



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: 2011.06.29 @ 14:20:00

End Date: 2011.06.30 @ 00:06:00

Job Ticket #: 16593 DST #: 2

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

Printed: 2011.06.30 @ 09:26:01



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DST#: 2

Test Start: 2011.06.29 @ 14:20:00

GENERAL INFORMATION:

Formation: **Lansing Zones H,I,J,**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:50:00

Time Test Ended: 00:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/72

Interval: 4165.00 ft (KB) To 4292.00 ft (KB) (TVD)

Reference Elevations: 2995.00 ft (KB)

Total Depth: 4292.00 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: 126.43 psig @ 4289.10 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.06.29

End Date: 2011.06.30

Last Calib.: 2011.06.29

Start Time: 14:21:00

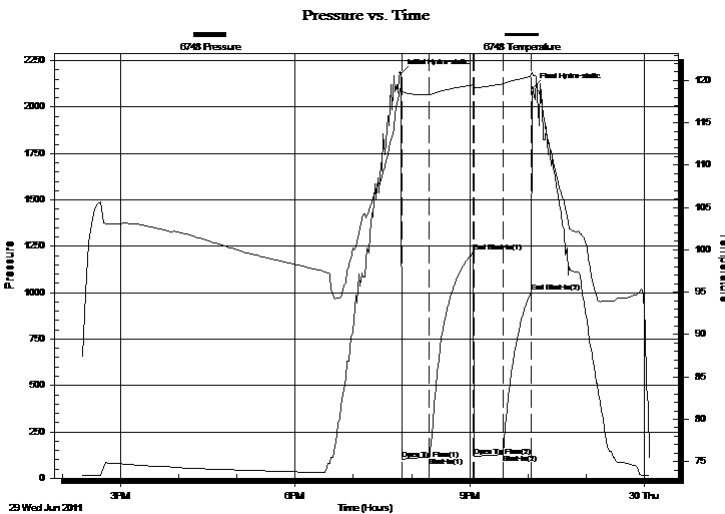
End Time: 00:06:00

Time On Btm: 2011.06.29 @ 19:49:00

Time Off Btm: 2011.06.29 @ 22:05:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow/Blow built to 3/4 inch
 1ST Shut In 45 Minutes/No blow back
 2ND Open 30 Minutes/Very weak surface blow/Blow did not build
 2ND Shut In 30 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.89	119.25	Initial Hydro-static
1	100.08	118.67	Open To Flow (1)
30	114.49	118.33	Shut-In(1)
76	1217.10	119.50	End Shut-In(1)
76	118.00	119.20	Open To Flow (2)
105	126.43	119.59	Shut-In(2)
134	1001.11	120.44	End Shut-In(2)
136	2104.26	120.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100%	0.30

Gas Rates

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



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Reference Elevations: 2995.00 ft (KB)

Total Depth: 4292.00 ft (KB) (TVD)

2990.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749

Inside

Press @ RunDepth: 1004.51 psig @ 4288.10 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.06.29

End Date: 2011.06.30

Last Calib.: 2011.06.29

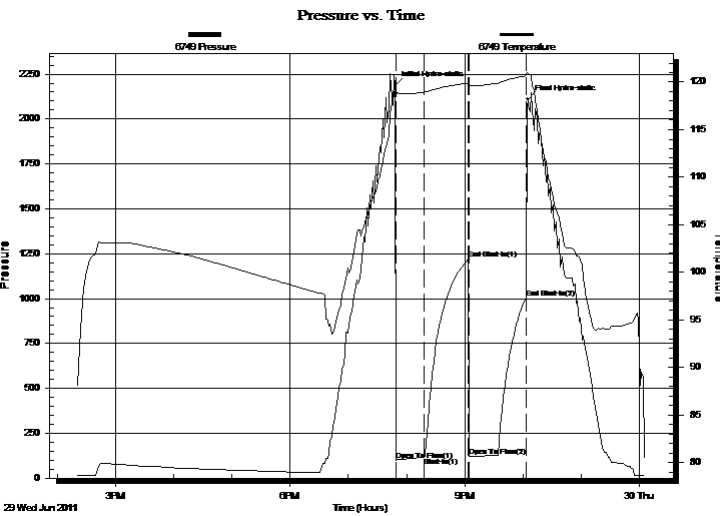
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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.68	119.33	Initial Hydro-static
1	99.08	118.48	Open To Flow (1)
30	115.33	118.90	Shut-In(1)
76	1219.17	119.92	End Shut-In(1)
77	118.98	119.62	Open To Flow (2)
135	1004.51	120.66	End Shut-In(2)
137	2110.66	120.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100%	0.30

