

WELL NAME

Ehrlich #1-31

COMPANY

CLX Energy Inc.

LOCATION

31-34s-17w

Comanche co Kansas

DATE

10/3/00

TRILOBITE TESTING L.L.C.

OPERATOR : CLX Enregy Inc.

DATE 09-29-000

WELL NAME: Ehrlich #1-31

KB 1885.00 ft TICKET NO: 13201 DST #1

LOCATION : 31-34s-17w Comanche co KS

GR 1874.00 ft FORMATION: Pawnee

INTERVAL : 5224.00 To 5243.00 ft

TD 5243.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0544 to 0614 hr
SI 30 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0614 to 0644 hr
SF 30 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0644 to 0714 hr
FS 60 Depth(ft)	5240.0	5240.0	5230.0	0.0	0.0	FS Fr. 0714 to 0814 hr

	Field	1	2	3	4	
A. Init Hydro	2536.0	2559.0	2546.0	0.0	0.0	T STARTED 0239 hr
B. First Flow	25.0	31.0	38.0	0.0	0.0	T ON BOTM 0540 hr
B1. Final Flow	37.0	35.0	52.0	0.0	0.0	T OPEN 0544 hr
C. In Shut-in	1640.0	1626.0	1658.0	0.0	0.0	T PULLED 0817 hr
D. Init Flow	48.0	56.0	56.0	0.0	0.0	T OUT 1048 hr
E. Final Flow	80.0	68.0	84.0	0.0	0.0	
F. Fl Shut-in	1769.0	1756.0	1781.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2481.0	2545.0	2537.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 64000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5223.00 ft

RECOVERY

Tot Fluid 140.00 ft of 0.00 ft in DC and 140.00 ft in DP
 3410.00 ft of Gas in pipe.
 50.00 ft of Gas cut mud
 0.00 ft of 10% gas 90% mud
 90.00 ft of Muddy water
 0.00 ft of 90% wter 10% mud
 0.00 ft of
 0.00 ft of Rw .07 ohms @ 81 degrees F.
 0.00 ft of EST.FT. of PAY-----4
 SALINITY 97000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 2 1/2 minutes.
 Initial Shut-In:
 No blow.

Final Flow:
 Strong blow. Bottom of bucket in 8 seconds.

Final Shut-In:
 Weak blow. 1/4 - 1/2"

SAMPLES: none
 SENT TO:Caraway/Liberal

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	46.00 S/L
W.L.	9.60 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Wes Hansen
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 4 #/bl

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Ehrlich #1-31

LOCATION : 31-34s-17w Comanche co KS

TICKET No. 13201 D.S.T. No. 1 DATE 09-29-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
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D.P. ANCHOR STND.	Stands	Single	Total
1	1	1	1
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3	1	1	1
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96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

TOTAL ASSEMBLY 46

D.C. ABOVE TOOLS.Stands	Single	Total
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D.P. ABOVE TOOLS.Stands84	Single	Total 5223
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5269

TOTAL DEPTH 5243

TOTAL DRILL PIPE ABOVE K.B. 26

REMARKS:

Comments :

FLUID SAMPLER DATA (not run)

GAS-----

OIL-----ML.

MUD-----ML.

WATER-----ML.

OTHER-----

PRESSURE-----PSI

Rw ----- ohms @ deg. F.

