



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 E. Central STE. 100 Wichita Kansas
67208-2563

ATTN: Frank Greenbaum

Binford/Campbell #1

31/20s/15w/Barton

Start Date: 2013.05.04 @ 23:40:00

End Date: 2013.05.05 @ 09:07:30

Job Ticket #: 17579 DST #: 3

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

Printed: 2013.05.04 @ 09:21:18



DRILL STEM TEST REPORT

FG Holl Company LLC

31/20s/15w/Barton

9431 E. Central STE. 100 Wichita Kansas 67208-2563

Binford/Campbell #1

Job Ticket: 17579

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.05.04 @ 23:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:59:30

Time Test Ended: 09:07:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: **3775.00 ft (KB) To 3790.00 ft (KB) (TVD)**

Reference Elevations: 2022.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

2014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8405

Press @ RunDepth: 1094.64 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.05.04

End Date: 2013.05.05

Last Calib.: 2013.05.04

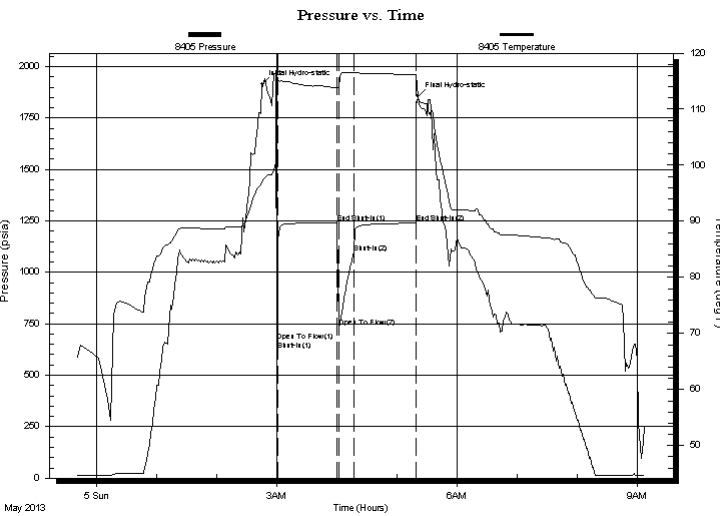
Start Time: 23:40:00

End Time: 09:07:30

Time On Btm: 2013.05.05 @ 02:45:00

Time Off Btm: 2013.05.05 @ 05:21:00

TEST COMMENT: 1st Open/ 2 Minutes. Strong blow to bottom of 5 gallon bucket in 30 seconds.
 1st Shut In/ 60 Minutes. slight surface blow that died 10 minutes.
 2nd Open/ 15 Minutes. Strong blow built to bottom of bucket in 30 seconds. No gas to surface.
 2nd Shut In/ 60 Minutes. Slight surface blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1914.00	96.94	Initial Hydro-static
15	664.49	110.57	Open To Flow (1)
16	668.32	114.75	Shut-In(1)
75	1240.25	113.93	End Shut-In(1)
77	733.03	113.88	Open To Flow (2)
92	1094.64	116.45	Shut-In(2)
154	1242.35	116.08	End Shut-In(2)
156	1854.72	112.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	no gas	0.00
186.00	50% mud, 50% w ater	2.61
372.00	5% mud, 95% w ater	5.22
1672.00	100% w ater	23.45
0.00	chloride recovery 30000 ppm	0.00
0.00	resist recov .22 ohms @ 40 degrees.	0.00

Gas Rates

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



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Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: 3775.00 ft (KB) To 3790.00 ft (KB) (TVD)

Reference Elevations: 2022.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

2014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8400

Press @ RunDepth: 1239.79 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.05.04

