



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: 2013.08.18 @ 02:27:00

End Date: 2013.08.18 @ 08:13:30

Job Ticket #: 18425 DST #: 2

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

Printed: 2013.08.18 @ 08:27:05

F.G. Holl Company LLC.
29/21s/15w/Pawnee
Jost #1-29
DST # 2
Crause
2013.08.18



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18425

DST#: 2

ATTN: Frank Greenbaum

Test Start: 2013.08.18 @ 02:27:00

GENERAL INFORMATION:

Formation: **Crause**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:37:30

Time Test Ended: 08:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2244.00 ft (KB) To 2300.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2300.00 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 @ Run Depth: 90.24 psia @ 2296.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.18

End Date: 2013.08.18

Last Calib.: 2013.08.18

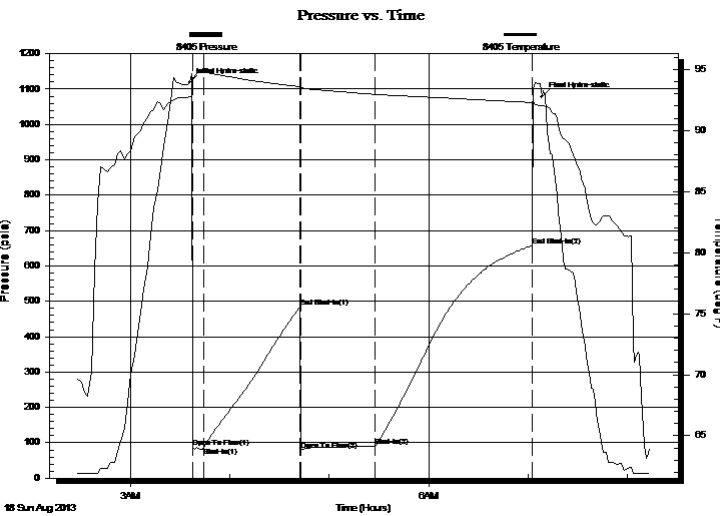
Start Time: 02:27:00

End Time: 08:13:30

Time On Btm: 2013.08.18 @ 03:35:30

Time Off Btm: 2013.08.18 @ 07:08:30

TEST COMMENT: 1st Open/ 5 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes.
2nd SHut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1118.13	92.73	Initial Hydro-static
2	85.92	94.05	Open To Flow (1)
9	87.13	94.75	Shut-In(1)
67	482.79	93.59	End Shut-In(1)
67	79.15	93.48	Open To Flow (2)
112	90.24	92.95	Shut-In(2)
207	657.79	92.30	End Shut-In(2)
213	1078.52	92.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
80.00	100% mud.	1.12

Gas Rates

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



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Reference Elevations: 1978.00 ft (KB)

Total Depth: 2300.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ RunDepth: 658.85 psia @ 2297.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.18

End Date: 2013.08.18

Last Calib.: 2013.08.18

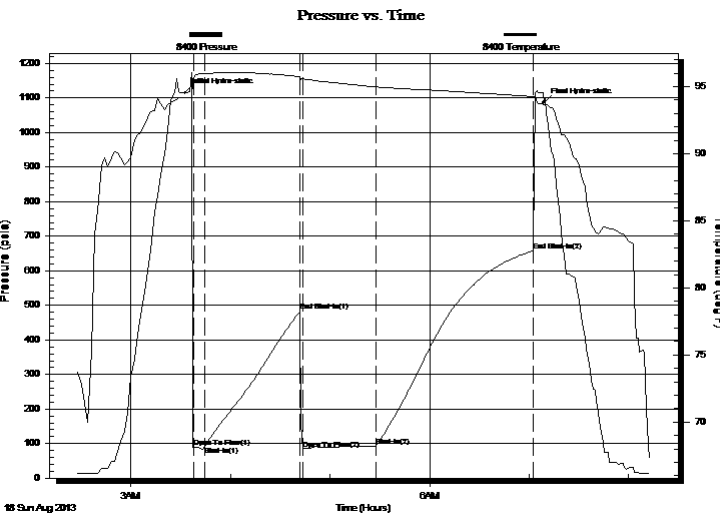
Start Time: 02:27:00

End Time: 08:13:00

Time On Btm: 2013.08.18 @ 03:32:30

Time Off Btm: 2013.08.18 @ 07:09:00

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PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1114.19	94.21	Initial Hydro-static
5	88.87	95.48	Open To Flow (1)
12	92.39	95.97	Shut-In(1)
70	483.66	95.74	End Shut-In(1)
71	82.65	95.57	Open To Flow (2)
115	92.57	94.97	Shut-In(2)
210	658.85	94.26	End Shut-In(2)
217	1086.58	93.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
80.00	100% mud.	1.12

Gas Rates

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



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TOOL DIAGRAM

F.G. Holl Company LLC.

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Test Start: 2013.08.18 @ 02:27:00

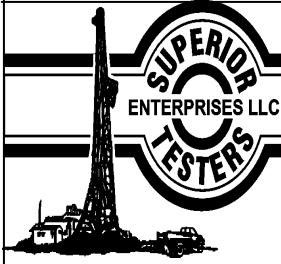
Tool Information

Drill Pipe:	Length: 2235.00 ft	Diameter: 3.80 inches	Volume: 31.35 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: 52000.00 lb
			<u>Total Volume: 31.35 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2244.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.50 ft			
Tool Length:	85.50 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			2216.00	
Shut-In Tool	5.00			2221.00	
Hydroic Tool	5.00			2226.00	
Jars	6.00			2232.00	
Safety Joint	2.00			2234.00	
Packer	5.00			2239.00	29.00 Bottom Of Top Packer
Packer	5.00			2244.00	
Perforations	5.00			2249.00	
Change Over Sub	0.75			2249.75	
Drill Pipe	31.00			2280.75	
Change Over Sub	0.75			2281.50	
Perforations	14.00			2295.50	
Recorder	1.00	8405	Inside	2296.50	
Recorder	1.00	8400	Outside	2297.50	
Bullnose	3.00			2300.50	56.50 Bottom Packers & Anchor

Total Tool Length: 85.50



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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: 42.00 sec/qt
Water Loss: 10.80 in³
Resistivity: ohm.m
Salinity: 22000.00 ppm
Filter Cake: 4.00 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
80.00	100% mud.	1.122

Total Length: 80.00 ft Total Volume: 1.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

