

CONFIDENTIAL

15-119-21038

23-33-30W
ORIGINAL
**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources

Medlynn 23-1

20 N. Broadway #800
Oklahoma City OK

23-33s-30w Meade KS

Job Ticket: 12141

DST#: 1

ATTN: Cole Hinds

Test Start: 2000.12.14 @ 04:44:00

Tool Information

Drill Pipe:	Length: 3881.00 ft	Diameter: 3.80 inches	Volume: 54.44 bbl	Tool Weight: 2500.00 lb
Drill Collar:	Length: 259.00 ft	Diameter: 2.25 inches	Volume: 1.27 bbl	Weight set on Packer: 35000.00 lb
Heavy Wt. Pipe:	Length: 438.00 ft	Diameter: 2.70 inches	Volume: 3.10 bbl	Weight to Pull Loose: 100000.0 lb
Drill Pipe Above KB:	30.00 ft			Tool Chased ft
Depth to Top Packer:	4573.00 ft			String Weight: Initial 78000.00 lb
Depth to Bottom Packer:	ft			Final 84000.00 lb
Interval between Packers:	ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

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Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4549.00	
S.I. Tool	5.00			4554.00	
Sampler	3.00			4557.00	
HMV	5.00			4562.00	
Jars	5.00			4567.00	
Safety Joint	2.00			4569.00	
Packer	4.00			4573.00	25.00 Bottom Of Top Packer
Packer	6.00			4579.00	
Stubb	1.00			4580.00	
Perforations	1.00			4581.00	
Recorder	0.00	3026	Inside	4581.00	
Perforations	17.00			4598.00	
Recorder	0.00	13277	Outside	4598.00	
Bullnose	3.00			4601.00	28.00 Bottom Packers & Anchor

Total Tool Length: 53.00
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 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		
EOG Resources 20 N. Broadway #800 Oklahoma City OK ATTN: Cole Hinds	Medlynn 23-1 23-33s-30w Meade KS Job Ticket: 12141 DST#: 1 Test Start: 2000.12.14 @ 04:44:00		

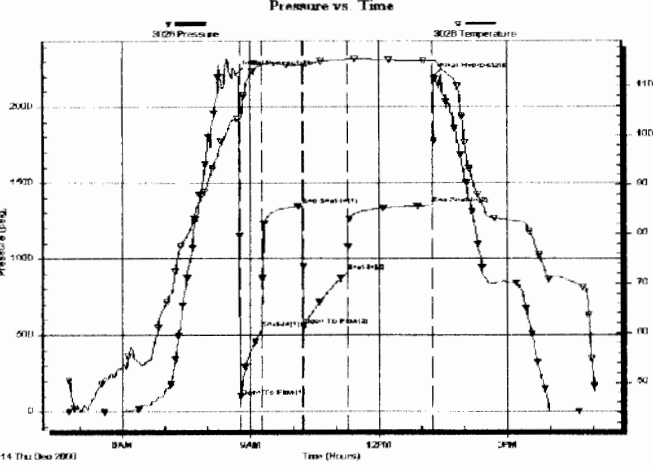
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GENERAL INFORMATION:			
Formation: Lansing Deviated: No Whipstock: ft (KB) Time Tool Opened: 08:44:59 Time Test Ended: 07:04:00 Interval: 4579.00 ft (KB) To 4600.00 ft (KB) (TVD) Total Depth: 4600.00 ft (KB) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Paul Simpson Unit No: 17 Reference Elevations: 2693.00 ft (KB) 2688.00 ft (CF) KB to GR/CF: 5.00 ft		