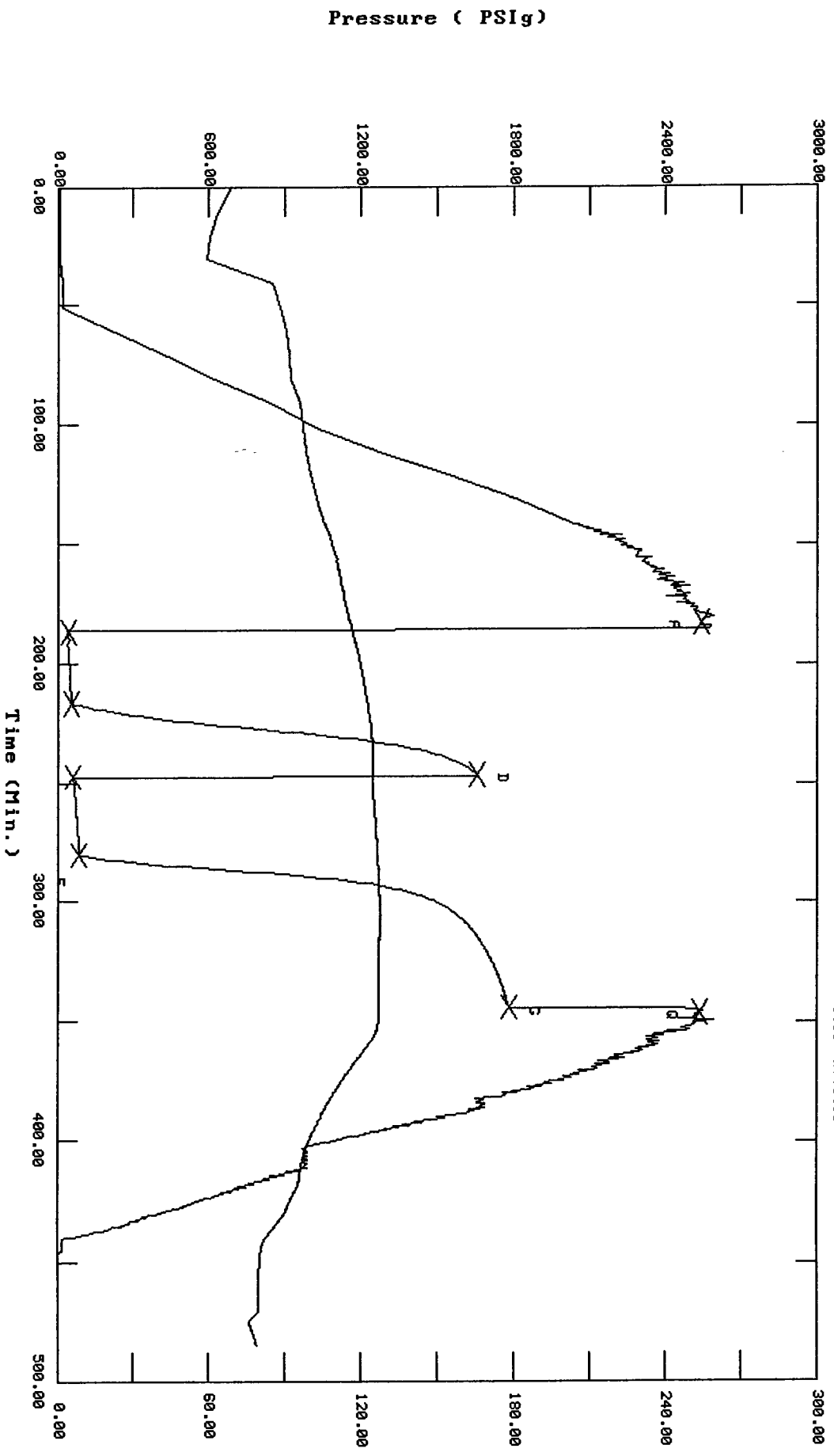
CHLORIDES-----ppm.

GRAVITY----- n/a deg.API

[illegible]

