



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: 2013.04.29 @ 14:13:00

End Date: 2013.04.29 @ 19:47:30

Job Ticket #: 17487 DST #: 3

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

Printed: 2013.04.29 @ 19:57:35



DRILL STEM TEST REPORT

GLM Company
 PO Box 193
 Russell, Kansas 67665+0193
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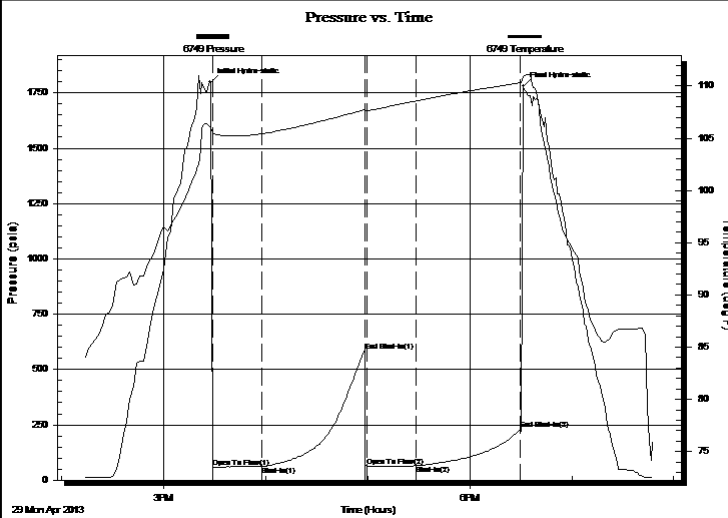
18/14S/18W/Ellis
Rohr #3
 Job Ticket: 17487 **DST#: 3**
 Test Start: 2013.04.29 @ 14:13:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:28:30
 Time Test Ended: 19:47:30
 Interval: **3510.00 ft (KB) To 3575.00 ft (KB) (TVD)**
 Total Depth: 3575.00 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 #: 6749 Inside
 Press @ Run Depth: 64.77 psia @ 3571.29 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.29 End Date: 2013.04.29 Last Calib.: 2013.04.29
 Start Time: 14:13:00 End Time: 19:47:30 Time On Btm: 2013.04.29 @ 15:27:30
 Time Off Btm: 2013.04.29 @ 18:31:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1/2 inch then died to 1/4 inch
 1ST Shut In 60 Minutes/No blow back
 2ND Open 30 Minutes/Weak blow /Blow built to 1/2 inch
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1797.15	106.05	Initial Hydro-static
1	58.20	105.56	Open To Flow (1)
30	61.98	105.42	Shut-In(1)
91	585.34	107.71	End Shut-In(1)
92	61.12	107.62	Open To Flow (2)
121	64.77	108.58	Shut-In(2)
182	230.43	110.31	End Shut-In(2)
184	1779.48	110.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Slightly oil cut mud/Oil 3% Mud 97%	0.28

Gas Rates

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



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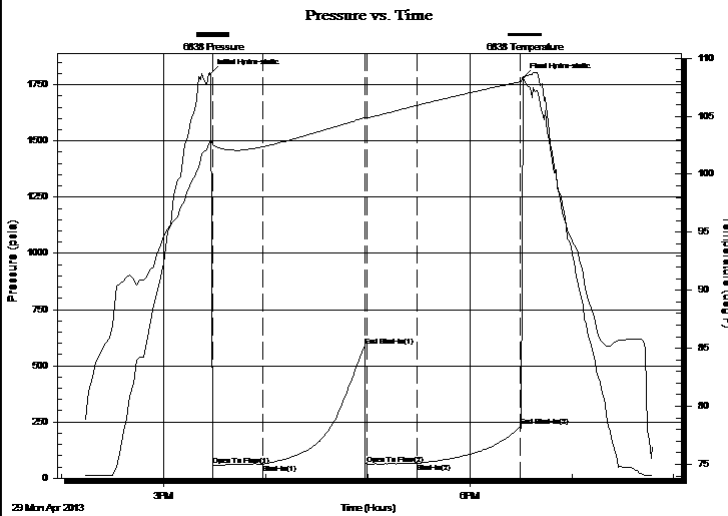
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 Tester: Ken Swinney
 Unit No: 3325 Hays/10
 Reference Elevations: 2095.00 ft (KB)
 2089.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6838 Outside
 Press @ RunDepth: 231.43 psia @ 3572.29 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.04.29 End Date: 2013.04.29 Last Calib.: 2013.04.29
 Start Time: 14:13:00 End Time: 19:47:30 Time On Btm: 2013.04.29 @ 15:27:30
 Time Off Btm: 2013.04.29 @ 18:31:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1/2 inch then died to 1/4 inch
 1ST Shut In 60 Minutes/No blow back
 2ND Open 30 Minutes/Weak blow /Blow built to 1/2 inch
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1798.17	102.91	Initial Hydro-static
1	57.40	102.60	Open To Flow (1)
31	61.82	102.35	Shut-In(1)
91	585.75	104.87	End Shut-In(1)
92	60.54	104.84	Open To Flow (2)
122	65.43	105.93	Shut-In(2)
182	231.43	107.97	End Shut-In(2)
184	1780.46	108.36	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	Slightly oil cut mud/Oil 3% Mud 97%	0.28