Serial #: 3026 Inside Press@RunDepth: 907.75 psig @ 4581.00 ft (KB) Start Date: 2000.12.14 End Date: 2000.12.14 Start Time: 04:44:00 End Time: 17:04:59	Capacity: 7000.00 psig Last Calib.: 2000.07.03 Time On Btrm: 2000.12.14 @ 08:39:59 Time Off Btrm: 2000.12.14 @ 13:17:29
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TEST COMMENT: Sampler Data 200# PSI 4000 ml water total cap. 4000 ml	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th style="width: 15%;">Time (Min.)</th> <th style="width: 15%;">Pressure (psig)</th> <th style="width: 15%;">Temp (deg F)</th> <th style="width: 55%;">Annotation</th> </tr> <tr> <td>236</td> <td>2215.65</td> <td>103.37</td> <td>Initial Hydro-static</td> </tr> <tr> <td>241</td> <td>93.88</td> <td>103.46</td> <td>Open To Flow (1)</td> </tr> <tr> <td>272</td> <td>535.10</td> <td>114.37</td> <td>Shut-In(1)</td> </tr> <tr> <td>330</td> <td>1346.67</td> <td>114.24</td> <td>End Shut-In(1)</td> </tr> <tr> <td>330</td> <td>553.55</td> <td>114.23</td> <td>Open To Flow (2)</td> </tr> <tr> <td>392</td> <td>907.75</td> <td>115.54</td> <td>Shut-In(2)</td> </tr> <tr> <td>513</td> <td>1348.13</td> <td>115.24</td> <td>End Shut-In(2)</td> </tr> <tr> <td>514</td> <td>2201.31</td> <td>115.27</td> <td>Final Hydro-static</td> </tr> </table>	PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	236	2215.65	103.37	Initial Hydro-static	241	93.88	103.46	Open To Flow (1)	272	535.10	114.37	Shut-In(1)	330	1346.67	114.24	End Shut-In(1)	330	553.55	114.23	Open To Flow (2)	392	907.75	115.54	Shut-In(2)	513	1348.13	115.24	End Shut-In(2)	514	2201.31	115.27	Final Hydro-static
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Recovery		
Length (ft)	Description	Volume (bbl)
1740.00	salt water	19.01

Gas Rates			
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)	

