

15-129-21615

WELL NAME

Lemon #1-827

COMPANY

Pioneer Oil Company Inc.

LOCATION

27-32s-41w

Morton co Kansas

DATE

12/11/00

TRILOBITE TESTING L.L.C.

OPERATOR : Pioneer Oil Comp. Inc.
WELL NAME: Lemon #1-827
LOCATION : 27-32S-41W Morton co KS
INTERVAL : 3128.00 To 3165.00 ,ft

DATE 12-4-00
KB 3402.00 ft TICKET NO: 12258 DST #1
GR 3397.00 ft FORMATION: Topeka
TD 3165.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10993	10993	2357			PF Fr. 1433 to 1448 hr
SI 45 Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 1448 to 1533 hr
SF 75 Clock(hrs)	12HR	12HR.	Elet			SF Fr. 1533 to 1648 hr
FS 90 Depth(ft)	3163.0	3163.0	3133.0	0.0	0.0	FS Fr. 1648 to 1818 hr

	Field	1	2	3	4	
A. Init Hydro	1553.0	0.0	1543.0	0.0	0.0	T STARTED 1300 hr
B. First Flow	43.0	0.0	21.0	0.0	0.0	T ON BOTM 1431 hr
B1. Final Flow	43.0	0.0	28.0	0.0	0.0	T OPEN 1433 hr
C. In Shut-in	130.0	0.0	150.0	0.0	0.0	T PULLED 1818 hr
D. Init Flow	54.0	0.0	26.0	0.0	0.0	T OUT 2015 hr
E. Final Flow	65.0	0.0	41.0	0.0	0.0	
F. Fl Shut-in	163.0	0.0	150.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1532.0	0.0	1515.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 75000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 lbs

RECOVERY

Tot Fluid 65.00 ft of 65.00 ft in DC and 0.00 ft in DP
65.00 ft of Drilling mud
0.00 ft of 100%
0.00 ft of ft pay 10ft
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

Bot Choke 0.75 in
Hole Size 7.78 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 545.00 ft
D.P. Length 2565.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in 11 minutes.
Initial Shut-In:
No blow back. Bled off 2"
Final Flow:
Strong blow bottom of bucket in 30 seconds. Gas to surface in 34 minutes
MCF @ 12,100
Final Shut-In:
No blow back.

MUD DATA-----
Mud Type Chemical
Weight 9.40 lb/c
Vis. 46.00 S/L
W.L. 7.20 in3
F.C. 0.00 in
Mud Drop Y 50.0 ft

Amt. of fill 0.00 ft
Btm. H. Temp. 111.00 F
Hole Condition Good
% Porosity 14.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Mike Colantonio
Co. Rep. George Payne
Contr. Val Energy
Rig # #1
Unit #
Pump T.

SAMPLES: Yes 1
SENT TO: Caraway Lab Liberal

Test Successful: Y

GAS RECOVERY

COMPANY: Pioneer Oil Comp. Inc. DATE: 12-4-00
WELL NAME: Lemon #1-827 KB Elev: 3402.00 ft TICKET #12258 DST #1
WELL LOCATION: 27-32S-41W Morton co KS GR Elev: 3397.00 ft FORMATION: Topeka
INTERVAL Fr.: 3128.00 To 3165.00 T.D.: 3165.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Data

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
35	0.25	0	11	5600.0
40	0.25	0	22	7880.0
45	0.25	0	31	9300.0
50	0.25	0	34	9790.0
55	0.25	0	40	10600.0
60	0.25	0	42	10900.0
65	0.25	0	50	11900.0
70	0.25	0	51	12000.0
75	0.25	0	52	12100.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Lemon #1-827

LOCATION : 27-32S-41W Morton co KS

TICKET No. 12258 D.S.T. No. 1 DATE 12-4-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 37

TOTAL TOOL 59

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands9 Single Total 545

D.P. ABOVE TOOLS.Stands41 Single 1 Total 2565

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3169

TOTAL DEPTH 3165

TOTAL DRILL PIPE ABOVE K.B. 4ft.

REMARKS:

SAMPLER DATA

P.O. SUB Top Tool	3108
C.O. SUB 1ft	3109
S.I., TOOL Sterling	3112
HMV Sterling	3117
JARS	
SAFETY JOINT Bowens	3119
PACKER 5ft	3123
PACKER 5ft	3128
DEPTH 1ft	3129
ANCHOR 4ft perf	3133
Alpie Rec	3133
5ft P U Sub	3138
25ft perf	3163
AK-1 Rec.	3163
BULLNOSE	
T.D. 2ft Bullplug	3165

Operator.....: Pioneer Oil Comp Inc
Well Name.....: Lemon 1-827
DST Number.....: 1

Location.: 27-32s-41w Recorder No...: 2357
Test Type: conv Recorder Depth: 3133
Formation: Topeka Test Interval.: 3128-3165

