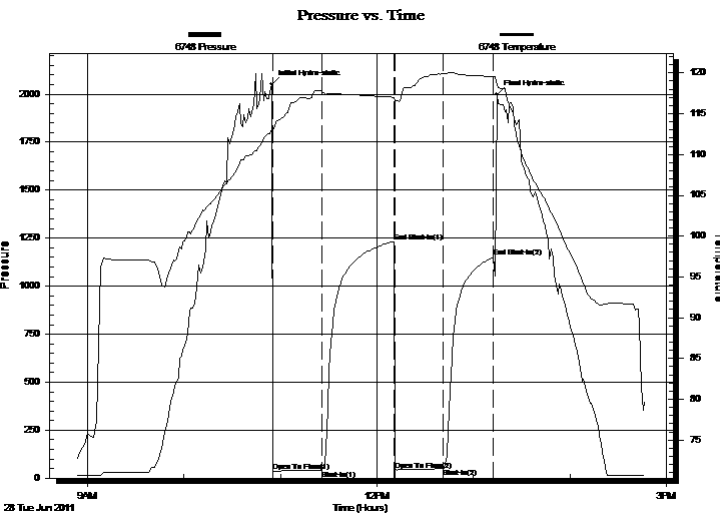
Last Calib.: 2011.06.28

Start Time: 08:54:00 End Time: 14:46:30

Time On Btm: 2011.06.28 @ 10:54:30

Time Off Btm: 2011.06.28 @ 13:14:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1/2 inch
 1ST Shut In 45 Minutes/No Blow Back
 2ND Open 30 Minutes/No Blow
 2ND Shut In 30 Minutes/No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.33	113.09	Initial Hydro-static
1	37.04	112.90	Open To Flow (1)
32	41.67	117.63	Shut-In(1)
76	1231.79	117.02	End Shut-In(1)
77	43.44	116.63	Open To Flow (2)
107	49.32	119.89	Shut-In(2)
138	1150.75	119.58	End Shut-In(2)
140	1999.21	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil cut Mud 5% Oil 95% Mud	0.02

Gas Rates

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



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 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:55:30
 Time Test Ended: 14:46:30
 Interval: **4096.00 ft (KB) To 4111.00 ft (KB) (TVD)**
 Total Depth: 4111.00 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/72
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 KB to GR/CF: 5.00 ft

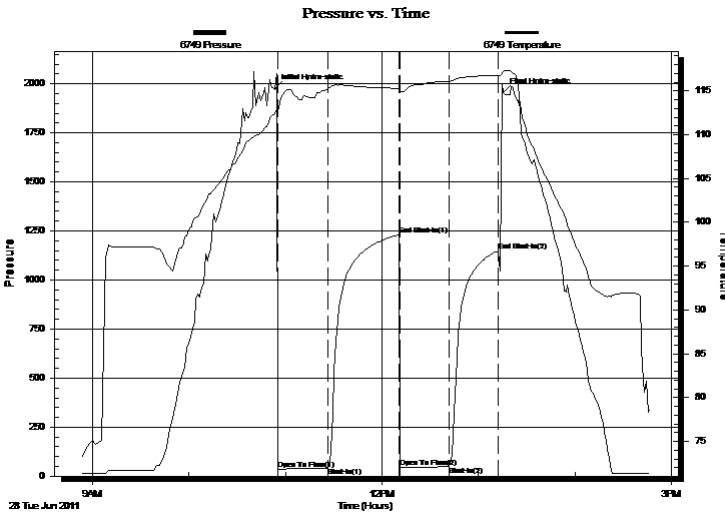
Serial #: 6749

Inside

Press @ Run Depth: 1148.57 psig @ 4107.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2011.06.28 End Date: 2011.06.28 Last Calib.: 2011.06.28
 Start Time: 08:54:00 End Time: 14:47:00 Time On Btm: 2011.06.28 @ 10:53:30
 Time Off Btm: 2011.06.28 @ 13:15:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1/2 inch
 1ST Shut In 45 Minutes/No Blow Back
 2ND Open 30 Minutes/No Blow
 2ND Shut In 30 Minutes/No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.03	112.40	Initial Hydro-static
2	36.30	112.64	Open To Flow (1)
33	45.46	115.25	Shut-In(1)
77	1231.19	115.30	End Shut-In(1)
78	43.00	114.91	Open To Flow (2)
108	48.13	116.09	Shut-In(2)
139	1148.57	116.79	End Shut-In(2)
142	1955.21	117.25	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Oil cut Mud 5% Oil 95% Mud	0.02

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



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TOOL DIAGRAM

Grand Mesa Operating Inc

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Job Ticket: 16592

DST#: 1

Test Start: 2011.06.28 @ 08:53:00

Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.88 inches	Volume: 57.96 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: 64000.00 lb
			<u>Total Volume: 58.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4096.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	44.00 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			4072.00	
Hydraulic tool	5.00			4077.00	
Change over sub	1.00			4078.00	
Jars	6.00			4084.00	
Safety Joint	2.00			4086.00	
Packer	5.00			4091.00	29.00 Bottom Of Top Packer
Packer	5.00			4096.00	
Anchor	10.00			4106.00	
Recorder	1.00	6749	Inside	4107.00	
Recorder	1.00	6748	Outside	4108.00	
Bullnose	3.00			4111.00	15.00 Bottom Packers & Anchor

Total Tool Length: 44.00



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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: 8.78 in³
 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: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil cut Mud 5% Oil 95% Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

