



DRILL STEM TEST REPORT

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

9431 E Central Ste 100 Wichita KS 67206-2563

ATTN: Ryan Greenbaum

Thompson # 2-30

30-30-13 Barber

Start Date: 2012.07.21 @ 22:51:00

End Date: 2012.07.22 @ 05:16:00

Job Ticket #: 17370 DST #: 1

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

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30-30-13 Barber

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ATTN: Ryan Greenbaum

Job Ticket: 17370

DST#: 1

Test Start: 2012.07.21 @ 22:51:00

GENERAL INFORMATION:

Formation: **Douglas SS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:42:30

Time Test Ended: 05:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Pratt-

Interval: 3790.00 ft (KB) To 3830.00 ft (KB) (TVD)

Reference Elevations: 1826.00 ft (KB)

Total Depth: 3830.00 ft (KB) (TVD)

1813.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 6731

Press @ RunDepth: 211.82 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.21

End Date:

2012.07.22

Last Calib.:

2012.07.22

Start Time: 22:51:00

End Time:

05:16:00

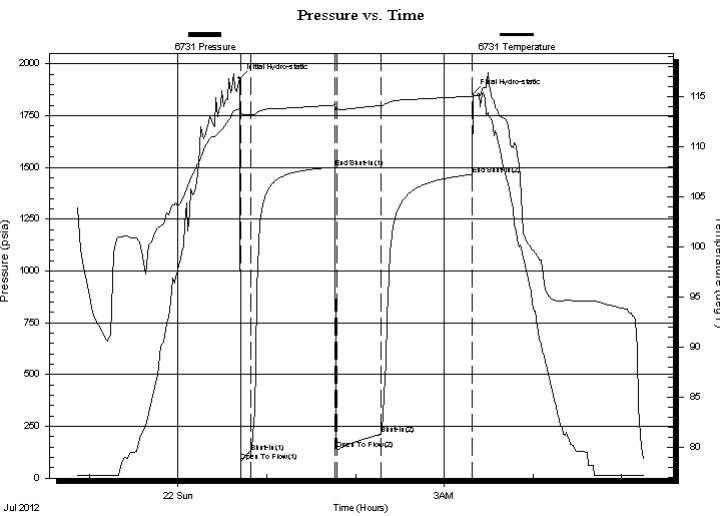
Time On Btm:

2012.07.22 @ 00:41:30

Time Off Btm:

2012.07.22 @ 03:19:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 3 1/2 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 4 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1930.52	113.88	Initial Hydro-static
1	79.04	113.33	Open To Flow (1)
8	126.04	113.21	Shut-In(1)
65	1500.72	114.20	End Shut-In(1)
66	139.75	113.79	Open To Flow (2)
96	211.82	114.14	Shut-In(2)
157	1465.81	115.07	End Shut-In(2)
158	1855.93	115.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	Water 5 %mud 95%w water	3.13
0.00	Chlorides 144,000 resistivity .1 @ 75 d	0.00

Gas Rates

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



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Test Start: 2012.07.21 @ 22:51:00

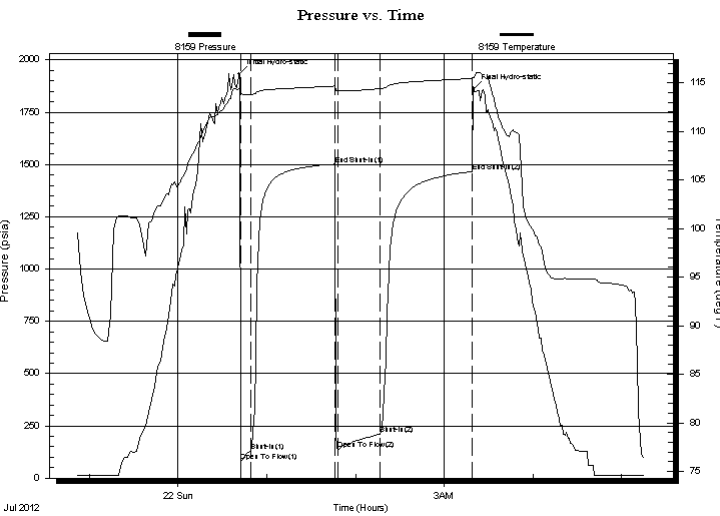
GENERAL INFORMATION:

Formation: **Douglas SS**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:42:30
 Time Test Ended: 05:16:00
 Interval: **3790.00 ft (KB) To 3830.00 ft (KB) (TVD)**
 Total Depth: 3830.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Pratt-
 Reference Elevations: 1826.00 ft (KB)
 1813.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8159

Press @RunDepth: 1466.73 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.21 End Date: 2012.07.22 Last Calib.: 2012.07.22
 Start Time: 22:51:00 End Time: 05:16:00 Time On Btm: 2012.07.22 @ 00:41:30
 Time Off Btm: 2012.07.22 @ 03:20:00

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 3 1/2 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 4 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1934.34	114.43	Initial Hydro-static
1	80.33	113.87	Open To Flow (1)
8	127.06	113.78	Shut-In(1)
65	1501.60	114.69	End Shut-In(1)
67	138.69	114.21	Open To Flow (2)
95	211.77	114.40	Shut-In(2)
158	1466.73	115.46	End Shut-In(2)
159	1862.96	115.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	Water 5 %mud 95%w water	3.13
0.00	Chlorides 144,000 resistivity .1 @ 75 d	0.00

Gas Rates

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



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TOOL DIAGRAM

F.G Holl Company

30-30-13 Barber

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Thompson # 2-30

Job Ticket: 17370

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2012.07.21 @ 22:51:00

Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 bbl	Tool Weight: 1000.00 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3790.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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-InTool	5.00		Inside	3767.00	
Hydraulic Tool	5.00			3772.00	
Jars	6.00			3778.00	
Safety Joint	2.00			3780.00	
Packer	5.00			3785.00	28.00 Bottom Of Top Packer
Packer	5.00			3790.00	
Anchor	35.00			3825.00	
Recorder	1.00	6731	Inside	3826.00	
Recorder	1.00	8159	Outside	3827.00	
Bullnose	3.00			3830.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



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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: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 7200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	Water 5 %mud 95%w ater	3.130
0.00	Chlorides 144,000 resistivity .1 @ 75 d	0.000

Total Length: 340.00 ft Total Volume: 3.130 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

