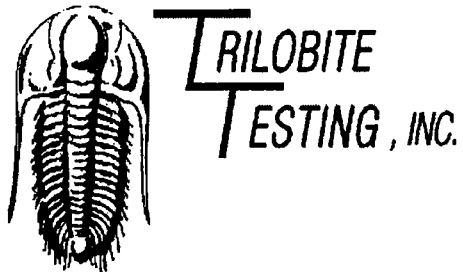


15-189-22533



DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb N.

³⁴
11 30 38 Stevens KS

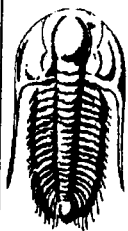
Verna 11 #1

Start Date: 2006.06.20 @ 13:30:06

End Date: 2006.06.21 @ 02:43:06

Job Ticket #: 24464 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: Herb N.

Verna 11 #1

11 39 38 Stevens KS

Job Ticket: 24464

DST#: 1

Test Start: 2006.06.20 @ 13:30:06

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:18:06

Time Test Ended: 02:43:06

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: 6209.00 ft (KB) To 6270.00 ft (KB) (TVD)

Total Depth: 6270.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 3207.00 ft (KB)

3139.00 ft (CF)

KB to GR/CF: 68.00 ft

Serial #: 6751 Inside

Press@RunDepth: 1211.19 psig @ 6211.00 ft (KB)

Start Date: 2006.06.20

End Date:

2006.06.21

Start Time:

13:30:07

End Time:

02:43:06

Capacity: 7000.00 psig

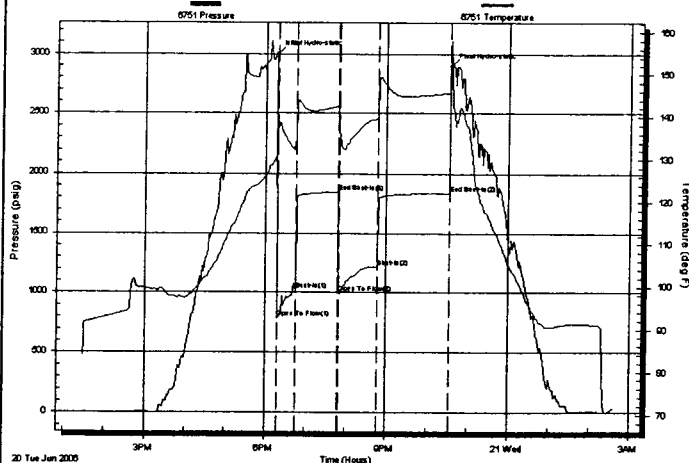
Last Calib.: 1899.12.30

Time On Btm: 2006.06.20 @ 18:17:06

Time Off Btm: 2006.06.20 @ 22:34:51

TEST COMMENT: IF Strong blow BOB ASAO GTS 2 min
ISI No blow back
FF Strong blow GTS BOB ASAO
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2997.33	130.88	Initial Hydro-static
1	788.08	136.48	Open To Flow (1)
29	1017.10	134.44	Shut-In (1)
92	1840.84	142.52	End Shut-In (1)
94	992.56	136.50	Open To Flow (2)
150	1211.19	139.56	Shut-In (2)
258	1837.14	145.58	End Shut-In (2)
258	2895.54	146.42	Final Hydro-static

Recovery

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	120.00	3863.84
Last Gas Rate	1.00	205.00	6307.49
Max. Gas Rate	1.00	205.00	6307.49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb N.

Verna 11 #1

³⁴
11 39 38 Stevens KS

Job Ticket: 24464

DST#: 1

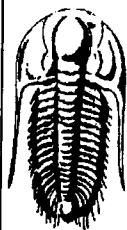
Test Start: 2006.06.20 @ 13:30:06

Tool Information

Drill Pipe:	Length: 5835.00 ft	Diameter: 3.80 inches	Volume: 81.85 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose:	120000.0 lb
		Total Volume:	83.66 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	108000.0 lb
Depth to Top Packer:	6209.00 ft			Final	108000.0 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	92.00 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			6180.00	
Shut In Tool	5.00			6185.00	
Sampler	3.00			6188.00	
Hydraulic tool	5.00			6193.00	
Jars	5.00			6198.00	
Safety Joint	2.00			6200.00	
Packer	5.00			6205.00	31.00 Bottom Of Top Packer
Packer	4.00			6209.00	
Stubb	1.00			6210.00	
Perforations	1.00			6211.00	
Recorder	0.00	6751	Inside	6211.00	
Change Over Sub	1.00			6212.00	
Drill Pipe	31.00			6243.00	
Change Over Sub	1.00			6244.00	
Perforations	22.00			6266.00	
Recorder	0.00	11018	Inside	6266.00	
Bullnose	4.00			6270.00	61.00 Bottom Packers & Anchor
Total Tool Length:		92.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc

Verna 11 #1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

11 39 38 Stevens KS

Job Ticket: 24464

DST#: 1

ATTN: Herb N.

