



DRILL STEM TEST REPORT

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

9431 East Central STE 100
Wichita Kansas 67206

ATTN: Rene Husted

Calcara unit 1-19

19-19s-14-Barton

Start Date: 2014.06.09 @ 12:28:00

End Date: 2014.06.09 @ 17:59:30

Job Ticket #: 18336 DST #: 10

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

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DRILL STEM TEST REPORT

F.G. Holl Company
 9431 East Central STE 100
 Wichita Kansas 67206
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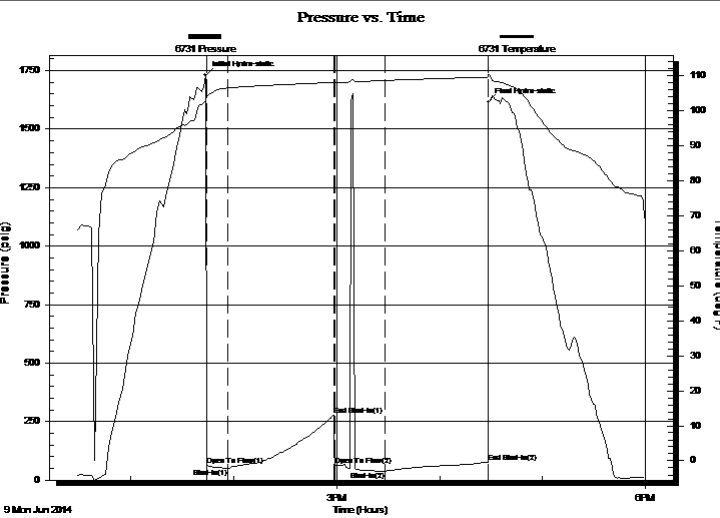
19-19s-14-Barton
Calcara unit 1-19
 Job Ticket: 18336 **DST#: 10**
 Test Start: 2014.06.09 @ 12:28:00

GENERAL INFORMATION:

Formation: **Lansing K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:44:30
 Time Test Ended: 17:59:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-15
 Interval: **3396.00 ft (KB) To 3412.00 ft (KB) (TVD)**
 Total Depth: 3412.00 ft (KB) (TVD)
 Reference Elevations: 1904.00 ft (KB)
 1896.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6731 Inside
 Press@RunDepth: 38.77 psig @ 3407.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.06.09 End Date: 2014.06.09 Last Calib.: 2014.06.09
 Start Time: 12:28:00 End Time: 17:59:30 Time On Btm: 2014.06.09 @ 13:43:30
 Time Off Btm: 2014.06.09 @ 16:28:30

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 2.5 inches into a 5 gallon bucket of water.
 1st Shut in 60 minutes No blow back.
 2nd Open 30 minutes Dead Flushed tool no help.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.00	102.72	Initial Hydro-static
1	64.58	103.96	Open To Flow (1)
13	50.50	106.43	Shut-In(1)
75	275.70	108.03	End Shut-In(1)
76	62.59	107.99	Open To Flow (2)
105	38.77	108.58	Shut-In(2)
165	77.56	109.57	End Shut-In(2)
165	1615.44	110.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud 100%	0.43

Gas Rates

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



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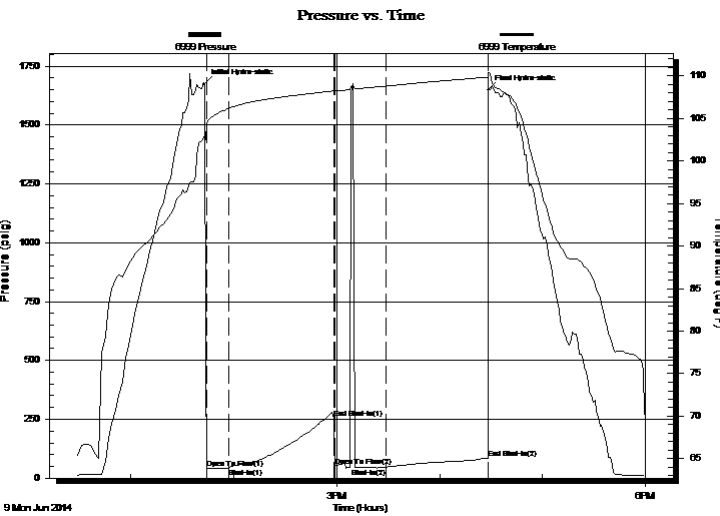
GENERAL INFORMATION:

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 Deviated: No Whipstock: ft (KB)
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 Time Test Ended: 17:59:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-15
 Interval: **3396.00 ft (KB) To 3412.00 ft (KB) (TVD)**
 Reference Elevations: 1904.00 ft (KB)
 Total Depth: 3412.00 ft (KB) (TVD) 1896.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6999 Outside

Press@RunDepth: 84.58 psig @ 3407.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.06.09 End Date: 2014.06.09 Last Calib.: 2014.06.09
 Start Time: 12:28:00 End Time: 17:59:30 Time On Btm: 2014.06.09 @ 13:43:00
 Time Off Btm: 2014.06.09 @ 16:28:30

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 2.5 inches into a 5 gallon bucket of water.
 1st Shut in 60 minutes No blow back.
 2nd Open 30 minutes Dead Flushed tool no help.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.52	103.03	Initial Hydro-static
2	42.36	104.53	Open To Flow (1)
14	43.11	106.17	Shut-In(1)
76	254.41	108.23	End Shut-In(1)
76	49.63	108.22	Open To Flow (2)
106	43.30	108.80	Shut-In(2)
165	84.58	109.85	End Shut-In(2)
166	1648.75	110.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud 100%	0.43

Gas Rates

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



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TOOL DIAGRAM

F.G. Holl Company
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19-19s-14-Barton
Calcara unit 1-19
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Tool Information

Drill Pipe:	Length: 3396.00 ft	Diameter: 3.80 inches	Volume: 47.64 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: 80000.00 lb
			<u>Total Volume: 47.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3396.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 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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Shut In Tool	5.00			3373.00	
Hydraulic tool	5.00			3378.00	
Jars	6.00			3384.00	
Safety Joint	2.00			3386.00	
Top Packer	5.00			3391.00	
Packer	5.00			3396.00	28.00 Bottom Of Top Packer
Perforations	11.00			3407.00	
Recorder	0.00	6731	Inside	3407.00	
Recorder	0.00	6999	Outside	3407.00	
Bull Plug	5.00			3412.00	16.00 Anchor Tool
Total Tool Length:	44.00				



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FLUID SUMMARY

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DST#: 10

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Test Start: 2014.06.09 @ 12:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 11.60 in³
Resistivity: ohm.m
Salinity: 8100.00 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
31.00	Mud 100%	0.435

Total Length: 31.00 ft Total Volume: 0.435 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

