

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

31 25 34 Finney KS

Greathouse 31#1

Start Date: 2007.03.03 @ 19:27:50

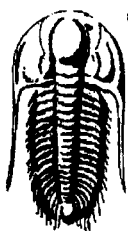
End Date: 2007.03.04 @ 03:40:29

Job Ticket #: 26446 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

Greathouse 31#1

31 25 34 Finney KS

Job Ticket: 26446

DST#: 1

Test Start: 2007.03.03 @ 19:27:50

GENERAL INFORMATION:

Formation: **lower morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:10:00

Time Test Ended: 03:40:29

Test Type: Conventional Straddle

Tester: Shane McBride

Unit No: 40

Interval: **5000.00 ft (KB) To 5055.00 ft (KB) (TVD)**

Total Depth: 5264.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3009.00 ft (KB)

2997.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6667 Inside

Press@RunDepth: psig @ 5001.00 ft (KB)

Start Date: 2007.03.03

End Date:

2007.03.04

Capacity: 7000.00 psig

Last Calib.: 2007.03.04

Start Time: 19:27:50

End Time:

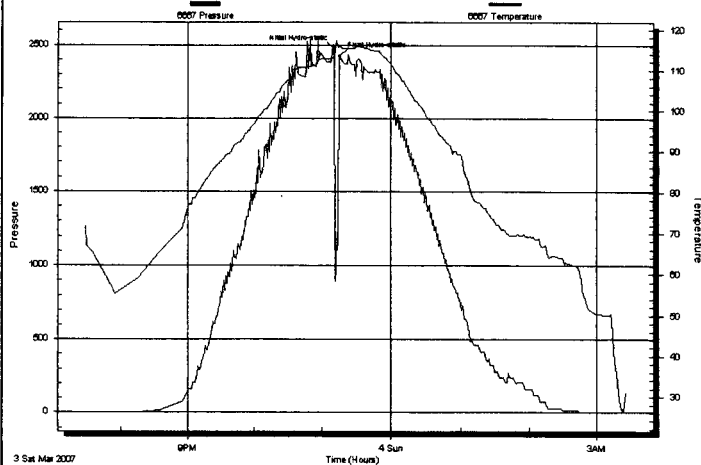
03:26:29

Time On Btm: 2007.03.03 @ 23:10:45

Time Off Btm: 2007.03.03 @ 23:15:30

TEST COMMENT: Packers failed pull tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2474.38	113.04	Initial Hydro-static
5	2423.49	115.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
932.00	Mud	9.67

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

Greathouse 31#1

31 25 34 Finney KS

Job Ticket: 26446

DST#: 1

Test Start: 2007.03.03 @ 19:27:50

Tool Information

Drill Pipe:	Length: 4622.00 ft	Diameter: 3.80 inches	Volume: 64.83 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 374.00 ft	Diameter: 2.25 inches	Volume: 1.84 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 66.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 95000.00 lb
Depth to Top Packer:	5000.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	5055.00 ft			
Interval between Packers:	55.00 ft			
Tool Length:	294.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4976.00	
Hydraulic tool	5.00			4981.00	
Sampler	3.00			4984.00	
Jars	5.00			4989.00	
Safety Joint	2.00			4991.00	
Packer - Shale	5.00			4996.00	
Packer	4.00		Inside	5000.00	29.00 Bottom Of Top Packer
Stubb	1.00			5001.00	
Recorder	0.00	6667	Inside	5001.00	
Perforations	2.00			5003.00	
Change Over Sub	1.00			5004.00	
Drill Pipe	31.00			5035.00	
Change Over Sub	1.00			5036.00	
Perforations	12.00			5048.00	
Recorder	0.00	11057	Inside	5048.00	
Anchor	3.00			5051.00	
Blank Off Sub	1.00			5052.00	
top of packer	3.00			5055.00	55.00 Tool Interval
Packer	1.00			5056.00	
Stubb	1.00			5057.00	
Anchor	15.00			5072.00	
Change Over Sub	1.00			5073.00	
Drill Pipe	186.00			5259.00	
Change Over Sub	1.00			5260.00	
Recorder	0.00	11058	Outside	5260.00	
Bullnose	5.00			5265.00	210.00 Bottom Packers & Anchor
Total Tool Length:		294.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc

Greathouse 31#1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

31 25 34 Finney KS

Job Ticket: 26446

DST#: 1

ATTN: Dale Passig

Test Start: 2007.03.03 @ 19:27:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
932.00	Mud	9.667

Total Length: 932.00 ft

Total Volume: 9.667 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 2000ml mud psi 20

