



DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC.**

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.23 @ 01:37:00

End Date: 2013.08.23 @ 08:20:30

Job Ticket #: 18480 DST #: 7

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

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Test Start: 2013.08.23 @ 01:37:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:01:30
 Tester: Shane Konzem
 Time Test Ended: 08:20:30
 Unit No: 3330/66/Great Bend
 Interval: **3585.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Reference Elevations: 1978.00 ft (KB)
 Total Depth: 3600.00 ft (KB) (TVD)
 1970.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 8.00 ft

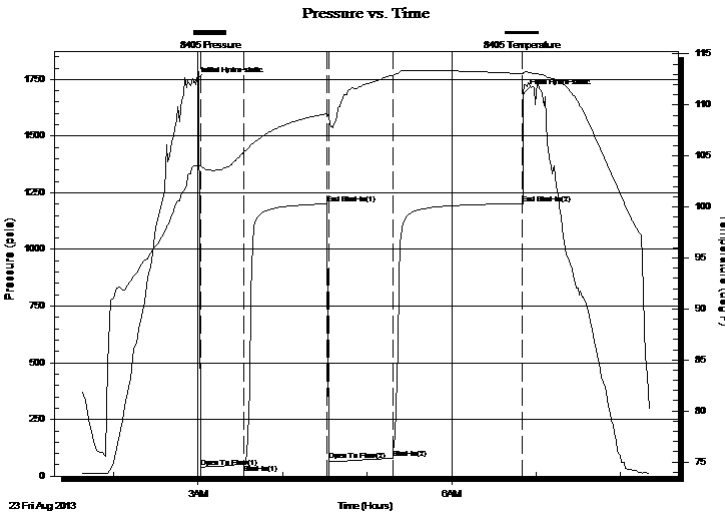
Serial #: 8405

Inside

Press @ RunDepth: 79.24 psia @ 3596.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.23 End Date: 2013.08.23 Last Calib.: 2013.08.23
 Start Time: 01:37:00 End Time: 08:20:30 Time On Btm: 2013.08.23 @ 02:57:30
 Time Off Btm: 2013.08.23 @ 06:51:00

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 2 inches in 5 gallon bucket.
 1st Shut In/ 60 Minutes. No blow back.
 2nd Open/ 45 Minutes. Weakblow built to 1.5 inches in 5 gallon bucket.
 2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1740.07	103.99	Initial Hydro-static
4	37.63	104.00	Open To Flow (1)
35	52.32	105.37	Shut-In(1)
94	1200.89	109.13	End Shut-In(1)
95	71.14	108.83	Open To Flow (2)
141	79.24	112.90	Shut-In(2)
233	1201.88	113.08	End Shut-In(2)
234	1686.15	113.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
63.00	70% w ater, 30% mud, oil spots.	0.88
63.00	55% mud, 45% w ater, oil spots.	0.88
0.00	Chloride recov 26000 ppm.	0.00

Gas Rates

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



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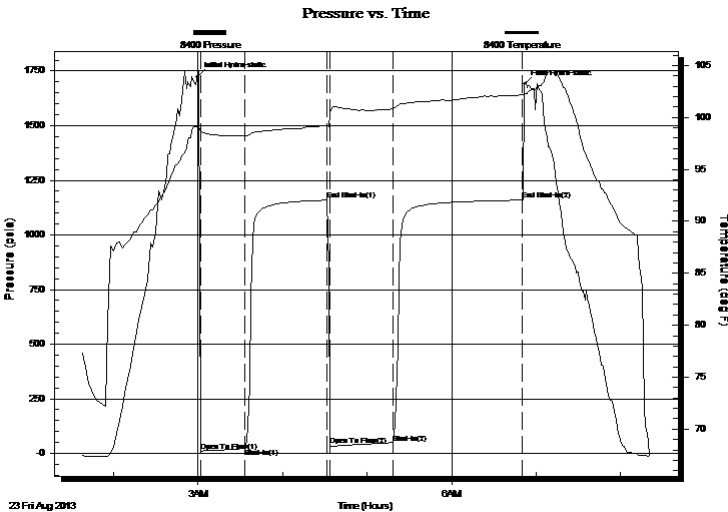
Serial #: 8400

Outside

Press @ Run Depth: 1159.17 psia @ 3597.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.23 End Date: 2013.08.23 Last Calib.: 2013.08.23
 Start Time: 01:37:00 End Time: 08:20:30 Time On Btm: 2013.08.23 @ 02:59:30
 Time Off Btm: 2013.08.23 @ 06:51:30

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 2nd Open/ 45 Minutes. Weakblow built to 1.5 inches in 5 gallon bucket.
 2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1724.26	99.13	Initial Hydro-static
2	10.86	98.72	Open To Flow (1)
34	23.62	98.20	Shut-In(1)
93	1158.85	99.25	End Shut-In(1)
94	35.54	100.34	Open To Flow (2)
139	48.61	100.89	Shut-In(2)
231	1159.17	102.20	End Shut-In(2)
232	1690.13	102.31	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
63.00	70% w ater, 30% mud, oil spots.	0.88
63.00	55% mud, 45% w ater, oil spots.	0.88
0.00	Chloride recov 26000 ppm.	0.00

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



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TOOL DIAGRAM

F.G. Holl Company LLC.

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Tool Information

Drill Pipe:	Length: 3563.00 ft	Diameter: 3.80 inches	Volume: 49.98 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: 74000.00 lb
			<u>Total Volume: 49.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3585.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3557.00	
Shut-In Tool	5.00			3562.00	
Hydroic Tool	5.00			3567.00	
Jars	6.00			3573.00	
Safety Joint	2.00			3575.00	
Packer	5.00			3580.00	29.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Perforations	10.00			3595.00	
Recorder	1.00	8405	Inside	3596.00	
Recorder	1.00	8400	Outside	3597.00	
Bullnose	3.00			3600.00	15.00 Bottom Packers & Anchor

Total Tool Length: 44.00



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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: 53.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 3900.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
63.00	70% water, 30% mud, oil spots.	0.884
63.00	55% mud, 45% water, oil spots.	0.884
0.00	Chloride recov 26000 ppm.	0.000

Total Length: 126.00 ft Total Volume: 1.768 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