TEST HISTORY

13201 DST#1 EHRlich #1-31 CLX ENERGY, INC.

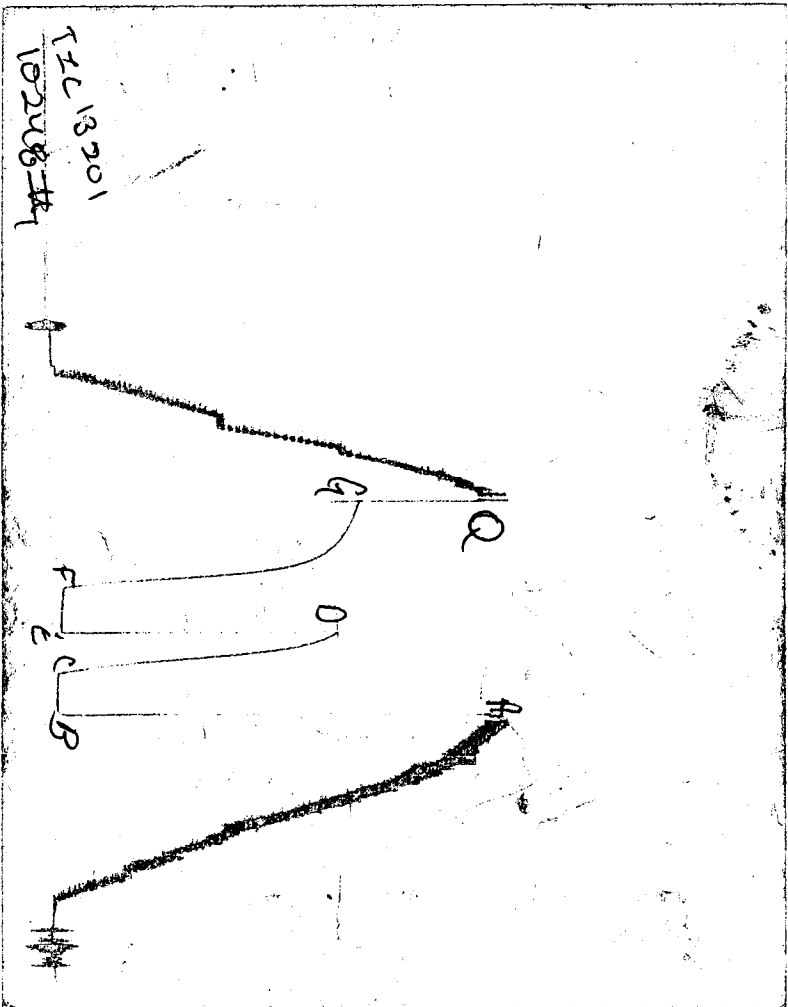


Flag Points

t (Min.)	P (PSig)
A: 0.00	2546.36
B: 0.00	38.35
C: 29.50	51.36
D: 30.00	1657.73
E: 0.00	55.80
F: 33.00	83.84
G: 63.50	1780.77
H: 0.00	2536.88

Temperature (DEG F)

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 13201

Test Ticket

Well Name & No.	<u>Ehrlich # 1-31</u>	Test No.	<u>1</u>	Date	<u>9-29-2000</u>
Company	<u>CLX Energy Inc.</u>	Zone Tested	<u>Pawnee</u>		
Address	<u>518 17th St. Ste 745, Denver Co. 80202</u>	Elevation	<u>1885</u>	KB	<u>1874</u> GL
Co. Rep / Geo.	<u>Wes Hansen</u>	Cont.	<u>Duke Dwy #4</u>	Est. Ft. of Pay	<u>4</u> Por. %
Location: Sec.	<u>31</u>	Twp.	<u>34S</u>	Rge.	<u>17W</u> Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u></u> Evaluation (Y, N) <u></u>

Interval Tested	<u>5224 - 5243'</u>	Initial Str Wt./Lbs.	<u>50,000</u>	Unseated Str Wt./Lbs.	<u>50,000</u>
Anchor Length	<u>19'</u>	Wt. Set Lbs.	<u>29,000</u>	Wt. Pulled Loose/Lbs.	<u>64,000</u>
Top Packer Depth	<u>5219'</u>	Tool Weight	<u>2100#</u>		
Bottom Packer Depth	<u>5224'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5243'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.0</u> LCM <u>4#</u> Vis. <u>46</u> WL <u>9.6cc.</u>	Drill Pipe Size	<u>4 1/2" X.H.</u>	Ft. Run	<u>5223'</u>
Blow Description	<u>IF: Strong blow. B.O.B. in 2 1/2 mins.</u>				
	<u>ISI: No blow.</u>				
	<u>FF: Strong blow. B.O.B. in 8 secs. FSI: Weak blow. 1/4-1/2"</u>				

