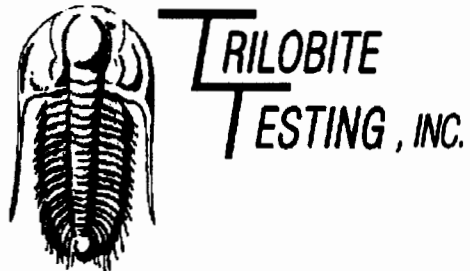


15-185-23582

14-23s-14w

IND



DRILL STEM TEST REPORT

Prepared For: **RAMA Operating Company, Inc.**

PO Box 159
Stafford, KS 67578-1429

ATTN: Josh Austin

14 23 14 Stafford KS

TAYLOR #4-14

Start Date: 2009.08.08 @ 11:15:00

End Date: 2009.08.08 @ 17:23:20

Job Ticket #: 35099 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2009.08.21 @ 08:28:34 Page 1

RAMA Operating Company, Inc.

TAYLOR #4-14

14 23 14 Stafford KS

DST # 1

Lansing "H"

2009.08.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

RAMA Operating Company, Inc.

TAYLOR #4-14

PO Box 159
Stafford, KS 67578-1429

14 23 14 Stafford KS

ATTN: Josh Austin

Job Ticket: 35099

DST#: 1

Test Start: 2009.08.08 @ 11:15:00

GENERAL INFORMATION:

Formation: **Lansing "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:09:00

Time Test Ended: 17:23:20

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **3660.00 ft (KB) To 3678.00 ft (KB) (TVD)**

Total Depth: 3678.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1933.00 ft (KB)

1925.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8352

Inside

Press@RunDepth: 28.16 psig @ 3661.00 ft (KB)

Start Date: 2009.08.08

End Date:

2009.08.08

Start Time: 11:15:02

End Time:

17:23:19

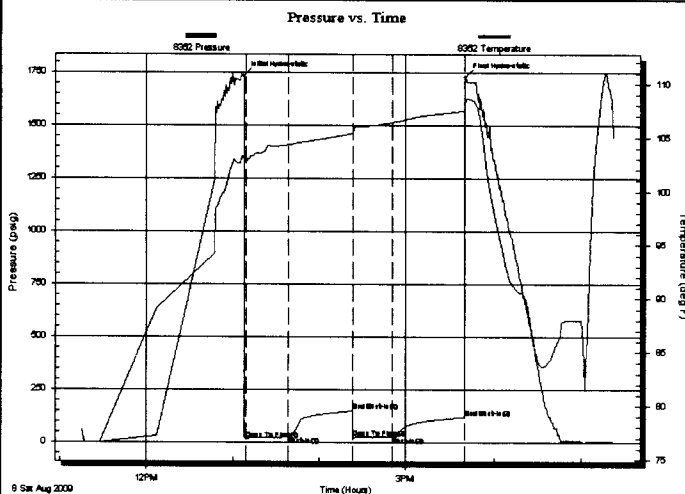
Capacity: 7000.00 psig

Last Calib.: 2009.08.08

Time On Btm: 2009.08.08 @ 13:07:50

Time Off Btm: 2009.08.08 @ 15:40:39

TEST COMMENT: IF: Weak blow, built to 1.75" in bucket.
IS: No blow back.
FF: Weak blow, built to 1.75" in bucket.
FS: No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.94	103.31	Initial Hydro-static
2	15.93	102.82	Open To Flow(1)
31	27.29	104.32	Shut-In(1)
76	151.10	105.39	End Shut-In(1)
76	23.52	105.44	Open To Flow(2)
104	28.16	106.43	Shut-In(2)
153	121.61	107.50	End Shut-In(2)
153	1731.04	108.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	WCM w/trace oil show 25%w 75%m	0.07
0.00	100' Gas In Pipe	0.00
0.00	RW=.23ohm@100degF=20000ppmChl	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

RAMA Operating Company, Inc.

TAYLOR #4-14

PO Box 159
Stafford, KS 67578-1429

14 23 14 Stafford KS

Job Ticket: 35099

DST#: 1

ATTN: Josh Austin

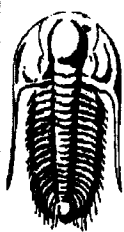
Test Start: 2009.08.08 @ 11:15:00

Tool Information

Drill Pipe:	Length: 3442.00 ft	Diameter: 3.80 inches	Volume: 48.28 bbl	Tool Weight: 2200.00 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: 220.00 ft	Diameter: 2.25 inches	Volume: 1.08 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 49.36 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3660.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3645.00	
Hydraulic tool	5.00			3650.00	
Packer	5.00			3655.00	20.00 Bottom Of Top Packer
Packer	5.00			3660.00	
Stubb	1.00			3661.00	
Recorder	0.00	8352	Inside	3661.00	
Recorder	0.00	6799	Inside	3661.00	
Perforations	12.00			3673.00	
Bullnose	5.00			3678.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

RAMA Operating Company, Inc.

TAYLOR #4-14

PO Box 159
Stafford, KS 67578-1429

14 23 14 Stafford KS

Job Ticket: 35099

DST#: 1

ATTN: Josh Austin

Test Start: 2009.08.08 @ 11:15:00

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:

20000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	WCM w/trace oil show 25%w 75%m	0.074
0.00	100' Gas In Pipe	0.000
0.00	RW=.23ohm@100degF=20000ppmCl	0.000

Total Length:

15.00 ft

Total Volume:

0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

