



## 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: 2011.07.01 @ 08:52:00

End Date: 2011.07.01 @ 15:20:30

Job Ticket #: 16594                      DST #: 3

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

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Job Ticket: 16594

**DST#: 3**

Test Start: 2011.07.01 @ 08:52:00

## GENERAL INFORMATION:

Formation: **Upper Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:30

Time Test Ended: 15:20:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/72

**Interval: 4537.00 ft (KB) To 4595.00 ft (KB) (TVD)**

Reference Elevations: 2995.00 ft (KB)

Total Depth: 4595.00 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: 65.40 psig @ 4590.80 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.07.01 End Date: 2011.07.01

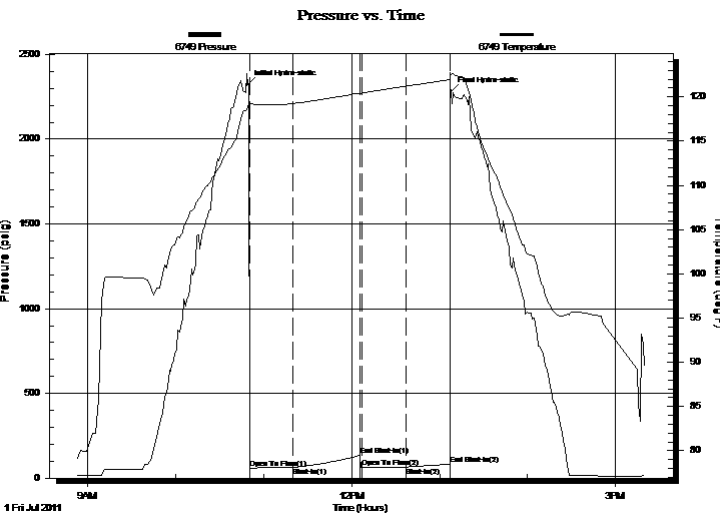
Last Calib.: 2011.07.01

Start Time: 08:52:00 End Time: 15:20:30

Time On Btm: 2011.07.01 @ 10:49:00

Time Off Btm: 2011.07.01 @ 13:08:00

**TEST COMMENT:** 1ST Open 30 Minutes/Weak blow /Blow built to 1/4 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	2320.05	118.81	Initial Hydro-static
2	60.10	119.23	Open To Flow (1)
31	63.22	119.25	Shut-In(1)
77	134.46	120.43	End Shut-In(1)
78	64.70	120.45	Open To Flow (2)
108	65.40	121.22	Shut-In(2)
138	82.02	121.95	End Shut-In(2)
139	2282.42	122.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil cut Mud 10% oil 90% mud	0.02

## Gas Rates

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



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Reference Elevations: 2995.00 ft (KB)

Total Depth: 4595.00 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: 83.33 psig @ 4591.80 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.07.01 End Date: 2011.07.01

Last Calib.: 2011.07.01

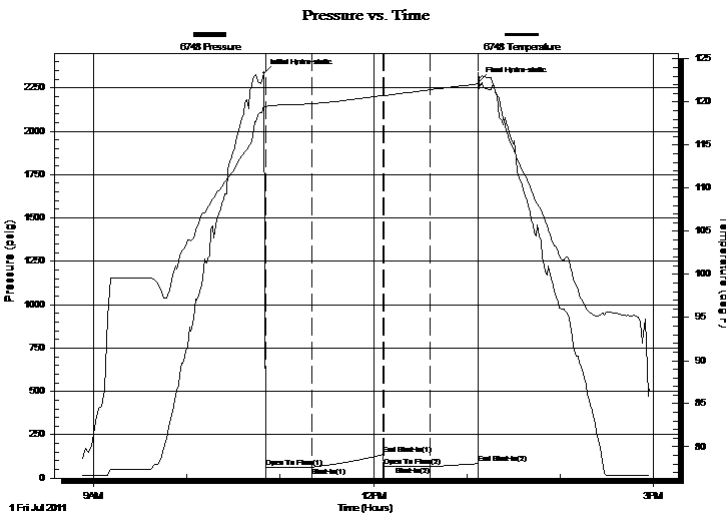
Start Time: 08:52:00 End Time: 14:57:30

Time On Btm: 2011.07.01 @ 10:49:30

Time Off Btm: 2011.07.01 @ 13:08:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1/4 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	2334.53	119.54	Initial Hydro-static
1	60.49	119.40	Open To Flow (1)
31	63.37	119.79	Shut-In(1)
77	136.50	120.75	End Shut-In(1)
77	65.59	120.73	Open To Flow (2)
107	65.88	121.40	Shut-In(2)
138	83.33	122.10	End Shut-In(2)
139	2287.54	122.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil cut Mud 10% oil 90% mud	0.02

