



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: 2013.08.19 @ 21:35:00

End Date: 2013.08.20 @ 03:26:00

Job Ticket #: 18476 DST #: 3

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

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29/21s/15w/Pawnee

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Wichita Ks, 67206

Jost #1-29

Job Ticket: 18476

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.08.19 @ 21:35:00

GENERAL INFORMATION:

Formation: **Neva/ Red Eagle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:03:30

Time Test Ended: 03:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2432.00 ft (KB) To 2532.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2532.00 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: 832.83 psia @ 2518.13 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.19

End Date:

2013.08.20

Last Calib.:

2013.08.19

Start Time: 19:35:00

End Time:

01:26:00

Time On Btm:

2013.08.19 @ 20:59:30

Time Off Btm:

2013.08.19 @ 23:35:00

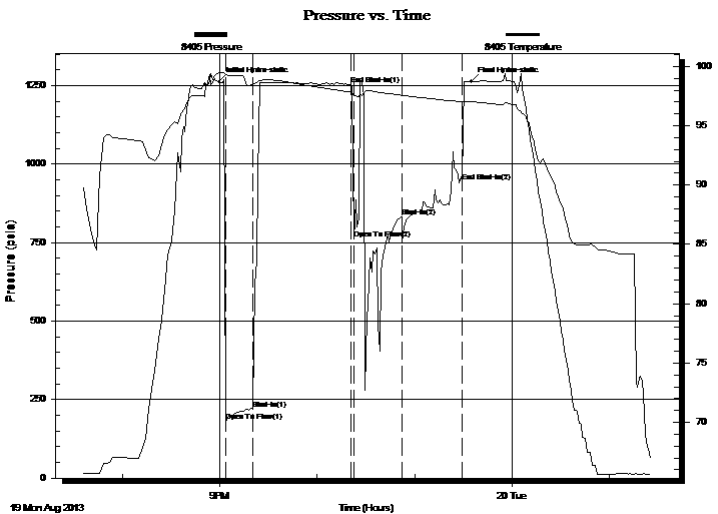
TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to bottom of 5 gallon bucket in 11 minutes.

1st Shut In/ 60 Minutes. No blow back.

2nd Open/ 30 Minutes. No blow, flushed tool and gained a blow that built to 3 inches in 5 gallon bucket.

2nd Shut In/ 60 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1261.14	99.44	Initial Hydro-static
4	181.37	99.29	Open To Flow (1)
21	219.20	98.49	Shut-In(1)
82	1253.99	97.82	End Shut-In(1)
83	761.26	97.56	Open To Flow (2)
113	832.83	97.56	Shut-In(2)
150	942.55	97.02	End Shut-In(2)
156	1262.81	97.03	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
315.00	2.5% gas, 97.5% mud	4.42

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



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Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 2432.00 ft (KB) To 2532.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 2532.00 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: 949.22 psia @ 2519.13 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.19

End Date: 2013.08.20

Last Calib.: 2013.08.19

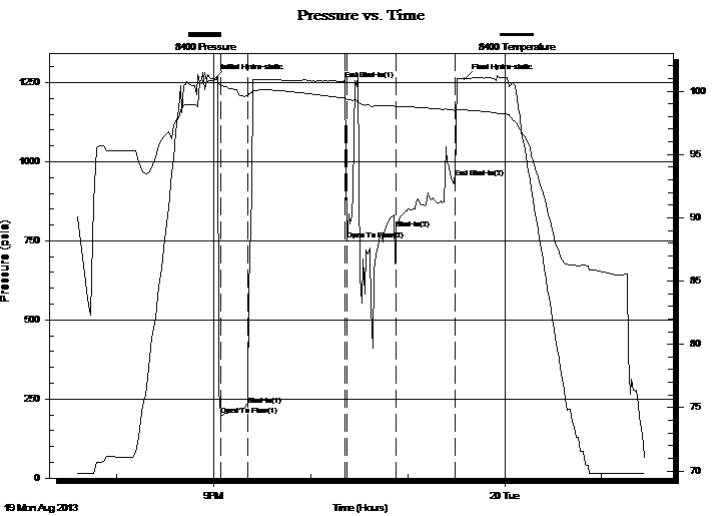
Start Time: 19:35:00

End Time: 01:26:30

Time On Btm: 2013.08.19 @ 21:00:30

Time Off Btm: 2013.08.19 @ 23:35:30

TEST COMMENT: 1st Open/ 15 Minutes. Fair blow built to bottom of 5 gallon bucket in 11 minutes.
1st Shut In/ 60 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow, flushed tool and gained a blow that built to 3 inches in 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1261.39	100.88	Initial Hydro-static
4	197.83	100.48	Open To Flow (1)
21	230.27	99.59	Shut-In(1)
81	1258.42	99.44	End Shut-In(1)
82	752.60	99.31	Open To Flow (2)
113	788.95	98.81	Shut-In(2)
149	949.22	98.49	End Shut-In(2)
155	1262.42	98.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
315.00	2.5% gas, 97.5% mud	4.42

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

Job Ticket: 18476

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.08.19 @ 21:35:00

Tool Information

Drill Pipe:	Length: 2428.00 ft	Diameter: 3.80 inches	Volume: 34.06 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: 50000.00 lb
			<u>Total Volume: 34.06 bbl</u>	Tool Chased 11.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2432.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.13 ft			
Tool Length:	119.13 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			2404.00	
Shut-In Tool	5.00			2409.00	
Hydroic Tool	5.00			2414.00	
Jars	6.00			2420.00	
Safety Joint	2.00			2422.00	
Packer	5.00			2427.00	29.00 Bottom Of Top Packer
Packer	5.00			2432.00	
Perforations	5.00			2437.00	
Change Over Sub	0.75			2437.75	
Drill Pipe	62.63			2500.38	
Change Over Sub	0.75			2501.13	
Perforations	16.00			2517.13	
Recorder	1.00	8405	Inside	2518.13	
Recorder	1.00	8400	Outside	2519.13	
Bullnose	3.00			2522.13	90.13 Bottom Packers & Anchor

Total Tool Length: 119.13



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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: 43.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 26000.00 ppm
Filter Cake: 2.00 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
315.00	2.5% gas, 97.5% mud	4.419

Total Length: 315.00 ft Total Volume: 4.419 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

