



## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Rene Husted

### **Panning #2-13**

#### **13-20s-14w Barton**

Start Date: 2012.06.18 @ 08:15:00

End Date: 2012.06.18 @ 00:00:00

Job Ticket #: 15876                      DST #: 4

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

Printed: 2012.06.18 @ 14:38:11



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**Panning #2-13**

Job Ticket: 15876

**DST#: 4**

ATTN: Rene Husted

Test Start: 2012.06.18 @ 08:15:00

## GENERAL INFORMATION:

Formation: **Kansas City "I"**

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: 3392.00 ft (KB) To 3406.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 91716 Outside**

Press @ Run Depth: 601.12 psia @ 3403.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.18

End Date: 2012.06.18

Last Calib.: 2012.06.18

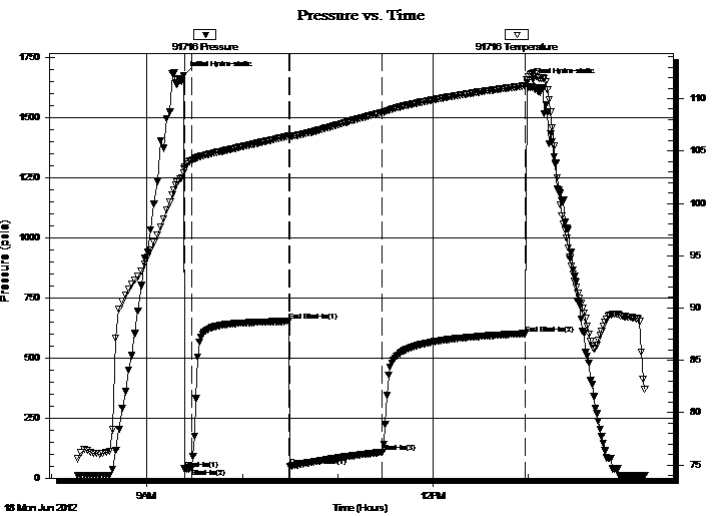
Start Time: 08:16:30

End Time: 14:13:00

Time On Btm: 2012.06.18 @ 09:23:00

Time Off Btm: 2012.06.18 @ 12:59:00

**TEST COMMENT:** 1st Opeing 5 Minutes Fair blow built to th bottom of a 5 gallon bucket in 3 minutes  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 2nd Shut-In 90 Minutes-Fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1674.53	102.92	Initial Hydro-static
1	38.40	103.25	Shut-In(1)
5	41.17	104.09	Shut-In(2)
66	652.34	106.43	End Shut-In(1)
67	48.07	106.41	Open To Flow (1)
125	108.34	108.68	Shut-In(3)
215	601.12	111.24	End Shut-In(2)
216	1643.93	111.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	Gas in the pipe	5.05
50.00	Oil cut mud	0.70
0.00	6%Gas 40%oil 24%w ater 30% Mud	0.00
60.00	oil cut muddy w ater	0.84
0.00	10% Oil 10% Mud 80% Water	0.00
0.00	Trace of oil 5% Mud 95% Water	0.00

## Gas Rates

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



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**Panning #2-13**

Job Ticket: 15876

**DST#: 4**

ATTN: Rene Husted

Test Start: 2012.06.18 @ 08:15:00

## GENERAL INFORMATION:

Formation: **Kansas City "I"**

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: 3392.00 ft (KB) To 3406.00 ft (KB) (TVD)**

Reference Elevations: 1895.00 ft (KB)

Total Depth: 3406.00 ft (KB) (TVD)

1887.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 93336 Inside**

Press @ RunDepth: 601.12 psia @ 3402.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.18

End Date: 2012.06.18

Last Calib.: 2012.06.18

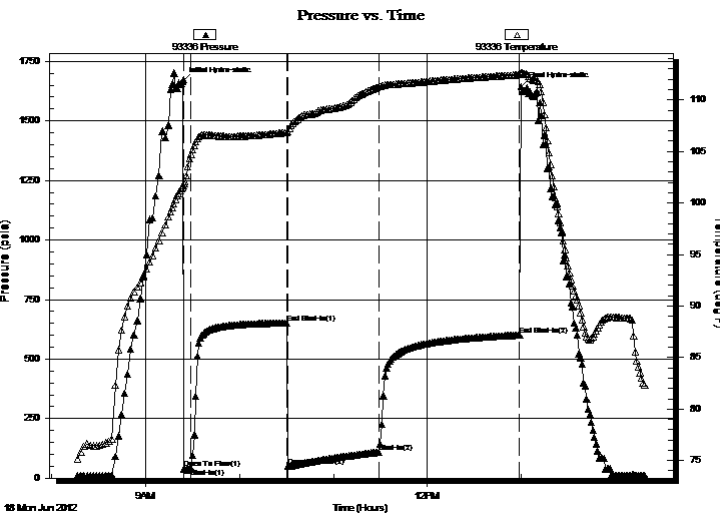
Start Time: 08:16:30

End Time: 14:19:00

Time On Btm: 2012.06.18 @ 09:23:30

Time Off Btm: 2012.06.18 @ 13:00:00

**TEST COMMENT:** 1st Opeing 5 Minutes Fair blow built to th bottom of a 5 gallon bucket in 3 minutes  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 5 minutes  
 2nd Shut-In 90 Minutes-Fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1667.10	101.51	Initial Hydro-static
1	39.18	101.89	Open To Flow (1)
6	42.32	104.72	Shut-In(1)
67	652.06	106.84	End Shut-In(1)
68	48.74	106.93	Open To Flow (2)
126	109.42	111.27	Shut-In(2)
216	601.12	112.43	End Shut-In(2)
217	1643.17	112.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
360.00	Gas in the pipe	5.05
50.00	Oil cut mud	0.70
0.00	6%Gas 40%oil 24%w ater 30% Mud	0.00
60.00	oil cut muddy w ater	0.84
0.00	10% Oil 10% Mud 80% Water	0.00
0.00	Trace of oil 5% Mud 95% Water	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

F.G.Holl Company L.L.C.

