



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

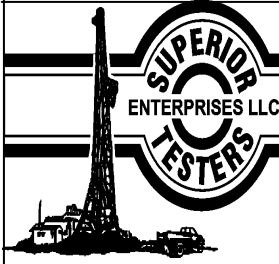
Start Date: 2014.06.06 @ 05:38:00

End Date: 2014.06.06 @ 11:35:30

Job Ticket #: 18331 DST #: 5

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

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 Wichita Kansas 67206
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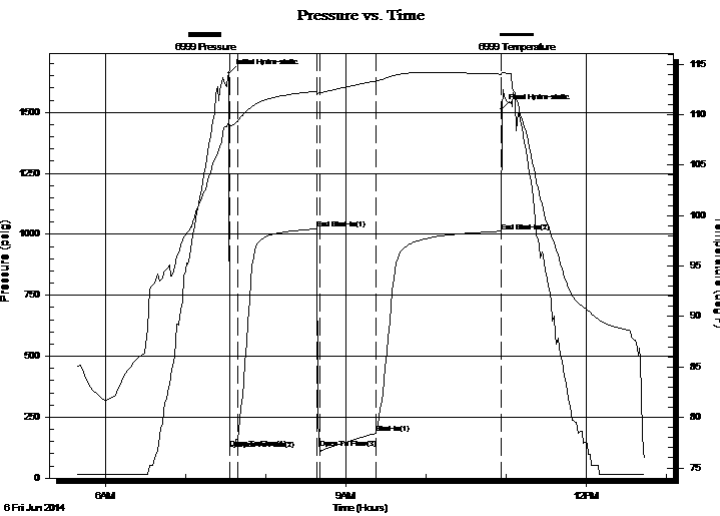
GENERAL INFORMATION:

Formation: **Lancing A,B,C,E,F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:33:00
 Time Test Ended: 11:35:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-15
 Interval: **3204.00 ft (KB) To 3270.00 ft (KB) (TVD)**
 Reference Elevations: 1904.00 ft (KB)
 Total Depth: 3270.00 ft (KB) (TVD) 1896.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6999 Inside

Press@RunDepth: 184.93 psig @ 3265.18 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.06.06 End Date: 2014.06.06 Last Calib.: 2014.06.07
 Start Time: 05:38:00 End Time: 11:35:30 Time On Btm: 2014.06.06 @ 07:32:30
 Time Off Btm: 2014.06.06 @ 10:56:30

TEST COMMENT: 1st Open 5 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 2 minutes.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Strong building blow blew off bottom bucket in 40 seconds.
 2nd Shut in 90 Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.97	109.24	Initial Hydro-static
1	121.34	108.94	Open To Flow (1)
7	155.51	109.33	Open To Flow (2)
66	1021.53	112.29	End Shut-In (1)
68	121.23	112.16	Open To Flow (3)
110	184.93	113.33	Shut-In (1)
204	1008.17	114.01	End Shut-In (2)
204	1514.04	114.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	Clean gassy oil 100%	3.53
123.00	Gassy oil cut mud	1.73
0.00	Oil 80% Gas 10% Mud 10%	0.00
0.00	Gravity of oil 39 corrected	0.00

Gas Rates

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



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TOOL DIAGRAM

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 Job Ticket: 18331 **DST#: 5**
 Test Start: 2014.06.06 @ 05:38:00

Tool Information

Drill Pipe:	Length: 3199.00 ft	Diameter: 3.80 inches	Volume: 44.87 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: 60000.00 lb
			<u>Total Volume: 44.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3204.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.18 ft			
Tool Length:	94.18 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			3181.00	
Hydraulic tool	5.00			3186.00	
Jars	6.00			3192.00	
Safety Joint	2.00			3194.00	
Top Packer	5.00			3199.00	
Packer	5.00			3204.00	28.00 Bottom Of Top Packer
Anchor	6.00			3210.00	
Change Over Sub	0.00			3210.00	
Drill Pipe	31.18			3241.18	
Change Over Sub	0.00			3241.18	
Anchor	24.00			3265.18	
Recorder	0.00	6999	Inside	3265.18	
Recorder	0.00	8931	Outside	3265.18	
Bull Plug	5.00			3270.18	66.18 Anchor Tool

Total Tool Length: 94.18



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FLUID SUMMARY

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Test Start: 2014.06.06 @ 05:38:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 7300.00 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
252.00	Clean gassy oil 100%	3.535
123.00	Gassy oil cut mud	1.725
0.00	Oil 80% Gas 10% Mud 10%	0.000
0.00	Gravity of oil 39 corrected	0.000

Total Length: 375.00 ft Total Volume: 5.260 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

