

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

11 34S 38W Steven KS

Rector 11-#1

Start Date: 2006.10.29 @ 20:20:00

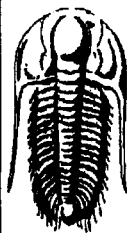
End Date: 2006.10.30 @ 09:07:45

Job Ticket #: 25630 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

Rector 11-#1

11 34S 38W Steven KS

Job Ticket: 25630

DST#: 1

Test Start: 2006.10.29 @ 20:20:00

GENERAL INFORMATION:

Formation: **Keys**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:13:15

Time Test Ended: 09:07:45

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **6211.00 ft (KB) To 6240.00 ft (KB) (TVD)**

Total Depth: 6240.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3193.00 ft (KB)

3182.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8017

Inside

Press@RunDepth: 61.65 psig @ 6214.00 ft (KB)

Start Date: 2006.10.29

End Date:

2006.10.30

Start Time: 20:20:01

End Time:

09:07:45

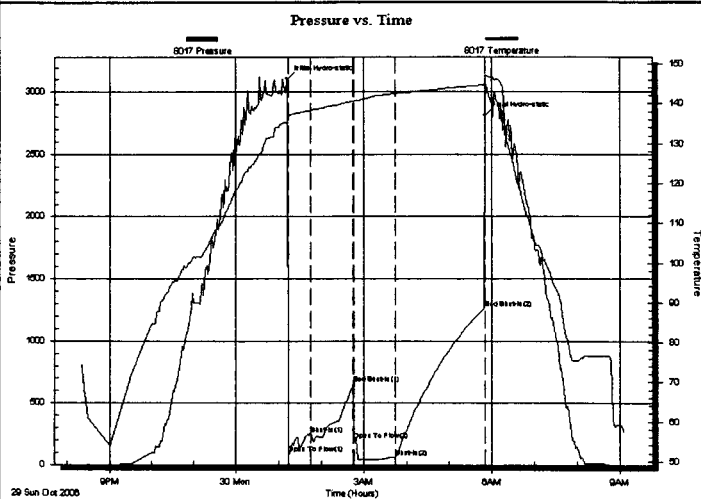
Capacity: 7000.00 psig

Last Calib.: 2006.10.30

Time On Btm: 2006.10.30 @ 01:12:30

Time Off Btm: 2006.10.30 @ 05:50:15

TEST COMMENT: IF Surface blow built to 4.5 " stalled then built to 8 "
ISI Surface return built to 11 1/2 " receded to 9 1/2 "
FF Immediate BOB
FSI No return



PRESSURE SUMMARY

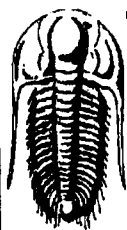
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3106.62	135.08	Initial Hydro-static
1	88.99	136.20	Open To Flow (1)
32	243.42	138.38	Shut-In(1)
93	654.61	140.68	End Shut-In(1)
94	199.44	140.66	Open To Flow (2)
153	61.65	142.51	Shut-In(2)
278	1264.40	144.75	End Shut-In(2)
278	2811.60	145.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%M	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

Rector 11-#1

11 34S 38W Steven KS

Job Ticket: 25630

DST#: 1

Test Start: 2006.10.29 @ 20:20:00

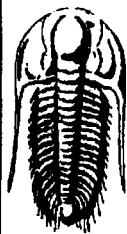
Tool Information

Drill Pipe:	Length: 5850.00 ft	Diameter: 3.80 inches	Volume: 82.06 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: 28000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 118000.0 lb
		Total Volume: 83.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	36.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	6211.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	60.00 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			6181.00	
Shut In Tool	5.00			6186.00	
Sampler	2.00			6188.00	
Hydraulic tool	5.00			6193.00	
Jars	5.00			6198.00	
Safety Joint	3.00			6201.00	
Change Over Sub	1.00			6202.00	
Packer - Shale	5.00			6207.00	
Packer	4.00			6211.00	31.00 Bottom Of Top Packer
Stubb	1.00			6212.00	
Perforations	2.00			6214.00	
Recorder	0.00	8017	Inside	6214.00	
Perforations	21.00			6235.00	
Recorder	0.00	13309	Inside	6235.00	
Bullnose	5.00			6240.00	29.00 Anchor Tool

