

## DRILL STEM TEST REPORT

Prepared For: **Cleary Petroleum Corp.**

2601 NW Expressway  
Ste. 801w  
Oklahoma City, OK 73112

ATTN: Cleary Petroleum

**30-34s-15w**

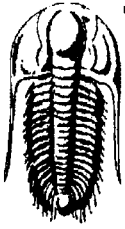
**Barbara #1-30**

Start Date: 2005.12.19 @ 22:19:31

End Date: 2005.12.20 @ 10:11:01

Job Ticket #: 21448                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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TESTING, INC.**

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Test Start: 2005.12.19 @ 22:19:31

## GENERAL INFORMATION:

Formation: **Oswego or Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:08:16  
Time Test Ended: 10:11:01  
Interval: **4833.00 ft (KB) To 4915.00 ft (KB) (TVD)**  
Total Depth: 4915.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Davy Cline  
Unit No: 24  
Reference Elevations: 1666.00 ft (KB)  
1653.00 ft (CF)  
KB to GR/CF: 13.00 ft

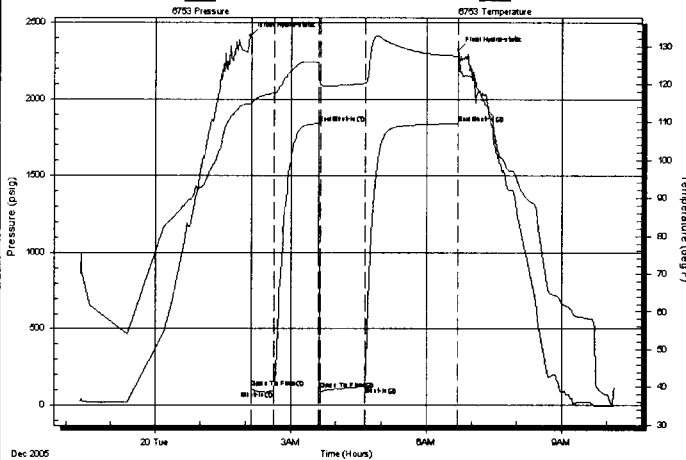
## Serial #: 6753

Inside

Press@RunDepth: 121.27 psig @ 4837.00 ft (KB) Capacity: 7000.00 psig  
Start Date: 2005.12.19 End Date: 2005.12.20 Last Calib.: 2005.12.20  
Start Time: 22:19:32 End Time: 10:11:01 Time On Btm: 2005.12.20 @ 02:06:16  
Time Off Btm: 2005.12.20 @ 06:41:46

**TEST COMMENT:** F: Strong blow . BOB of diesel in 15 sec. Strong blow throughout flow period.  
IS: Bled off. No blow back.  
FF: Strong blow . BOB Immediately. GTS Immediately into flow period. Gauged gas.  
FSI: Ble

Pressure vs. Time



## PRESSURE SUMMARY

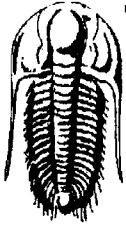
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2413.19	114.73	Initial Hydro-static
2	113.59	114.75	Open To Flow (1)
33	94.42	117.82	Shut-In(1)
92	1839.39	125.76	End Shut-In(1)
93	100.64	119.95	Open To Flow (2)
153	121.27	120.19	Shut-In(2)
276	1839.29	127.38	End Shut-In(2)
276	2320.94	129.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	GCM 2%g 98% m	0.93

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	20.00	54.57
Max. Gas Rate	0.25	20.00	54.57



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**TOOL DIAGRAM**

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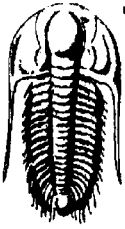
### Tool Information

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.25 inches	Volume: 44.63 bbl	Tool Weight: 2400.00 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: 460.00 ft	Diameter: 2.25 inches	Volume: 2.26 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4833.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	110.00 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			4806.00	
Shut In Tool	5.00			4811.00	
Hydraulic tool	5.00			4816.00	
Jars	5.00			4821.00	
Safety Joint	2.00			4823.00	
Packer	5.00			4828.00	28.00      Bottom Of Top Packer
Packer	5.00			4833.00	
Stubb	1.00			4834.00	
Perforations	2.00			4836.00	
Change Over Sub	1.00			4837.00	
Recorder	0.00	6753	Inside	4837.00	
Blank Spacing	64.00			4901.00	
Change Over Sub	1.00			4902.00	
Perforations	10.00			4912.00	
Recorder	0.00	13400	Outside	4912.00	
Bullnose	3.00			4915.00	82.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>110.00</b>				



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**FLUID SUMMARY**

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## Mud and Cushion Information

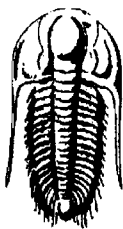
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	GCM 2%g 98%m	0.934

Total Length: 190.00 ft      Total Volume: 0.934 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



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**GAS RATES**

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## Gas Rates Information

Temperature:            59 deg C  
Relative Density:       0.65  
Z Factor:                0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	10	0.25	3.00	27.60
2	20	0.25	6.00	32.36
2	30	0.25	10.00	38.71
2	40	0.25	14.00	45.05
2	50	0.25	17.00	49.81
2	60	0.25	20.00	54.57

### Pressure vs. Time