Recovery — Total Feet	<u>140'</u>	GIP	<u>3410</u>	Ft. in DC	<u>~</u>	Ft. in DP	<u>140</u>
Rec.	<u>50</u>	Feet Of	<u>GCM</u>	10 %gas	%oil	%water	90 %mud
Rec.	<u>90</u>	Feet Of	<u>MW</u>	%gas	%oil	90 %water	10 %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>128</u>	°F Gravity	<u>N/A</u>	°API D@	<u>~</u>	°F Corrected Gravity	<u>N/A</u> °API
RW	<u>.07</u>	@	<u>81</u>	°F Chlorides	<u>97,000</u>	ppm Recovery	Chlorides <u>7,000</u> ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	<u>2536</u>	<u>2546</u>	PSI	Recorder No.	<u>2342</u>	T-On Location	<u>0130109</u>
(B) First Initial Flow Pressure	<u>25</u>	<u>38</u>	PSI	(depth)	<u>5230'</u>	T-Started	<u>0239</u>
(C) First Final Flow Pressure	<u>37</u>	<u>52</u>	PSI	Recorder No.	<u>10248</u>	T-Open	<u>0544</u>
(D) Initial Shut-In Pressure	<u>1640</u>	<u>1658</u>	PSI	(depth)	<u>5240'</u>	T-Pulled	<u>0817</u>
(E) Second Initial Flow Pressure	<u>48</u>	<u>56</u>	PSI	Recorder No.	<u>~</u>	T-Out	<u>1048</u>
(F) Second Final Flow Pressure	<u>80</u>	<u>84</u>	PSI	(depth)	<u>~</u>	T-Off Location	<u>1130</u>
(G) Final Shut-in Pressure	<u>1749</u>	<u>1781</u>	PSI	Initial Opening	<u>30</u>	Test	<u>✓ 850.00</u>
(Q) Final Hydrostatic Mud	<u>2481</u>	<u>2537</u>	PSI	Initial Shut-in	<u>30</u>	Jars	<u>✓ 200.00</u>
				Final Flow	<u>30</u>	Safety Joint	<u>✓ 50.00</u>
				Final Shut-in	<u>60</u>	Straddle	<u>~</u>
					<u>5</u>	Circ. Sub	<u>~</u>
					<u>7</u>	Sampler	<u>~</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

Wesley Hansen

Our Representative

Gary Pawlenty

Extra Packer ~
Elec. Rec. ✓ 150.00
Mileage 80 ✓ 80.00
Other ~
TOTAL PRICE \$ ✓ 1330.00

TRILOBITE TESTING L.L.C.

OPERATOR : CLX Enregy Inc.

DATE 09-30-000

WELL NAME: Ehrlich #1-31

KB 1885.00 ft

TICKET NO: 13202

DST #2

LOCATION : 31-34s-17w Comanche co KS

GR 1874.00 ft

FORMATION: Mississippi

INTERVAL : 5332.00 To 5445.00 ft

TD 5445.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 1555 to 1625 hr
SI 30 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1625 to 1655 hr
SF 30 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1655 to 1725 hr
FS 60 Depth(ft)	5442.0	5442.0	5342.0	0.0	0.0	FS Fr. 1725 to 1825 hr

	Field	1	2	3	4	
A. Init Hydro	2660.0	2636.0	2622.0	0.0	0.0	T STARTED 1312 hr
B. First Flow	80.0	93.0	39.0	0.0	0.0	T ON BOTM 1550 hr
B1. Final Flow	80.0	90.0	32.0	0.0	0.0	T OPEN 1555 hr
C. In Shut-in	159.0	167.0	117.0	0.0	0.0	T PULLED 1828 hr
D. Init Flow	80.0	93.0	29.0	0.0	0.0	T OUT 2105 hr
E. Final Flow	80.0	91.0	31.0	0.0	0.0	
F. Fl Shut-in	205.0	210.0	161.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2580.0	2629.0	2588.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 66000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 56000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5316.00 ft

RECOVERY

Tot Fluid 50.00 ft of 0.00 ft in DC and 50.00 ft in DP
 600.00 ft of Gas in pipe.
 50.00 ft of Drilling mud
 0.00 ft of 100% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----20
 SALINITY 9000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Fair to strong blow. Bottom of bucket
 in 8 minutes.

Initial Shut-In:

No blow.

Final Flow:

Fair to strong blow. Bottom of bucket
 in 10 minutes.

Final Shut-In:

No blow.

SAMPLES: none

SENT TO:Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	56.00 S/L
W.L.	12.00 in3
F.C.	0.20 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Wes Hansen
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 3 #/bl

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Ehrlich #1-31

LOCATION : 31-34s-17w Comanche co KS

TICKET No. 13202 D.S.T. No. 2 DATE 09-30-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 21

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
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93	1	1	1
94	1	1	1
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96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.	Stands 1	Single 1	Total 92
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TOTAL ASSEMBLY 140

D.C. ABOVE TOOLS.Stands	Single	Total
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
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95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

D.P. ABOVE TOOLS.Stands85 Single 1 Total 5316

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5456

TOTAL DEPTH 5445

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

Comments:

FLUID SAMPLER DATA (not run)

GAS-----

OIL-----ML.

