



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

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

ATTN: Steve Stribling

9/14S/31W/Gove

Hund 3-9

Start Date: 2011.07.14 @ 07:13:00

End Date: 2011.07.14 @ 13:02:30

Job Ticket #: 16597 DST #: 3

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

Printed: 2011.07.14 @ 11:29:17

Grand Mesa Operating Co.
Hund 3-9
9/14S/31W/Gove
DST # 3
Upper Johnson
2011.07.14



DRILL STEM TEST REPORT

Grand Mesa Operating Co.

Hund 3-9

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 ATTN: Steve Stribling

9/14S/31W/Gove

Job Ticket: 16597

DST#: 3

Test Start: 2011.07.14 @ 07:13:00

GENERAL INFORMATION:

Formation: **Upper Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:09:00

Time Test Ended: 13:02:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/64

Interval: 4542.00 ft (KB) To 4574.00 ft (KB) (TVD)

Reference Elevations: 2937.00 ft (KB)

Total Depth: 4574.00 ft (KB) (TVD)

2932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6748 Outside

Press @ Run Depth: 46.60 psig @ 4571.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.07.14

End Date: 2011.07.14

Last Calib.: 2011.07.14

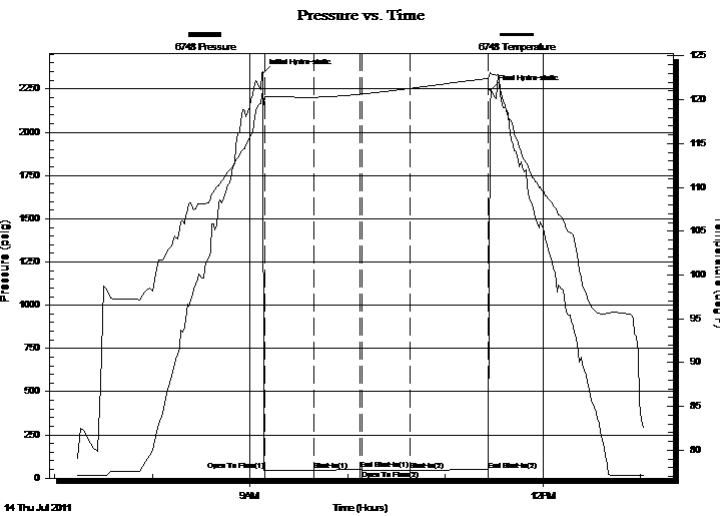
Start Time: 07:13:00

End Time: 13:02:30

Time On Btm: 2011.07.14 @ 09:08:00

Time Off Btm: 2011.07.14 @ 11:28:00

TEST COMMENT: 1ST Open 30 Minutes/5 minutes to start weak surface blow/Blow did not build/Blow died 13 minutes later
 1ST Shut In 30 Minutes/No blow back
 2ND Open 30 Minutes/No blow
 2ND Shut In 45 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.09	120.88	Initial Hydro-static
1	44.93	120.33	Open To Flow (1)
32	45.72	120.29	Shut-In(1)
60	49.78	120.63	End Shut-In(1)
61	46.56	120.65	Open To Flow (2)
90	46.60	121.29	Shut-In(2)
139	48.17	122.45	End Shut-In(2)
140	2246.22	122.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Trace of oil in tool on top of mud	0.00

Gas Rates

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



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Reference Elevations: 2937.00 ft (KB)

Total Depth: 4574.00 ft (KB) (TVD)

2932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749 Inside

Press @ Run Depth: 48.26 psig @ 4570.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.07.14

End Date:

2011.07.14

Last Calib.:

2011.07.14

Start Time:

07:13:00

End Time:

13:02:30

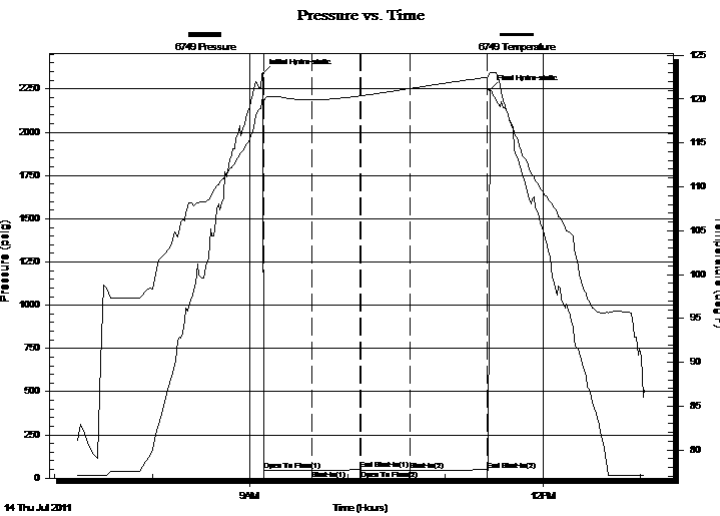
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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.57	120.22	Initial Hydro-static
1	43.98	119.78	Open To Flow (1)
30	45.96	119.89	Shut-In(1)
60	48.67	120.36	End Shut-In(1)
60	45.42	120.37	Open To Flow (2)
90	45.70	121.19	Shut-In(2)
138	48.26	122.49	End Shut-In(2)
140	2244.36	123.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Trace of oil in tool on top of mud	0.00

