



DRILL STEM TEST REPORT

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

9431 East Central Suit 100
Wichita Kansas 6205

ATTN: Rene Husted

Mull unit #B 1-14

14-20s-15w-Barton

Start Date: 2012.08.16 @ 00:00:00

End Date: 2012.08.16 @ 00:00:00

Job Ticket #: 17787 DST #: 4

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

Printed: 2012.08.19 @ 10:34:29

F.G Holl Company

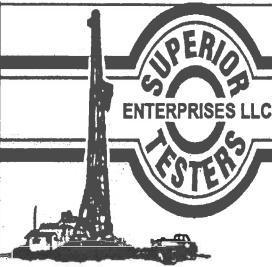
14-20s-15w-Barton

Mull unit #B 1-14

DST # 4

Arbuckle

2012.08.16



DRILL STEM TEST REPORT

F.G Holl Company
 9431 East Central Suit 100
 Wichita Kansas 6205
 ATTN: Rene Hustedad

14-20s-15w-Barton
Mull unit #B 1-14
 Job Ticket: 17787 **DST#: 4**
 Test Start: 2012.08.16 @ 00:00:00

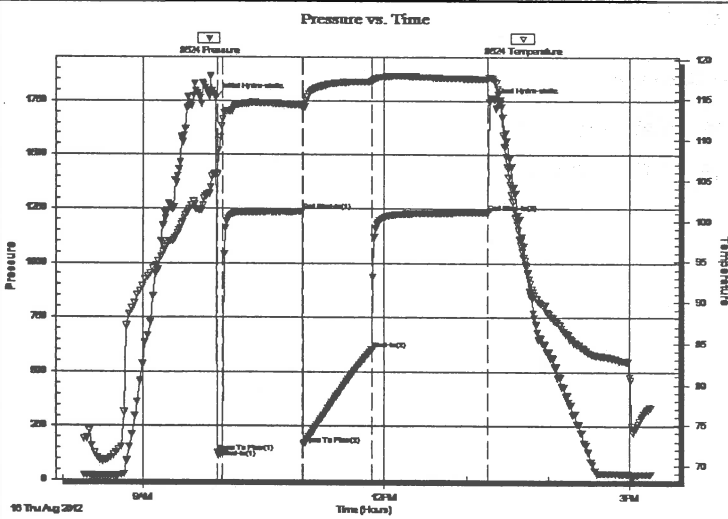
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3716.00 ft (KB) To 3725.00 ft (KB) (TVD)**
 Total Depth: 3725.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3335
 Reference Elevations: 2002.00 ft (KB)
 1994.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8524

Press@RunDepth: 1233.32 psia @ ft (KB) Capacity: psia
 Start Date: 2012.08.16 End Date: 2012.08.16 Last Calib.: 1899.12.30
 Start Time: 08:16:00 End Time: 15:15:30 Time On Btm: 2012.08.16 @ 09:55:30
 Time Off Btm: 2012.08.16 @ 13:16:30

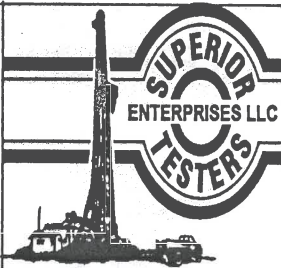
TEST COMMENT: 1st Opening 5 Minutes-Good b low built to the bottom of a 5 gallon bucket in 1 minute
 1st ShutIn 60 Minutes-Weak blow back
 2nd Opening 45 Minutes-Good blow built to the bottom of a 5 gallon bucket in 2 minutes
 2nd Shut-In 90 Minutes-Weak blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1762.59	105.83	Initial Hydro-static
1	128.16	105.67	Open To Flow (1)
5	140.50	112.52	Shut-In(1)
64	1237.46	114.36	End Shut-In(1)
65	166.66	113.84	Open To Flow (2)
116	604.09	117.19	Shut-In(2)
200	1233.32	117.52	End Shut-In(2)
201	1744.72	117.74	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1100.00	Gas in the pipe	0.00
200.00	w ater w with a scum of oil	0.00
1100.00	Water Chlorides 22000	0.00

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



DRILL STEM TEST REPORT

F.G Holl Company

14-20s-15w-Barton

9431 East Central Suit 100
Wichita Kansas 6205

Mull unit #B 1-14

Job Ticket: 17787

DST#: 4

ATTN: Rene Hustedad

Test Start: 2012.08.16 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: **3716.00 ft (KB) To 3725.00 ft (KB) (TVD)**

