



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FIML Natural Resources

**Smith 13c-16-1931**

410 17th St.  
STE 900  
Denver Co.80202  
ATTN: Josh Austin

**Sec 16 Twp 19sRge31w**

Job Ticket: 37971 **DST#: 2**

Test Start: 2010.08.06 @ 04:00:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:06:00

Time Test Ended: 10:30:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreuzer Jr.

Unit No: 36

**Interval: 4320.00 ft (KB) To 4416.00 ft (KB) (TVD)**

Reference Elevations: 2974.00 ft (KB)

Total Depth: 4416.00 ft (KB) (TVD)

2962.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

**Serial #: 6741 Inside**

Press @ RunDepth: 141.79 psig @ 4325.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.06 End Date: 2010.08.06

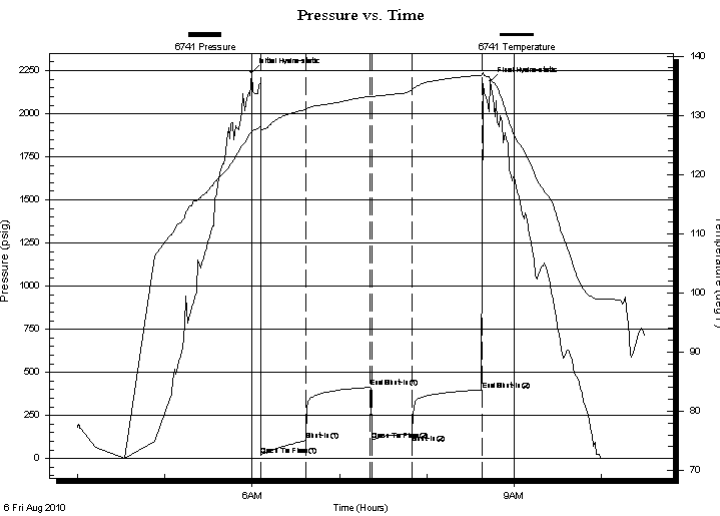
Last Calib.: 2010.08.06

Start Time: 04:00:01 End Time: 10:30:00

Time On Btm: 2010.08.06 @ 05:59:30

Time Off Btm: 2010.08.06 @ 08:43:30

**TEST COMMENT:** IF: Weak blow , built to 3 in. over 30 mins.  
IS: No blow back over 45 mins.  
FF: Weak blow back after 15 mins. built to 1/4 in. over 30 mins.  
FS: No blow back over 45 mins.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.82	127.03	Initial Hydro-static
7	21.75	127.44	Open To Flow (1)
37	103.87	130.97	Shut-In(1)
82	413.11	133.22	End Shut-In(1)
83	108.47	133.16	Open To Flow (2)
110	141.79	134.23	Shut-In(2)
158	398.57	136.79	End Shut-In(2)
164	2187.10	136.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud with oil specs	0.15
240.00	vsocm-1%o99%m	1.45

## Gas Rates

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



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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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud w ith oil specs	0.148
240.00	vsocm-1%o99%m	1.454

Total Length: 270.00 ft      Total Volume: 1.602 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

