

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Company, Inc.**

P.O.Box 124
Kiowa, KS 67070-1912

ATTN: Arden Ratzlaff

36-34s-12w Barber KS

YATES A #8

Start Date: 2011.01.14 @ 07:10:00

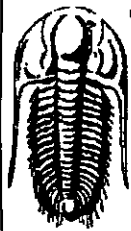
End Date: 2011.01.14 @ 19:15:00

Job Ticket #: 39320 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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YATES A #8

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Job Ticket: 39320 DST#: 1

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Test Start: 2011.01.14 @ 07:10:00

GENERAL INFORMATION:

Formation: **MISENER**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:08:45

Time Test Ended: 19:15:00

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **5059.00 ft (KB) To 5072.00 ft (KB) (TVD)**

Total Depth: 5072.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1399.00 ft (KB)

1389.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6799

Outside

Press@RunDepth: 154.67 psig @ 5060.00 ft (KB)

Start Date: 2011.01.14

End Date: 2011.01.14

Start Time: 07:10:05

End Time: 19:15:00

Capacity: 8000.00 psig

Last Calib.: 2011.01.14

Time On Btm: 2011.01.14 @ 11:05:45

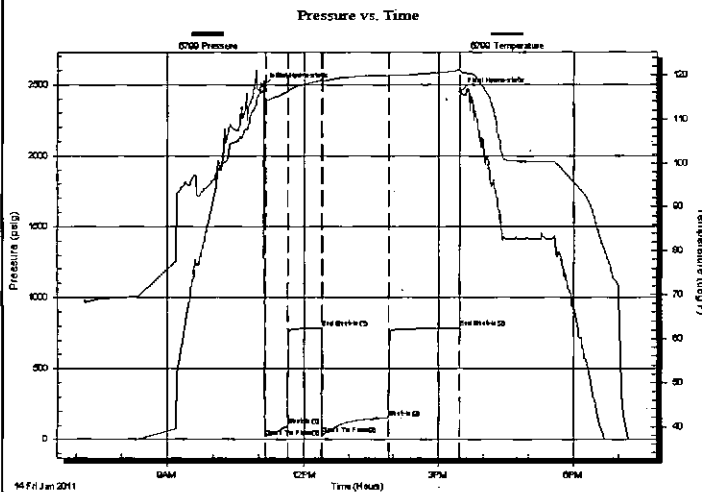
Time Off Btm: 2011.01.14 @ 15:28:45

TEST COMMENT: IF: Strong blow, BOB 1 minute, GTS 14 minutes.

IS: Bled off, no blow back.

FF: Strong blow, BOB immediately.

FS: Bled off, no blow back.



PRESSURE SUMMARY

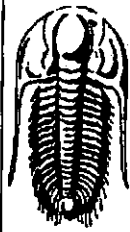
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2485.43	116.58	Initial Hydro-static
3	20.05	114.24	Open To Flow (1)
33	94.88	116.30	Shut-In(1)
77	785.62	118.85	End Shut-In(1)
79	37.24	118.62	Open To Flow (2)
168	154.67	119.72	Shut-In(2)
262	787.53	121.10	End Shut-In(2)
263	2448.43	120.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MUD 100% m	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	28.00	67.26
Last Gas Rate	0.25	131.00	230.66
Max. Gas Rate	0.25	131.00	230.66



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TOOL DIAGRAM

Chieftain Oil Company, Inc.

YATES A #8

P.O.Box 124
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36-34s-12w Barber KS

Job Ticket: 39320

DST#: 1

ATTN: Arden Ratzlaff

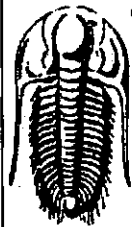
Test Start: 2011.01.14 @ 07:10:00

Tool Information

Drill Pipe:	Length: 5046.00 ft	Diameter: 3.80 inches	Volume: 70.78 bbl	Tool Weight: 2300.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 70.78 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	5059.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5041.00	
Hydraulic tool	5.00			5046.00	
Safety Joint	3.00			5049.00	
Packer	5.00			5054.00	23.00 Bottom Of Top Packer
Packer	5.00			5059.00	
Stubb	1.00			5060.00	
Recorder	0.00	8648	Inside	5060.00	
Recorder	0.00	6799	Outside	5060.00	
Perforations	7.00			5067.00	
Bullnose	5.00			5072.00	13.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



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FLUID SUMMARY

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Job Ticket: 39320 DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2011.01.14 @ 07:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 2100.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	MUD 100%m	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:



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GAS RATES

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Job Ticket: 39320

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2011.01.14 @ 07:10:00

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 ³ /d)
1	15	0.25	28.00	67.26
1	15	0.25	28.00	67.26
1	20	0.25	43.00	91.06
1	25	0.25	56.00	111.68
1	30	0.25	69.00	132.31
2	10	0.25	44.00	92.65
2	20	0.25	69.00	132.31
2	30	0.25	89.00	164.03
2	40	0.25	109.00	195.76
2	50	0.25	117.00	208.45
2	60	0.25	122.00	216.39
2	70	0.25	128.00	225.90
2	90	0.25	131.00	230.66

