



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central
Suite 100
Wichita, Kansas 67206+2563

ATTN: Renee Husted

Stoss # 1-35

35/17S/15W/Barton

Start Date: 2014.05.15 @ 07:29:00

End Date: 2014.05.15 @ 14:01:30

Job Ticket #: 18263 DST #: 5

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

Printed: 2014.05.15 @ 14:12:28



DRILL STEM TEST REPORT

FG Holl Company LLC
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 Suite 100
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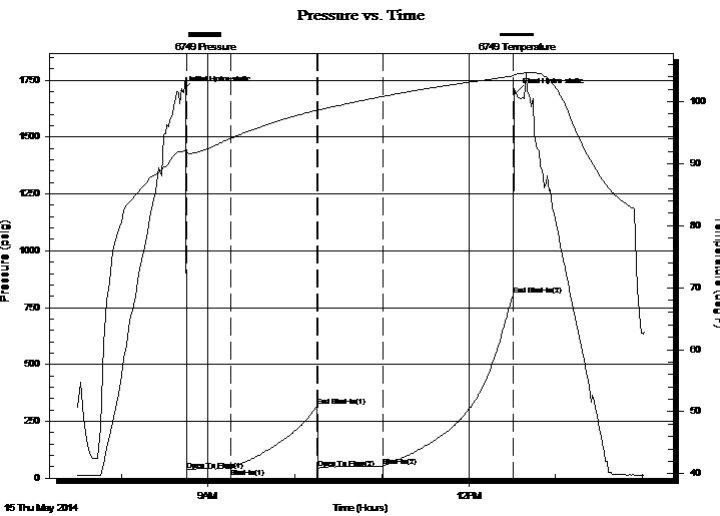
35/17S/15W/Barton
Stoss # 1-35
 Job Ticket: 18263 **DST#: 5**
 Test Start: 2014.05.15 @ 07:29:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:45:30
 Time Test Ended: 14:01:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/42
 Interval: **3450.00 ft (KB) To 3468.00 ft (KB) (TVD)**
 Total Depth: 3468.00 ft (KB) (TVD)
 Reference Elevations: 1999.00 ft (KB)
 1991.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6749 Inside
 Press@RunDepth: 53.16 psig @ 3464.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.05.15 End Date: 2014.05.15 Last Calib.: 2014.05.15
 Start Time: 07:29:00 End Time: 14:01:30 Time On Btm: 2014.05.15 @ 08:42:30
 Time Off Btm: 2014.05.15 @ 12:32:30

TEST COMMENT: 1ST Open 30 Minutes/Fair blow /Blow built to 9 inches
 1ST Shut In 60 Minutes/Weak surface blow back
 2ND Open 45 Minutes/Strong blow /Blow built to bottom of bucket in 25 seconds then slow ed considerably
 2ND Shut In 90 Minutes/Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.26	92.02	Initial Hydro-static
3	36.73	91.72	Open To Flow (1)
33	42.99	94.05	Shut-In(1)
93	315.52	98.64	End Shut-In(1)
94	41.69	98.63	Open To Flow (2)
138	53.16	100.84	Shut-In(2)
228	806.77	104.17	End Shut-In(2)
230	1693.41	104.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Gas cut Oily Mud	0.77
0.00	Gas 10% Oil 40% Mud 50%	0.00
0.00	439 feet of gas in pipe	0.00

Gas Rates

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



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Job Ticket: 18263

DST#: 5

Test Start: 2014.05.15 @ 07:29:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:45:30

Time Test Ended: 14:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/42

Interval: 3450.00 ft (KB) To 3468.00 ft (KB) (TVD)

Reference Elevations: 1999.00 ft (KB)

Total Depth: 3468.00 ft (KB) (TVD)

1991.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938 Outside

Press@RunDepth: 808.15 psig @ 3465.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.05.15 End Date: 2014.05.15

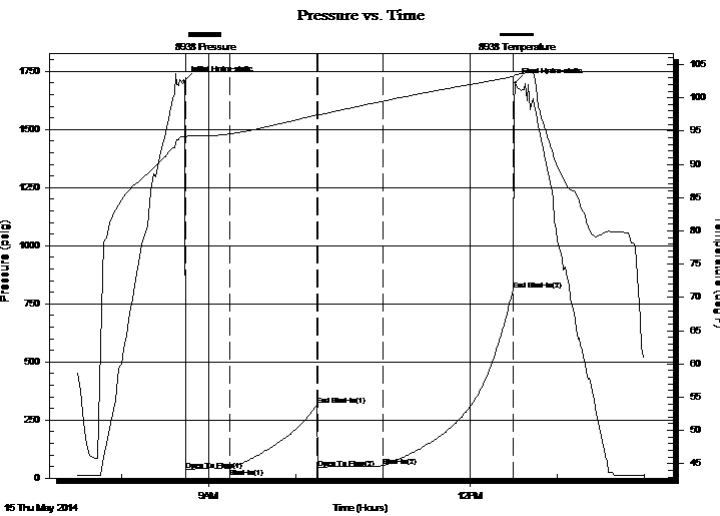
Last Calib.: 2014.05.15

Start Time: 07:29:00 End Time: 14:00:30

Time On Btm: 2014.05.15 @ 08:43:30

Time Off Btm: 2014.05.15 @ 12:31:30

TEST COMMENT: 1ST Open 30 Minutes/Fair blow /Blow built to 9 inches
 1ST Shut In 60 Minutes/Weak surface blow back
 2ND Open 45 Minutes/Strong blow /Blow built to bottom of bucket in 25 seconds then slow ed considerably
 2ND Shut In 90 Minutes/Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.43	94.18	Initial Hydro-static
1	35.63	94.00	Open To Flow (1)
32	42.23	94.57	Shut-In(1)
91	315.14	97.40	End Shut-In(1)
92	42.29	97.39	Open To Flow (2)
137	52.80	99.47	Shut-In(2)
227	808.15	103.17	End Shut-In(2)
228	1699.90	103.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Gas cut Oily Mud	0.77
0.00	Gas 10% Oil 40% Mud 50%	0.00
0.00	439 feet of gas in pipe	0.00

