



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

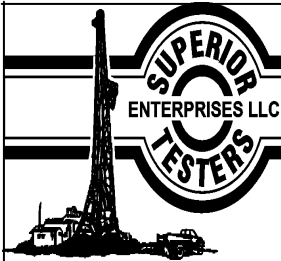
Start Date: 2013.08.26 @ 02:15:00

End Date: 2013.08.26 @ 11:10:00

Job Ticket #: 18484 DST #: 11

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

Printed: 2013.08.26 @ 11:23:31



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

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Wichita Ks, 67206

Jost #1-29

Job Ticket: 18484

DST#: 11

ATTN: Frank Greenbaum

Test Start: 2013.08.26 @ 02:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:00

Time Test Ended: 11:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3884.00 ft (KB) To 3893.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3893.00 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: 1042.19 psia @ 3889.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.26

End Date:

2013.08.26

Last Calib.:

2013.08.26

Start Time: 02:15:00

End Time:

11:10:00

Time On Btm:

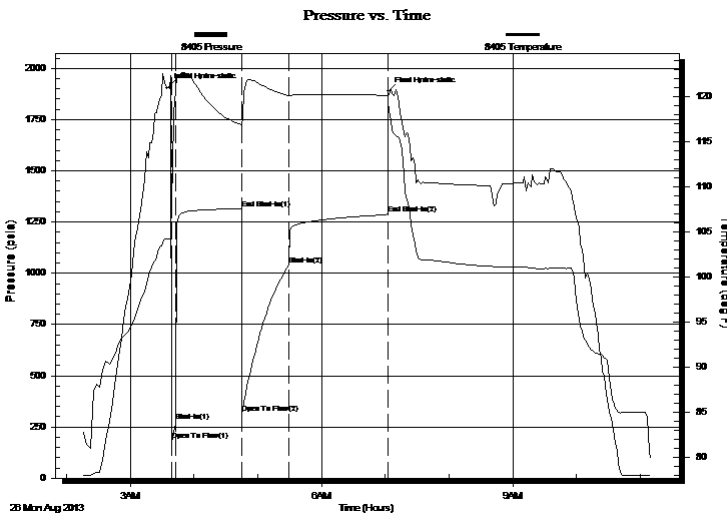
2013.08.26 @ 03:35:00

Time Off Btm:

2013.08.26 @ 07:02:30

TEST COMMENT: 1st Open/ 5 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.
1st Shut In/ 60 Minutes. 1/4 inch blow back.
2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute.
2nd Shut In/ 90 Minutes. Surface blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1905.60	104.19	Initial Hydro-static
4	183.53	108.85	Open To Flow (1)
8	277.87	121.05	Shut-In(1)
70	1315.75	116.86	End Shut-In(1)
70	315.74	116.68	Open To Flow (2)
115	1042.19	120.09	Shut-In(2)
207	1290.30	120.00	End Shut-In(2)
208	1889.00	119.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2961 feet gas.	0.00
2898.00	gassy oil	40.65

Gas Rates

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



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Time Test Ended: 11:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

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Reference Elevations: 1978.00 ft (KB)

Total Depth: 3893.00 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: 1224.87 psia @ 3890.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.26

End Date: 2013.08.26

Last Calib.: 2013.08.26

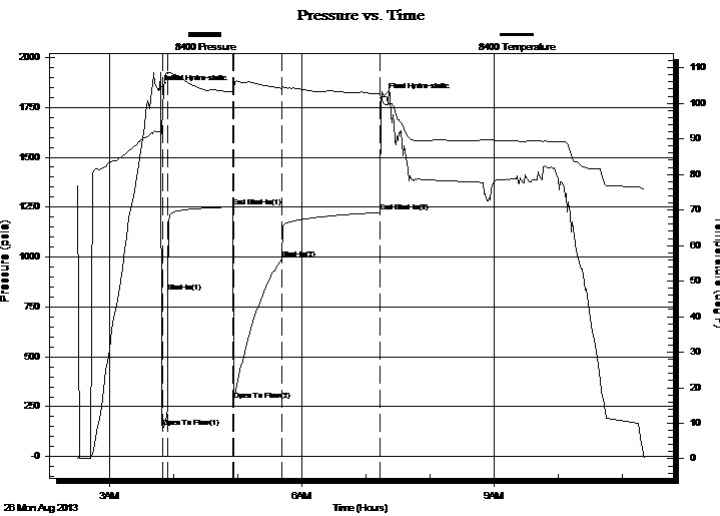
Start Time: 02:15:00

End Time: 11:20:30

Time On Btm: 2013.08.26 @ 03:46:00

Time Off Btm: 2013.08.26 @ 07:14:30

TEST COMMENT: 1st Open/ 5 Minutes. Strong blow built to bottom of 5 gallon bucket in 45 seconds.
1st Shut In/ 60 Minutes. 1/4 inch blow back.
2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute.
2nd Shut In/ 90 Minutes. Surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1838.33	92.00	Initial Hydro-static
4	144.41	98.75	Open To Flow (1)
9	826.51	108.69	Shut-In(1)
69	1251.53	103.15	End Shut-In(1)
70	281.65	104.04	Open To Flow (2)
115	988.51	104.22	Shut-In(2)
208	1224.87	102.58	End Shut-In(2)
209	1798.03	101.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2961 feet gas.	0.00
2898.00	gassy oil	40.65

Gas Rates

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



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TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

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Wichita Ks, 67206

Jost #1-29

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DST#: 11

ATTN: Frank Greenbaum

Test Start: 2013.08.26 @ 02:15:00

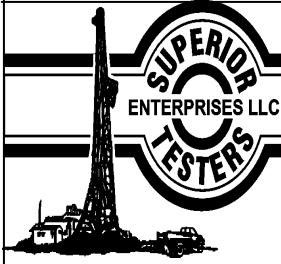
Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 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:	70000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3884.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	38.00 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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Change Over Sub	1.00			3856.00	
Shut-In Tool	5.00			3861.00	
Hydroic Tool	5.00			3866.00	
Jars	6.00			3872.00	
Safety Joint	2.00			3874.00	
Packer	5.00			3879.00	29.00 Bottom Of Top Packer
Packer	5.00			3884.00	
Perforations	4.00			3888.00	
Recorder	1.00	8405	Inside	3889.00	
Recorder	1.00	8400	Outside	3890.00	
Bullnose	3.00			3893.00	9.00 Bottom Packers & Anchor

Total Tool Length: 38.00



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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: 64.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 7000.00 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	2961 feet gas.	0.000
2898.00	gassy oil	40.651

Total Length: 2898.00 ft Total Volume: 40.651 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Reversed fluid out to a truck.

Pressure vs. Time