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



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TOOL DIAGRAM

GLM Company
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18/14S/18W/Ellis
Rohr #3
 Job Ticket: 17487 **DST#: 3**
 Test Start: 2013.04.29 @ 14:13:00

Tool Information

Drill Pipe:	Length: 3521.00 ft	Diameter: 3.80 inches	Volume: 49.39 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:	62000.00 lb
			Total Volume: 49.39 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3510.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.29 ft				
Tool Length:	85.29 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			3495.00	
Hydraulic Tool	5.00			3500.00	
Packer	5.00			3505.00	20.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Perforations	5.00			3515.00	
Change Over Sub	0.75			3515.75	
Drill Pipe	31.79			3547.54	
Change Over Sub	0.75			3548.29	
Anchor	22.00			3570.29	
Recorder	1.00	6749	Inside	3571.29	
Recorder	1.00	6838	Outside	3572.29	
Bullnose	3.00			3575.29	65.29 Bottom Packers & Anchor

Total Tool Length: 85.29



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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:

bbbl

Water Loss: 8.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Slightly oil cut mud/Oil 3% Mud 97%	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

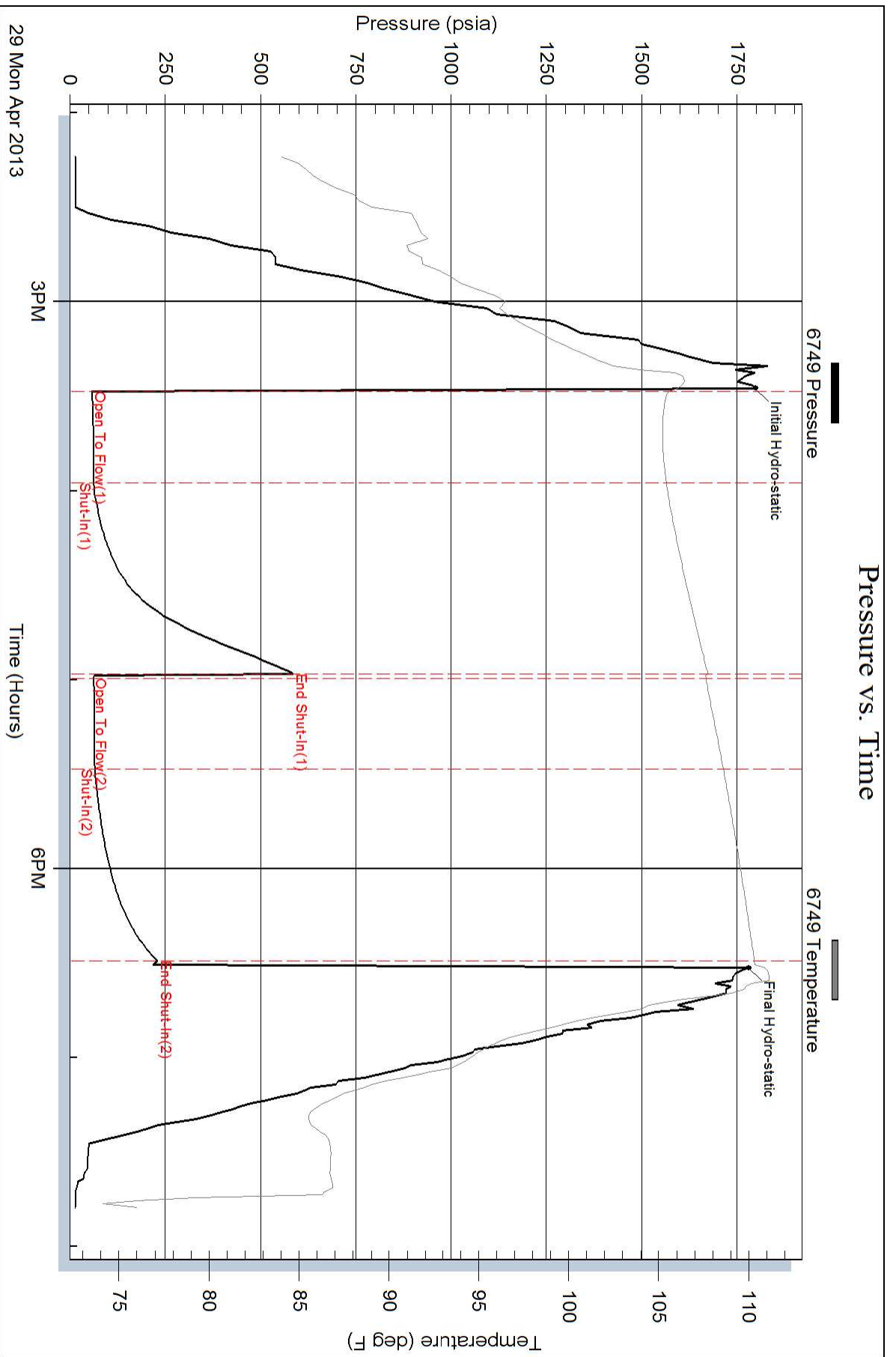
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

