



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating**

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

ATTN: Steve Stribling

4/16S/33W/Scott

Dirks 1-4

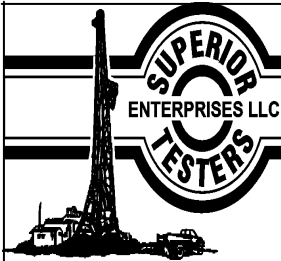
Start Date: 2011.06.15 @ 14:48:00

End Date: 2011.06.15 @ 20:25:30

Job Ticket #: 16584 DST #: 1

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

Printed: 2011.06.15 @ 18:48:34



DRILL STEM TEST REPORT

Grand Mesa Operating

Dirks 1-4

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

4/16S/33W/Scott

Job Ticket: 16584

DST#: 1

Test Start: 2011.06.15 @ 14:48:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:38:30

Time Test Ended: 20:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325/Scott City/28

Interval: 3979.00 ft (KB) To 4018.00 ft (KB) (TVD)

Reference Elevations: 3068.00 ft (KB)

Total Depth: 4018.00 ft (KB) (TVD)

3063.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6748 Outside

Press @ Run Depth: 78.28 psig @ 4015.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.06.15 End Date: 2011.06.15

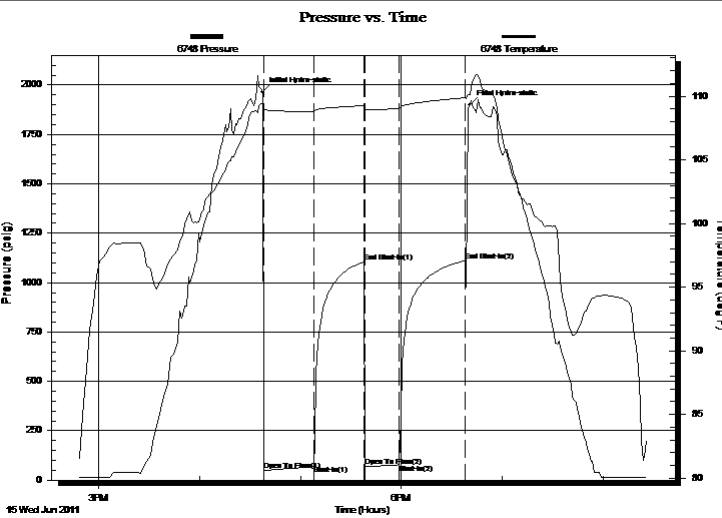
Last Calib.: 2011.06.15

Start Time: 14:48:00 End Time: 20:25:30

Time On Btm: 2011.06.15 @ 16:37:30

Time Off Btm: 2011.06.15 @ 18:40:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1 1/4 inch
 1ST Shut In 30 Minutes/No blow back
 2ND Open 20 Minutes/No blow
 2ND Shut In 40 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.20	109.45	Initial Hydro-static
1	49.54	108.97	Open To Flow (1)
31	77.36	108.77	Shut-In(1)
60	1105.40	109.25	End Shut-In(1)
61	68.00	108.98	Open To Flow (2)
81	78.28	109.04	Shut-In(2)
121	1111.27	109.89	End Shut-In(2)
123	1898.68	110.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100%	0.32

Gas Rates

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



DRILL STEM TEST REPORT

Grand Mesa Operating

Dirks 1-4

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

4/16S/33W/Scott

Job Ticket: 16584

DST#: 1

Test Start: 2011.06.15 @ 14:48:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:38:30

Time Test Ended: 20:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325/Scott City/28

Interval: 3979.00 ft (KB) To 4018.00 ft (KB) (TVD)

Reference Elevations: 3068.00 ft (KB)

Total Depth: 4018.00 ft (KB) (TVD)

3063.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749 Inside

Press @ Run Depth: 1111.13 psig @ 4014.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.06.15 End Date: 2011.06.15

Last Calib.: 2011.06.15

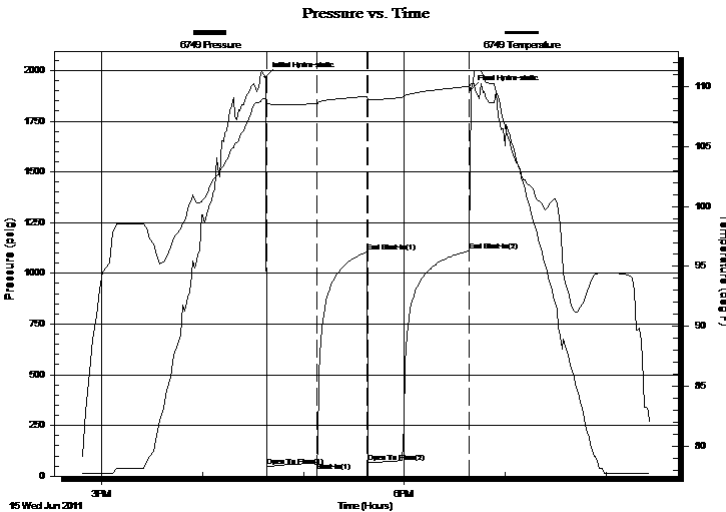
Start Time: 14:48:00 End Time: 20:26:00

Time On Btm: 2011.06.15 @ 16:37:30

Time Off Btm: 2011.06.15 @ 18:39:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1 1/4 inch
 1ST Shut In 30 Minutes/No blow back
 2ND Open 20 Minutes/No blow
 2ND Shut In 40 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.21	109.02	Initial Hydro-static
1	48.53	108.58	Open To Flow (1)
31	67.36	108.56	Shut-In(1)
60	1103.98	109.18	End Shut-In(1)
61	67.30	108.93	Open To Flow (2)
122	1111.13	110.02	End Shut-In(2)
122	1906.02	110.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100%	0.32

