



DRILL STEM TEST REPORT

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

9431 East Central Suit 100
Wichita Kansas 67206

ATTN: Ryan Greenbaum

Sonja Phillips 1-22

22-20s-14w-Barton

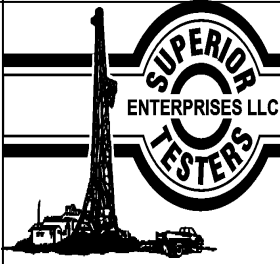
Start Date: 2014.02.11 @ 12:36:00

End Date: 2014.02.11 @ 19:48:00

Job Ticket #: 19257 DST #: 6

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

Printed: 2014.02.11 @ 08:51:54



DRILL STEM TEST REPORT

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Job Ticket: 19257

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Test Start: 2014.02.11 @ 12:36:00

GENERAL INFORMATION:

Formation: **Lansing K-L&Conglome**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:30

Time Test Ended: 19:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-20

Interval: 3450.00 ft (KB) To 385.00 ft (KB) (TVD)

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8931

Inside

Press@RunDepth: 102.61 psig @ 3580.77 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.11

End Date: 2014.02.11

Last Calib.: 2014.02.11

Start Time: 12:36:00

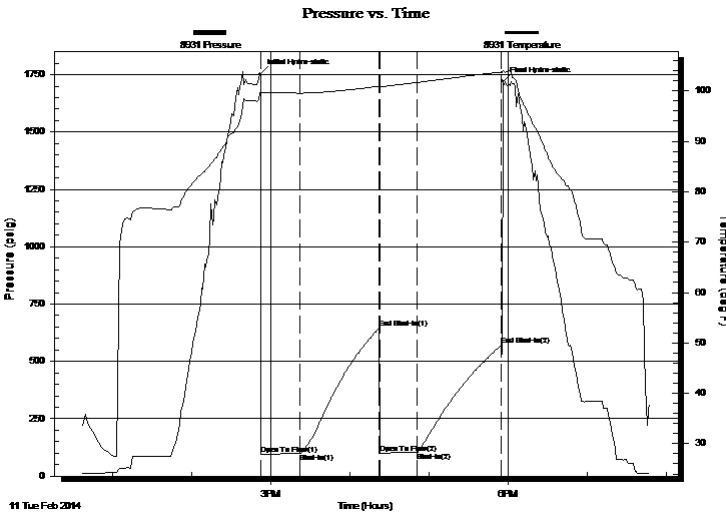
End Time: 19:48:00

Time On Btm: 2014.02.11 @ 14:52:00

Time Off Btm: 2014.02.11 @ 17:56:00

TEST COMMENT: 1st Open 30 minutes Weak blow buit to 2 inches into a 5 gallon bucket of water.
1st Shut int 60 minutes No blow back
2nd Open 30 minutes Dead Flushed tool, weak surface blow through out.
2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.14	99.82	Initial Hydro-static
1	94.65	99.42	Open To Flow (1)
30	97.63	99.56	Shut-In(1)
90	644.86	100.93	End Shut-In(1)
91	98.34	100.72	Open To Flow (2)
119	102.61	101.68	Shut-In(2)
183	570.29	103.76	End Shut-In(2)
184	1721.33	104.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	very lightly oil spotted mud 100% Mud	0.42

Gas Rates

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



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Total Depth: 3585.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6651 Outside

Press@RunDepth: 573.74 psig @ 3580.77 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.02.11

End Date:

2014.02.11

Last Calib.:

1899.12.30

Start Time: 12:36:00

End Time:

19:48:00

Time On Btm:

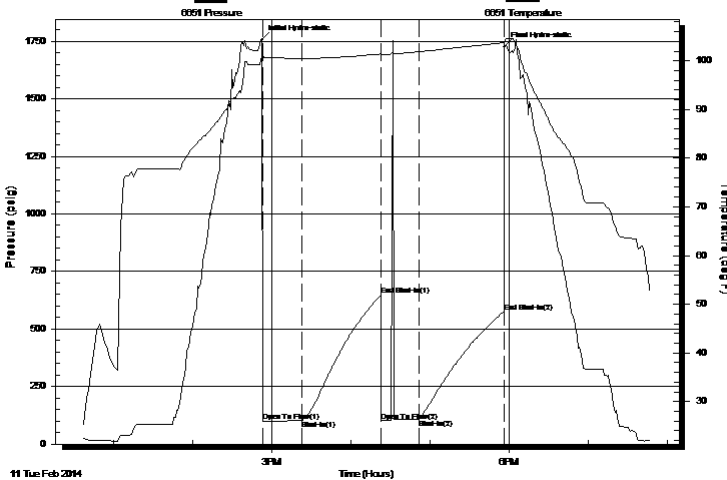
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Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.61	101.11	Initial Hydro-static
1	99.27	100.30	Open To Flow (1)
31	101.93	100.48	Shut-In(1)
90	646.94	101.39	End Shut-In(1)
91	101.32	101.00	Open To Flow (2)
119	107.00	101.87	Shut-In(2)
184	573.74	103.70	End Shut-In(2)
184	1725.76	104.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	very lightly oil spotted mud 100% Mud	0.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company LLC.

22-20s-14w-Barton

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Sonja Phillips 1-22

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DST#: 6

ATTN: Ryan Greenbaum

Test Start: 2014.02.11 @ 12:36:00

Tool Information

Drill Pipe:	Length: 3429.00 ft	Diameter: 3.80 inches	Volume: 48.10 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: 55000.00 lb
			<u>Total Volume: 48.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3450.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	135.77 ft			
Tool Length:	163.77 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3427.00	
Hydraulic tool	5.00			3432.00	
Jars	6.00			3438.00	
Safety Joint	2.00			3440.00	
Top Packer	5.00			3445.00	
Packer	5.00			3450.00	28.00 Bottom Of Top Packer
Anchor	7.00			3457.00	
Change Over Sub	0.00			3457.00	
Drill Pipe	96.77			3553.77	
Change Over Sub	0.00			3553.77	
Anchor	27.00			3580.77	
Recorder	0.00	8931	Inside	3580.77	
Recorder	0.00	6651	Outside	3580.77	
Bull Plug	5.00			3585.77	135.77 Anchor Tool

Total Tool Length: 163.77



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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: 40.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 6500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	very lightly oil spotted mud 100% Mud	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

