



DRILL STEM TEST REPORT

Prepared For: **GLM Company**

PO Box 193
Russell, Kansas 67665+0193

ATTN: Jeff Lawler

Rohr #3

18/14S/18W/Ellis

Start Date: 2013.04.28 @ 11:51:00

End Date: 2013.04.28 @ 17:23:00

Job Ticket #: 17485 DST #: 1

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

Printed: 2013.04.28 @ 17:41:48

GLM Company
18/14S/18W/Ellis
Rohr #3
DST # 1
Toronto-Lansing zone
2013.04.28



DRILL STEM TEST REPORT

GLM Company
 PO Box 193
 Russell, Kansas 67665+0193
 ATTN: Jeff Lawler

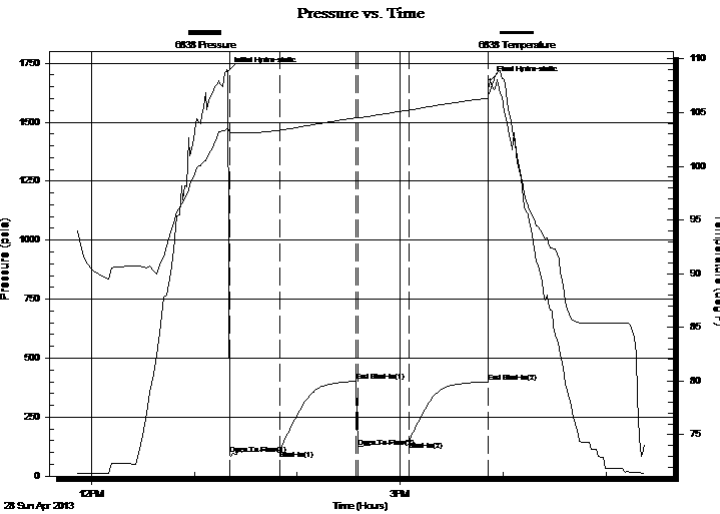
18/14S/18W/Ellis
Rohr #3
 Job Ticket: 17485 **DST#: 1**
 Test Start: 2013.04.28 @ 11:51:00

GENERAL INFORMATION:

Formation: **Toronto-Lansing zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:20:30
 Time Test Ended: 17:23:00
 Interval: **3372.00 ft (KB) To 3445.00 ft (KB) (TVD)**
 Total Depth: 3445.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Hays/10
 Reference Elevations: 2095.00 ft (KB)
 2089.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6838 Outside
 Press @ Run Depth: 399.31 psia @ 3441.50 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.28 End Date: 2013.04.28 Last Calib.: 2013.04.28
 Start Time: 11:51:00 End Time: 17:23:00 Time On Btm: 2013.04.28 @ 13:19:30
 Time Off Btm: 2013.04.28 @ 15:52:30

TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 7 minutes 15 seconds
 1ST Shut In 45 Minutes/No blow back
 2ND Open 30 Minutes/Strong blow /Blow built to bottom of bucket in 30 seconds
 2ND Shut In 45 Minutes/Blow back built to 1 inch



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1716.33	103.50	Initial Hydro-static
1	93.67	103.22	Open To Flow (1)
31	110.58	103.36	Shut-In(1)
75	401.87	104.53	End Shut-In(1)
76	121.10	104.51	Open To Flow (2)
106	147.67	105.22	Shut-In(2)
152	399.31	106.36	End Shut-In(2)
153	1677.36	107.02	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	2360 Gas in pipe 100%	0.00
120.00	Oily, Gassy Mud	1.68
0.00	Oil 30% Gas 35% Mud 35%	0.00
100.00	Oil cut Mud	1.40
0.00	Oil 5% Mud 95%	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3362.00 ft	Diameter: 3.80 inches	Volume: 47.16 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			Total Volume: 47.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3372.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.50 ft				
Tool Length:	92.50 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			3357.00	
Hydraulic Tool	5.00			3362.00	
Packer	5.00			3367.00	20.00 Bottom Of Top Packer
Packer	5.00			3372.00	
Perforations	6.00			3378.00	
Change Over Sub	0.75			3378.75	
Drill Pipe	32.00			3410.75	
Change Over Sub	0.75			3411.50	
Anchor	28.00			3439.50	
Recorder	1.00	6749	Inside	3440.50	
Recorder	1.00	6838	Outside	3441.50	
Bullnose	3.00			3444.50	72.50 Bottom Packers & Anchor