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc

Rector 11-#1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

11 34S 38W Steven KS

Job Ticket: 25630

DST#: 1

ATTN: Dale Passig

Test Start: 2006.10.29 @ 20:20:00

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

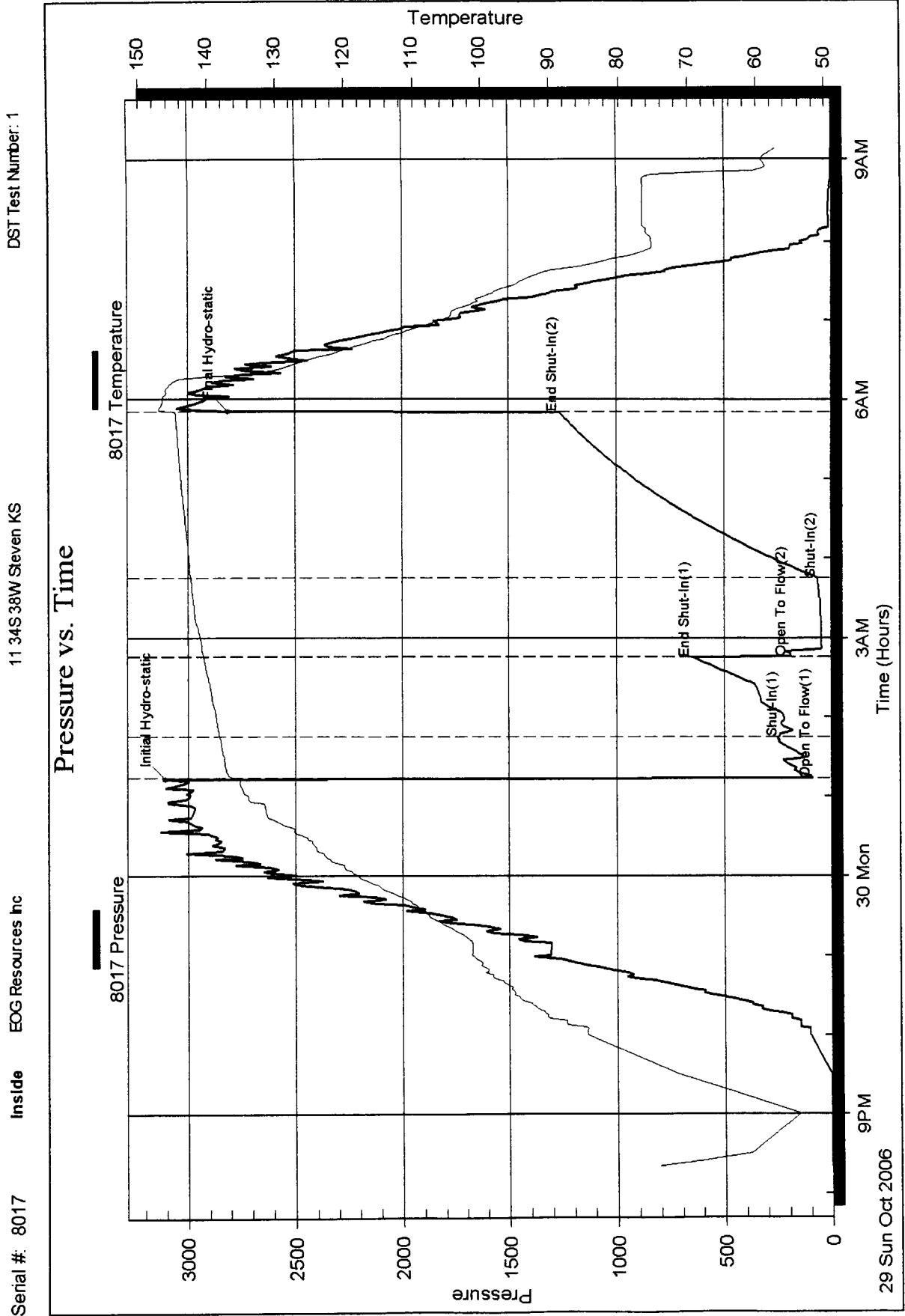
Num Gas Bombs: 0

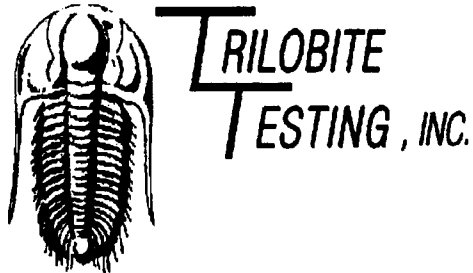
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler; 1000 chlorides, 2000 ML of mud, 0 cu. ft. of gas @ 10 psi.





DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

11 34S 38W Steven KS

Rector 11-#1

Start Date: 2006.10.31 @ 16:00:04

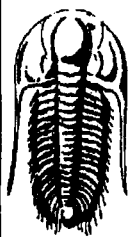
End Date: 2006.11.01 @ 11:18:04

Job Ticket #: 26314 DST #: 2

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

Rector 11-#1

11 34S 38W Steven KS

Job Ticket: 26314

DST#: 2

Test Start: 2006.10.31 @ 16:00:04

GENERAL INFORMATION:

Formation: **St. Louisie**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:55:34

Time Test Ended: 11:18:04

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **6500.00 ft (KB) To 6565.00 ft (KB) (TVD)**

Total Depth: 6565.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3193.00 ft (KB)

3182.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: 1682.08 psig @ 6502.00 ft (KB)

Start Date: 2006.10.31

End Date:

2006.11.01

Start Time: 16:00:05

End Time:

11:18:03

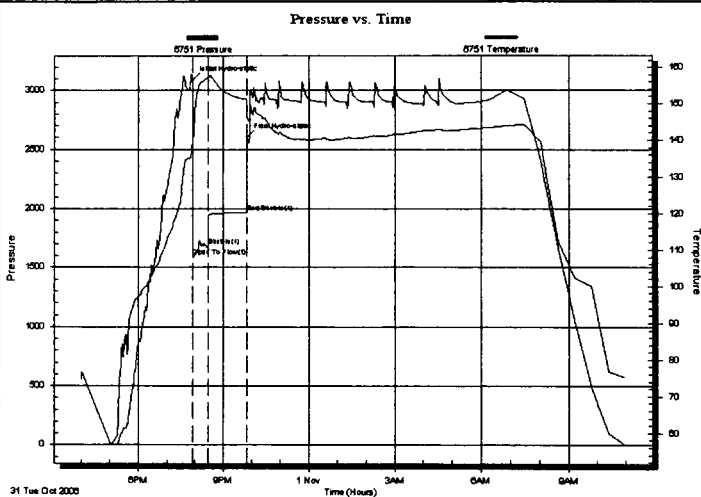
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2006.10.31 @ 19:54:34

Time Off Btm: 2006.10.31 @ 21:50:04

TEST COMMENT: IF Strong blow BOB ASAO GTS 1 min.
ISI Weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3089.22	138.12	Initial Hydro-static
1	1596.38	139.34	Open To Flow (1)
32	1682.08	156.78	Shut-In (1)
115	1969.71	151.20	End Shut-In (1)
116	2606.05	146.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	100% Condinsate	0.98
220.00	50% Gas 50% Condinsate	1.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	155.00	4870.05



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

Rector 11-#1

11 34S 38W Steven KS

Job Ticket: 26314

DST#: 2

Test Start: 2006.10.31 @ 16:00:04

Tool Information

Drill Pipe:	Length: 6134.00 ft	Diameter: 3.80 inches	Volume: 86.04 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:	25000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose:	95000.00 lb
		Total Volume:	87.81 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	6500.00 ft			Final	92000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	65.00 ft				
Tool Length:	96.00 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	2.00			6471.00	
Shut In Tool	5.00			6476.00	
Sampler	3.00			6479.00	
Hydraulic tool	5.00			6484.00	
Jars	5.00			6489.00	
Safety Joint	2.00			6491.00	
Packer	5.00			6496.00	31.00 Bottom Of Top Packer
Packer	4.00			6500.00	
Stubb	1.00			6501.00	
Perforations	1.00			6502.00	
Recorder	0.00	6751	Outside	6502.00	
Change Over Sub	1.00			6503.00	
Drill Pipe	31.00			6534.00	
Change Over Sub	1.00			6535.00	
Perforations	26.00			6561.00	
Recorder	0.00	11018	Outside	6561.00	
Bullnose	4.00			6565.00	65.00 Bottom Packers & Anchor
Total Tool Length:		96.00			



