



DRILL STEM TEST REPORT

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

9431 E Central Ste 100 Wichita KS
67206+2563

ATTN: Ryan Greenbaum

Panning "A" #1-17

17-20s-13w Barton

Start Date: 2013.11.19 @ 17:05:00

End Date: 2013.11.19 @ 23:47:30

Job Ticket #: 18521 DST #: 1

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

Printed: 2013.11.20 @ 00:04:17

F.G Holl Company L.L.C
17-20s-13w Barton
Panning "A" #1-17
DST # 1
LKC "A" #1-17
2013.11.19



DRILL STEM TEST REPORT

F.G Holl Company L.L.C

17-20s-13w Barton

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Panning "A" #1-17

ATTN: Ryan Greenbaum

Job Ticket: 18521

DST#: 1

Test Start: 2013.11.19 @ 17:05:00

GENERAL INFORMATION:

Formation: **LKC "A" #1-17**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:47:00

Time Test Ended: 23:47:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-10-Great Bend

Interval: 3229.00 ft (KB) To 3280.00 ft (KB) (TVD)

Reference Elevations: 1879.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6663

Press @ RunDepth: 106.52 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.19

End Date: 2013.11.19

Last Calib.: 2013.11.20

Start Time: 17:05:00

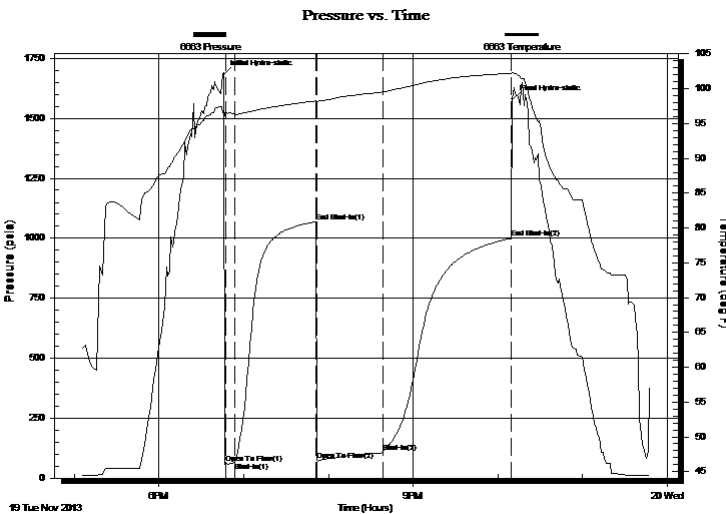
End Time: 23:47:30

Time On Btm: 2013.11.19 @ 18:46:00

Time Off Btm: 2013.11.19 @ 22:10:30

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 5 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 90 Minutes-Very weak blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1683.65	96.51	Initial Hydro-static
1	60.11	96.58	Open To Flow (1)
8	64.07	96.33	Shut-In(1)
65	1068.27	98.25	End Shut-In(1)
66	72.71	98.15	Open To Flow (2)
113	106.52	99.54	Shut-In(2)
204	999.94	102.22	End Shut-In(2)
205	1578.51	102.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	spot oil cut mud 1%oil 99%mud	1.68
0.00	480 feet gas in pipe	0.00

Gas Rates

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



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Reference Elevations: 1879.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6748

Press @ Run Depth: 1006.25 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.11.19

End Date: 2013.11.19

Last Calib.: 2013.11.20

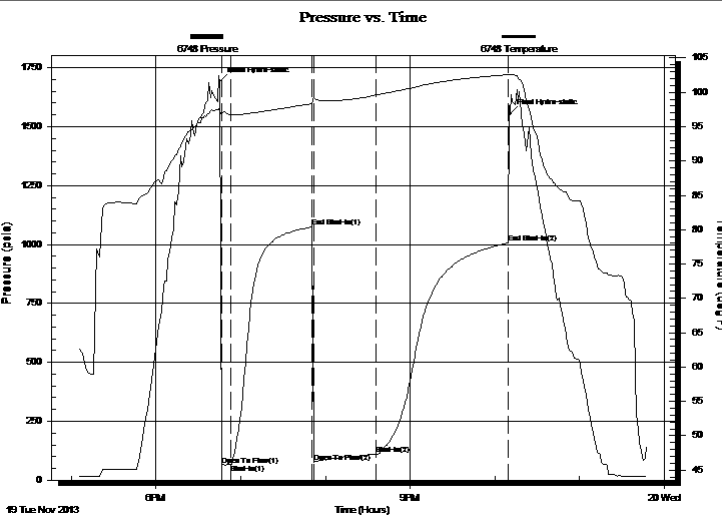
Start Time: 17:05:00

End Time: 23:47:30

Time On Btm: 2013.11.19 @ 18:45:30

Time Off Btm: 2013.11.19 @ 22:11:00

TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 5 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minute
 2nd Shut-in 90 Minutes-Very weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1693.04	97.23	Initial Hydro-static
1	63.23	96.82	Open To Flow (1)
8	68.17	96.75	Shut-In(1)
65	1073.71	98.32	End Shut-In(1)
67	77.47	99.18	Open To Flow (2)
111	110.55	99.63	Shut-In(2)
204	1006.25	102.55	End Shut-In(2)
206	1554.07	102.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	spot oil cut mud 1%oil 99%mud	1.68
0.00	480 feet gas in pipe	0.00

Gas Rates

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



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TOOL DIAGRAM

F.G Holl Company L.L.C

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Job Ticket: 18521

DST#: 1

ATTN: Ryan Greenbaum

Test Start: 2013.11.19 @ 17:05:00

Tool Information

Drill Pipe:	Length: 3216.00 ft	Diameter: 3.80 inches	Volume: 45.11 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:	80.00 lb
			<u>Total Volume: 45.11 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3229.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	80.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3201.00	
Shut-In Tool	5.00			3206.00	
Hydroic Tool	5.00			3211.00	
Jars	6.00			3217.00	
Safety Joint	2.00			3219.00	
Packer	5.00			3224.00	29.00 Bottom Of Top Packer
Packer	5.00			3229.00	
Perforations	46.00			3275.00	
Recorder	1.00	6333	Inside	3276.00	
Recorder	1.00	6748	Outside	3277.00	
Bullnose	3.00			3280.00	51.00 Bottom Packers & Anchor

Total Tool Length: 80.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	spot oil cut mud 1%oil 99%mud	1.683
0.00	480 feet gas in pipe	0.000

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