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating

Dirks 1-4

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

4/16S/33W/Scott

Job Ticket: 16584

DST#: 1

Test Start: 2011.06.15 @ 14:48:00

Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.88 inches	Volume: 56.11 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:	80000.00 lb
			<u>Total Volume: 56.70 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3979.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	68.00 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			3955.00	
Hydraulic tool	5.00			3960.00	
Change over sub	1.00			3961.00	
Jars	6.00			3967.00	
Safety Joint	2.00			3969.00	
Packer	5.00			3974.00	29.00 Bottom Of Top Packer
Packer	5.00			3979.00	
Anchor	34.00			4013.00	
Recorder	1.00	6749	Inside	4014.00	
Recorder	1.00	6748	Outside	4015.00	
Bullnose	3.00			4018.00	39.00 Bottom Packers & Anchor

Total Tool Length: 68.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating

Dirks 1-4

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

4/16S/33W/Scott

Job Ticket: 16584

DST#: 1

Test Start: 2011.06.15 @ 14:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 4800.00 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
65.00	Mud 100%	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

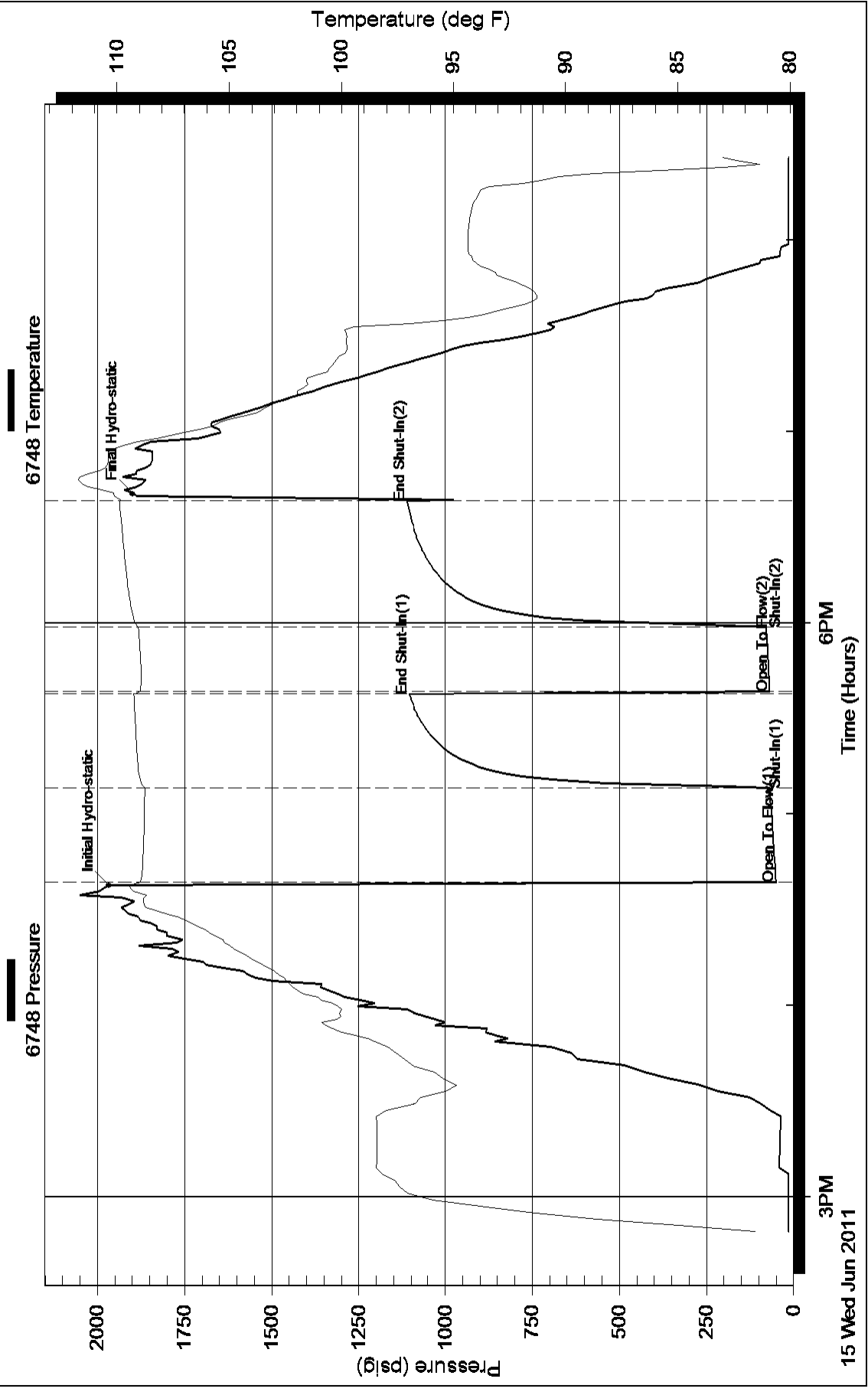
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

