

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Brock

12 34 39 Stevens KS

Mid American 12-1

Start Date: 2007.07.04 @ 07:47:43

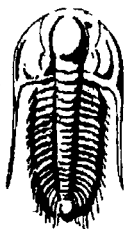
End Date: 2007.07.04 @ 19:53:08

Job Ticket #: 27377 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

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Test Start: 2007.07.04 @ 07:47:43

GENERAL INFORMATION:

Formation: **Lower Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:29:23

Time Test Ended: 19:53:08

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **6296.00 ft (KB) To 6330.00 ft (KB) (TVD)**

Total Depth: 6330.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 3284.00 ft (KB)

3274.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6672

Inside

Press@RunDepth: 349.92 psig @ 6298.00 ft (KB)

Start Date: 2007.07.04

End Date:

2007.07.04

Start Time: 07:47:43

End Time:

19:53:08

Capacity: 7000.00 psig

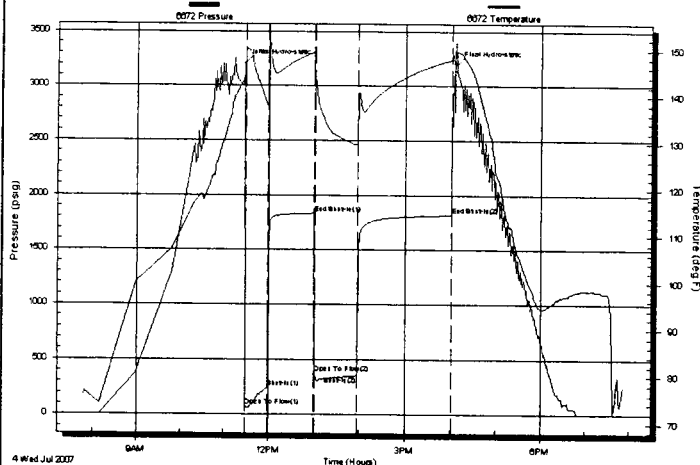
Last Calib.: 1899.12.30

Time On Btm: 2007.07.04 @ 11:27:53

Time Off Btm: 2007.07.04 @ 16:07:37

TEST COMMENT: IF BOB 10 sec. GTS 7 min. strong building blow
ISI No blow back
FF BOB 5 sec. GTS ASAO strong building blow
FSI No blow back

Pressure vs Time



PRESSURE SUMMARY

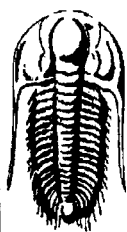
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3201.11	143.89	Initial Hydro-static
2	77.59	150.06	Open To Flow (1)
30	243.21	138.10	Shut-In(1)
93	1833.97	149.53	End Shut-In(1)
94	369.43	143.94	Open To Flow (2)
150	349.92	129.52	Shut-In(2)
274	1818.96	147.94	End Shut-In(2)
280	3199.06	149.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW 90%W 10%M	0.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	18.00	506.08
Last Gas Rate	0.75	96.00	1724.43
Max. Gas Rate	0.75	96.00	1724.43



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TOOL DIAGRAM

EOG Resources Inc

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Job Ticket: 27377

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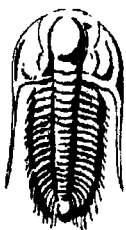
Test Start: 2007.07.04 @ 07:47:43

Tool Information

Drill Pipe:	Length: 5921.00 ft	Diameter: 3.80 inches	Volume: 83.06 bbl	Tool Weight: 2000.00 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: lb
		Total Volume: 84.87 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	6296.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6266.00	
Shut In Tool	5.00			6271.00	
Sampler	3.00			6274.00	
Hydraulic tool	5.00			6279.00	
Jars	5.00			6284.00	
Safety Joint	3.00			6287.00	
Packer	5.00			6292.00	31.00 Bottom Of Top Packer
Packer	4.00			6296.00	
Stubb	1.00			6297.00	
Perforations	1.00			6298.00	
Recorder	0.00	6672	Inside	6298.00	
Perforations	29.00			6327.00	
Recorder	0.00	13630	Inside	6327.00	
Bullnose	3.00			6330.00	34.00 Bottom Packers & Anchor

Total Tool Length: 65.00



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FLUID SUMMARY

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Mid American 12-1

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Job Ticket: 27377

DST#: 1

Test Start: 2007.07.04 @ 07:47:43

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 1000.00 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: 28000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MW 90%W 10%M	0.915

Total Length: 186.00 ft Total Volume: 0.915 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

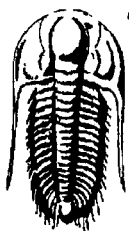
Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Sampler=30.4cf Gas @ 1600psi

RW=.185@91F=28,000ppm



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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 (m³/d)
1	10	0.75	18.00	506.08
1	20	0.75	22.00	568.56
1	30	0.75	42.00	880.96
2	10	0.75	75.00	1396.42
2	20	0.75	88.00	1599.47
2	30	0.75	90.00	1630.71
2	40	0.75	92.00	1661.95
2	50	0.75	94.00	1693.19
2	60	0.75	96.00	1724.43

Serial #: 6672

Inside

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DST Test Number: 1

