



DRILL STEM TEST REPORT

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

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Dunavan 1-14

14-20s-15w-Barton

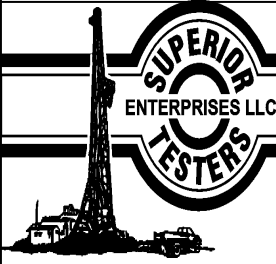
Start Date: 2012.07.14 @ 03:11:00

End Date: 2012.07.14 @ 09:53:00

Job Ticket #: 17305 DST #: 4

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

Printed: 2012.07.14 @ 08:15:40



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Job Ticket: 17305

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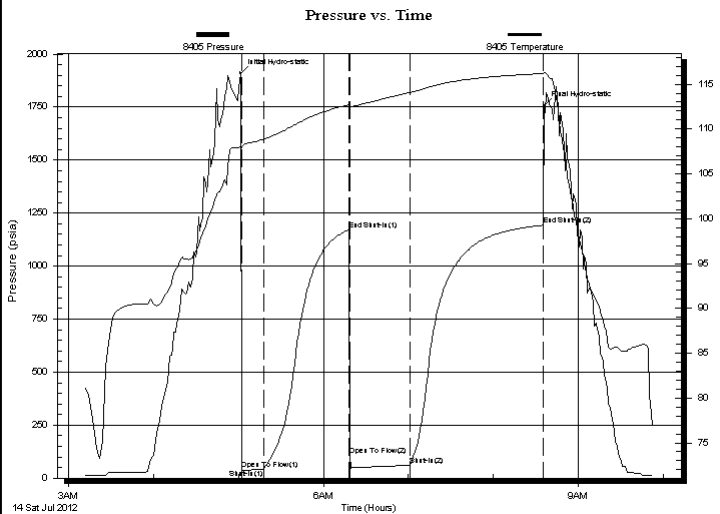
Test Start: 2012.07.14 @ 03:11:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 05:02:00 Tester: Dustin Ellis
Time Test Ended: 09:53:00 Unit No: 3315-Great Bend-30
Interval: **3726.00 ft (KB) To 3738.00 ft (KB) (TVD)** Reference Elevations: 1990.00 ft (KB)
Total Depth: 3738.00 ft (KB) (TVD) 1982.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8405 Inside
Press @ Run Depth: 60.40 psia @ 3734.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2012.07.14 End Date: 2012.07.14 Last Calib.: 2012.07.14
Start Time: 03:11:00 End Time: 09:53:00 Time On Btm: 2012.07.14 @ 05:01:30
Time Off Btm: 2012.07.14 @ 08:36:00

TEST COMMENT: 1st Open 15 minutes Fair building blow built to bottom bucket 8 minutes
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Fair building blow blew bottom bucket 2 minutes
2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

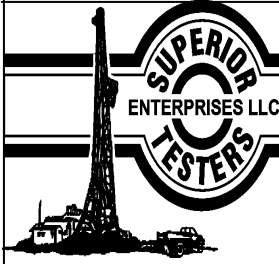
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1909.89	108.10	Initial Hydro-static
1	43.54	107.88	Open To Flow (1)
16	42.73	108.86	Shut-In(1)
77	1171.14	112.73	End Shut-In(1)
77	110.27	112.38	Open To Flow (2)
120	60.40	114.07	Shut-In(2)
214	1192.94	116.20	End Shut-In(2)
215	1755.99	116.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Oil cut mud 10% oil 90% mud	0.11
60.00	Oil cut mud 10%oil 90% mud	0.84
0.00		0.00

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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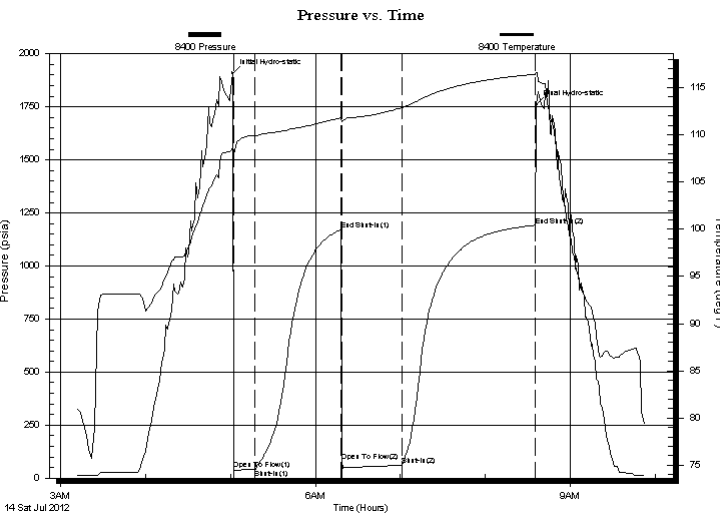
14-20s-15w-Barton
Dunavan 1-14
 Job Ticket: 17305 **DST#: 4**
 Test Start: 2012.07.14 @ 03:11:00

GENERAL INFORMATION:

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 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:02:00
 Time Test Ended: 09:53:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-30
 Interval: **3726.00 ft (KB) To 3738.00 ft (KB) (TVD)**
 Reference Elevations: 1990.00 ft (KB)
 Total Depth: 3738.00 ft (KB) (TVD) 1982.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8400 Outside
 Press @ RunDepth: 1191.54 psia @ 3735.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.14 End Date: 2012.07.14 Last Calib.: 2012.07.14
 Start Time: 03:11:00 End Time: 09:53:00 Time On Btm: 2012.07.14 @ 05:01:30
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TEST COMMENT: 1st Open 15 minutes Fair building blow built to bottom bucket 8 minutes
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes Fair building blow blew bottom bucket 2 minutes
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1908.49	108.63	Initial Hydro-static
1	41.67	108.28	Open To Flow (1)
16	42.13	109.89	Shut-In(1)
77	1170.08	111.81	End Shut-In(1)
77	81.34	111.36	Open To Flow (2)
120	60.86	112.89	Shut-In(2)
214	1191.54	116.42	End Shut-In(2)
215	1758.68	116.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	Oil cut mud 10% oil 90% mud	0.11
60.00	Oil cut mud 10% oil 90% mud	0.84
0.00		0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G Holl Company

14-20s-15w-Barton

9431 East Central Suite 100
Wichita Kansas 67206

Dunavan 1-14

Job Ticket: 17305

DST#: 4

ATTN: Frank Greenbaum

Test Start: 2012.07.14 @ 03:11:00

Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 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: 55000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3726.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3703.00	
Hydraulic Tool	5.00			3708.00	
Jars	6.00			3714.00	
Safety Joint	2.00			3716.00	
Packer	5.00			3721.00	28.00 Bottom Of Top Packer
Packer	5.00			3726.00	
Anchor	7.00			3733.00	
Recorder	1.00	8405	Inside	3734.00	
Recorder	1.00	8400	Outside	3735.00	
Bull Plug	3.00			3738.00	12.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



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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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6700.00 ppm			
Filter Cake: 1.00 inches			

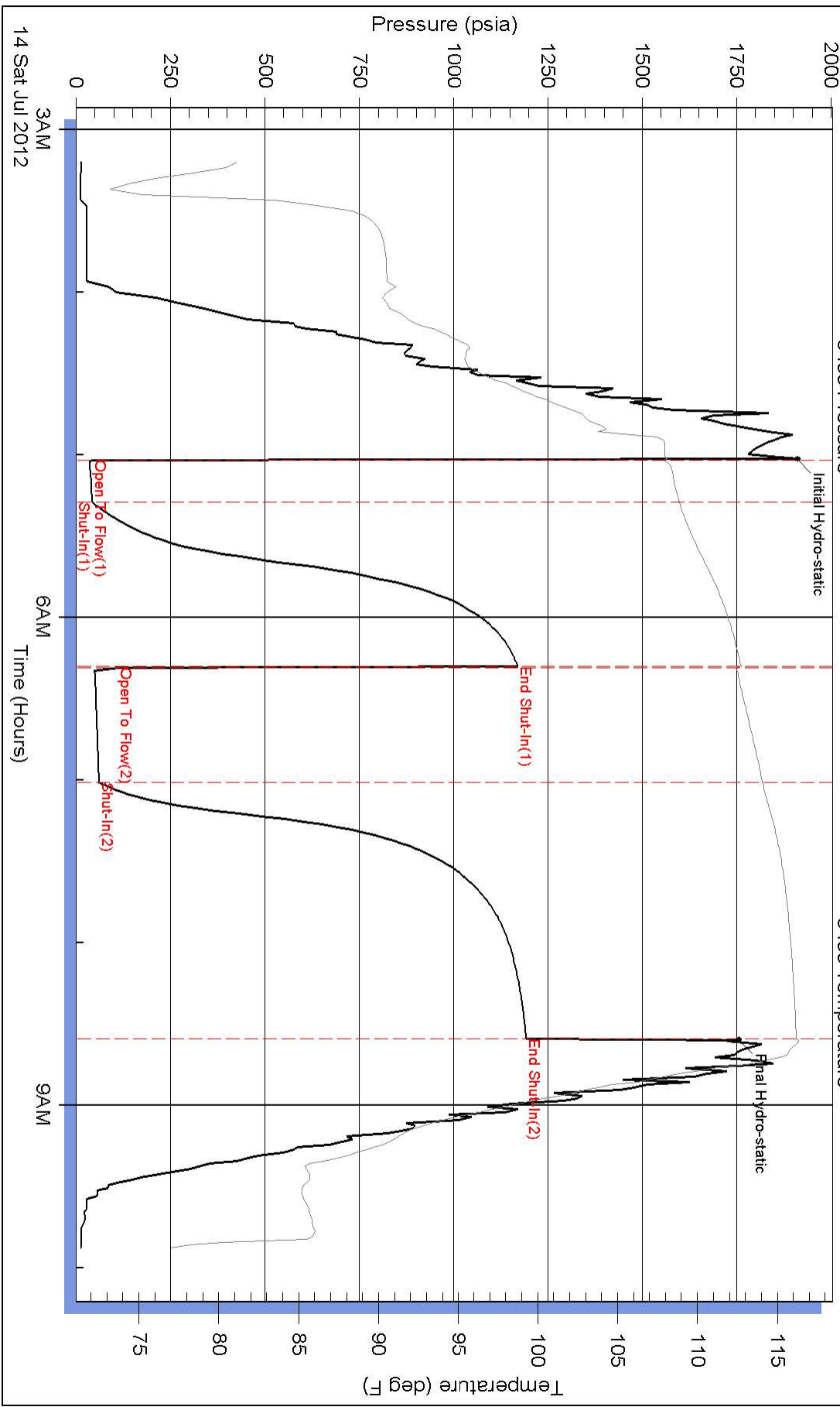
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Oil cut mud 10% oil 90% mud	0.112
60.00	Oil cut mud 10% oil 90% mud	0.842
0.00		0.000

Total Length: ft Total Volume: 0.982 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time

