



DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC.**

9431 E. Central STE. 100
Wichita Ks, 67206

ATTN: Frank Greenbaum

Jost #1-29

29/21s/15w/Pawnee

Start Date: 2013.08.23 @ 16:00:00

End Date: 2013.08.23 @ 22:52:30

Job Ticket #: 18481 DST #: 8

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

Printed: 2013.08.23 @ 22:29:02



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:30

Time Test Ended: 22:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3606.00 ft (KB) To 3632.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3632.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405

Inside

Press @ RunDepth: 65.78 psia @ 3628.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.23

End Date: 2013.08.23

Last Calib.: 2013.08.23

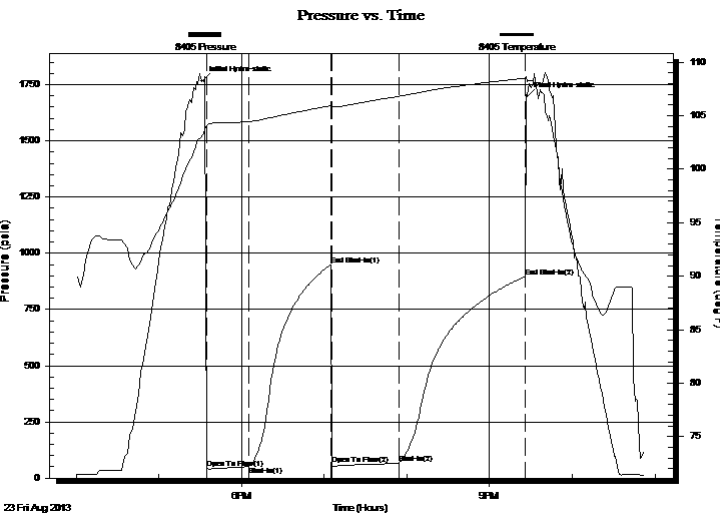
Start Time: 16:00:00

End Time: 22:52:30

Time On Btm: 2013.08.23 @ 17:31:30

Time Off Btm: 2013.08.23 @ 21:27:00

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to inches 6 in 5 gallon bucket.
1st Shut In/ 60 Minutes No blow back.
2nd Open/ 45 Minutes Fair blow built to 10 inches in 5 gallon bucket.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1767.16	103.23	Initial Hydro-static
3	43.83	104.05	Open To Flow (1)
34	50.74	104.47	Shut-In(1)
94	949.29	105.94	End Shut-In(1)
94	59.86	105.78	Open To Flow (2)
143	65.78	106.81	Shut-In(2)
234	895.81	108.51	End Shut-In(2)
236	1697.16	108.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 feet gas	0.00
31.00	20% mud, 80% oil	0.43
31.00	40% mud, 50% water, 10% oil.	0.43
0.00	Chloride recovery 25000 ppm.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:30

Time Test Ended: 22:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/66/Great Bend

Interval: 3606.00 ft (KB) To 3632.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

Total Depth: 3632.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 820.42 psia @ 3629.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.23

End Date: 2013.08.23

Last Calib.: 2013.08.23

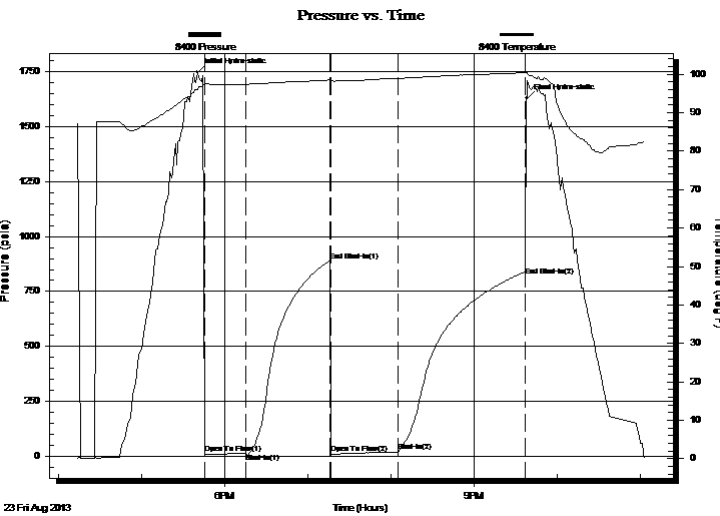
Start Time: 16:00:00

End Time: 23:03:00

Time On Btm: 2013.08.23 @ 17:40:30

Time Off Btm: 2013.08.23 @ 21:38:00

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to inches 6 in 5 gallon bucket.
1st Shut In/ 60 Minutes No blow back.
2nd Open/ 45 Minutes Fair blow built to 10 inches in 5 gallon bucket.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1748.09	96.09	Initial Hydro-static
5	11.21	97.44	Open To Flow (1)
35	13.07	97.36	Shut-In(1)
96	888.79	98.49	End Shut-In(1)
96	12.58	98.25	Open To Flow (2)
145	19.22	98.89	Shut-In(2)
237	820.42	100.34	End Shut-In(2)
238	1630.57	100.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 feet gas	0.00
31.00	20% mud, 80% oil	0.43
31.00	40% mud, 50% water, 10% oil.	0.43
0.00	Chloride recovery 25000 ppm.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

Tool Information

Drill Pipe:	Length: 3589.00 ft	Diameter: 3.80 inches	Volume: 50.34 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:	62000.00 lb
			<u>Total Volume: 50.34 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3606.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3578.00	
Shut-In Tool	5.00			3583.00	
Hydroic Tool	5.00			3588.00	
Jars	6.00			3594.00	
Safety Joint	2.00			3596.00	
Packer	5.00			3601.00	29.00 Bottom Of Top Packer
Packer	5.00			3606.00	
Perforations	21.00			3627.00	
Recorder	1.00	8405	Inside	3628.00	
Recorder	1.00	8400	Outside	3629.00	
Bullnose	3.00			3632.00	26.00 Bottom Packers & Anchor

Total Tool Length: 55.00



DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC.

29/21s/15w/Pawnee

9431 E. Central STE. 100
Wichita Ks, 67206

Jost #1-29

Job Ticket: 18481

DST#: 8

ATTN: Frank Greenbaum

Test Start: 2013.08.23 @ 16:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5700.00 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	252 feet gas	0.000
31.00	20% mud, 80% oil	0.435
31.00	40% mud, 50% water, 10% oil.	0.435
0.00	Chloride recovery 25000 ppm.	0.000

Total Length: 62.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

