



## 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**

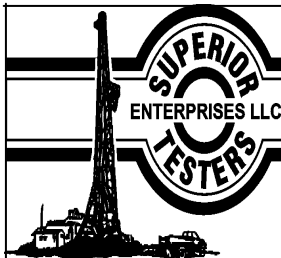
Start Date: 2012.06.30 @ 04:02:00

End Date: 2012.06.30 @ 10:56:00

Job Ticket #: 17654                      DST #: 2

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

Printed: 2012.06.30 @ 11:19:55



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**Oetken A #2-32**

Job Ticket: 17654

**DST#: 2**

Test Start: 2012.06.30 @ 04:02:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:44:30

Time Test Ended: 10:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/34

**Interval: 3776.00 ft (KB) To 3792.00 ft (KB) (TVD)**

Reference Elevations: 2056.00 ft (KB)

Total Depth: 3792.00 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 @ Run Depth: 694.13 psia @ 3788.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.30

End Date: 2012.06.30

Last Calib.: 2012.06.30

Start Time: 04:02:00

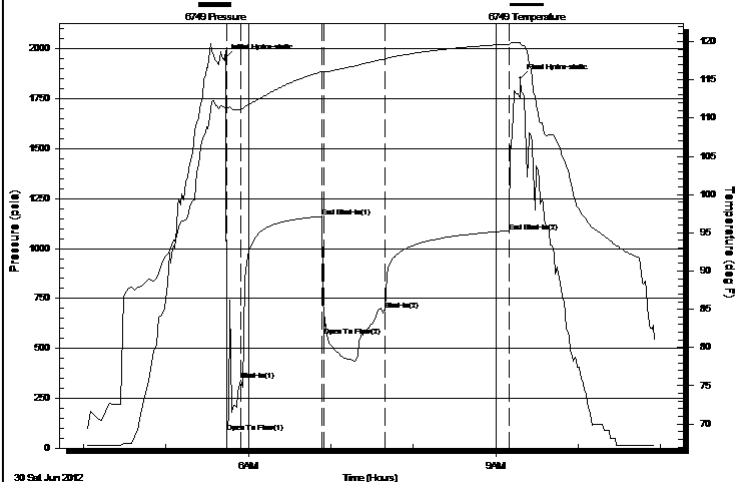
End Time: 10:56:00

Time On Btm: 2012.06.30 @ 05:43:00

Time Off Btm: 2012.06.30 @ 09:18:00

**TEST COMMENT:** 1ST Open 10 Minutes/Strong blow/Blow to bottom of bucket in 3 1/2 minutes  
1ST Shut In 60 Minutes/No blow back  
2ND Open 45 Minutes/Strong blow/Blow to bottom of bucket in 2 1/2 minutes  
2ND Shut In 90 Minutes/Blow back to bottom of bucket in 24 minutes

**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1949.89	111.37	Initial Hydro-static
2	81.41	111.36	Open To Flow (1)
12	339.66	111.18	Shut-In(1)
71	1160.95	116.06	End Shut-In(1)
72	560.83	115.98	Open To Flow (2)
117	694.13	117.72	Shut-In(2)
207	1084.78	119.67	End Shut-In(2)
215	1852.71	119.81	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	1560 feet of gas in pipe	0.00
120.00	Gassy Oil	1.68
0.00	Gas 25% Oil 75%	0.00
120.00	Gassy Oily Mud	1.68
0.00	Gas 30% Oil 30% Mud 40%	0.00
0.00	Corrected specific grav. oil 39	0.00

**Gas Rates**

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



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**Oetken A #2-32**

Job Ticket: 17654

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Test Start: 2012.06.30 @ 04:02:00

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Time Test Ended: 10:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/34

**Interval: 3776.00 ft (KB) To 3792.00 ft (KB) (TVD)**

Reference Elevations: 2056.00 ft (KB)

Total Depth: 3792.00 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 @ Run Depth: 1087.04 psia @ 3789.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.06.30