DST Test Number: 1

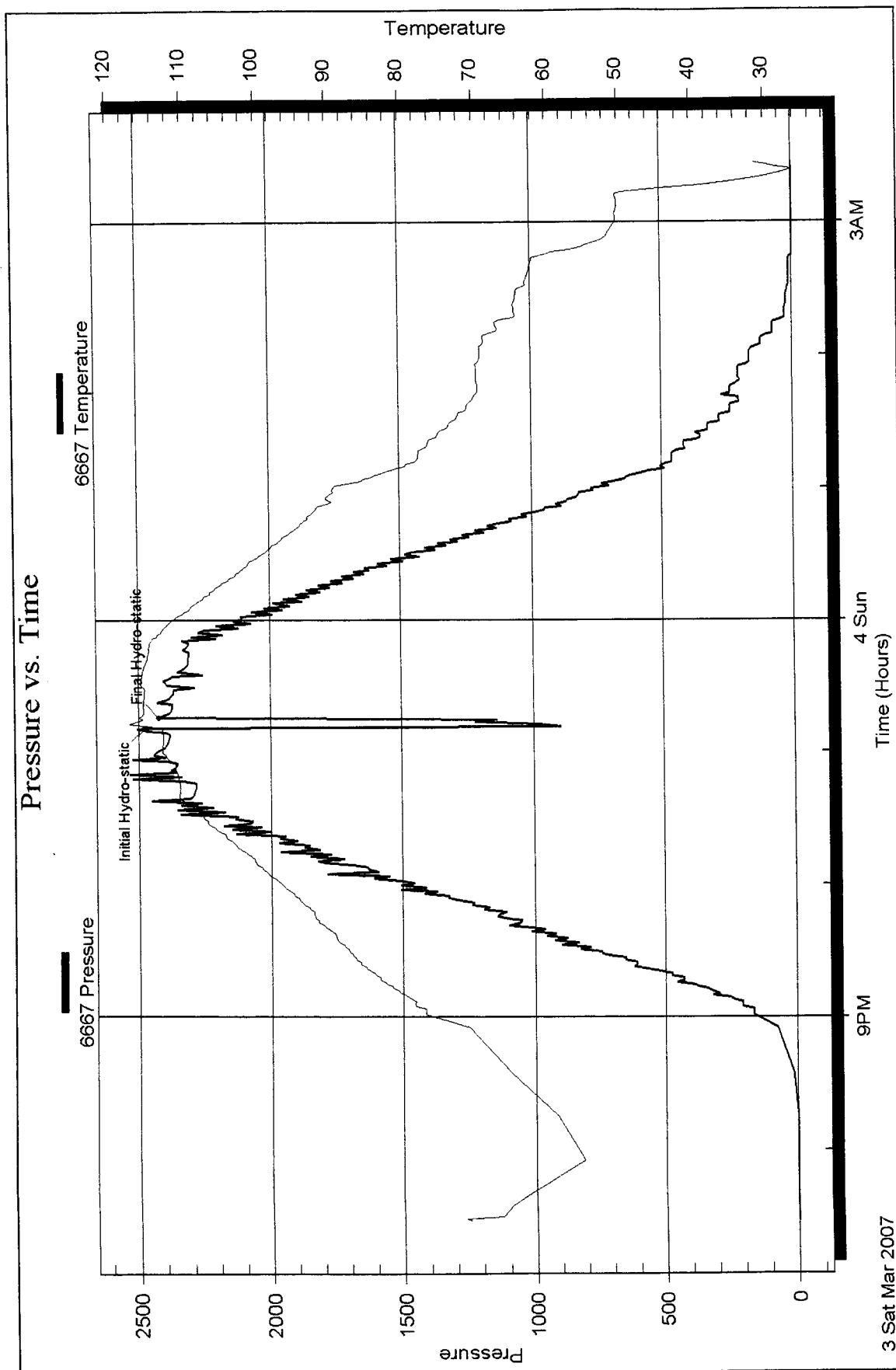
31 25 34 Finney KS

EOG Resources Inc

Inside

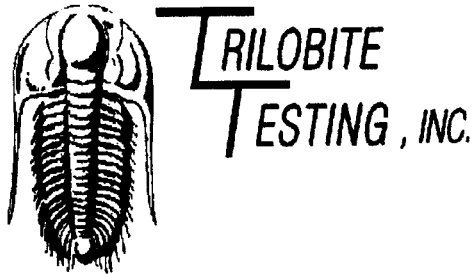
Serial #: 6667

Pressure vs. Time



Ref. No: 26446

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

31 25 34 Finney KS

Greathouse 31#1

Start Date: 2007.03.04 @ 12:10:59

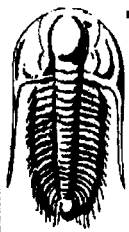
End Date: 2007.03.04 @ 00:00:00

Job Ticket #: 26447 DST #: 2

Trilobite Testing, Inc

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DRILL STEM TEST REPORT

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

Greathouse 31#1

31 25 34 Finney KS

Job Ticket: 26447

DST#: 2

Test Start: 2007.03.04 @ 12:10:59

GENERAL INFORMATION:

Formation: **Lower Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:25:39

Time Test Ended: 00:00:00

Test Type: Conventional Straddle

Tester: Shane McBride

Unit No: 40

Interval: **5010.00 ft (KB) To 5050.00 ft (KB) (TVD)**

Reference Elevations: 3009.00 ft (KB)

Total Depth: 5264.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6667

Inside

Press@RunDepth: 103.20 psig @ 4971.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.03.04

End Date:

2007.03.04

Last Calib.:

2007.03.05

Start Time: 12:10:59

End Time:

23:40:24

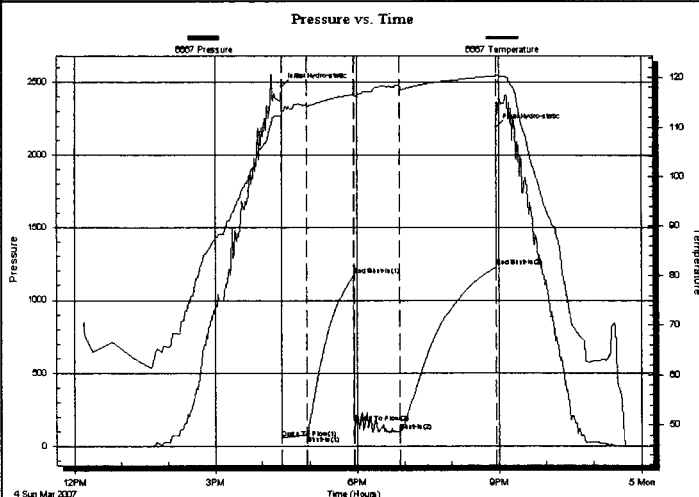
Time On Btm:

2007.03.04 @ 16:25:24

Time Off Btm:

2007.03.04 @ 20:56:54

TEST COMMENT: IF 1/2 inch blow built to 2 inches died back to 1 inch
IS No return
FF No blow
FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2470.96	113.03	Initial Hydro-static
1	55.13	112.83	Open To Flow (1)
32	74.63	114.20	Shut-In (1)
91	1170.75	116.64	End Shut-In (1)
91	163.79	116.33	Open To Flow (2)
149	103.20	118.50	Shut-In (2)
271	1225.96	120.31	End Shut-In (2)
272	2192.82	120.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	100%M	0.49

Gas Rates

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

EOG Resources Inc

Greathouse 31#1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

31 25 34 Finney KS

Job Ticket: 26447

DST#: 2

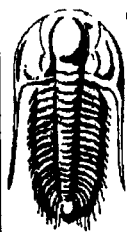
ATTN: Dale Passig

Test Start: 2007.03.04 @ 12:10:59

Tool Information

Drill Pipe:	Length: 4579.00 ft	Diameter: 3.80 inches	Volume: 64.23 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	40000.00 lb
Drill Collar:	Length: 374.00 ft	Diameter: 2.25 inches	Volume: 1.84 bbl	Weight to Pull Loose:	120000.0 lb
			Total Volume: 66.07 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	95000.00 lb
Depth to Top Packer:	5010.00 ft			Final	95000.00 lb
Depth to Bottom Packer:	5224.00 ft				
Interval between Packers:	214.00 ft				
Tool Length:	285.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4940.00		
Shut In Tool	5.00			4945.00		
Sampler	3.00			4948.00		
Hydraulic tool	5.00			4953.00		
Jars	5.00			4958.00		
Safety Joint	2.00			4960.00		
Packer - Shale	5.00			4965.00		
Packer - Shale	4.00		Inside	4969.00		
Stubb	1.00			4970.00		
Perforations	1.00			4971.00		
Recorder	0.00	6667	Inside	4971.00		
Change Over Sub	1.00			4972.00		
Drill Pipe	30.00			5002.00		
Change Over Sub	1.00			5003.00		
Perforations	3.00			5006.00		
Recorder	0.00	11057	Inside	5006.00		
Blank Off Sub	1.00			5007.00		
top of packer	2.00			5009.00		
Packer	1.00			5010.00	71.00	Bottom Of Top Packer
Stubb	1.00			5011.00		
Anchor	20.00			5031.00		
Change Over Sub	1.00			5032.00		
Drill Pipe	186.00			5218.00		
Change Over Sub	1.00			5219.00		
Recorder	0.00	11058	Outside	5219.00		
Bullnose	5.00			5224.00	214.00	Anchor Tool
Total Tool Length:	285.00					



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FLUID SUMMARY

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Greathouse 31#1

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Oklahoma City OK 73112

31 25 34 Finney KS

Job Ticket: 26447

DST#: 2

ATTN: Dale Passig

Test Start: 2007.03.04 @ 12:10:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	100%M	0.492

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 2000ml of mud 30 psi

Pressure vs. Time