Gas Rates

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



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TOOL DIAGRAM

Grand Mesa Operating Inc

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Tool Information

Drill Pipe:	Length: 4024.00 ft	Diameter: 3.88 inches	Volume: 58.85 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: 59.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.75 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4165.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	127.10 ft			
Tool Length:	155.85 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			4141.25	
Hydraulic tool	5.00			4146.25	
Change over sub	0.75			4147.00	
Jars	6.00			4153.00	
Safety Joint	2.00			4155.00	
Packer	5.00			4160.00	28.75 Bottom Of Top Packer
Packer	5.00			4165.00	
Anchor	5.00			4170.00	
change over sub	0.75			4170.75	
drill pipe	93.60			4264.35	
change over sub	0.75			4265.10	
anchor	22.00			4287.10	
Recorder	1.00	6749	Inside	4288.10	
Recorder	1.00	6748	Outside	4289.10	
bull plug	3.00			4292.10	127.10 Bottom Packers & Anchor

Total Tool Length: 155.85



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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: 66.00 sec/qt

Water Loss: 7.99 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:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud 100%	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

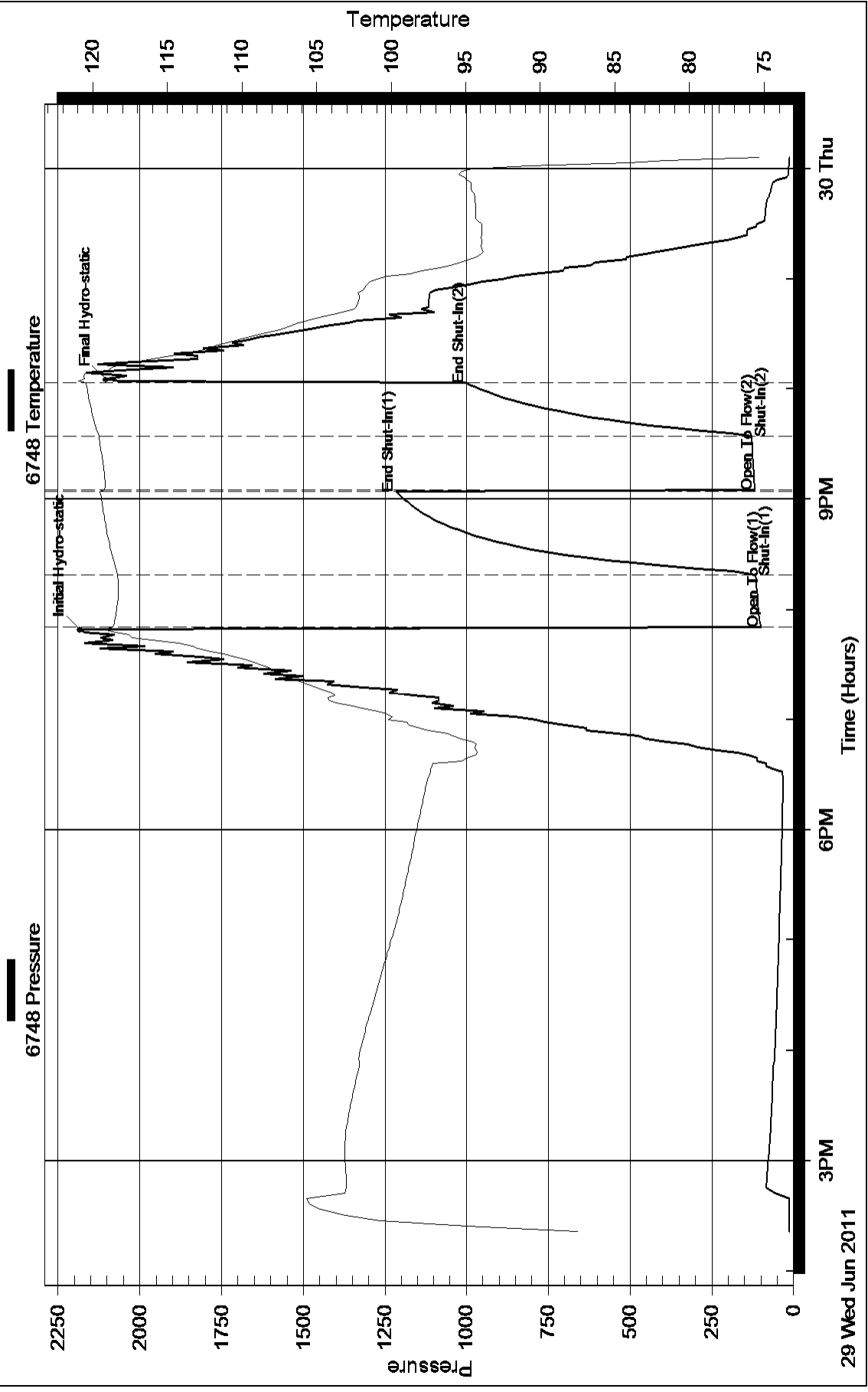
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

6749 Pressure

6749 Temperature

