



DRILL STEM TEST REPORT

Prepared For: **F.G Holl Company L.L.C**

9431 E Central St # 100 Wichita KS 67206

ATTN: Ryan Greenbaum

Zimmer #1-20

20-19s-14w Barton

Start Date: 2014.07.09 @ 16:50:00

End Date: 2014.07.09 @ 23:20:30

Job Ticket #: 19304 DST #: 3

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

Printed: 2014.07.10 @ 00:36:16



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Test Start: 2014.07.09 @ 16:50:00

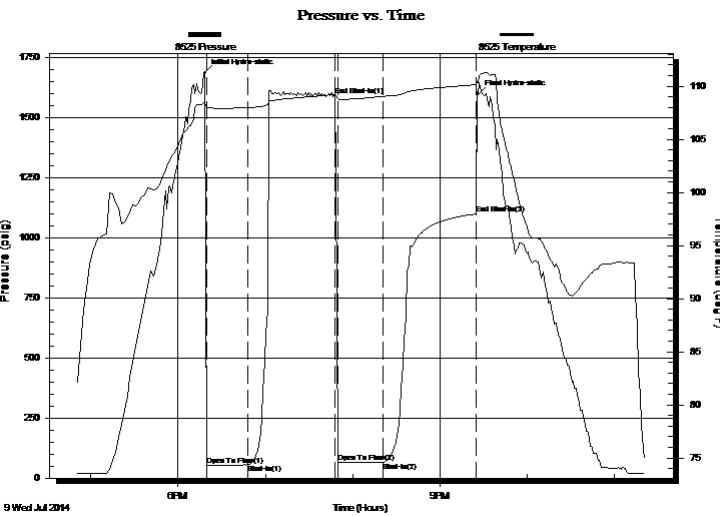
GENERAL INFORMATION:

Formation: **LKC "H-I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:19:30
 Time Test Ended: 23:20:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3340 Great bend -25
Interval: 3350.00 ft (KB) To 3380.00 ft (KB) (TVD)
 Total Depth: 3380.00 ft (KB) (TVD)
 Reference Elevations: 1901.00 ft (KB)
 1893.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8525

Press@RunDepth: 66.97 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.09 End Date: 2014.07.09 Last Calib.: 2014.07.10
 Start Time: 16:50:00 End Time: 23:20:30 Time On Btm: 2014.07.09 @ 18:18:30
 Time Off Btm: 2014.07.09 @ 21:26:00

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow built 3/4 inch into bucket in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak blow built 2 inches into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.09	108.48	Initial Hydro-static
1	52.10	108.07	Open To Flow (1)
30	55.99	107.99	Shut-In(1)
90	1592.19	109.21	End Shut-In(1)
91	65.00	108.81	Open To Flow (2)
122	66.97	109.03	Shut-In(2)
187	1099.80	110.16	End Shut-In(2)
188	1596.89	110.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Spot oil mud 1%oil 99%mud	0.56

Gas Rates

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



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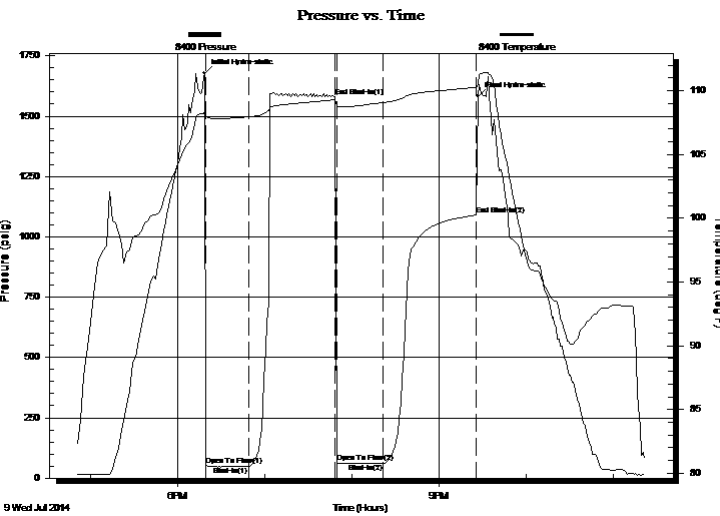
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 Time Test Ended: 23:20:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3340 Great bend -25
 Interval: **3350.00 ft (KB) To 3380.00 ft (KB) (TVD)**
 Reference Elevations: 1901.00 ft (KB)
 Total Depth: 3380.00 ft (KB) (TVD)
 1893.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8400

Press@RunDepth: 1089.80 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.07.09 End Date: 2014.07.09 Last Calib.: 2014.07.10
 Start Time: 16:50:00 End Time: 23:21:30 Time On Btm: 2014.07.09 @ 18:18:30
 Time Off Btm: 2014.07.09 @ 21:26:30

TEST COMMENT: 1st Opening 30 Minutes-Very weak surface blow built 3/4 inch into bucket in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak blow built 2 inches into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.39	108.41	Initial Hydro-static
1	51.60	107.95	Open To Flow (1)
30	49.53	107.95	Shut-In(1)
90	1582.57	109.31	End Shut-In(1)
91	63.77	108.82	Open To Flow (2)
123	60.64	109.08	Shut-In(2)
187	1089.80	110.27	End Shut-In(2)
188	1582.82	110.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Spot oil mud 1%oil 99% mud	0.56

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2014.07.09 @ 16:50:00

Tool Information

Drill Pipe:	Length: 3337.00 ft	Diameter: 3.80 inches	Volume: 46.81 bbl	Tool Weight: 1000.00 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: 46.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3350.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3327.00	
Hydraulic tool	5.00			3332.00	
Jars	6.00			3338.00	
Safety Joint	2.00			3340.00	
Packer	5.00			3345.00	28.00 Bottom Of Top Packer
Packer	5.00			3350.00	
Anchor	25.00			3375.00	
Recorder	1.00		Inside	3376.00	
Recorder	1.00			3377.00	
Bullnose	3.00			3380.00	30.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



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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: 47.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Spot oil mud 1%oil 99%mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