Total Tool Length: 92.50



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

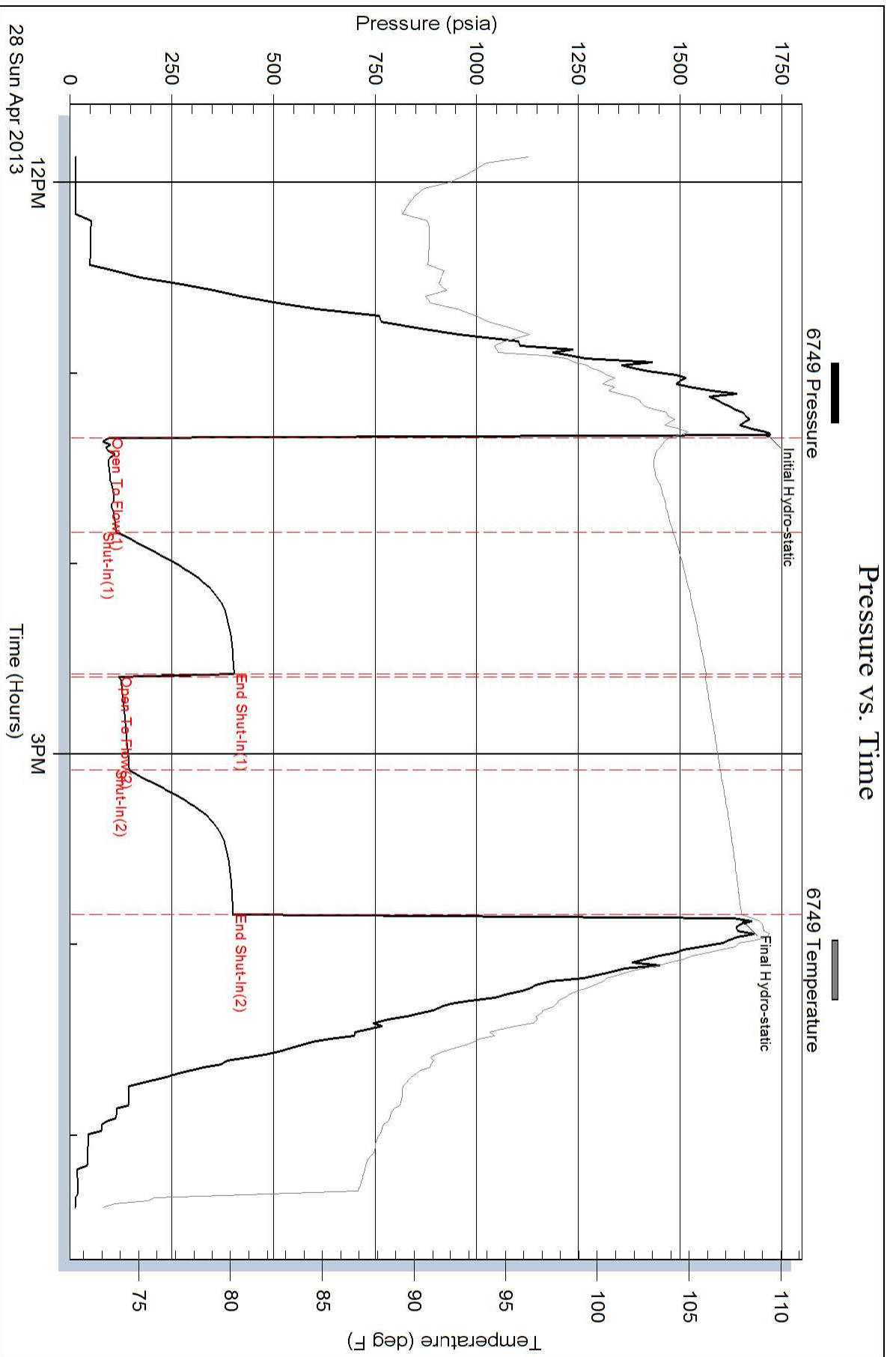
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2360 Gas in pipe 100%	0.000
120.00	Oily, Gassy Mud	1.683
0.00	Oil 30% Gas 35% Mud 35%	0.000
100.00	Oil cut Mud	1.403
0.00	Oil 5% Mud 95%	0.000

Total Length: 220.00 ft Total Volume: 3.086 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



Pressure vs. Time