Test Start: 2006.06.20 @ 13:30:06

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 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
100.00	100%Cond	0.492

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 1

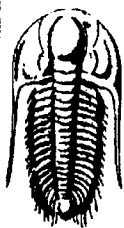
Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Sampler Data- 70 CFM @ 1800 psi.



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

EOG Resources Inc

Verna 11 #1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

11 39 38 Stevens KS

Job Ticket: 24464

DST#: 1

ATTN: Herb N.

Test Start: 2006.06.20 @ 13:30:06

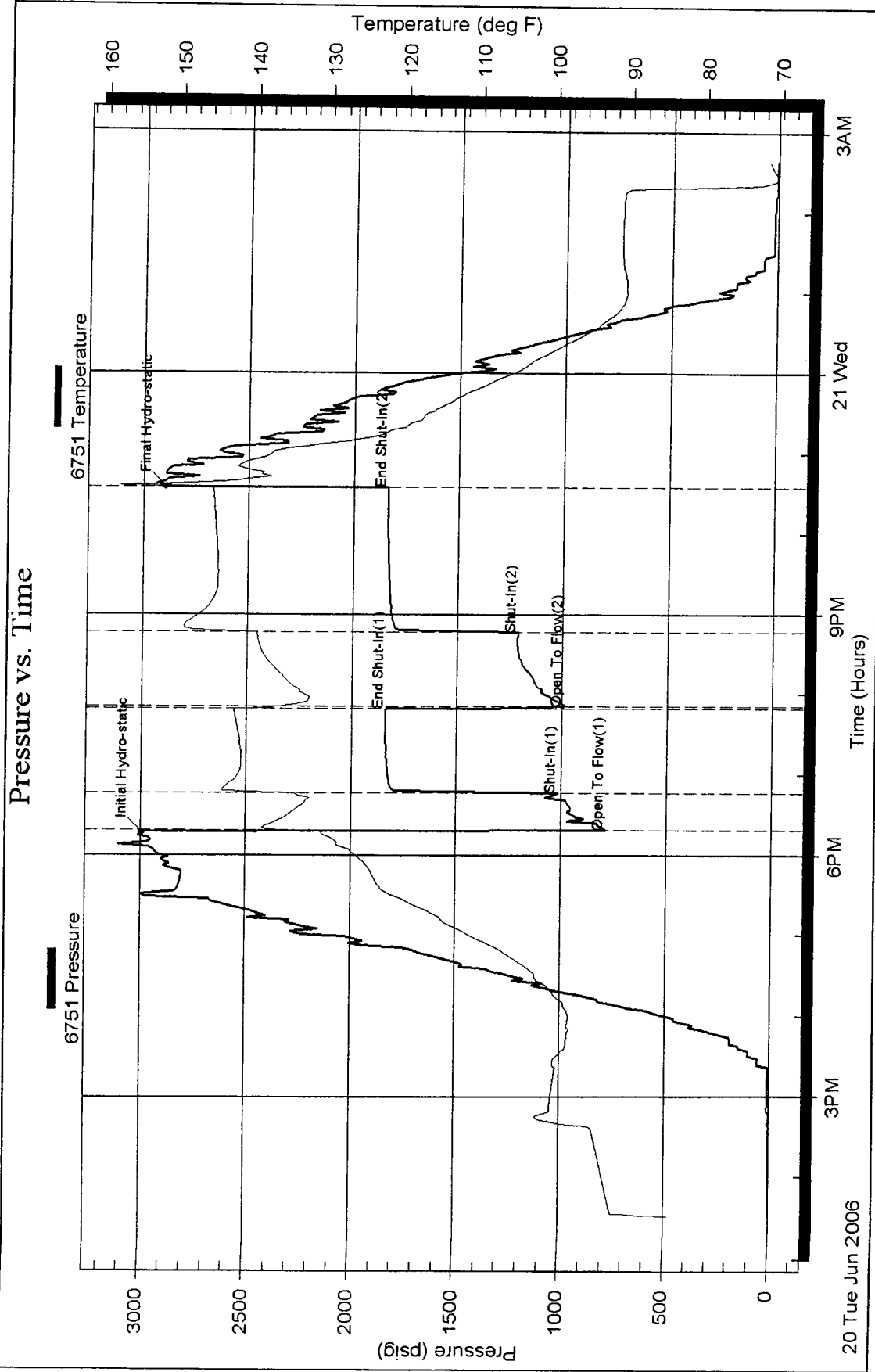
Gas Rates Information

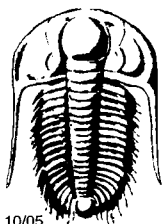
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	10	1.00	120.00	3863.84
1	10	1.00	120.00	3863.84
1	20	1.00	150.00	4726.31
1	30	1.00	160.00	5013.79
2	10	1.00	160.00	5013.79
2	20	1.00	170.00	5301.28
2	30	1.00	200.00	6163.75
2	40	1.00	205.00	6307.49
2	50	1.00	205.00	6307.49

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24464

10/05

Test Ticket

Well Name & No. Verna 11 #1 Test No. 1 Date 6-20-06
 Company IOG Resources Inc. Zone Tested _____
 Address 3817 NW Expressway Suite 300 OK City Elevation 3207 KB 3139 GL
 Co. Rep / Geo. Herb A. Rig Aber. #2
 Location: Sec. 11 Twp. 39 Rge. 38 Co. Stevens State KS
 Comment: _____ Release date / time: _____

Interval Tested 6209 - 6270 Initial Str Wt./Lbs. 108 K Unseated Str Wt./Lbs. 108 K
 Anchor Length 61 Wt. Set Lbs. 25 K Wt. Pulled Loose/Lbs. 120 K
 Top Packer Depth 6204 Tool Weight 2000
 Bottom Packer Depth 6209 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 6270 Wt. Pipe Run 0 Drill Collar Run 368
 Mud Wt. 9.0 LCM 12 Vis. 45 WL 7.6 Drill Pipe Size 4.5 x H Ft. Run 5835
 Blow Description IF - BOB ASAO, GTS 2 min.
ISI - No blow back.
EF - BOB GTS, ASAO
ESI - No blow back

Recovery - Total Feet 100 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 100 Feet of 1008 condensate %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2984</u>	<u>2984</u>	PSI	Recorder No. <u>6751</u>	Test <u>1300°</u>