MUD-----ML.

WATER-----ML.

OTHER-----

PRESSURE-----PSI

Rw ----- ohms @ deg. F.

CHLORIDES-----ppm.

GRAVITY----- n/a deg.API

H P.O. SUB

H.C.O. SUB @ top of tool 5305

H.S.I. TOOL Sterling 5311

	HMV Sterling	5316
--	--------------	------

H JARS bowen 5321

SAFETY JOINT bowen	5323
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PACKER Top 5327

PACKER Btm. 5332

DEPTH 5332

1 ft.	5333
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ANCHOR

4'perfs & sub to 5337

H Alpine rec. @ 5342

1 1/2 stds. pipe
to 5429

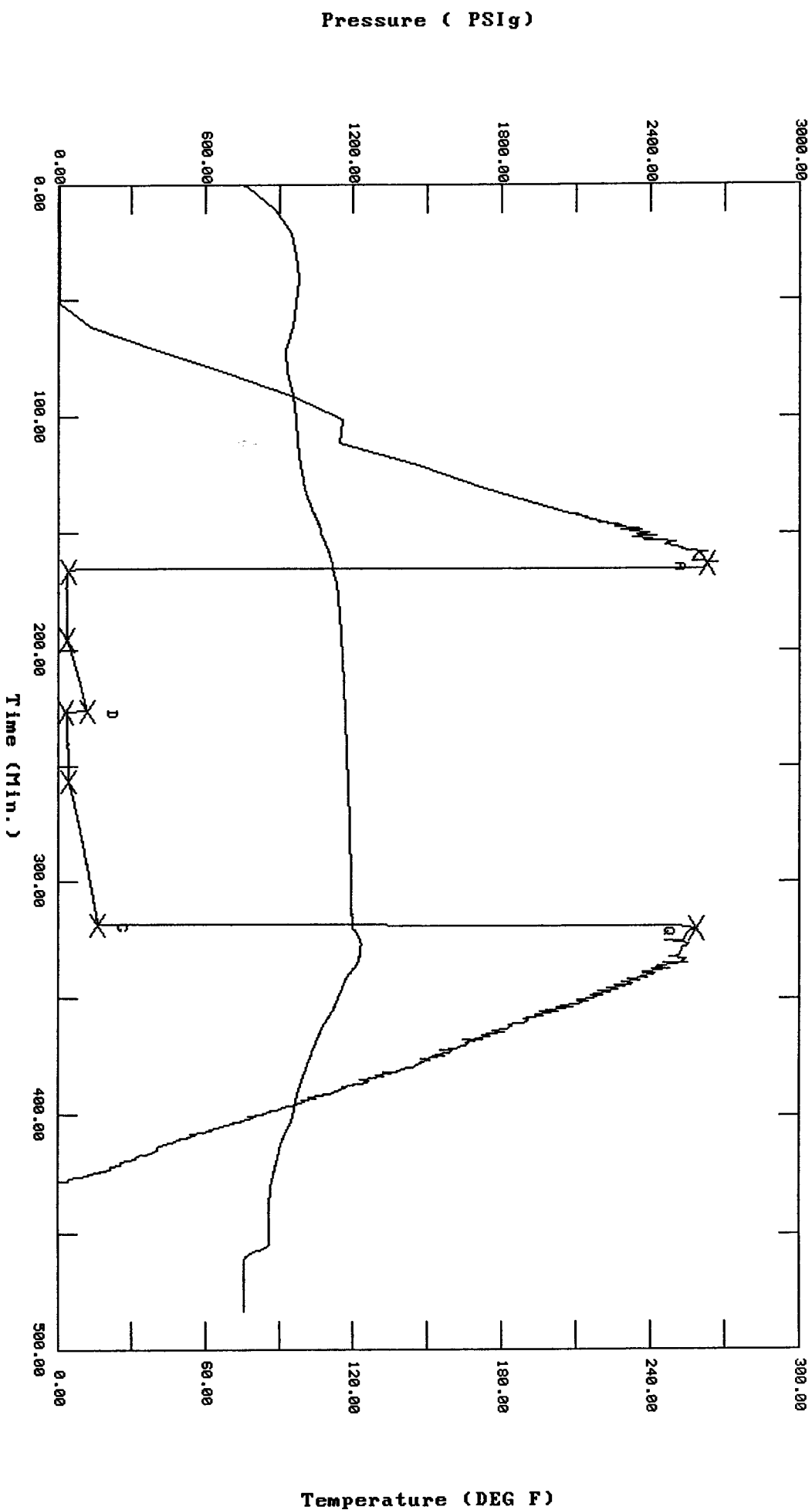
11' perfs & sub to	5440
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AK-1 rec. @ 5442

BULLNOSE 5 ft. perforated	5445
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U.T.D.