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Serial #: 3026

Inside

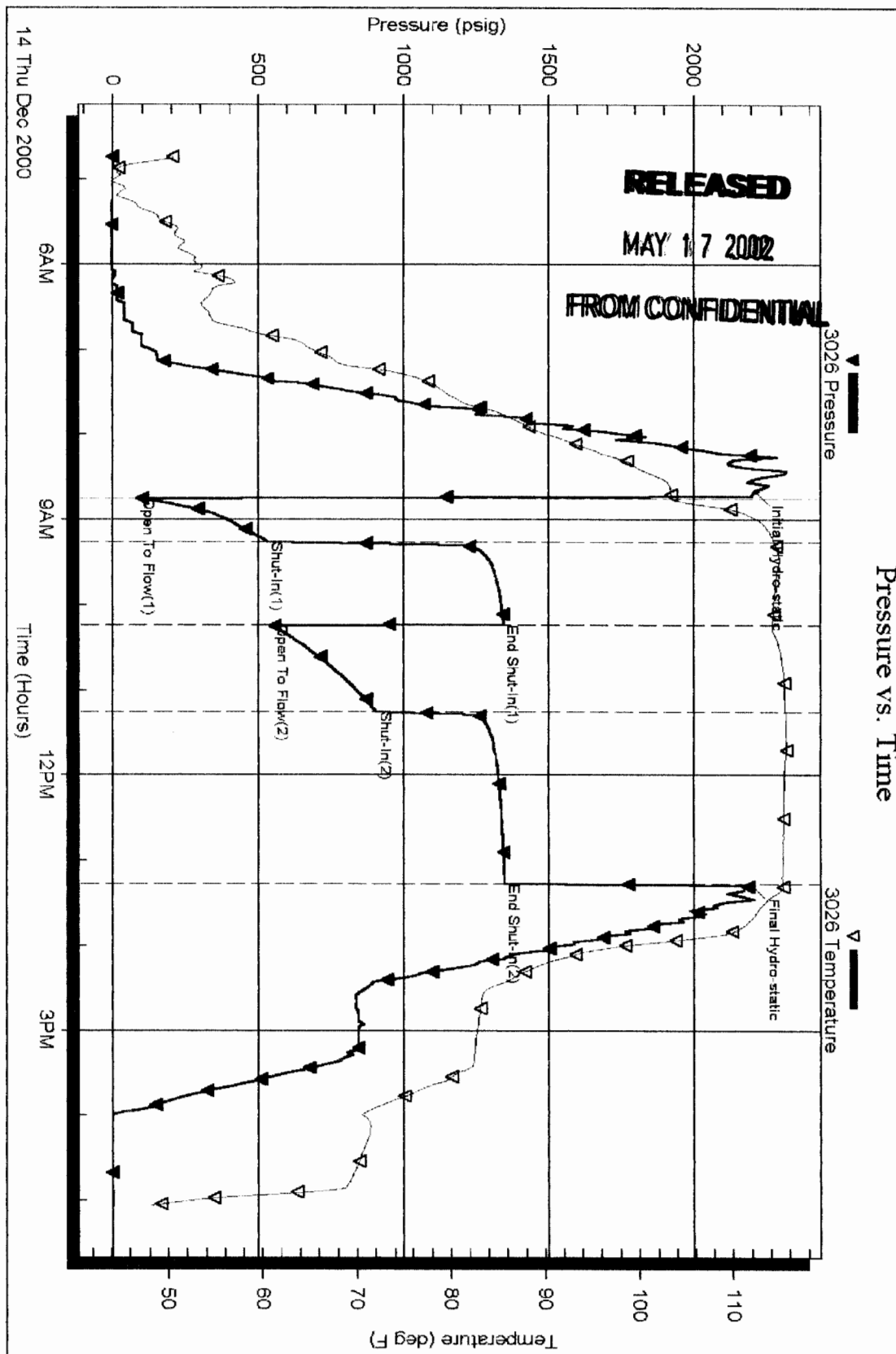
EOG Resources

23-33s-30w Meade KS

Triobite Testing, Inc

Ref. No: 12141

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TRILOBITE TESTING L.L.C.

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P.O. Box 362 • Hays, Kansas 67601

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RELEASED 13141

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Test Ticket

MAY 17 2002

Well Name & No. <u>Medlyn 23-1</u>	Test No. <u>1</u>	Date <u>12-14-00</u>
Company <u>EOG Resources Inc</u>	Zone Tested <u>FROM CONFIDENTIAL</u>	
Address <u>20 N Broadway #800 Oklahoma City OK</u>	Elevation <u>2693</u> KB <u>2688</u> GL	
Co. Rep / Geo. <u>Wenne Litherland</u>	Cont. <u>Albercumbe #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>23</u> Twp. <u>33S</u> Rge. <u>30W</u> Co. <u>Mede</u> State <u>Ks</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>4579-4600</u>	Initial Str Wt./Lbs. <u>78,000</u>	Unseated Str Wt./Lbs. <u>84,000</u>
Anchor Length <u>21</u>	Wt. Set Lbs. <u>35,000</u>	Wt. Pulled Loose/Lbs. <u>100,000</u>
Top Packer Depth <u>4673</u>	Tool Weight <u>2500</u>	
Bottom Packer Depth <u>4679</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>4600</u>	Wt. Pipe Run <u>438</u>	Drill Collar Run <u>259</u>
Mud Wt. <u>9.1</u> LCM <u> </u> Vis. <u>50</u> WL <u>10</u>	Drill Pipe Size <u>4 1/2"</u>	Ft. Run <u>3881</u>
Blow Description <u>1" blow building to bottom of bucket in 4 minutes then decreased to 6"</u>		
<u>Surface blow building to bottom of bucket in 7 minutes</u>		

Recovery — Total Feet <u>1740</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u> </u>
Rec. <u>1740</u> Feet Of <u>salt water</u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u>(dropped bet)</u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
BHT <u> </u> °F Gravity <u> </u> °API D@ <u> </u> °F Corrected Gravity <u> </u> °API			
RW <u>16</u> @ <u>42</u> °F Chlorides <u>82,000</u> ppm Recovery Chlorides <u>6100</u> ppm System			

(A) Initial Hydrostatic Mud <u> </u>	PSI Recorder No. <u>3027</u>	T-On Location <u>0300</u>
(B) First Initial Flow Pressure <u> </u>	PSI (depth) <u>4581</u>	T-Started <u>0444</u>
(C) First Final Flow Pressure <u> </u>	PSI Recorder No. <u>13277</u>	T-Open <u>0842</u>
(D) Initial Shut-In Pressure <u> </u>	PSI (depth) <u>4597</u>	T-Pulled <u>1312</u>
(E) Second Initial Flow Pressure <u> </u>	PSI Recorder No. <u> </u>	T-Out <u>1700</u>
(F) Second Final Flow Pressure <u> </u>	PSI (depth) <u> </u>	T-Off Location <u>1745</u>
(G) Final Shut-in Pressure <u> </u>	PSI Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud <u> </u>	PSI Initial Shut-in <u>60</u>	Jars <u>X</u> <u>200</u>
	Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>
	Final Shut-in <u>120</u>	Straddle <u> </u>
		Circ. Sub <u>X</u> <u>35</u>
		Sampler <u>X</u> <u>200</u>
		Extra Packer <u>Shale</u> <u>150</u>
		Elec. Rec. <u>X</u> <u>150</u>
		Mileage <u>57</u> miles
		Other <u>3 hrs sltly 90</u>
		TOTAL PRICE \$ <u>1432</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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 W. LitherlandOur Representative P. S. Simpson