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Grand Mesa Operating Inc

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**34/12S/32W/Gove**

Job Ticket: 16594

**DST#: 3**

Test Start: 2011.07.01 @ 08:52:00

**Tool Information**

Drill Pipe:	Length: 4399.00 ft	Diameter: 3.88 inches	Volume: 64.33 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: 84000.00 lb
			<u>Total Volume: 64.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.75 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4537.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.80 ft			
Tool Length:	86.55 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			4513.25	
Hydraulic tool	5.00			4518.25	
Change over sub	0.75			4519.00	
Jars	6.00			4525.00	
Safety Joint	2.00			4527.00	
Packer	5.00			4532.00	28.75 Bottom Of Top Packer
Packer	5.00			4537.00	
Anchor	5.00			4542.00	
change over sub	0.75			4542.75	
drill pipe	31.30			4574.05	
change over sub	0.75			4574.80	
anchor	15.00			4589.80	
Recorder	1.00	6749	Inside	4590.80	
Recorder	1.00	6748	Outside	4591.80	
bull plug	3.00			4594.80	57.80 Bottom Packers & Anchor

**Total Tool Length: 86.55**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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Job Ticket: 16594

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 69.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2400.00 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 10% oil 90% 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:

Serial #: 6749

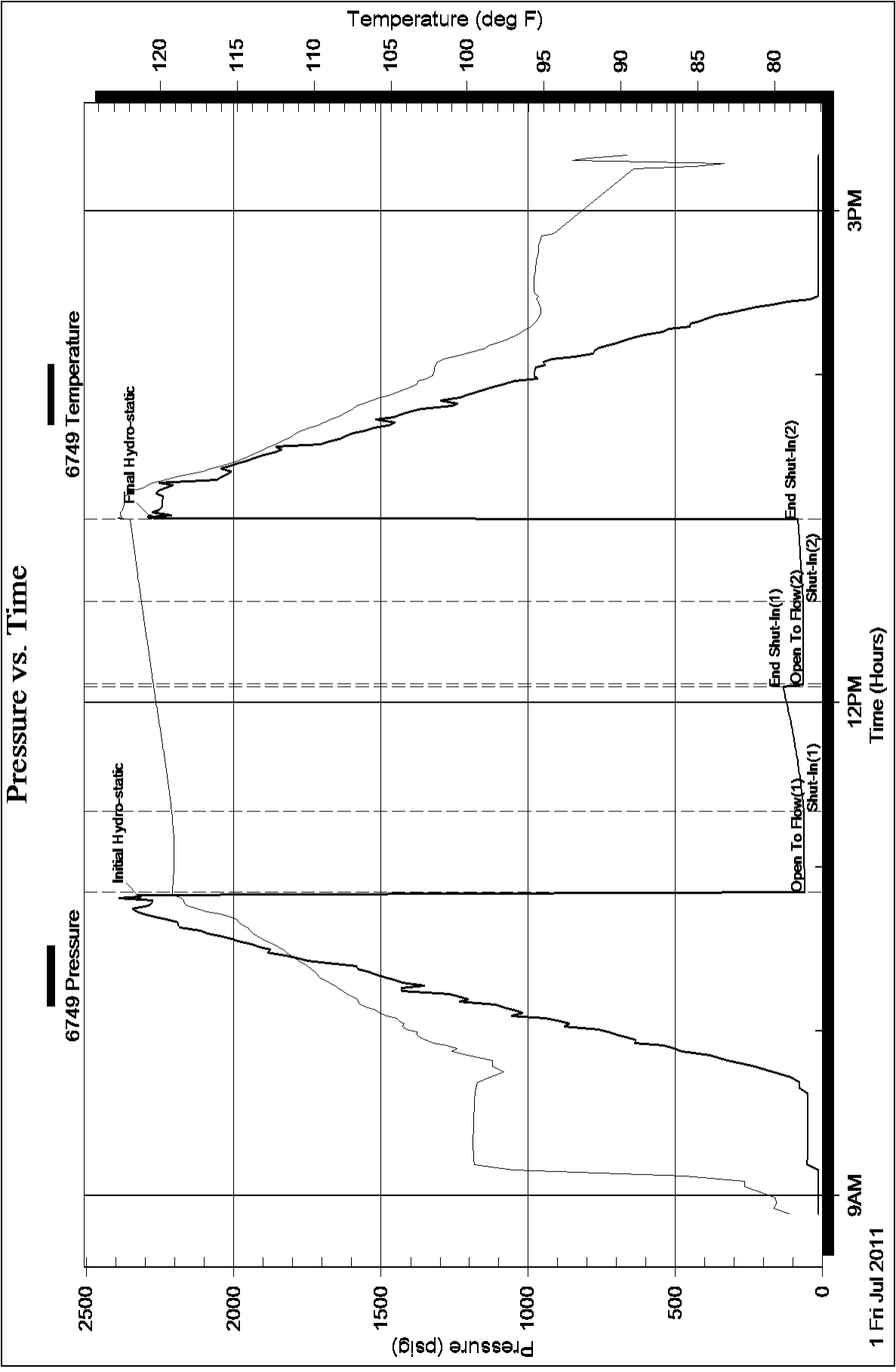
Inside

Grand Mesa Operating Inc

34/12S/32W/Gove

DST Test Number: 3

### Pressure vs. Time



### Pressure vs. Time