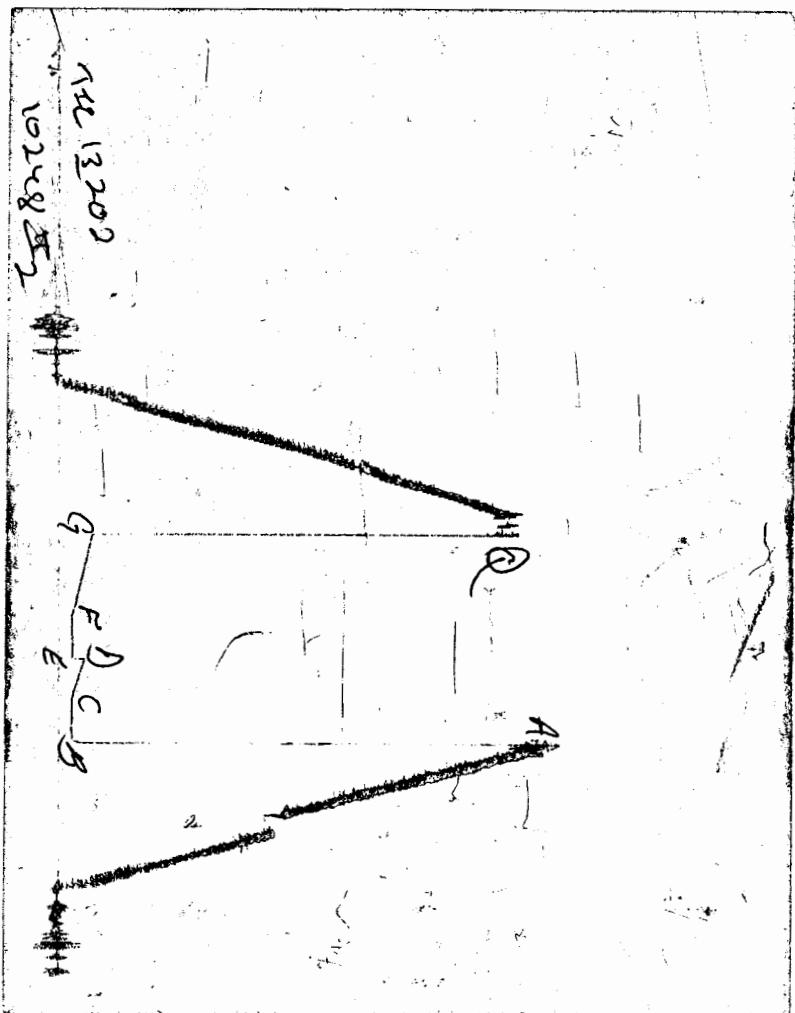
TEST HISTORY 13202 DST#2 EHRLICH #1-31 CLX ENERGY, INC.



Flag Points

t (Min.)	P (PSIg)
A	0.00 2626.76
B	0.00 38.77
C	29.00 32.39
D	31.00 116.90
E	0.00 28.95
F	30.00 38.60
G	61.50 160.88
H	0.00 2588.24

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13202

Test Ticket

Well Name & No.	<u>Quilich # 1-31</u>	Test No.	<u>2</u>	Date	<u>9-30-2000</u>
Company	<u>CLX Energy Inc.</u>	Zone Tested	<u>Miss.</u>		
Address	<u>518 17th St. Ste. 745, Denver Co. 80202</u>	Elevation	<u>1485</u>	KB	<u>1474</u> GL
Co. Rep / Geo.	<u>Wes Hansen</u>	Cont.	<u>Duke Dely #4</u>	Est. Ft. of Pay	<u>20</u> %
Location: Sec.	<u>31</u>	Twp.	<u>34^S</u>	Rge.	<u>17^W</u>
		Co.	<u>Comanche</u>	State	<u>KS</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u></u>
		Evaluation (Y, N)	<u></u>		