Total Depth: 3725.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2002.00 ft (KB)

1994.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 91716

Press@RunDepth: 1229.58 psia @ ft (KB)

Start Date: 2012.08.16

End Date: 2012.08.16

Capacity: psia

Last Calib.: 1899.12.30

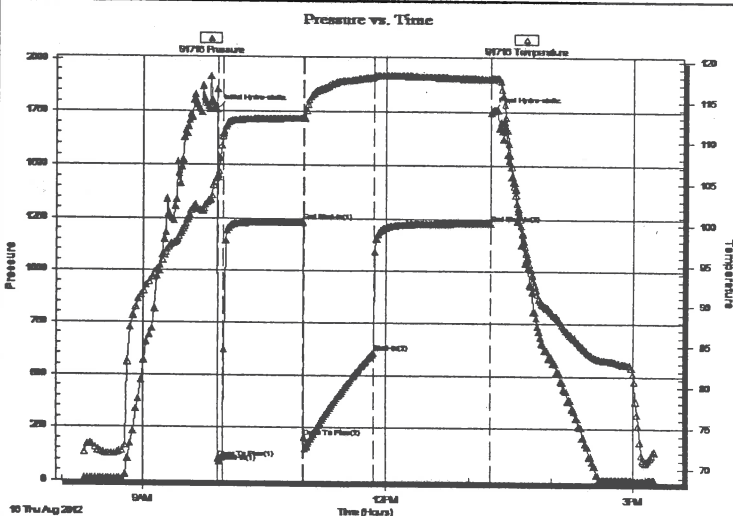
Start Time: 08:16:30

End Time: 15:16:30

Time On Btm: 2012.08.16 @ 09:55:30

Time Off Btm: 2012.08.16 @ 13:16:30

TEST COMMENT: 1st Opening 5 Minutes-Good b low built to the bottom of a 5 gallon bucket in 1 minute
1st Shutln 60 Minutes-Weak blow back
2nd Opening 45 Minutes-Good blow built to the bottom of a 5 gallon bucket in 2 minutes
2nd Shut-In 90 Minutes-Weak blow back



PRESSURE SUMMARY

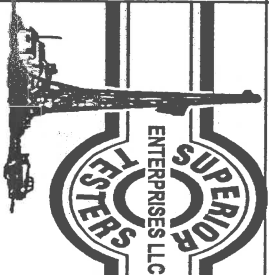
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1760.73	105.73	Initial Hydro-static
1	104.04	106.08	Open To Flow (1)
5	125.48	111.09	Shut-In(1)
64	1231.75	112.90	End Shut-In(1)
65	205.49	112.91	Open To Flow (2)
116	606.63	118.01	Shut-In(2)
200	1229.58	117.79	End Shut-In(2)
201	1757.38	117.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1100.00	Gas in the pipe	0.00
200.00	water with a scum of oil	0.00
1100.00 ?	Water Chlorides 22000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRA

F.G.Holl Company
 9431 East Central Suit 100
 Wichita Kansas 6205
 A T T N : Renee Hustedad

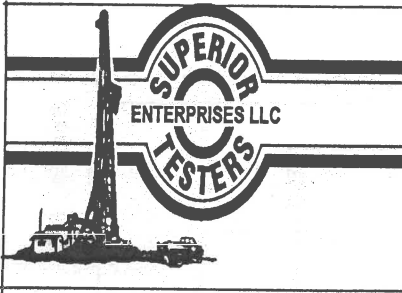
14-20s-15w-Barton
 Mull unit #B 1-14
 Job Ticket: 17787
 Test Start: 2012.08.16 @ 00:00:00
 DST#:4

Tool Information

Drill Pipe:	Length: 3724.00 ft	Diameter: 0.00 inches	Volume: 0.00 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:</u> 0.00 bbl	Tool Crased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3716.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	9.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3698.00	
Hydraulic Tool	5.00			3703.00	
Jars	6.00			3709.00	
Safety Joint	2.00			3711.00	
Packer	5.00			3716.00	23.00 Bottom Of Top Packei
Perforations	4.00			3720.00	
Recorder	1.00	8524	Inside	3721.00	
Recorder	1.00	91716	Outside	3722.00	
Bull Plug	3.00			3725.00	9.00 Anchor Too
Total Tool Length:					32.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G Holl Company

