



## DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563

ATTN: Renee Husted

**Oetken A #2-32**

**32/19S/16W/Rush**

Start Date: 2012.07.01 @ 13:00:00

End Date: 2012.07.01 @ 19:28:00

Job Ticket #: 17656                      DST #: 4

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

Printed: 2012.07.01 @ 19:48:41

FG Holl Company LLC  
32/19S/16W/Rush  
Oetken A #2-32  
DST # 4  
Arbuckle  
2012.07.01



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**Oetken A #2-32**

Job Ticket: 17656

**DST#: 4**

Test Start: 2012.07.01 @ 13:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:31:30

Time Test Ended: 19:28:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/34

**Interval: 3804.00 ft (KB) To 3814.00 ft (KB) (TVD)**

Reference Elevations: 2056.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2048.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6749 Inside**

Press @ RunDepth: 170.55 psia @ 3810.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.01

End Date:

2012.07.01

Last Calib.:

2012.07.01

Start Time: 13:00:00

End Time:

19:28:00

Time On Btm:

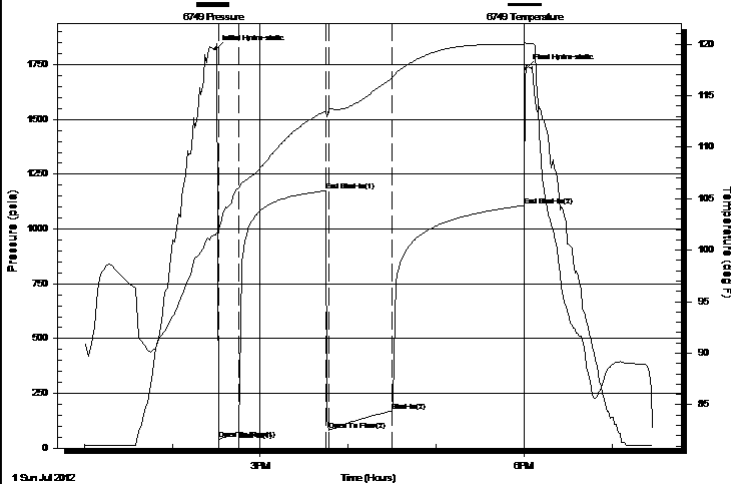
2012.07.01 @ 14:29:30

Time Off Btm:

2012.07.01 @ 18:01:00

**TEST COMMENT:** 1ST Open 15 Minutes/Good blow/Blow built to 10 inches in bucket of water  
1ST Shut In 60 Minutes/No blow back  
2ND Open 45 Minutes/Good blow/Blow built to bottom of bucket of water in 23 minutes  
2ND Shut In 90 Minutes/No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1819.13	101.46	Initial Hydro-static
2	38.87	101.94	Open To Flow (1)
16	74.92	106.09	Shut-In(1)
76	1174.82	113.51	End Shut-In(1)
77	81.21	113.67	Open To Flow (2)
121	170.55	116.74	Shut-In(2)
211	1107.11	119.92	End Shut-In(2)
212	1731.08	120.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	Muddy Water	4.21
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chlorides 32000 ppm	0.00
0.00	Recovery Resist. .19 ohms @ 92 deg.	0.00

## Gas Rates

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



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Reference Elevations: 2056.00 ft (KB)

Total Depth: 3814.00 ft (KB) (TVD)

2048.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6999 Outside**

Press @ RunDepth: 1106.80 psia @ 3811.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.01

End Date:

2012.07.01

Last Calib.:

2012.07.01

Start Time: 13:00:00

End Time:

19:28:00

Time On Btm:

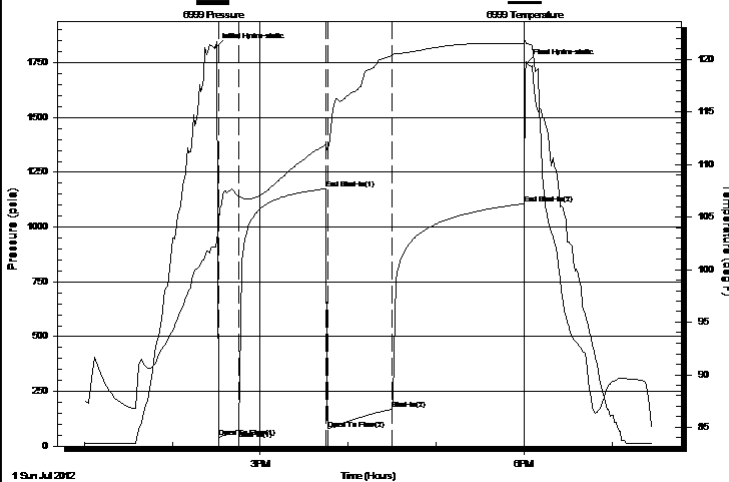
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2ND Shut In 90 Minutes/No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1819.32	102.19	Initial Hydro-static
2	38.54	104.52	Open To Flow (1)
16	74.53	106.91	Shut-In(1)
76	1174.80	111.91	End Shut-In(1)
77	79.28	111.76	Open To Flow (2)
121	170.06	120.36	Shut-In(2)
211	1106.80	121.50	End Shut-In(2)
212	1747.25	121.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	Muddy Water	4.21
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chlorides 32000 ppm	0.00
0.00	Recovery Resist. .19 ohms @ 92 deg.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

FG Holl Company LLC

**32/19S/16W/Rush**

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Suite 100  
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ATTN: Renee Hustead

**Oetken A #2-32**

Job Ticket: 17656

**DST#: 4**

Test Start: 2012.07.01 @ 13:00:00

## Tool Information

Drill Pipe:	Length: 3796.00 ft	Diameter: 3.80 inches	Volume: 53.25 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: 45000.00 lb
			<u>Total Volume: 53.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3804.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 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
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Shut In Tool	5.00			3787.00	
Hydraulic Tool	5.00			3792.00	
Jars	5.00			3797.00	
Safety Joint	2.00			3799.00	
Packer	5.00			3804.00	22.00 Bottom Of Top Packer
Anchor	5.00			3809.00	
Recorder	1.00	6749	Inside	3810.00	
Recorder	1.00	6999	Outside	3811.00	
Bullnose	3.00			3814.00	10.00 Anchor Tool
<b>Total Tool Length:</b>	<b>32.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 10.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 9400.00 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
300.00	Muddy Water	4.208
0.00	Mud 5% Water 95%	0.000
0.00	Recovery Chlorides 32000 ppm	0.000
0.00	Recovery Resist. .19 ohms @ 92 deg.	0.000

Total Length: 300.00 ft      Total Volume: 4.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

