



# **Weatherford<sup>®</sup>**

## **Completion Systems**

### **DRILL STEM TEST REPORT**

Prepared For: **Berexco LLC**

2020 North Bramblewood  
Wichita, KS 67208+1094

ATTN: Ed Grieves

**15-22-33 Finney,KS**

**Weede 3-15**

Start Date: 2010.10.21 @ 10:00:00

End Date: 2010.10.21 @ 19:48:00

Job Ticket #: 40291                      DST #: 6

ALPINE OIL SERVICES CORPORATION  
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Job Ticket: 40291 **DST#: 6**  
Test Start: 2010.10.21 @ 10:00:00

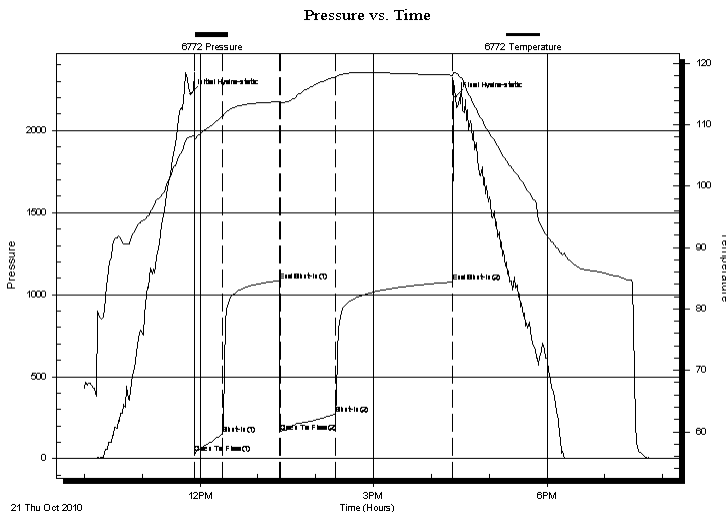
### GENERAL INFORMATION:

Formation: **St. Louis**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:54:20  
Time Test Ended: 19:48:00  
Interval: **4690.00 ft (KB) To 4735.00 ft (KB) (TVD)**  
Total Depth: 4735.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Reference Elevations: 2908.00 ft (KB)  
2897.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6772 Inside**  
Press @ Run Depth: 272.92 psig @ 4692.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2010.10.21 End Date: 2010.10.21 Last Calib.: 2010.10.21  
Start Time: 10:00:05 End Time: 19:48:00 Time On Btm: 2010.10.21 @ 11:50:05  
Time Off Btm: 2010.10.21 @ 16:25:05

**TEST COMMENT:** IF- Good building blow BOB 6min.  
IS- Weak blow back.  
FF- Good building blow BOB 8min.  
FS- Weak blow back.

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.20	108.05	Initial Hydro-static
5	30.98	107.68	Open To Flow (1)
34	151.00	111.45	Shut-In(1)
93	1084.80	113.76	End Shut-In(1)
93	163.65	113.57	Open To Flow (2)
151	272.92	117.81	Shut-In(2)
272	1076.40	118.08	End Shut-In(2)
275	2204.89	118.43	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	2300 GIP	0.00
730.00	100% oil	4.40

### Gas Rates

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



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**TOOL DIAGRAM**

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Test Start: 2010.10.21 @ 10:00:00

## Tool Information

Drill Pipe:	Length: 4051.00 ft	Diameter: 3.80 inches	Volume: 56.82 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: 25000.00 lb
Drill Collar:	Length: 641.00 ft	Diameter: 2.25 inches	Volume: 3.15 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 59.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	4690.00 ft			Final 102000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 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			4663.00	
Shut In Tool	5.00			4668.00	
Hydraulic tool	5.00			4673.00	
Jars	5.00			4678.00	
Safety Joint	3.00			4681.00	
Packer	5.00			4686.00	28.00 Bottom Of Top Packer
Packer	4.00			4690.00	
Stubb	1.00			4691.00	
Perforations	1.00			4692.00	
Recorder	0.00	8355	Inside	4692.00	
Recorder	0.00	6772	Inside	4692.00	
Change Over Sub	1.00			4693.00	
Drill Pipe	31.00			4724.00	
Change Over Sub	1.00			4725.00	
Perforations	7.00			4732.00	
Bullnose	3.00			4735.00	45.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>73.00</b>				



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### FLUID SUMMARY

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**DST#: 6**

ATTN: Ed Grieves

Test Start: 2010.10.21 @ 10:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2300 GIP	0.000
730.00	100% oil	4.401

Total Length: 730.00 ft      Total Volume: 4.401 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 32 @ 70=32 Gravity.

### Pressure vs. Time

