



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: 2013.08.27 @ 17:30:00

End Date: 2013.08.28 @ 01:33:30

Job Ticket #: 18485 DST #: 12

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

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DRILL STEM TEST REPORT

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9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18485

DST#: 12

ATTN: Frank Greenbaum

Test Start: 2013.08.27 @ 17:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:23:30
 Tester: Shane Konzem
 Time Test Ended: 01:33:30
 Unit No: 3330/66/Great Bend
 Interval: **3894.00 ft (KB) To 3903.00 ft (KB) (TVD)**
 Reference Elevations: 1978.00 ft (KB)
 Total Depth: 3903.00 ft (KB) (TVD)
 1970.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 8.00 ft

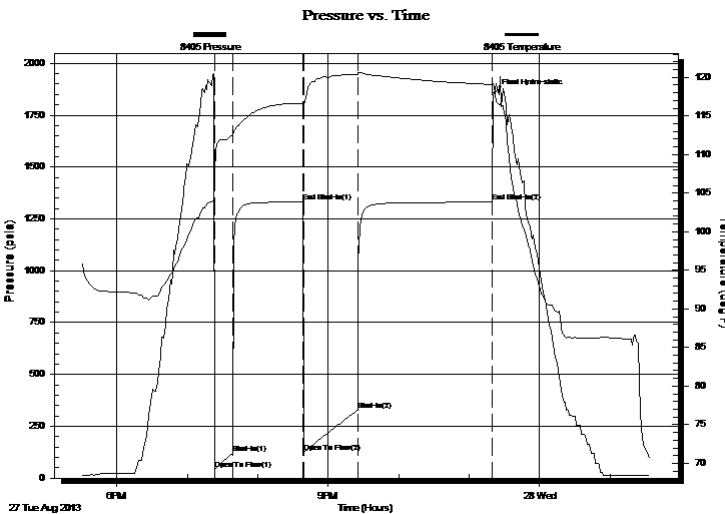
Serial #: 8405

Inside

Press @ Run Depth: 327.39 psia @ 3899.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.27 End Date: 2013.08.28 Last Calib.: 2013.08.27
 Start Time: 17:30:00 End Time: 01:33:30 Time On Btm:
 Time Off Btm: 2013.08.27 @ 23:21:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
 1st Shut In/ 60 Minutes. No blow back.
 2nd Open/ 45 Minutes. Blow built to bottom of 5 gallon bucket in 15 Minutes.
 2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	40.76	107.60	Open To Flow (1)
15	119.01	112.56	Shut-In(1)
75	1331.45	116.63	End Shut-In(1)
76	124.70	116.48	Open To Flow (2)
122	327.39	120.42	Shut-In(2)
236	1330.93	119.06	End Shut-In(2)
238	1854.32	118.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	690 feet of gas.	0.00
5.00	100% Clean Oil	0.07
25.00	40% mud, 60% water	0.35
630.00	100% water	8.84
0.00	Chloride recov, 26000 ppm	0.00
0.00	resist recov, .22 ohms at 50 degrees.	0.00

Gas Rates

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



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Test Start: 2013.08.27 @ 17:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:30

Time Test Ended: 01:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3894.00 ft (KB) To 3903.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3903.00 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 @ Run Depth: 1270.07 psia @ 3900.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.27

End Date:

2013.08.28

Last Calib.:

2013.08.27

Start Time:

17:30:00

End Time:

01:42:00

Time On Btm:

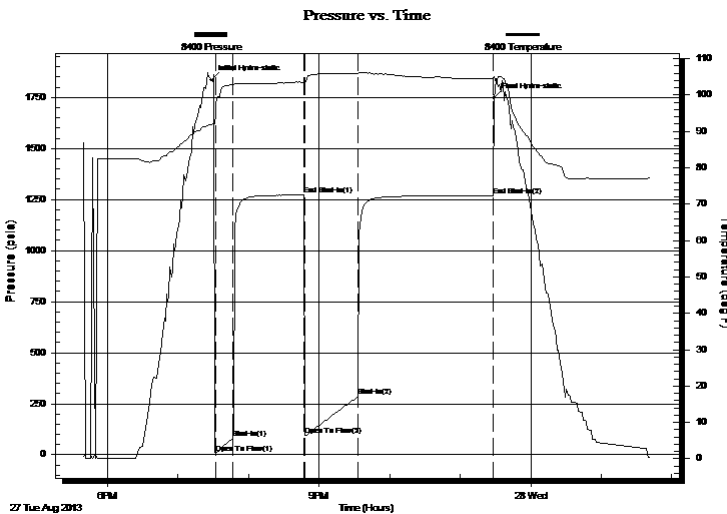
2013.08.27 @ 19:28:30

Time Off Btm:

2013.08.27 @ 23:28:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 45 Minutes. Blow built to bottom of 5 gallon bucket in 15 Minutes.
2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1835.67	91.97	Initial Hydro-static
4	9.77	94.33	Open To Flow (1)
19	80.02	102.79	Shut-In(1)
79	1271.49	103.53	End Shut-In(1)
80	93.51	103.13	Open To Flow (2)
125	285.08	105.97	Shut-In(2)
240	1270.07	104.64	End Shut-In(2)
240	1746.74	105.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	690 feet of gas.	0.00
5.00	100% Clean Oil	0.07
25.00	40% mud, 60% water	0.35
630.00	100% water	8.84
0.00	Chloride recov, 26000 ppm	0.00
0.00	resist recov, .22 ohms at 50 degrees.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18485

DST#: 12

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Test Start: 2013.08.27 @ 17:30:00

Tool Information

Drill Pipe:	Length: 3876.00 ft	Diameter: 3.80 inches	Volume: 54.37 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: 54.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3894.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3871.00	
Shut-In Tool	5.00			3876.00	
Hydroic Tool	5.00			3881.00	
Jars	6.00			3887.00	
Safety Joint	2.00			3889.00	
Packer	5.00			3894.00	24.00 Bottom Of Top Packer
Perforations	4.00			3898.00	
Recorder	1.00	8405	Inside	3899.00	
Recorder	1.00	8400	Outside	3900.00	
Bullnose	3.00			3903.00	9.00 Anchor Tool
Total Tool Length:	33.00				



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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: 8.80 in³
Resistivity: ohm.m
Salinity: 5800.00 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	690 feet of gas.	0.000
5.00	100% CleanOil	0.070
25.00	40% mud, 60% w ater	0.351
630.00	100% w ater	8.837
0.00	Chloride recov, 26000 ppm	0.000
0.00	resist recov, .22 ohms at 50 degrees.	0.000

Total Length: 660.00 ft Total Volume: 9.258 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

