



Weatherford®

Completion Systems

DRILL STEM TEST REPORT

Prepared For: **Berexco LLC**

2020 N. Bramblewood
Wichita KS 67206-1094

ATTN: Bruce Meyer

10-11s-19w Ellis,KS

Armbrister Unit #1

Start Date: 2010.10.03 @ 12:36:42

End Date: 2010.10.03 @ 20:34:12

Job Ticket #: 040905 DST #: 2

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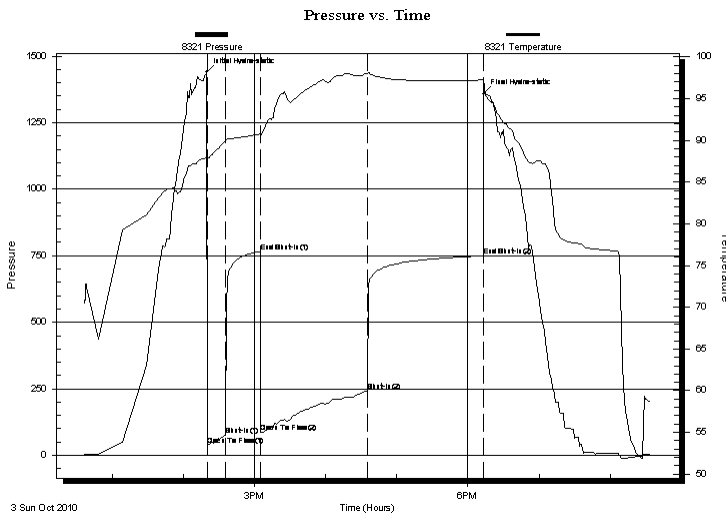
GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:20:12
Time Test Ended: 20:34:12
Test Type: Conventional Bottom Hole
Tester: Jeff Brown
Unit No: 44
Interval: **3032.00 ft (KB) To 3105.00 ft (KB) (TVD)**
Reference Elevations: 2074.00 ft (KB)
Total Depth: 3105.00 ft (KB) (TVD) 2069.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8321 Inside
Press @ Run Depth: 241.85 psig @ 3036.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.10.03 End Date: 2010.10.03 Last Calib.: 2010.10.03
Start Time: 12:36:43 End Time: 20:34:12 Time On Btm: 2010.10.03 @ 14:19:42
Time Off Btm: 2010.10.03 @ 18:13:12

TEST COMMENT: IFP-Good blow Built to 10 in
ISI-Dead no blow back
FFP-Good blow BOB in 21 1/2 min
FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1438.86	88.04	Initial Hydro-static
1	39.20	87.78	Open To Flow (1)
16	74.98	89.91	Shut-In(1)
45	765.98	90.78	End Shut-In(1)
46	88.67	90.50	Open To Flow (2)
136	241.85	98.07	Shut-In(2)
233	749.56	97.26	End Shut-In(2)
234	1358.15	97.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
227.00	Mud	1.12
240.00	MW30%M70%W	1.80

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 2677.00 ft	Diameter: 3.34 inches	Volume: 29.01 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 362.00 ft	Diameter: 2.25 inches	Volume: 1.78 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 30.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3032.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	101.00 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			3005.00	
Shut In Tool	5.00			3010.00	
Hydraulic tool	5.00			3015.00	
Jars	5.00			3020.00	
Safety Joint	3.00			3023.00	
Packer	4.00			3027.00	28.00 Bottom Of Top Packer
Packer	5.00			3032.00	
Stubb	1.00			3033.00	
Perforations	2.00			3035.00	
Change Over Sub	1.00			3036.00	
Recorder	0.00	8321	Inside	3036.00	
Recorder	0.00	8679	Outside	3036.00	
Drill Pipe	62.00			3098.00	
Change Over Sub	1.00			3099.00	
Perforations	3.00			3102.00	
Bullnose	3.00			3105.00	73.00 Bottom Packers & Anchor
Total Tool Length:	101.00				



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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: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	31000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 88.90 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
227.00	Mud	1.116
240.00	MW30%M70%W	1.802

Total Length: 467.00 ft Total Volume: 2.918 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