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC

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DST#: 5

Test Start: 2014.05.15 @ 07:29:00

Tool Information

Drill Pipe:	Length: 3438.00 ft	Diameter: 3.80 inches	Volume: 48.23 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: 60000.00 lb
			<u>Total Volume: 48.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3450.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.00 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			3428.00	
Hydraulic tool	5.00			3433.00	
Jars	5.00			3438.00	
Safety Joint	2.00			3440.00	
Top Packer	5.00			3445.00	
Packer	5.00			3450.00	27.00 Bottom Of Top Packer
Anchor	13.00			3463.00	
Recorder	1.00	6749	Inside	3464.00	
Recorder	1.00	8938	Outside	3465.00	
Bullnose	3.00			3468.00	18.00 Anchor Tool
Total Tool Length:	45.00				



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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: 56.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 5600.00 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
55.00	Gas cut Oily Mud	0.772
0.00	Gas 10% Oil 40% Mud 50%	0.000
0.00	439 feet of gas in pipe	0.000

Total Length: 55.00 ft Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

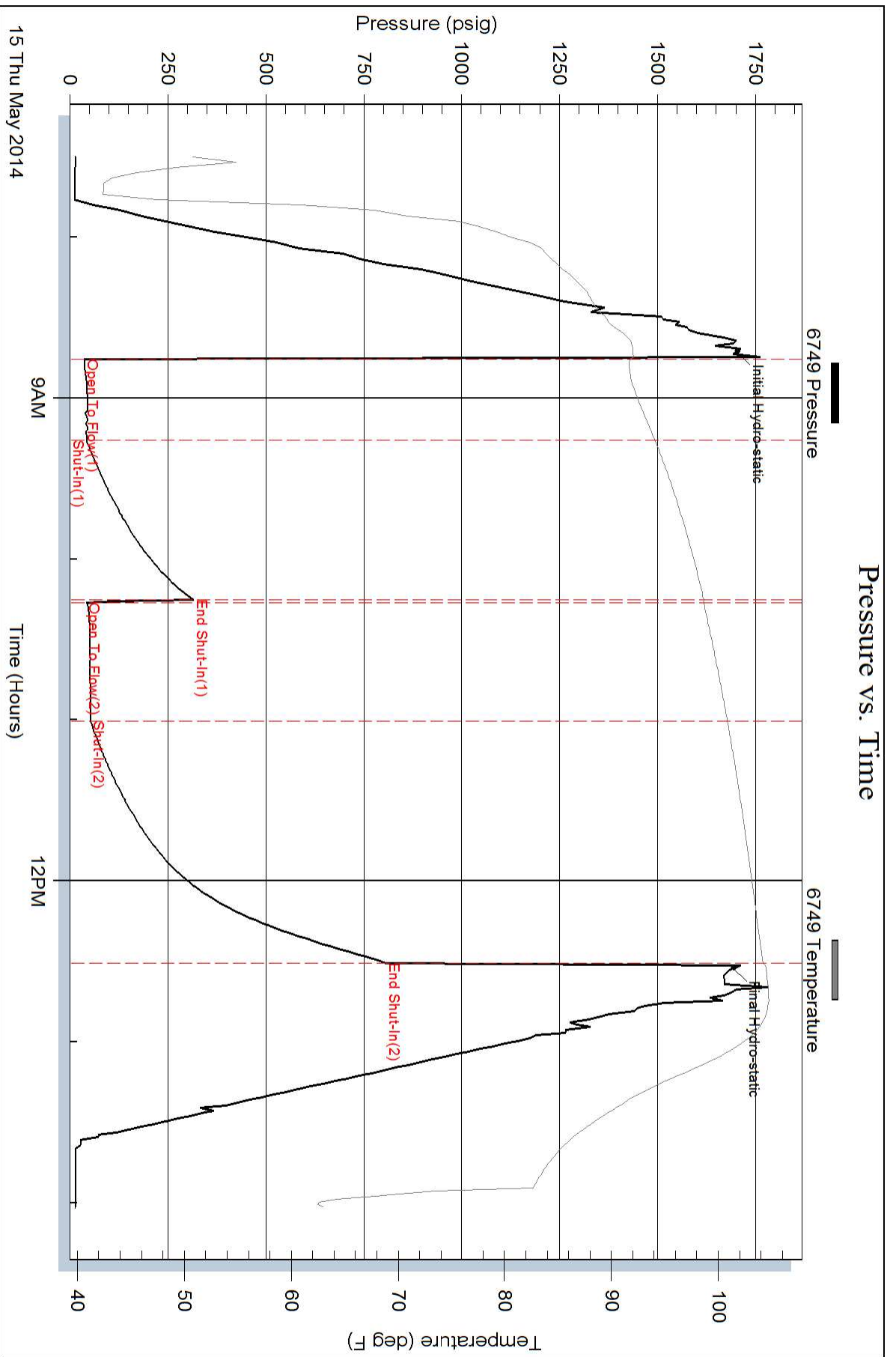
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

