



DRILL STEM TEST REPORT

Prepared For: **FG Holl Company LLC**

9431 East Central
Suite 100
Wichita, Kansas 67206+2563

ATTN: Renee Husted

Anshutz "B"

10/21S/14W/Stafford

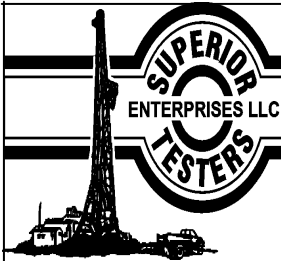
Start Date: 2013.09.21 @ 18:24:00

End Date: 2013.09.22 @ 01:34:00

Job Ticket #: 18157 DST #: 7

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

Printed: 2013.09.22 @ 01:51:03



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Test Start: 2013.09.21 @ 18:24:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:07:30

Time Test Ended: 01:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/30

Interval: **3699.00 ft (KB) To 3706.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3706.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: **6666** Outside

Press @ Run Depth: 1261.00 psia @ 3703.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.09.21

End Date:

2013.09.22

Last Calib.:

2013.09.22

Start Time: 18:24:00

End Time:

01:33:30

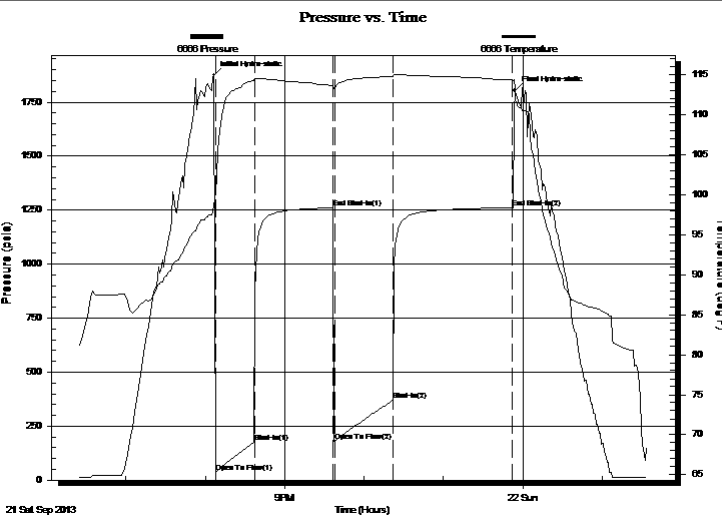
Time On Btm:

2013.09.21 @ 20:06:30

Time Off Btm:

2013.09.21 @ 23:54:00

TEST COMMENT: 1ST Open 30 Mintues/Good blow/Blow built to bottom of bucket in 8 minutes 30 seconds
1ST Shut In 60 Minutes/No blow back
2ND Open 45 Minutes/Good blow/Blow built to bottom of bucket in 10 minutes
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1875.12	98.54	Initial Hydro-static
1	37.88	100.31	Open To Flow (1)
31	175.49	114.20	Shut-In(1)
91	1260.54	113.62	End Shut-In(1)
91	180.97	113.21	Open To Flow (2)
136	369.78	114.70	Shut-In(2)
226	1261.00	114.27	End Shut-In(2)
228	1803.67	113.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
775.00	Mud cut Water	10.87
0.00	Mud 5% Water 95%	0.00
0.00	Recov Chlorides 18,000 ppm	0.00
0.00	Recov. Resist .24 ohms @ 68 deg	0.00

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3694.00 ft	Diameter: 3.80 inches	Volume: 51.82 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: 60000.00 lb
			<u>Total Volume: 51.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3699.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	34.00 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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Shut In Tool	5.00			3677.00	
Hydraulic Tool	5.00			3682.00	
Jars	5.00			3687.00	
Safety Joint	2.00			3689.00	
Packer	5.00			3694.00	27.00 Bottom Of Top Packer
Packer	5.00			3699.00	
Anchor	2.00			3701.00	
Recorder	1.00	6749	Inside	3702.00	
Recorder	1.00	6666	Outside	3703.00	
Bullnose	3.00			3706.00	7.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 9.19 in³
Resistivity: ohm.m
Salinity: 7200.00 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
775.00	Mud cut Water	10.871
0.00	Mud 5% Water 95%	0.000
0.00	Recov Chlorides 18,000 ppm	0.000
0.00	Recov. Resist .24 ohms @ 68 deg	0.000

Total Length: 775.00 ft Total Volume: 10.871 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

