



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: 2014.06.07 @ 07:41:00

End Date: 2014.06.07 @ 13:53:23

Job Ticket #: 18332 DST #: 6

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

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F.G. Holl Company

19-19s-14-Barton

9431 East Central STE 100
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Calcara unit 1-19

Job Ticket: 18332

DST#: 6

ATTN: Rene Hustedad

Test Start: 2014.06.07 @ 07:41:00

GENERAL INFORMATION:

Formation: **Lancing G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:56:23

Time Test Ended: 13:53:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-15

Interval: 3271.00 ft (KB) To 3285.00 ft (KB) (TVD)

Reference Elevations: 1904.00 ft (KB)

Total Depth: 3285.00 ft (KB) (TVD)

1896.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731

Inside

Press@RunDepth: 133.78 psig @ 3280.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.06.07

End Date: 2014.06.07

Last Calib.: 2014.06.07

Start Time: 07:41:00

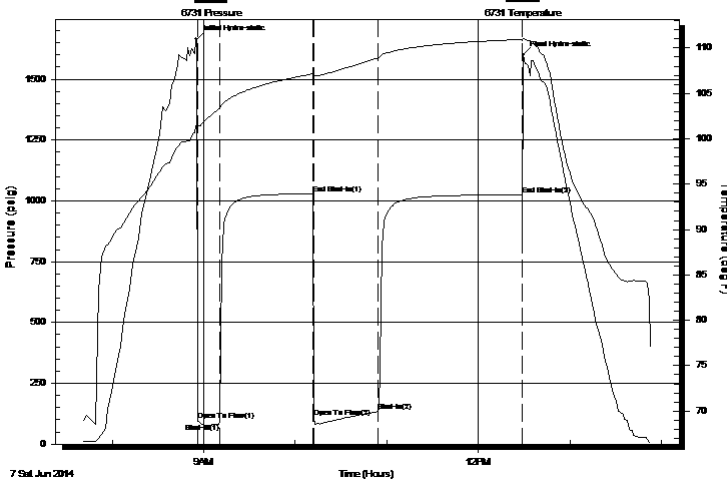
End Time: 13:53:23

Time On Btm: 2014.06.07 @ 08:55:23

Time Off Btm: 2014.06.07 @ 12:29:23

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 4.5 inches into a 5 gallon bucket of water.
1st Shut in 60 minutes No blow back.
2nd Open 45 minutes Weak building blow built to the bottom of a 5 gallon bucket of water in 33 minutes.
2nd Shut in 90 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

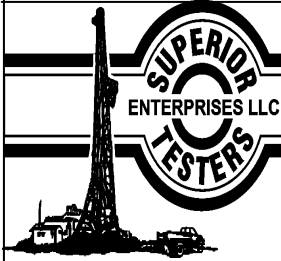
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.49	101.57	Initial Hydro-static
1	96.56	101.34	Open To Flow (1)
16	87.53	103.43	Shut-In(1)
77	1029.07	107.13	End Shut-In(1)
77	109.76	106.85	Open To Flow (2)
119	133.78	108.91	Shut-In(2)
213	1025.36	110.94	End Shut-In(2)
214	1599.08	111.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
195.00	Very lightly oil spotted muddy water	2.74
0.00	Water 40% Mud 60%	0.00
0.00	Chlorides	0.00

Gas Rates

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



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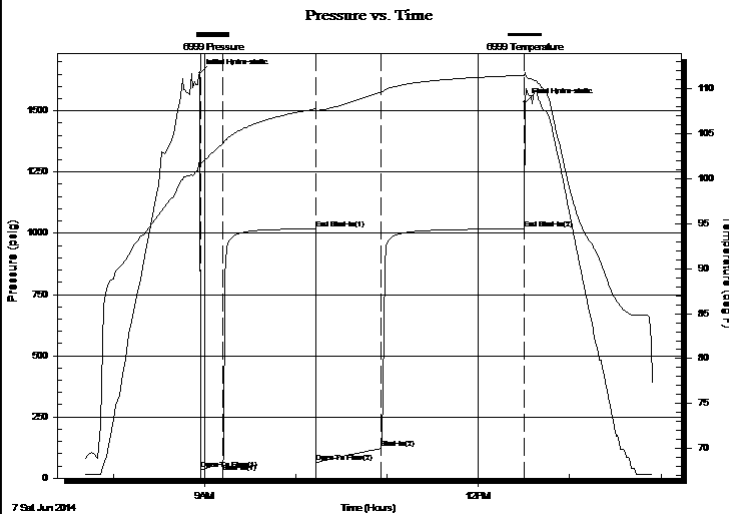
19-19s-14-Barton
Calcara unit 1-19
 Job Ticket: 18332 **DST#: 6**
 Test Start: 2014.06.07 @ 07:41:00

GENERAL INFORMATION:

Formation: **Lancing G**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:56:23
 Tester: Dustin Ellis
 Time Test Ended: 13:53:23
 Unit No: 3315-Great Bend-15
Interval: 3271.00 ft (KB) To 3285.00 ft (KB) (TVD)
 Reference Elevations: 1904.00 ft (KB)
 Total Depth: 3285.00 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: 1017.74 psig @ 3280.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.06.07 End Date: 2014.06.07 Last Calib.: 2014.06.07
 Start Time: 07:41:00 End Time: 13:55:00 Time On Btm: 2014.06.07 @ 08:57:00
 Time Off Btm: 2014.06.07 @ 12:30:30

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 4.5 inches into a 5 gallon bucket of water.
 1st Shut in 60 minutes No blow back.
 2nd Open 45 minutes Weak building blow built to the bottom of a 5 gallon bucket of water in 33 minutes.
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.84	101.86	Initial Hydro-static
1	34.62	101.67	Open To Flow (1)
15	60.00	103.88	Shut-In(1)
76	1018.10	107.75	End Shut-In(1)
77	64.20	107.55	Open To Flow (2)
120	121.20	109.59	Shut-In(2)
213	1017.74	111.48	End Shut-In(2)
214	1533.98	111.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
195.00	Very lightly oil spotted muddy water	2.74
0.00	Water 40% Mud 60%	0.00
0.00	Chlorides	0.00

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
 Job Ticket: 18332 **DST#: 6**
 Test Start: 2014.06.07 @ 07:41:00

Tool Information

Drill Pipe:	Length: 3263.00 ft	Diameter: 3.80 inches	Volume: 45.77 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: 62000.00 lb
			<u>Total Volume: 45.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3271.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 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			3248.00	
Hydraulic tool	5.00			3253.00	
Jars	6.00			3259.00	
Safety Joint	2.00			3261.00	
Top Packer	5.00			3266.00	
Packer	5.00			3271.00	28.00 Bottom Of Top Packer
Perforations	9.00			3280.00	
Recorder	0.00	6731	Inside	3280.00	
Recorder	0.00	6999	Outside	3280.00	
Bull Plug	5.00			3285.00	14.00 Anchor Tool
Total Tool Length:	42.00				



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FLUID SUMMARY

F.G. Holl Company

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Job Ticket: 18332

DST#: 6

ATTN: Rene Husted

Test Start: 2014.06.07 @ 07:41:00

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
195.00	Very lightly oil spotted muddy w ater	2.735
0.00	Water 40% Mud 60%	0.000
0.00	Chlorides	0.000

Total Length: 195.00 ft Total Volume: 2.735 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