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TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc

Rector 11-#1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

11 34S 38W Steven KS

Job Ticket: 26314

DST#: 2

ATTN: Dale Passig

Test Start: 2006.10.31 @ 16:00:04

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:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	100% Condinsate	0.984
220.00	50%Gas 50%Condinsate	1.628

Total Length: 420.00 ft

Total Volume: 2.612 bbl

Num Fluid Samples: 0

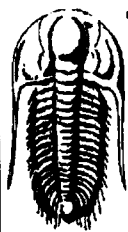
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

EOG Resources Inc

Rector 11-#1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

11 34S 38W Steven KS

Job Ticket: 26314

DST#: 2

ATTN: Dale Passig

Test Start: 2006.10.31 @ 16:00:04

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

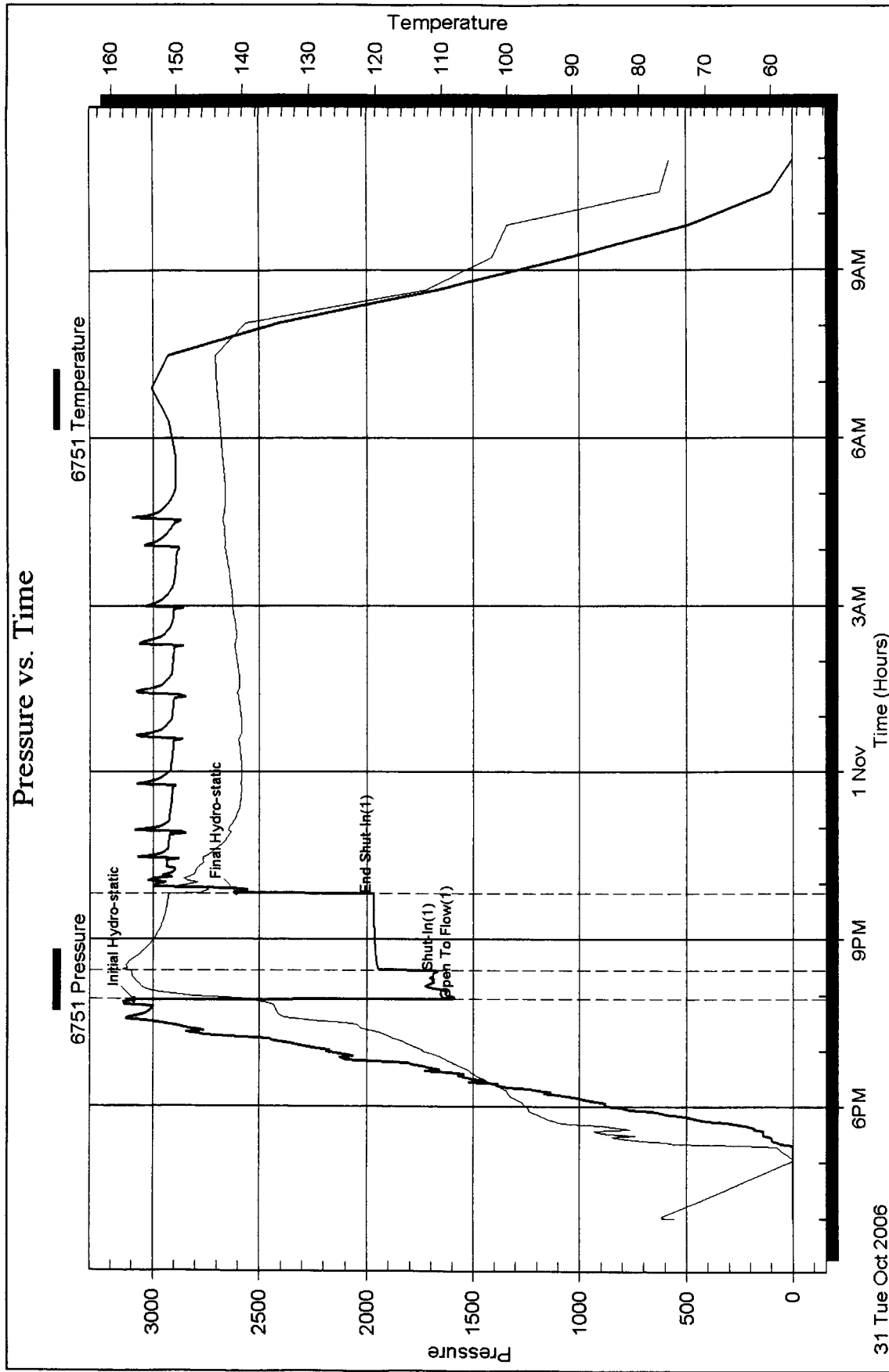
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	1.00	155.00	4870.05

