



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 @ 08:11:00

End Date: 2014.06.03 @ 13:46:00

Job Ticket #: 18329 DST #: 3

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

Printed: 2014.06.03 @ 15:03:30



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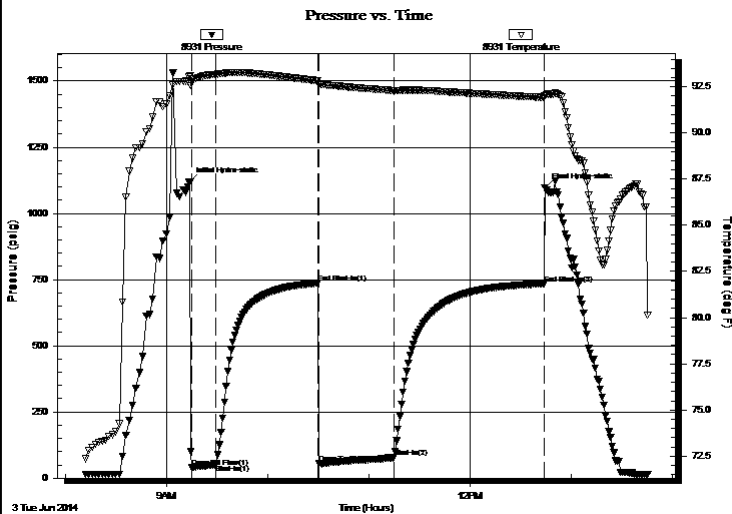
19-19s-14-Barton
Calcara unit 1-19
 Job Ticket: 18329 **DST#: 3**
 Test Start: 2014.06.03 @ 08:11:00

GENERAL INFORMATION:

Formation: **Cottonwood**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:15:00 Tester: Dustin Ellis
 Time Test Ended: 13:46:00 Unit No: 3315-Great Bend-15
 Interval: **2180.00 ft (KB) To 2216.00 ft (KB) (TVD)** Reference Elevations: 1904.00 ft (KB)
 Total Depth: 2216.00 ft (KB) (TVD) 1896.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8931 Inside
 Press@RunDepth: 78.53 psig @ 2211.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.06.03 End Date: 2014.06.03 Last Calib.: 2014.06.03
 Start Time: 08:11:00 End Time: 13:46:00 Time On Btm: 2014.06.03 @ 09:14:00
 Time Off Btm: 2014.06.03 @ 12:44:30

TEST COMMENT: 1st Open 15 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 1.5 minutes.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Strong building blow blew off bottom bucket 45 seconds.
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

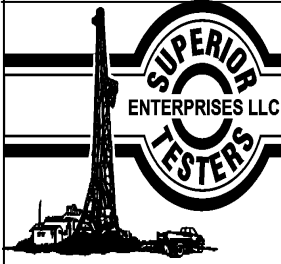
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1119.65	93.11	Initial Hydro-static
1	39.19	92.93	Open To Flow (1)
15	50.72	93.17	Shut-In(1)
76	736.84	92.82	End Shut-In(1)
77	55.90	92.62	Open To Flow (2)
121	78.53	92.29	Shut-In(2)
210	734.30	91.92	End Shut-In(2)
211	1097.38	92.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	1.05

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 2175.00 ft	Diameter: 3.80 inches	Volume: 30.51 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: 36000.00 lb
			<u>Total Volume: 30.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	2180.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2157.00	
Hydraulic tool	5.00			2162.00	
Jars	6.00			2168.00	
Safety Joint	2.00			2170.00	
Top Packer	5.00			2175.00	
Packer	5.00			2180.00	28.00 Bottom Of Top Packer
Perforations	31.00			2211.00	
Recorder	0.00	8931	Inside	2211.00	
Recorder	0.00	6838	Outside	2211.00	
Bull Plug	5.00			2216.00	36.00 Anchor Tool
Total Tool Length:	64.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 15.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 21000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Mud 100%	1.052

Total Length: 75.00 ft Total Volume: 1.052 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

