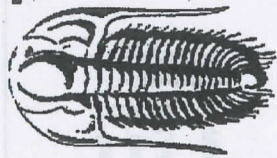


DRILL STEM TEST REPORT



**TRILOBITE TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **American Patriot**  
10940 South Parker Rd. #775  
Parker, CO 80134

ATTN: Mark Torr

**Carpenter #1**

**19-6s-19w Rooks,KS**

Start Date: 2012.01.01 @ 13:07:00  
End Date: 2012.01.01 @ 20:48:15  
Job Ticket #: 43077 DST #: 1



Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



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## DRILL STEM TEST REPORT

American Patriot  
10940 South Parker Rd. #775  
Parker, CO 80134  
ATTN: Mark Torr

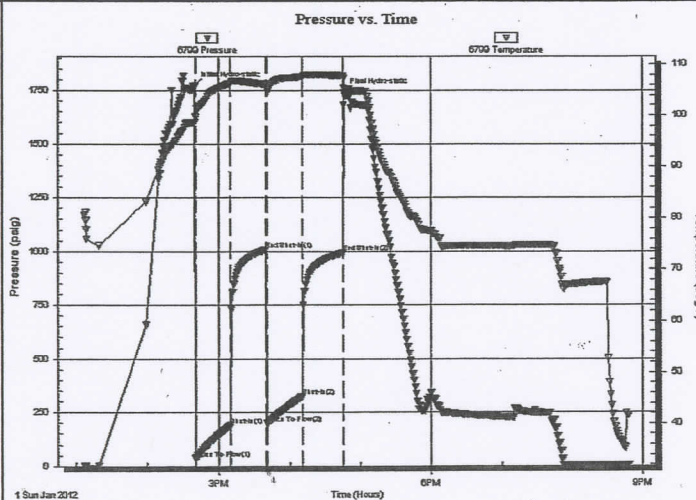
**19-6s-19w Rooks,KS**  
**Carpenter #1**  
Job Ticket: 43077      **DST#: 1**  
Test Start: 2012.01.01 @ 13:07:00

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 14:40:45  
Time Test Ended: 20:48:15  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Kevin Mack  
Unit No: 43  
Interval: **3585.00 ft (KB) To 3630.00 ft (KB) (TVD)**  
Reference Elevations: 2140.00 ft (KB)  
Total Depth: 3630.00 ft (KB) (TVD)                      2135.00 ft (CF)  
Hole Diameter: 7.88 inches    Hole Condition: Good                      KB to GR/CF: 5.00 ft

**Serial #: 6799    Inside**  
Press@RunDepth: 323.67 psig @ 3586.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.01.01      End Date: 2012.01.01      Last Calib.: 2012.01.01  
Start Time: 13:07:05      End Time: 20:48:14      Time On Btm: 2012.01.01 @ 14:40:00  
Time Off Btm: 2012.01.01 @ 16:46:00

TEST COMMENT: IF- BoB in 4 1/2 Min.  
IS- Weak Surface return started at 2 1/2 min. Built to 2 1/4"  
FF- BoB in 4 1/2 min.  
FS- Weak Surface return started at 3 min. Built to 2"



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.43	98.73	Initial Hydro-static
1	37.53	99.75	Open To Flow (1)
30	190.13	106.23	Shut-In(1)
60	1006.79	106.10	End Shut-In(1)
61	198.88	105.55	Open To Flow (2)
91	323.67	107.58	Shut-In(2)
125	992.08	107.78	End Shut-In(2)
126	1740.45	105.53	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCM 30o 70M	1.74
1371.00	Reversed oil 100o	19.23
154.00	Free oil	2.16

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

American Patriot

**19-6s-19w Rooks,KS**

10940 South Parker Rd. #775  
Parker, CO 80134

**Carpenter #1**

Job Ticket: 43077

**DST#: 1**

ATTN: Mark Torr

Test Start: 2012.01.01 @ 13:07:00

**Tool Information**

Drill Pipe:	Length: 3587.00 ft	Diameter: 3.80 inches	Volume: 50.32 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 50.32 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3585.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3565.00	
Shut In Tool	5.00			3570.00	
Hydraulic tool	5.00			3575.00	
Packer	5.00			3580.00	21.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Stubb	1.00			3586.00	
Recorder	0.00	8648	Inside	3586.00	
Recorder	0.00	6799	Inside	3586.00	
Perforations	5.00			3591.00	
Change Over Sub	1.00			3592.00	
Drill Pipe	31.00			3623.00	
Change Over Sub	1.00			3624.00	
Perforations	1.00			3625.00	
Bullnose	5.00			3630.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**





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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Patriot  
10940 South Parker Rd. #775  
Parker, CO 80134  
ATTN: Mark Torr

**19-6s-19w Rooks,KS**  
**Carpenter #1**  
Job Ticket: 43077      **DST#: 1**  
Test Start: 2012.01.01 @ 13:07:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OCM 30o 70M	1.739
1371.00	Reversed oil 100o	19.232
154.00	Free oil	2.160

Total Length: 1649.00 ft      Total Volume: 23.131 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Oil API 43@60 deg. = 43  
Dumped 4 stands then reversed fluid into a truck.

Serial #: 6799

Inside American Patriot

Carpenter #1

DST Test Number: 1