14-20s-15w-Barton

9431 East Central Suit 100
Wichita Kansas 6205

Mull unit #B 1-14

Job Ticket: 17787

DST#: 4

ATTN: Rene Husted

Test Start: 2012.08.16 @ 00:00:00

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: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

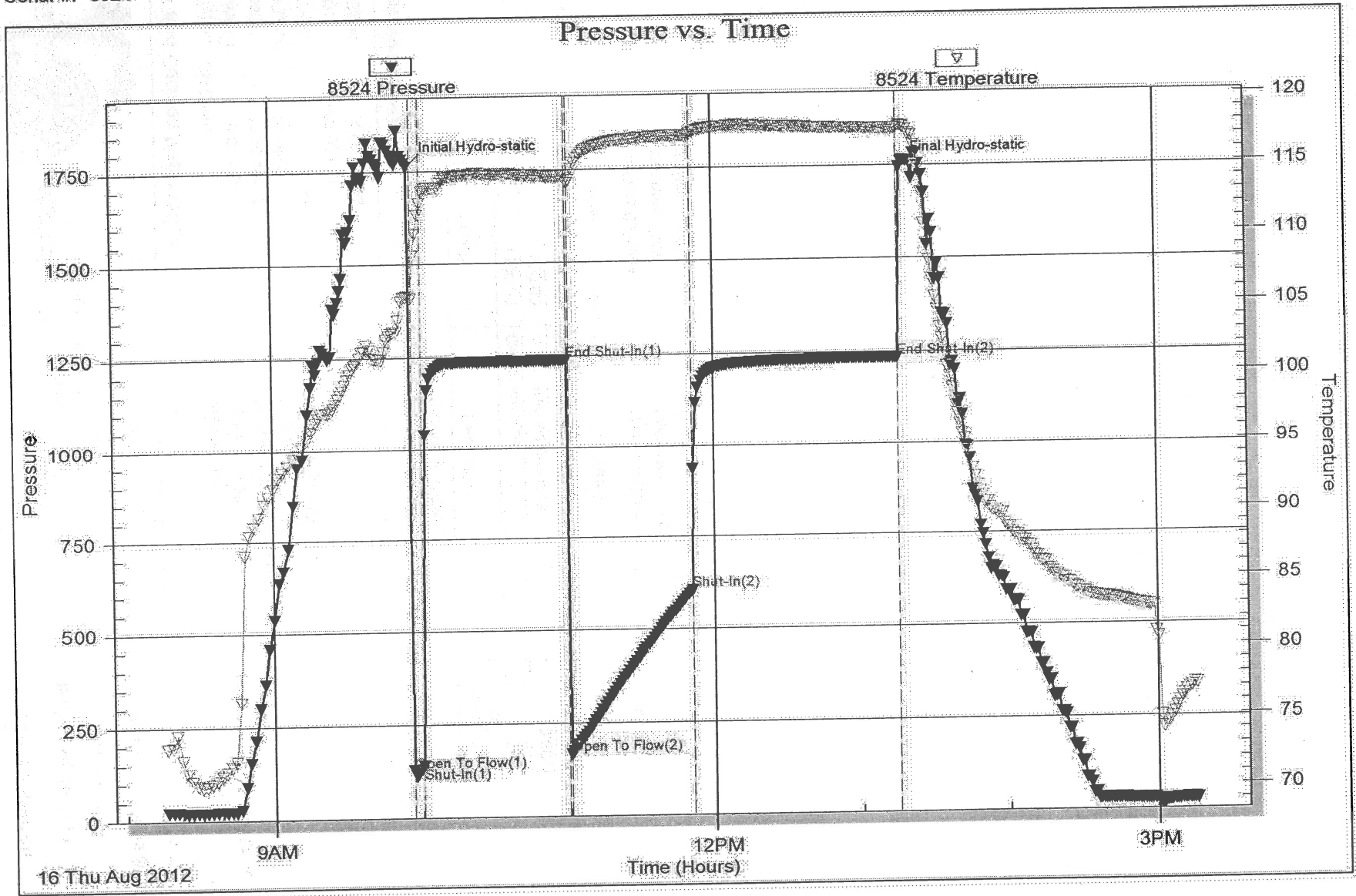
Length ft	Description	Volume bbl
1100.00	Gas in the pipe	0.000
200.00	w ater w ith a scum of oil	0.000
1100.00	Water Chlorides 22000	0.000

Total Length: 2400.00 ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



16 Thu Aug 2012

Serial #: 91716

F.G Holl Company

Well Unit #B 1-14

DST Test Number: 4

