



DRILL STEM TEST REPORT

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

9431 east Central Suite 100
Wichita, Kansas 67206

ATTN: Rene Husted

Button "A" Unit #1-24

29-19s-15w Barton

Start Date: 2012.09.08 @ 00:00:00

End Date: 2012.09.08 @ 00:00:00

Job Ticket #: 17797 DST #: 8

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

Printed: 2012.09.09 @ 18:00:45

F.G.Holl Company L.L.C.

29-19s-15w Barton

Button "A" Unit #1-24

DST # 8

Regan Sand

2012.09.08



DRILL STEM TEST REPORT

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29-19s-15w Barton

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DST#: 8

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Test Start: 2012.09.08 @ 00:00:00

GENERAL INFORMATION:

Formation: **Regan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3543.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6838 Inside

Press @ RunDepth: 1185.60 psia @ 3546.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.08

End Date: 2012.09.08

Last Calib.: 2012.09.08

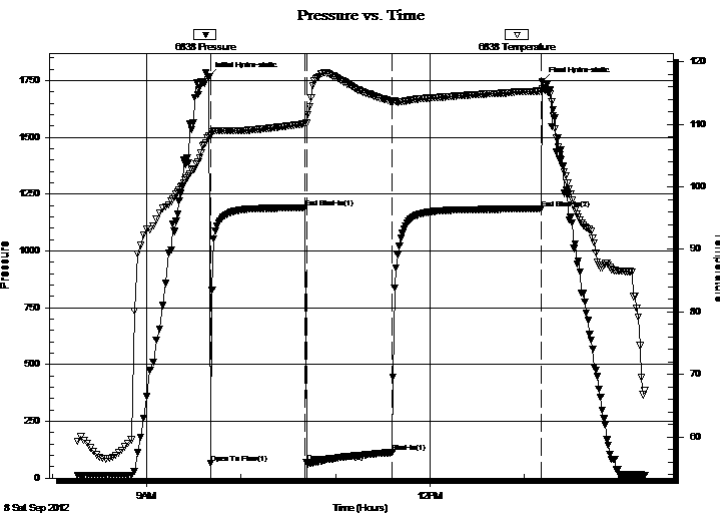
Start Time: 08:16:00

End Time: 14:16:30

Time On Btm: 2012.09.08 @ 09:39:30

Time Off Btm: 2012.09.08 @ 13:11:30

TEST COMMENT: 1st Opening 2 Minutes Strong blow built to the bottom of a 5 gallon bucket imidiately
1st Shut_in 60 Minutes-No blow back
2nd Opening 60 Minutes-Strong blow --Gas to surface in 4 minutes see gas report
2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1767.80	108.13	Initial Hydro-static
1	64.88	108.20	Open To Flow (1)
61	1190.02	110.09	End Shut-In(1)
62	69.22	110.19	Open To Flow (2)
117	112.90	113.60	Shut-In(1)
211	1185.60	115.34	End Shut-In(2)
212	1746.65	115.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Muddy Water 5%Mud 95%Water	3.51
0.00	Chlorides 22,000	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.38	18.00	65.94
Last Gas Rate	0.38	68.00	249.10
Max. Gas Rate	0.38	68.00	249.10



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Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

Interval: 3543.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations: 1915.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

1907.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6839 Outside

Press @ Run Depth: 1185.45 psia @ 3547.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.09.08

End Date: 2012.09.08

Last Calib.: 2012.09.08

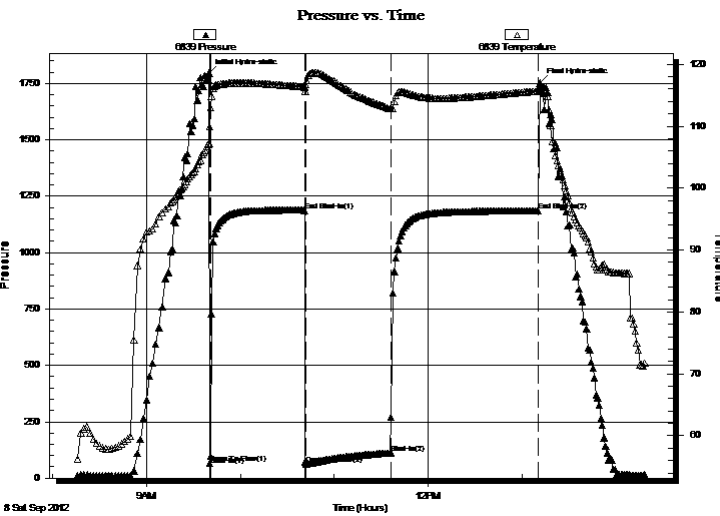
Start Time: 08:16:00

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Time On Btm: 2012.09.08 @ 09:40:00

Time Off Btm: 2012.09.08 @ 13:11:30

TEST COMMENT: 1st Opening 2 Minutes Strong blow built to the bottom of a 5 gallon bucket imidiately
1st Shut_in 60 Minutes-No blow back
2nd Opening 60 Minutes-Strong blow --Gas to surface in 4 minutes see gas report
2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1795.51	107.20	Initial Hydro-static
1	65.50	109.88	Open To Flow (1)
1	97.95	113.00	Shut-In(1)
61	1185.57	116.33	End Shut-In(1)
62	62.39	116.73	Open To Flow (2)
116	111.63	112.81	Shut-In(2)
211	1185.45	115.65	End Shut-In(2)
212	1752.06	116.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Muddy Water 5%Mud 95%Water	3.51
0.00	Chlorides 22,000	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.38	18.00	65.94
Last Gas Rate	0.38	68.00	249.10
Max. Gas Rate	0.38	68.00	249.10



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TOOL DIAGRAM

F.G.Holl Company L.L.C.

29-19s-15w Barton

9431 east Central Suite 100
Wichita, Kansas 67206

Button "A" Unit #1-24

Job Ticket: 17797

DST#: 8

ATTN: Rene Husted

Test Start: 2012.09.08 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3536.00 ft	Diameter: 3.80 inches	Volume: 49.60 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: 2000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 49.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3543.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 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			3520.00	
Hydraulic Tool	5.00			3525.00	
Jars	6.00			3531.00	
Safety Joint	2.00			3533.00	
Packer	5.00			3538.00	28.00 Bottom Of Top Packer
Packer	5.00			3543.00	
Perforations	2.00			3545.00	
Recorder	1.00	6838	Inside	3546.00	
Recorder	1.00	6839	Outside	3547.00	
Bull Plug	3.00			3550.00	7.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



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FLUID SUMMARY

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Test Start: 2012.09.08 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 5800.00 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
250.00	Muddy Water 5%Mud 95%Water	3.507
0.00	Chlorides 22,000	0.000

Total Length: 250.00 ft Total Volume: 3.507 bbl

Num Fluid Samples: 0

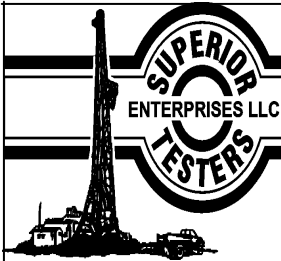
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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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	0.38	18.00	65.94
2	20	0.38	29.00	106.23
2	30	0.38	42.00	153.86
2	40	0.38	46.00	168.51
2	50	0.38	54.00	197.81
2	60	0.38	68.00	249.10

Pressure vs. Time

