



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Denis F.Roberts**

P.O.Box 1252
Hays, Ks. 67601

ATTN: Denis F.Roberts

11-7s-21w Graham

Benoit # 33

Start Date: 2004.08.27 @ 11:55:07

End Date: 2004.08.27 @ 16:47:37

Job Ticket #: 19371 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Denis F.Roberts

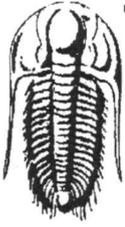
Benoit # 33

11-7s-21w Graham

DST # 1

Tor.-L.Kc.-B

2004.08.27



**TRILOBITE
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DRILL STEM TEST REPORT

Denis F.Roberts

Benoit # 33

P.O.Box 1252
Hays,Ks.67601

11-7s-21w Graham

Job Ticket: 19371

DST#: 1

ATTN: Denis F.Roberts

Test Start: 2004.08.27 @ 11:55:07

GENERAL INFORMATION:

Formation: **Tor.-L.Kc.-B**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 13:21:07

Time Test Ended: 16:47:37

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3372.00 ft (KB) To 3432.00 ft (KB) (TVD)**

Total Depth: **3432.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2167.00 ft (KB)**

2159.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6742

Inside

Press@RunDepth: **16.30 psig @ 3377.00 ft (KB)**

Start Date: **2004.08.27**

End Date:

2004.08.27

Start Time: **11:55:12**

End Time:

16:47:36

Capacity: **7000.00 psig**

Last Calib.: **2004.08.27**

Time On Btm: **2004.08.27 @ 13:20:37**

Time Off Btm: **2004.08.27 @ 15:35:07**

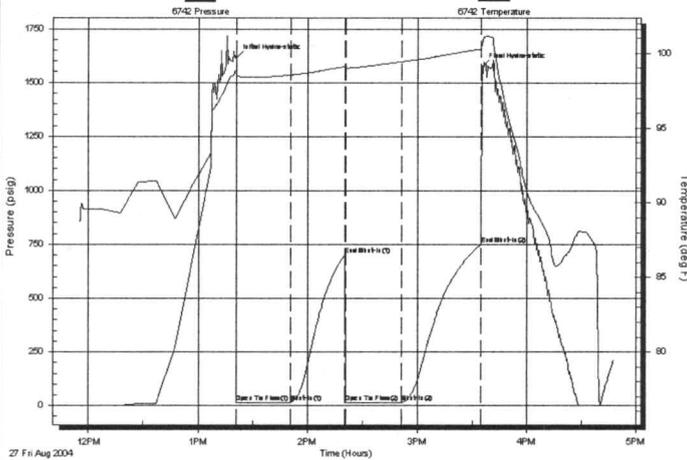
TEST COMMENT: **IF-Weak Surf. Dead in 18 min.**

ISI-Dead

FF-Dead

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.75	98.82	Initial Hydro-static
1	13.26	98.51	Open To Flow (1)
30	14.89	98.53	Shut-In(1)
60	700.98	99.10	End Shut-In(1)
60	15.37	99.03	Open To Flow (2)
91	16.30	99.42	Shut-In(2)
134	749.78	100.29	End Shut-In(2)
135	1575.64	100.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

Gas Rates

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



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TOOL DIAGRAM

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Benoit # 33

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11-7s-21w Graham

Job Ticket: 19371

DST#: 1

ATTN: Denis F.Roberts

Test Start: 2004.08.27 @ 11:55:07

Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 47.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3372.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 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			3353.00	
Shut In Tool	5.00			3358.00	
Hydraulic tool	5.00			3363.00	
Packer	4.00			3367.00	20.00 Bottom Of Top Packer
Packer	5.00			3372.00	
Stubb	1.00			3373.00	
Perforations	3.00			3376.00	
Change Over Sub	1.00			3377.00	
Recorder	0.00	6742	Inside	3377.00	
Blank Spacing	31.00			3408.00	
Change Over Sub	1.00			3409.00	
Recorder	0.00	11084	Outside	3409.00	
Perforations	20.00			3429.00	
Bullnose	3.00			3432.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



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FLUID SUMMARY

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11-7s-21w Graham

Job Ticket: 19371

DST#: 1

ATTN: Denis F.Roberts

Test Start: 2004.08.27 @ 11:55:07

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:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

