



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: 2014.06.03 @ 09:00:00

End Date: 2014.06.03 @ 14:57:30

Job Ticket #: 18330 DST #: 4

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

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DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company
 9431 East Central STE 100
 Wichita Kansas 67206
 ATTN: Rene Husted

19-19s-14-Barton
Calcara unit 1-19
 Job Ticket: 18330 **DST#: 4**
 Test Start: 2014.06.03 @ 09:00:00

Tool Information

Drill Pipe:	Length: 2233.00 ft	Diameter: 3.80 inches	Volume: 31.32 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: 43000.00 lb
			<u>Total Volume: 31.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	2232.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 675.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2209.00	
Hydraulic tool	5.00			2214.00	
Jars	6.00			2220.00	
Safety Joint	2.00			2222.00	
Top Packer	5.00			2227.00	
Packer	5.00			2232.00	28.00 Bottom Of Top Packer
Perforations	31.00			2263.00	
Recorder	0.00	8931	Inside	2263.00	
Recorder	0.00	6838	Outside	2263.00	
Bull Plug	5.00			2268.00	36.00 Anchor Tool
Total Tool Length:	64.00				



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FLUID SUMMARY

F.G. Holl Company

19-19s-14-Barton

9431 East Central STE 100
Wichita Kansas 67206

Calcara unit 1-19

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DST#: 4

ATTN: Rene Husted

Test Start: 2014.06.03 @ 09:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 41.00 sec/qt
Water Loss: 15.20 in³
Resistivity: ohm.m
Salinity: 21000.00 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	Mud 100%	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:



DRILL STEM TEST REPORT

GAS RATES

F.G. Holl Company

19-19s-14-Barton

9431 East Central STE 100
Wichita Kansas 67206

Calcara unit 1-19

Job Ticket: 18330

DST#: 4

ATTN: Rene Husted

Test Start: 2014.06.03 @ 09:00:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	20	0.13	5.00	7.26
2	20	0.13	5.00	7.26
2	30	0.13	15.00	11.00
2	40	0.13	26.00	15.12
2	50	0.13	33.00	17.74

