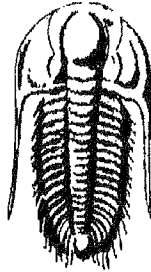


15-171-20674

16-193-31w

MD



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

CONFIDENTIAL
MAY 23 2008
KCC

Prepared For: **FIML Natural Resources LLC**

410 17th St Ste 900
Denver CO 80202

ATTN: Jim Musgrove

16 19 31W Scott KS

Dearden # 1A-16-1931

Start Date: 2008.03.06 @ 13:58:00

End Date: 2008.03.06 @ 23:35:49

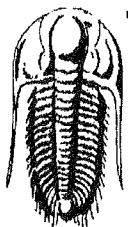
Job Ticket #: 31596 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 27 2008

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FIML Natural Resources LLC

410 17th St Ste 900
Denver CO 80202

ATTN: Jim Musgrove

Dearden # 1A-16-1931

16 19 31W Scott KS

Job Ticket: 31596

DST#: 1

Test Start: 2008.03.06 @ 13:58:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:30

Time Test Ended: 23:35:49

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4337.00 ft (KB) To 4430.00 ft (KB) (TVD)**

Total Depth: 4430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2969.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **8352** Inside

Press@RunDepth: 305.90 psig @ 4338.00 ft (KB)

Start Date: 2008.03.06

End Date: 2008.03.06

Start Time: 13:58:02

End Time: 23:35:49

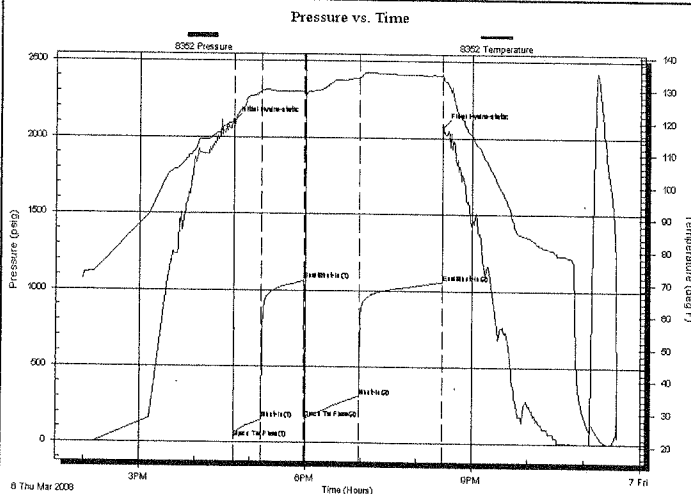
Capacity: 7000.00 psig

Last Calib.: 2008.03.07

Time On Btm: 2008.03.06 @ 16:42:10

Time Off Btm: 2008.03.06 @ 20:29:30

TEST COMMENT: IF Fairly strong blow built to BOB in 11 min 45 sec
ISI Bled off blow back built to 1 " in bucket
FF Fairly strong blow built to BOB in 14 min
FSI Bled off blow back built to 3 " in bucket



PRESSURE SUMMARY

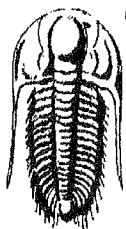
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.10	120.10	Initial Hydro-static
1	25.66	119.43	Open To Flow (1)
30	152.82	129.46	Shut-In (1)
76	1064.74	129.31	End Shut-In (1)
77	159.46	128.52	Open To Flow (2)
136	305.90	133.68	Shut-In (2)
227	1054.13	134.59	End Shut-In (2)
228	2071.37	133.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	VHGC/MCO 45%g 10% m 45%o	0.30
248.00	VHGC/MO 42%g 23% m 35%o	2.62
186.00	VHGC/MCO 33%G 13%M 54%O	2.61
124.00	HGC/MCO 25%G 15%M 60%O	1.74
90.00	Gassy Clean Oil 15%G 85%O	1.26
0.00	340' GIP 30 deg API grav. corrected	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

FIML Natural Resources LLC

Dearden # 1A-16-1931

410 17th St Ste 900
Denver CO 80202

16 19 31W Scott KS

Job Ticket: 31596

DST#: 1

ATTN: Jim Musgrove

Test Start: 2008.03.06 @ 13:58:00

Tool Information

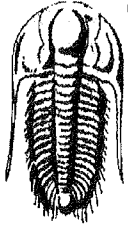
Drill Pipe:	Length: 4166.00 ft	Diameter: 3.80 inches	Volume: 58.44 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 156.00 ft	Diameter: 2.25 inches	Volume: 0.77 bbl	Weight to Pull Loose: 78000.00 lb
		Total Volume: 59.21 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4337.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4322.00	
Hydraulic tool	5.00			4327.00	
Packer	5.00			4332.00	20.00 Bottom Of Top Packer
Packer	5.00			4337.00	
Stubb	1.00			4338.00	
Recorder	0.00	8352	Inside	4338.00	
Recorder	0.00	6799	Inside	4338.00	
Perforations	24.00			4362.00	
Blank Spacing	65.00			4427.00	
Bullnose	3.00			4430.00	93.00 Bottom Packers & Anchor
Total Tool Length:	113.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

FIML Natural Resources LLC

Dearden # 1A-16-1931

410 17th St Ste 900
Denver CO 80202

16 19 31W Scott KS

Job Ticket: 31596

DST#: 1

ATTN: Jim Musgrove

Test Start: 2008.03.06 @ 13:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 1700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft
bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	VHGMCO 45%g 10%m 45%o	0.305
248.00	VHGMCO 42%g 23%m 35%o	2.622
186.00	VHGMCO 33%G 13%M 54%O	2.609
124.00	HGCMCO 25%G 15%M 60%O	1.739
90.00	Gassy Clean Oil 15%G 85%O	1.262
0.00	340' GIP 30 deg API grav. corrected	0.000

Total Length: 710.00 ft

Total Volume: 8.537 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

