



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company L.L.C**

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Rene Husted

Lang?Bahr Unit #2-26

26-17s-15w Barton

Start Date: 2013.11.08 @ 12:01:00

End Date: 2013.11.08 @ 19:17:30

Job Ticket #: 18456 DST #: 4

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

Printed: 2013.11.08 @ 19:47:41

FG Holl Company L.L.C

26-17s-15w Barton

Lang?Bahr Unit #2-26

DST # 4

Lansing J

2013.11.08



DRILL STEM TEST REPORT

FG Holl Company L.L.C

26-17s-15w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Lang?Bahr Unit #2-26

ATTN: Rene Husted

Job Ticket: 18456

DST#: 4

Test Start: 2013.11.08 @ 12:01:00

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:00

Time Test Ended: 19:17:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -47

Interval: 3450.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 2000.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1992.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731

Press@RunDepth: 248.63 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.08

End Date: 2013.11.08

Last Calib.: 2013.11.08

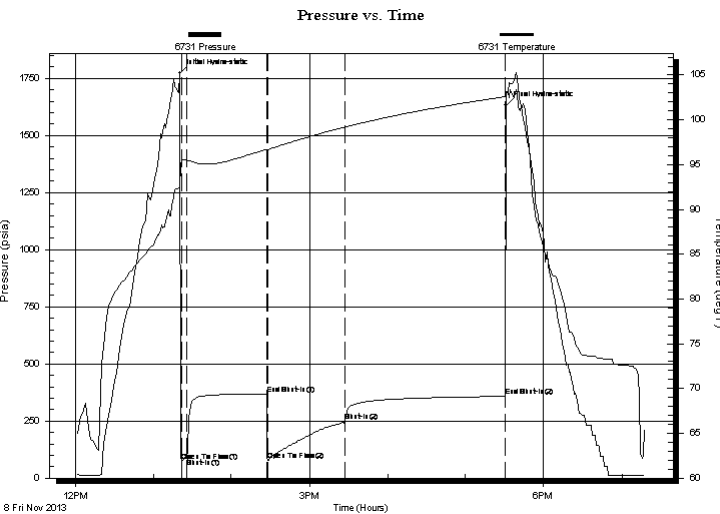
Start Time: 12:01:00

End Time: 19:17:30

Time On Btm: 2013.11.08 @ 13:20:30

Time Off Btm: 2013.11.08 @ 17:31:00

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in less one minutes
 1st Shut-in 60 Minutes-w eak blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 1 minute Gas to surface in 7 minutes
 2nd Shut-in 120 Minutes-Blow back built 5 inches



PRESSURE SUMMARY

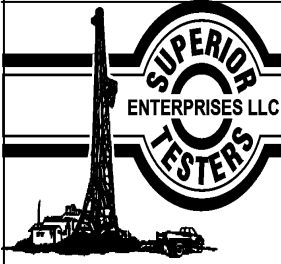
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1773.09	92.44	Initial Hydro-static
2	73.86	95.48	Open To Flow (1)
6	85.46	95.47	Shut-In(1)
67	368.56	96.71	End Shut-In(1)
68	76.49	96.68	Open To Flow (2)
127	248.63	99.19	Shut-In(2)
250	358.36	102.57	End Shut-In(2)
251	1632.85	102.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	water	1.68
320.00	Clean gassy oil 10%gas 90%oil	4.49
0.00	2900 feet gas in pipe	0.00
0.00	chlorides 80,000 resistivity .07 @65 deg	0.00
0.00	gravity oil 45	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	20.00	31.73
Last Gas Rate	0.25	9.00	14.28
Max. Gas Rate	0.25	20.00	31.73



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Reference Elevations: 2000.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1992.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8159