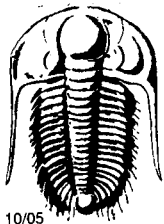
Serial #: 6751

Outside EOG Resources Inc

11 34S 38W Steven KS

DST Test Number: 2





TRILOBITE

TEST

P.O. Box

LOE	New Add	Replace	Repair	General
Well Name: <u>Rector 11-#1</u>	Permit Code: <u>605-773-2885</u>	Approval Initials: <u>DP</u>	Location: <u>OK</u>	TX <u>KS</u>
Date Passig: <u>50-216</u>				

25630
940 D57 / chuck
2 Harley

Test Ticket

Well Name & No. <u>Rector 11-#1</u>	Test No. <u>1</u>	Date <u>10-29-06</u>
Company <u>E.O.G. Resources, Inc.</u>	Zone Tested <u>Keys</u>	
Address <u>3817 NW Expressway Ste. 500 Oklahoma City, OK 73112</u>	Elevation <u>3193</u>	KB <u>3182</u> GL
Co. Rep / Geo. <u>Dale Passig</u>	Rig <u>Abercrombie #8</u>	
Location: Sec. <u>11</u> Twp. <u>34s</u> Rge. <u>38w</u>	Co. <u>Stevens</u>	State <u>KS</u>
Comment:	Release date / time:	

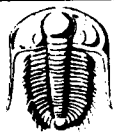
Interval Tested <u>6211 to 6240</u>	Initial Str Wt./Lbs. <u>90,000</u>	Unseated Str Wt/Lbs. <u>92,000</u>
Anchor Length <u>29</u>	Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>118,000</u>
Top Packer Depth <u>6207</u>	Tool Weight <u>2,000</u>	
Bottom Packer Depth <u>6211</u>	Hole Size 7 7/8" <u>X</u>	Rubber Size 6 3/4" <u>X</u>
Total Depth <u>6240</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>366</u>
Mud Wt. <u>8.9</u> LCM <u>8</u> Vis. <u>48</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>5,850</u>
Blow Description <u>IFI: Surface blow built to 4 1/2", stalled then built to 8".</u>		
<u>ISI: Surface return built to 11 1/2", then receded to 9 1/2".</u>		
<u>FF: Immediate B.O.B.</u>		
<u>FSI: No return.</u>		