(B) First Initial Flow Pressure	<u>788</u>	<u>788</u>	PSI	(depth) <u>6211</u>	Jars <u>250°</u>
(C) First Final Flow Pressure	<u>1017</u>	<u>1017</u>	PSI	Recorder No. <u>11018</u>	Safety Jt. <u>75°</u>
(D) Initial Shut-In Pressure	<u>1841</u>	<u>1841</u>	PSI	(depth) <u>6270</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>993</u>	<u>993</u>	PSI	Recorder No. _____	Sampler <u>250°</u>
(F) Second Final Flow Pressure	<u>1211</u>	<u>1211</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1837</u>	<u>1837</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(H) Final Hydrostatic Mud	<u>2942</u>	<u>2942</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer <u>200°</u>
				Final Flow <u>60</u>	Ruined Packer <u>200°</u> <u>250</u>
				Final Shut-In <u>120</u>	Mileage <u>15 x 2 x 1.25 = 37.50</u>
				T-On Location <u>1000 AM</u>	Sub Total: <u>2362.50</u>
				T-Started <u>130 AM</u>	Std. By <u>5 1/2</u>
				T-Open <u>445 PM</u>	Acc. Chg: <u>150°</u>
				T-Pulled <u>1015 PM</u>	Other: _____
				T-Out <u>230</u>	Total: <u>2825</u>

☒ BCP ☐ ACP ☐ FAC ☐ LOE ☐ Oth AFE

Well Name: Verna 11-1

20 - 305 230 - 411
 Herb Nutter
 Cell # 405-623-7749 Approval: HN

IF DAMAGED OF
 HE ONE FOR
 OR SUSTAINED,
 IS EQUIPMENT,
 E RESULTS OF
 SHALL BE PAID
 IS MADE.

Approved By Herb Nutter

Our Representative Harley Davidson



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 24464 Date 6-26-06
Company Name EOG Resources Inc.
Lease Verna II #1 Test No. 24464
County Stevens Sec. 11 Twp. 39 Rng. 38

SAMPLER RECOVERY

Gas 70 CFM ML Chlorides 1000 ppm.
Oil 0 ML Resistivity _____ ohms @ _____ F
Mud 0 ML Viscosity 45
Water 0 ML Mud Weight 9.0
Other _____ ML Filtrate 7.6
Pressure 1800 ML Other 12 LCM
Total _____ ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @60F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.



GAS VOLUME REPORT

Verna

11 #1

/

OPERATOR

WELL NAME AND NO.

DST NO.

Remarks:

CHART PAGE

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