Press@RunDepth: 358.86 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.08

End Date: 2013.11.08

Last Calib.: 2013.11.08

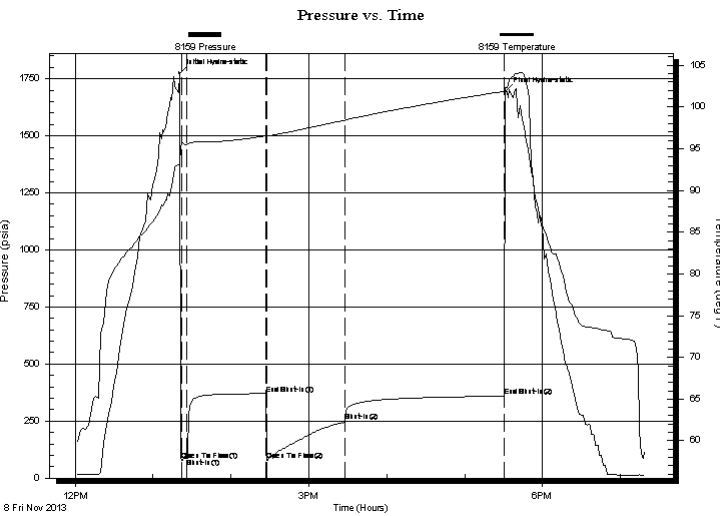
Start Time: 12:01:00

End Time: 19:18:30

Time On Btm: 2013.11.08 @ 13:20:30

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TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in less one minutes
 1st Shut-in 60 Minutes-w eak blow back
 2nd Opening 60 Minutes-Strong blow built bottom of bucket in 1 minute Gas to surface in 7 minutes
 2nd Shut-in 120 Minutes-Blow back built 5 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1774.44	93.17	Initial Hydro-static
2	77.21	95.61	Open To Flow (1)
6	86.68	95.50	Shut-In(1)
67	370.22	96.57	End Shut-In(1)
68	78.62	96.52	Open To Flow (2)
127	248.95	98.42	Shut-In(2)
250	358.86	101.87	End Shut-In(2)
251	1694.22	102.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	water	1.68
320.00	Clean gassy oil 10%gas 90%oil	4.49
0.00	2900 feet gas in pipe	0.00
0.00	chlorides 80,000 resistivity .07 @65 deg	0.00
0.00	gravity oil 45	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	20.00	31.73
Last Gas Rate	0.25	9.00	14.28
Max. Gas Rate	0.25	20.00	31.73



DRILL STEM TEST REPORT

TOOL DIAGRAM

FG Holl Company L.L.C

26-17s-15w Barton

9431 E Central Ste 100 Wichita KS 67206+2563

Lang?Bahr Unit #2-26

Job Ticket: 18456

DST#: 4

ATTN: Rene Husted

Test Start: 2013.11.08 @ 12:01:00

Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 48.25 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3450.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Gas sample was taken

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3427.00	
Hydraulic Tool	5.00			3432.00	
Jars	6.00			3438.00	
Safety Joint	2.00			3440.00	
Packer	5.00			3445.00	28.00 Bottom Of Top Packer
Packer	5.00			3450.00	
Anchor	15.00			3465.00	
Recorder	1.00	6731	Inside	3466.00	
Recorder	1.00	8159	Outside	3467.00	
Bullnose	3.00			3470.00	20.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



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FLUID SUMMARY

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DST#: 4

ATTN: Rene Husted

Test Start: 2013.11.08 @ 12:01:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	water	1.683
320.00	Clean gassy oil 10%gas 90%oil	4.489
0.00	2900 feet gas in pipe	0.000
0.00	chlorides 80,000 resistivity .07 @65 deg	0.000
0.00	gravity oil 45	0.000

Total Length: 440.00 ft Total Volume: 6.172 bbl

Num Fluid Samples: 0

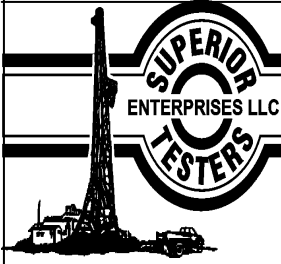
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gas to surface 7 minutes ninto 2nd open see gas report/chlorides 80,000/gravity oil 45



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GAS RATES

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Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	10	0.25	20.00	31.73
2	20	0.25	14.00	22.21
2	30	0.25	8.60	13.64
2	40	0.25	8.60	13.64
2	50	0.25	9.00	14.28
2	60	0.25	9.00	14.28

Pressure vs. Time