Recovery - Total Feet <u>30</u>	GIP <u>—</u>	Ft. in DC <u>30</u>	Ft. in DP <u>—</u>
Rec. <u>30</u> Feet of <u>Mud</u>	%gas	%oil	%water <u>100</u> %mud
Rec. Feet of	%gas	%oil	%water %mud
Rec. Feet of	%gas	%oil	%water %mud
Rec. Feet of	%gas	%oil	%water %mud
Rec. Feet of	%gas	%oil	%water %mud
BHT <u>145</u> °F Gravity <u>—</u>	*API D @ <u>—</u>	*F Corrected Gravity <u>—</u>	*API
RW <u>—</u> @ <u>—</u> °F	Chlorides <u>—</u> ppm	Recovery <u>—</u>	Chlorides <u>1,000</u> ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>3107</u>	PSI	Recorder No.	<u>8017</u>	Test X	<u>1,400.00</u>
(B) First Initial Flow Pressure	<u>89</u>	PSI	(depth)	<u>6214</u>	Jars X	<u>250.00</u>
(C) First Final Flow Pressure	<u>243</u>	PSI	Recorder No.	<u>13309</u>	Safety Jt. X	<u>75.00</u>
(D) Initial Shut-In Pressure	<u>655</u>	PSI	(depth)	<u>6235</u>	Circ Sub X	<u>250.00</u>
(E) Second Initial Flow Pressure	<u>199</u>	PSI	Recorder No.		Sampler X	<u>250.00</u>
(F) Second Final Flow Pressure	<u>62</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>1264</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>3058</u>	PSI	Initial Shut-In	<u>60</u>	Shale Packer X	<u>200.00</u>
			Final Flow	<u>60</u>	Ruined Packer	<u>2 450.00</u>
			Final Shut-In	<u>120</u>	Mileage X	<u>21RT 26.25</u>
			T-On Location	<u>18:45 pm</u>	Sub Total: X	<u>3 1/4 325.00</u>
			T-Started	<u>20:20 pm</u>	Std. By	<u>2476.25</u>
			T-Open	<u>1:14 am</u>	Acc. Chg: X	<u>150.00</u>
			T-Pulled	<u>5:51 am</u>	Other:	
			T-Out	<u>9:09 am</u>	Total:	<u>3,126.25</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Dale Passig
Our Representative Chuck Smith



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 25630 Date 10-29-06
Company Name E.O.G. Resources, Inc.
Lease Rector 11-[#]1 Test No. DST[#]1
County Stevens, KS Sec. 11 Twp. 34s Rng. 38w

SAMPLER RECOVERY

Gas — FT³ ~~ML~~ Chlorides 1,000 ppm.
Oil — ML Resistivity — ohms @ — F
Mud 2,000 ML Viscosity 48
Water — ML Mud Weight 8.9
Other — ML Filtrate 8.0
Pressure 10 PSI ~~ML~~ Other LCM 8
Total 2,000 ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity 6.7 ohms @ 57 F
Chlorides 1,000 ppm.
Gravity — corrected @ 60F