End Date: 2013.05.05

Last Calib.: 2013.05.04

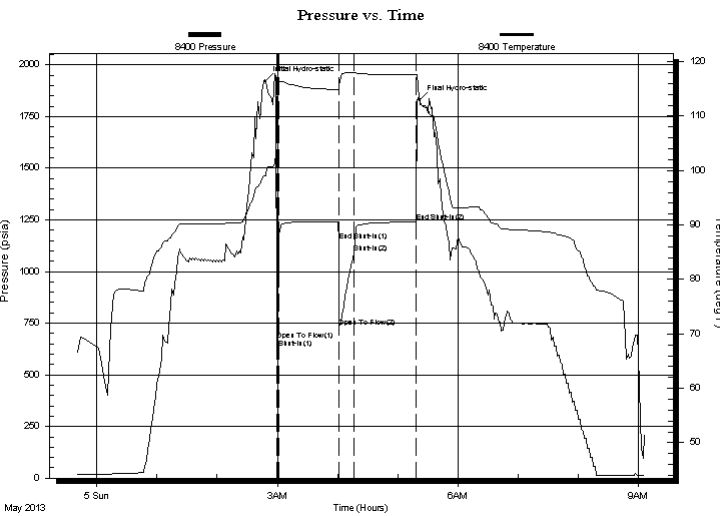
Start Time: 23:40:00

End Time: 09:07:00

Time On Btm: 2013.05.05 @ 02:48:00

Time Off Btm: 2013.05.05 @ 05:22:00

TEST COMMENT: 1st Open/ 2 Minutes. Strong blow to bottom of 5 gallon bucket in 30 seconds.
 1st Shut In/ 60 Minutes. slight surface blow that died 10 minutes.
 2nd Open/ 15 Minutes. Strong blow built to bottom of bucket in 30 seconds. No gas to surface.
 2nd Shut In/ 60 Minutes. Slight surface blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1923.40	98.98	Initial Hydro-static
12	667.18	112.87	Open To Flow (1)
13	672.35	115.61	Shut-In(1)
73	1146.32	114.81	End Shut-In(1)
74	730.04	115.67	Open To Flow (2)
89	1087.89	117.91	Shut-In(2)
151	1239.79	117.56	End Shut-In(2)
154	1830.18	112.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	no gas	0.00
186.00	50% mud, 50% w ater	2.61
372.00	5% mud, 95% w ater	5.22
1672.00	100% w ater	23.45
0.00	chloride recovery 30000 ppm	0.00
0.00	resist recov .22 ohms @ 40 degrees.	0.00

Gas Rates

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



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TOOL DIAGRAM

FG Holl Company LLC

31/20s/15w/Barton

9431 E. Central STE. 100 Wichita Kansas 67208-2563

Binford/Campbell #1

Job Ticket: 17579

DST#: 3

ATTN: Frank Greenbaum

Test Start: 2013.05.04 @ 23:40:00

Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.80 inches	Volume: 52.90 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: lb
			<u>Total Volume: 52.90 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial lb
Depth to Top Packer:	3775.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3757.00	
Hydraulic Tool	5.00			3762.00	
Jars	6.00			3768.00	
Safety Joint	2.00			3770.00	
Packer	5.00			3775.00	23.00 Bottom Of Top Packer
Anchor	10.00			3785.00	
Recorder	1.00	8405	Inside	3786.00	
Recorder	1.00	8400	Outside	3787.00	
Bullnose	3.00			3790.00	15.00 Anchor Tool
Total Tool Length:	38.00				



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FLUID SUMMARY

FG Holl Company LLC

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Job Ticket: 17579

DST#: 3

ATTN: Frank Greenbaum

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Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 63.00 sec/qt
 Water Loss: 8.00 in³
 Resistivity: ohm.m
 Salinity: 5500.00 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	no gas	0.000
186.00	50% mud, 50% w ater	2.609
372.00	5% mud, 95% w ater	5.218
1672.00	100% w ater	23.454
0.00	chloride recovery 30000 ppm	0.000
0.00	resist recov .22 ohms @ 40 degrees.	0.000

Total Length: 2230.00 ft Total Volume: 31.281 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