Gas Rates

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



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TOOL DIAGRAM

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Job Ticket: 16597

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Tool Information

Drill Pipe:	Length: 4398.00 ft	Diameter: 3.88 inches	Volume: 64.32 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:	68000.00 lb
			<u>Total Volume: 64.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4542.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	61.00 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			4518.00	
Hydraulic tool	5.00			4523.00	
Change over sub	1.00			4524.00	
Jars	6.00			4530.00	
Safety Joint	2.00			4532.00	
Packer	5.00			4537.00	29.00 Bottom Of Top Packer
Packer	5.00			4542.00	
Anchor	27.00			4569.00	
Recorder	1.00	6749	Inside	4570.00	
Recorder	1.00	6748	Outside	4571.00	
Bullnose	3.00			4574.00	32.00 Bottom Packers & Anchor

Total Tool Length: 61.00



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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: 53.00 sec/qt

Water Loss: 9.18 in³

Resistivity: ohm.m

Salinity: 3500.00 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
0.00	Trace of oil in tool on top of mud	0.000

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

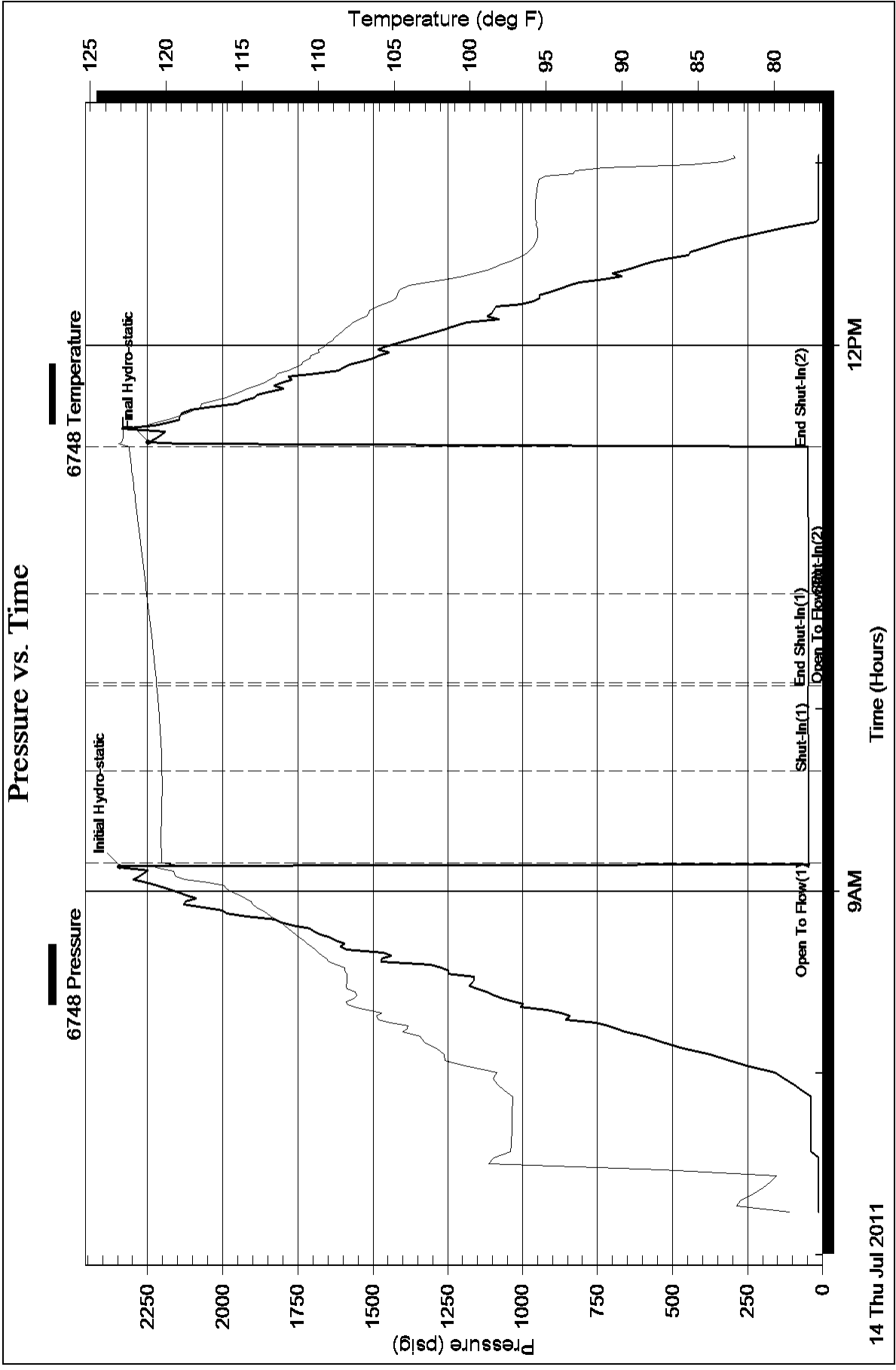
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