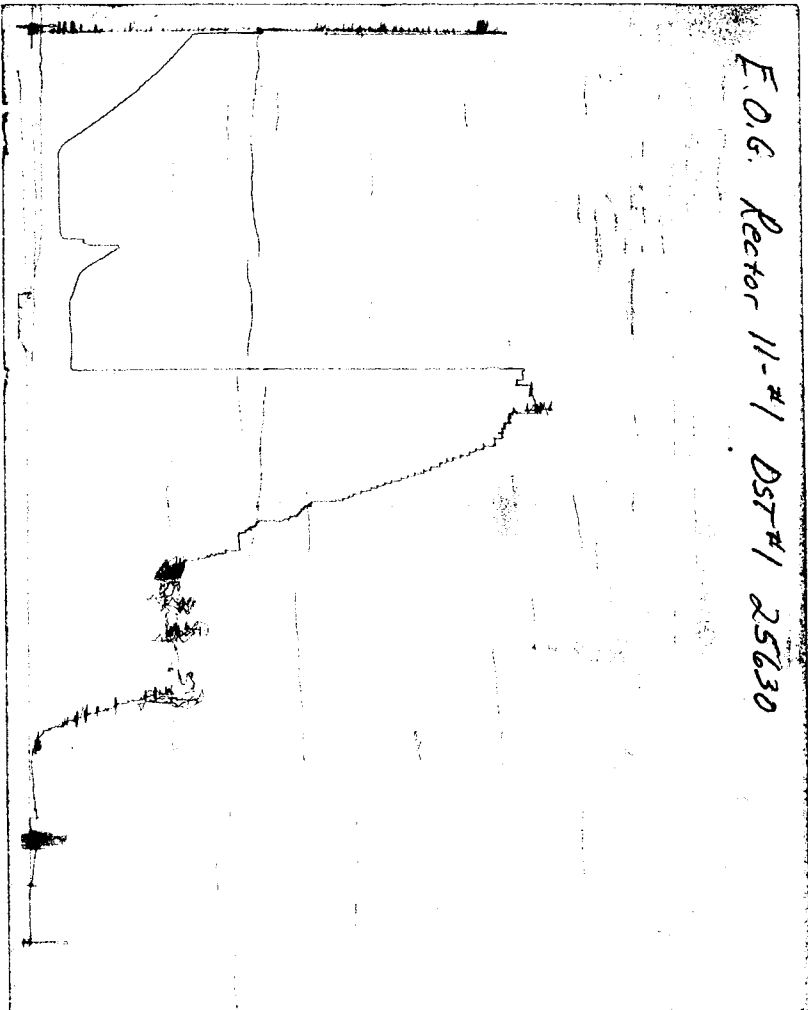
PIPE RECOVERY

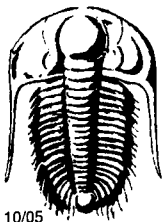
TOP
Resistivity 6.7 ohms @ 57 F
Chlorides 1,000 ppm.
MIDDLE
Resistivity 6.7 ohms @ 57 F
Chlorides 1,000 ppm.
BOTTOM
Resistivity 6.7 ohms @ 57 F
Chlorides 1,000 ppm.

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

E.O.G. Rector 11-#1 DST #1 25630





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26314

Test Ticket

Well Name & No. Rector 11 #1 Test No. #2 Date 10/31/06
 Company EOG Resources Inc Zone Tested St. Louis
 Address 3817 NW Expressway Southwest OK city OK 73112 Elevation 3182 KB 3194 GL
 Co. Rep / Geo. Dale Passing Rig Abercrombie #8
 Location: Sec. 11 Twp. 34 Rge. 38 Co. Stevens State KS
 Comment: Recovery was all condensate. Release date / time: _____

Interval Tested ~~6500-6565~~ 6500 - 6565 Initial Str Wt./Lbs. 90K Unseated Str Wt./Lbs. 92K
 Anchor Length 65 Wt. Set Lbs. 25K Wt. Pulled Loose/Lbs. 95K
 Top Packer Depth 6495 Tool Weight 2000K
 Bottom Packer Depth 6500 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 6565 Wt. Pipe Run 0 Drill Collar Run 360
 Mud Wt. 9.0 LCM 2 Vis. 51 WL 7.8 Drill Pipe Size 4.5 x 11 Ft. Run 6134
 Blow Description IF - Strong blow, BOB, ASAO, GTS 1 min.
ISI - Weak blow back -
Pulled tool and weired tell. "Daylights"

Recovery - Total Feet 420 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 200 Feet of _____ %gas 100 %oil _____ %water _____ %mud _____
 Rec. 220 Feet of GC candidate 50 %gas 50 %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity to light °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>3136</u>	PSI	<u>6571</u>	<u>1400</u>
(B) First Initial Flow Pressure	<u>1596</u>	PSI	(depth) <u>6500</u>	Jars <u>250°</u>
(C) First Final Flow Pressure	<u>1682</u>	PSI	Recorder No. <u>11018</u>	Safety Jt. <u>75°</u>
(D) Initial Shut-In Pressure	<u>1970</u>	PSI	(depth) _____	Circ Sub _____
(E) Second Initial Flow Pressure	<u>1001</u>	PSI	Recorder No. _____	Sampler <u>250°</u>
(F) Second Final Flow Pressure	<u>1001</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1001</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2995</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer <u>200°</u>

LOE ☐ New Add ☐ Replace ☐ Repair ☐ General ☐ _____
 Well Name: Rector 11 #1
 Date Passig 50-216 806-773-2868 Approval Initials: DP Location ☒ OK ☐ TX ☐ KS

APE ☒ BCP ☐ ACP ☐ FAC ☐ Other ☐ _____
 Approved by: Dale Passing

Our Representative Harley Dr

Recorder No. 6571 Test 1400
 (depth) 6500 Jars 250°
 Recorder No. 11018 Safety Jt. 75°
 (depth) _____ Circ Sub _____
 Recorder No. _____ Sampler 250°
 (depth) _____ Straddle _____
 Initial Opening 30 Ext. Packer _____
 Initial Shut-In 60 Shale Packer 200°
 Final Flow Pulled tool. Ruined Packer 250°
 Final Shut-In _____ Mileage 21 x 2 52.5°
 In Location 230 PM Sub Total: _____
 T-Started 3:00 PM Std. By July 500
 T-Open 745 PM Acc. Chg 2977.5°
 T-Pulled 9:30 PM Other: 150.0
 T-Out 11:00 AM Total: \$3127.50

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