**13-20s-14w Barton**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

**Panning #2-13**

Job Ticket: 15876

**DST#: 4**

ATTN: Rene Husted

Test Start: 2012.06.18 @ 08:15:00

## Tool Information

Drill Pipe:	Length: 3379.00 ft	Diameter: 3.80 inches	Volume: 47.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 47.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3392.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	1	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			3369.00	
Hydraulic Tool	5.00			3374.00	
Jars	6.00			3380.00	
Safety Joint	2.00			3382.00	
Packer	5.00			3387.00	28.00 Bottom Of Top Packer
Packer	5.00			3392.00	
Perforations	9.00			3401.00	
Recorder	1.00	93336	Inside	3402.00	
Recorder	1.00	91716	Outside	3403.00	
Bull Plug	3.00			3406.00	14.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>42.00</b>				



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**FLUID SUMMARY**

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**Panning #2-13**

Job Ticket: 15876

**DST#: 4**

ATTN: Rene Husted

Test Start: 2012.06.18 @ 08:15:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 9.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6100.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

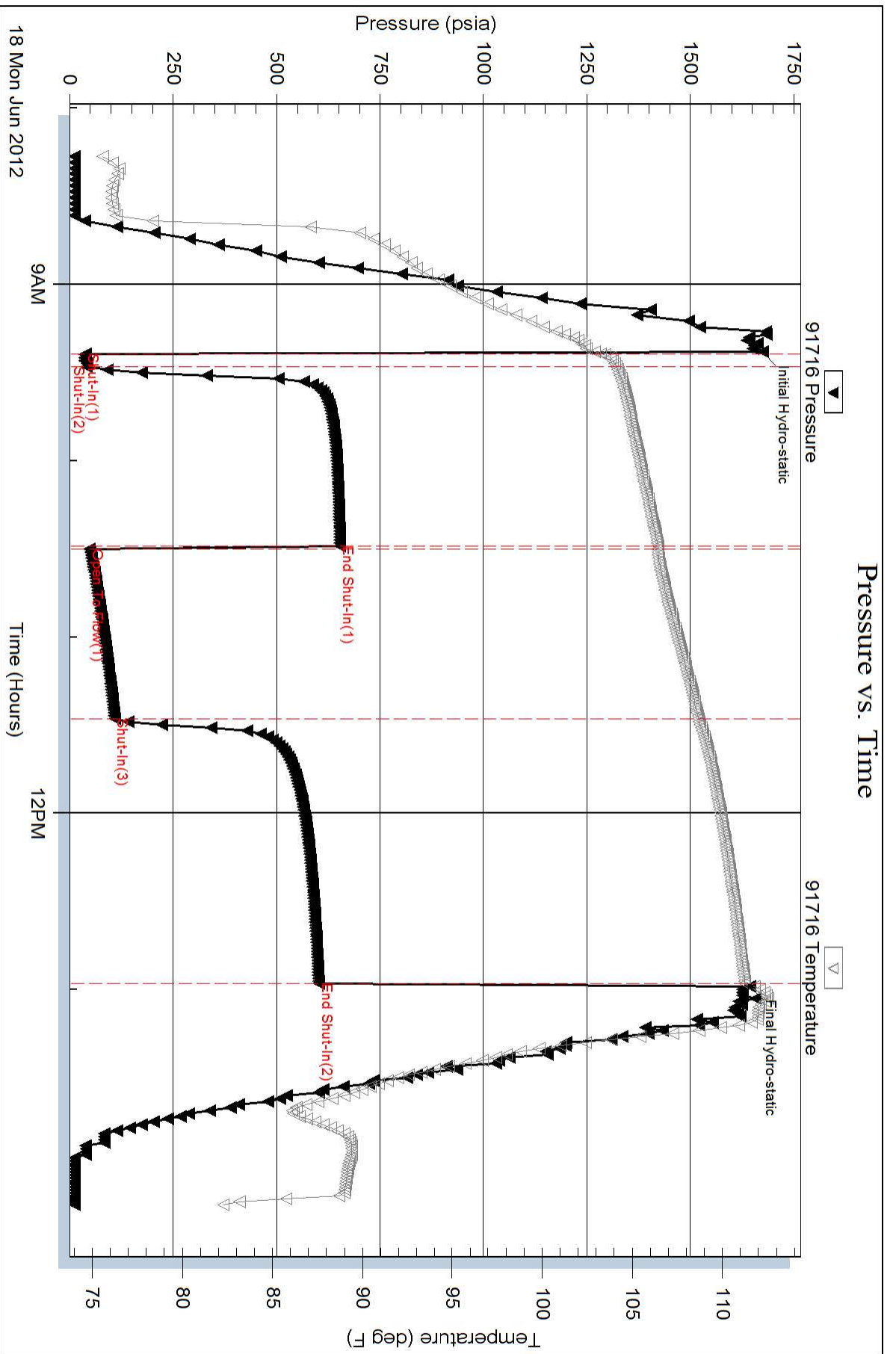
Length ft	Description	Volume bbl
360.00	Gas in the pipe	5.050
50.00	Oil cut mud	0.701
0.00	6%Gas 40%oil 24%water 30% Mud	0.000
60.00	oil cut muddy water	0.842
0.00	10% Oil 10% Mud 80% Water	0.000
0.00	Trace of oil 5% Mud 95% Water	0.000
0.00	chlorides 73000	0.000

Total Length: 470.00 ft      Total Volume: 6.593 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



### Pressure vs. Time