End Date: 2012.06.30

Last Calib.: 2012.06.30

Start Time: 04:02:00

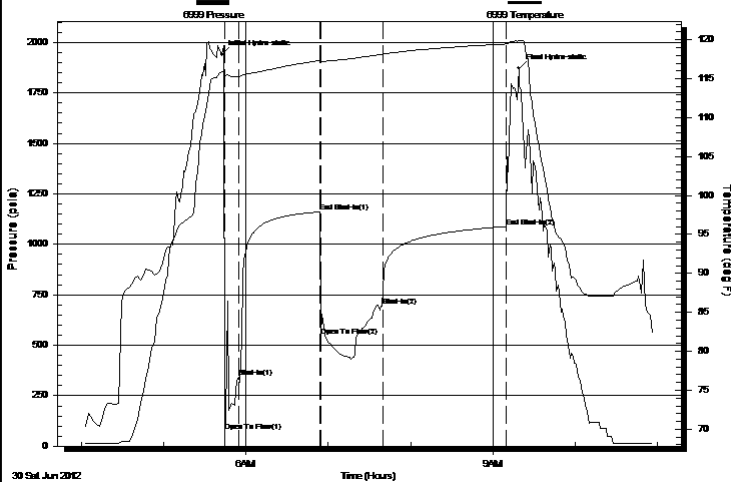
End Time: 10:56:30

Time On Btm: 2012.06.30 @ 05:42:30

Time Off Btm: 2012.06.30 @ 09:19:00

**TEST COMMENT:** 1ST Open 10 Minutes/Strong blow/Blow to bottom of bucket in 3 1/2 minutes  
1ST Shut In 60 Minutes/No blow back  
2ND Open 45 Minutes/Strong blow/Blow to bottom of bucket in 2 1/2 minutes  
2ND Shut In 90 Minutes/Blow back to bottom of bucket in 24 minutes

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1939.90	115.88	Initial Hydro-static
3	71.44	115.11	Open To Flow (1)
12	341.06	115.31	Shut-In(1)
71	1160.53	117.33	End Shut-In(1)
72	545.78	117.23	Open To Flow (2)
118	693.60	118.11	Shut-In(2)
208	1087.04	119.45	End Shut-In(2)
217	1871.16	119.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1560 feet of gas in pipe	0.00
120.00	Gassy Oil	1.68
0.00	Gas 25% Oil 75%	0.00
120.00	Gassy Oily Mud	1.68
0.00	Gas 30% Oil 30% Mud 40%	0.00
0.00	Corrected specific grav. oil 39	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**

9431 East Central  
Suite 100  
Wichita, Kansas 67206+2563  
ATTN: Renee Husted

**Oetken A #2-32**

Job Ticket: 17654

**DST#: 2**

Test Start: 2012.06.30 @ 04:02:00

## Tool Information

Drill Pipe:	Length: 3766.00 ft	Diameter: 3.80 inches	Volume: 52.83 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: 52.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 20000.00 lb
Depth to Top Packer:	3776.00 ft			Final 28000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3754.00	
Hydraulic Tool	5.00			3759.00	
Jars	5.00			3764.00	
Safety Joint	2.00			3766.00	
Packer	5.00			3771.00	27.00 Bottom Of Top Packer
Packer	5.00			3776.00	
Anchor	11.00			3787.00	
Recorder	1.00	6749	Inside	3788.00	
Recorder	1.00	6999	Outside	3789.00	
Bullnose	3.00			3792.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**DST#: 2**

Test Start: 2012.06.30 @ 04:02:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 9.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5200.00 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
0.00	1560 feet of gas in pipe	0.000
120.00	Gassy Oil	1.683
0.00	Gas 25% Oil 75%	0.000
120.00	Gassy Oily Mud	1.683
0.00	Gas 30% Oil 30% Mud 40%	0.000
0.00	Corrected specific grav. oil 39	0.000

Total Length: 240.00 ft      Total Volume: 3.366 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