Interval Tested	<u>S332 - S445'</u>	Initial Str Wt./Lbs.	<u>54,000</u>	Unseated Str Wt./Lbs.	<u>56,000</u>
Anchor Length	<u>113'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>46,000</u>
Top Packer Depth	<u>5327'</u>	Tool Weight	<u>2100 #</u>		
Bottom Packer Depth	<u>5332'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5445'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>8.9</u> LCM <u>3rd</u> Vis. <u>SL</u> WL <u>12.0 cc</u>	Drill Pipe Size	<u>4 1/2" x 14</u>	Ft. Run	<u>5316'</u>
Blow Description	<u>IF: Fair to strong blow. B.O.B. in 8 mins.</u>				
	<u>ISI: No blow.</u>				
	<u>FF: Fair to strong blow. B.O.B. in 10 mins.</u>				
	<u>FSI: No blow.</u>				

Recovery — Total Feet	<u>50</u>	GIP	<u>600'</u>	Ft. in DC	<u>0</u>	Ft. in DP	<u>50</u>
Rec.	<u>50</u>	Feet Of	<u>Drill Mud</u>	%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	<u>120</u>	°F Gravity	<u>N/A</u>	°API D@	<u>2</u>	°F Corrected Gravity	<u>N/A</u>
RW	<u>N/C</u>	°F Chlorides	<u>9,000</u>	ppm Recovery		Chlorides	<u>9,000</u> ppm System

(A) Initial Hydrostatic Mud	<u>2660</u>	AK-1	<u>2627</u>	Alpine	PSI	Recorder No.	<u>2342</u>	T-On Location	<u>1215.51</u>
(B) First Initial Flow Pressure	<u>80</u>		<u>39</u>		PSI	(depth)	<u>5342</u>	T-Started	<u>1312</u>
(C) First Final Flow Pressure	<u>80</u>		<u>32</u>		PSI	Recorder No.	<u>10248</u>	T-Open	<u>1555</u>
(D) Initial Shut-In Pressure	<u>159</u>		<u>117</u>		PSI	(depth)	<u>5442</u>	T-Pulled	<u>1828</u>
(E) Second Initial Flow Pressure	<u>80</u>		<u>29</u>		PSI	Recorder No.	<u>---</u>	T-Out	<u>2105</u>
(F) Second Final Flow Pressure	<u>80</u>		<u>31</u>		PSI	(depth)	<u>---</u>	T-Off Location	<u>2220</u>
(G) Final Shut-in Pressure	<u>205</u>		<u>161</u>		PSI	Initial Opening	<u>30</u>	Test	<u>✓ 850</u>
(Q) Final Hydrostatic Mud	<u>2580</u>		<u>2588</u>		PSI	Initial Shut-in	<u>30</u>	Jars	<u>✓ 200</u>
						Final Flow	<u>30</u>	Safety Joint	<u>✓ 50</u>
						Final Shut-in	<u>60</u>	Straddle	<u>---</u>
							<u>4</u>	Circ. Sub	<u>---</u>
							<u>7</u>	Sampler	<u>---</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

Our Representative

Extra Packer ---
Elec. Rec. ✓ 150
Mileage 80 ✓ 80
Other ---
TOTAL PRICE \$ ✓ 1330

Well Name Ehrlich
DST Number 2
Recorder Number 10248

A:	<u>2.481</u>	<u>2736</u>
B:	<u>.082</u>	<u>93</u>
C:	<u>.079</u>	<u>90</u>
D:	<u>.147</u>	<u>167</u>
E:	<u>.082</u>	<u>93</u>
F:	<u>.080</u>	<u>91</u>
G:	<u>.185</u>	<u>210</u>
Q:	<u>2.384</u>	<u>2629</u>

Well Name Ehrlich
DST Number 1
Recorder Number 10248

A:	<u>2.321</u>	<u>2559</u>
B:	<u>.027</u>	<u>31</u>
C:	<u>.031</u>	<u>35</u>
D:	<u>1.472</u>	<u>1624</u>
E:	<u>.049</u>	<u>56</u>
F:	<u>.060</u>	<u>68</u>
G:	<u>1.591</u>	<u>1756</u>
Q:	<u>2.308</u>	<u>2545</u>