RESERVOIR CALCULATIONS: Gas calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....: 10.00 ft
Porosity.....: 14.00 %
Bottom Hole Temp.....: 111.00 F
Specific Gravity.....: 0.841
Z factor.....: .9976
Compressibility.....: 0.005500 /psi
Viscosity.....: 0.0142 cp
Total Flowing Time.....: 90.00 min.
Flow Rate.....: 12.1 mcf/d
Final Flowing Pressure.....: 41.00 psi
Horner Slope.....: 0.0017 *10⁶ psi²/cycle
Extrapolated Pressure.....: 151.86 psi
Assumed Drainage Radius.....: 1500.00 ft
Well Bore Radius.....: 3.94 in

RESULTS:

Effective Permeability.....: 9.418065 md
Flow Capacity.....: 94.1806 md.ft
Transmissibility.....: 6632.4401 md.ft/cp
Skin Factor.....: 12.5282
Pressure Drop Across Skin.....: 101.0876 psi
Radius of Investigation.....: 32.9636 ft
Damage Ratio.....: 3.6237
Absolute Open Flow.....: 13.0488 mcf/d
Absolute Open Flow W/O Damage.: 47.2849 mcf/d
Estimated Stabilized AOF.....: 15.6727 mcf/d

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20006097

Analyzed: 12/05/00

Sample From: Lemon 1-827 DST 1
Producer: Pioneer Oil

Pressure:
Temperature:

Date Location: 27-32-41

Time:
Sampler: Mike Colontonio
Source:

County: Morton
State: Kansas
Formation: Topeka

	Mole %	GPM
Helium	He: 0.835	0.000
Hydrogen	H2: 0.027	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 28.591	0.000
Carbon Dioxide	CO2: 0.011	0.000
Methane	C1: 51.836	0.000
Ethane	C2: 7.419	1.984
Propane	C3: 5.891	1.623
Iso Butane	iC4: 0.851	0.278
Normal Butane	nC4: 2.401	0.757
Iso Pentane	iC5: 0.595	0.218
Normal Pentane	nC5: 0.752	0.272
Hexanes Plus	C6+: 0.791	0.345

TOTAL: 100.000 5.478

Z Fact: 0.9972

SP.GR.: 0.8588

BTU (SAT): 991.3 @ 14.73 psia

BTU (DRY): 1008.8 @ 14.73 psia

OCTANE RATING: 84.8

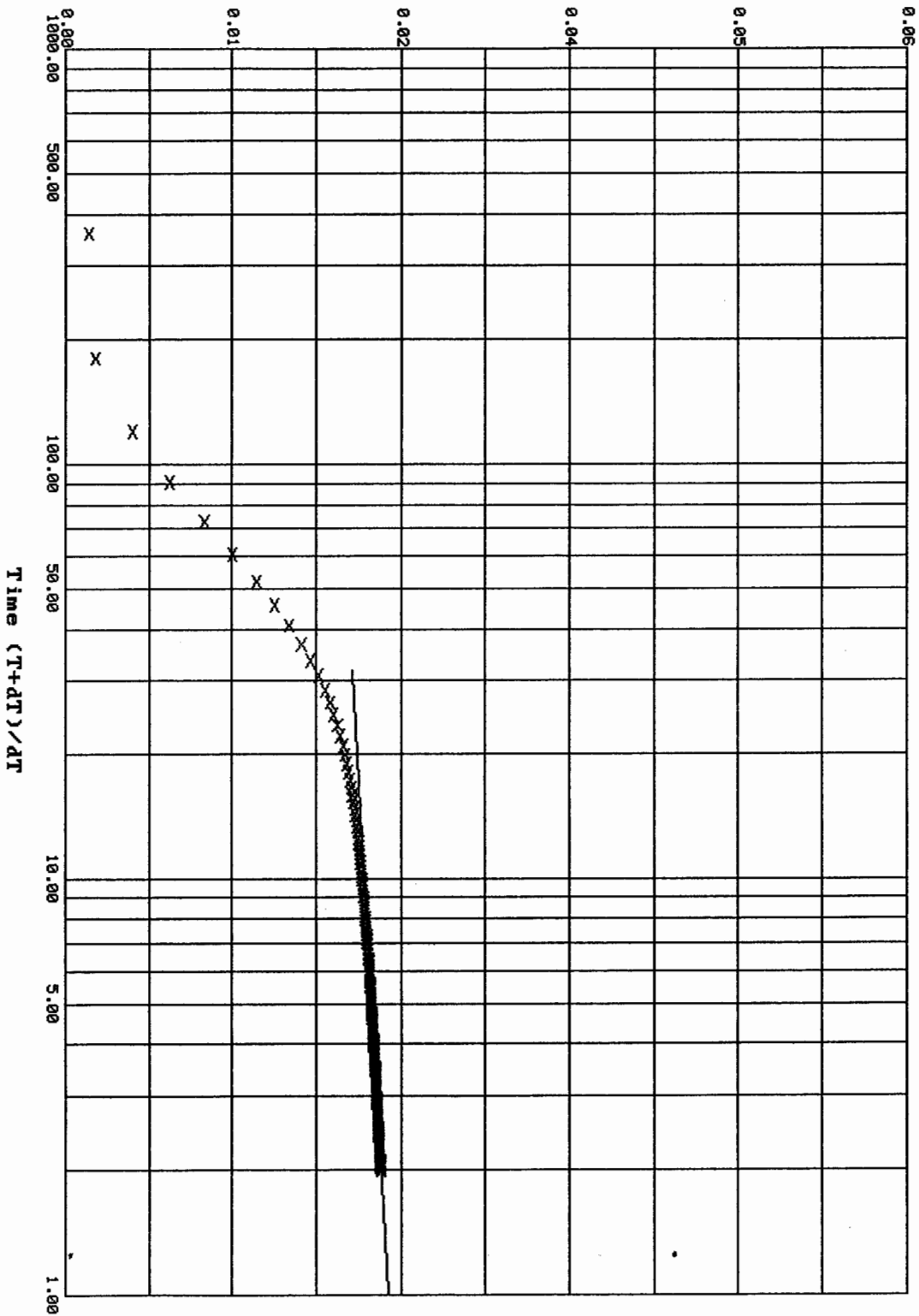
COMMENTS:

0.000

P² Horner Plot: shut-in #2

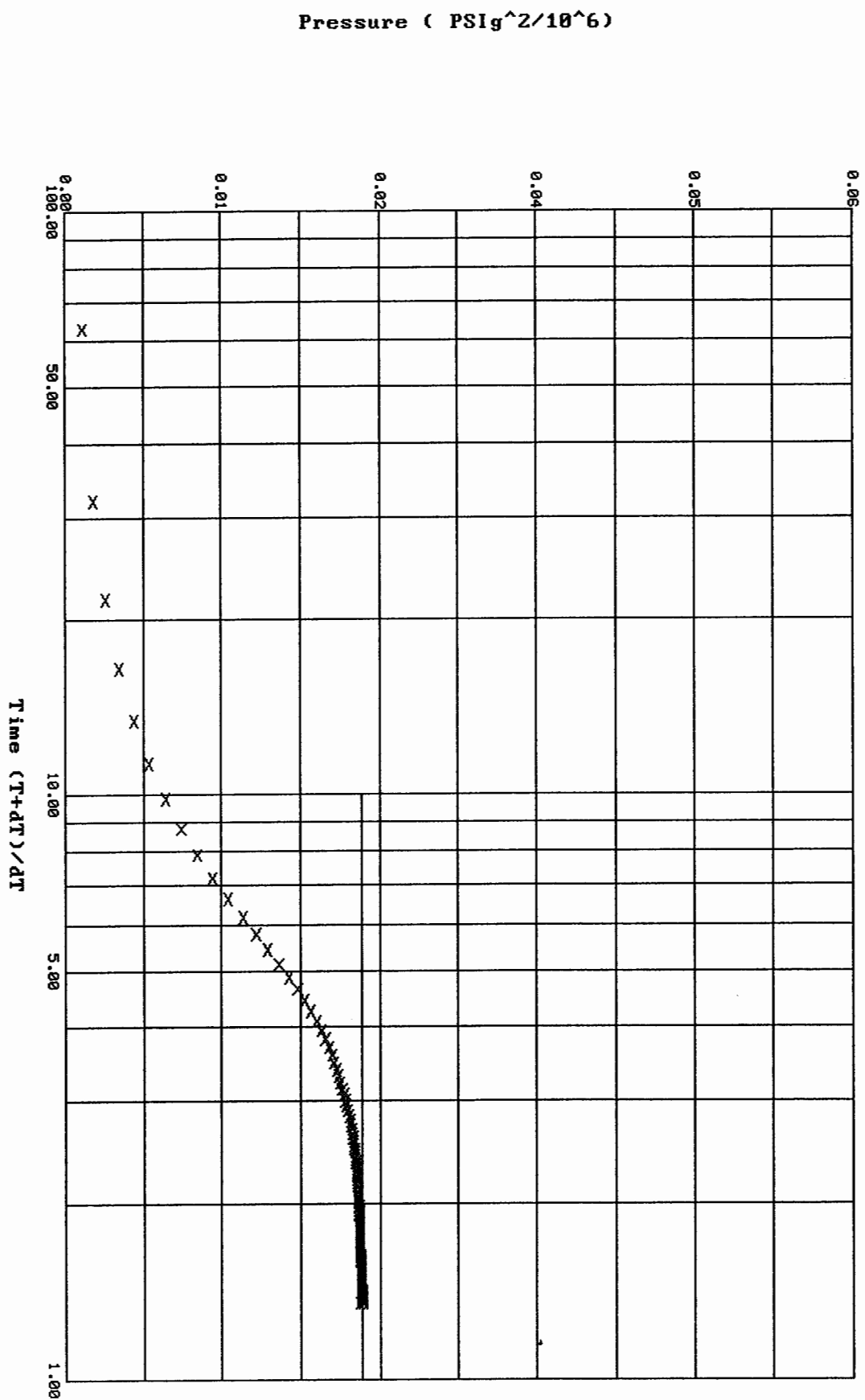
12258 DST#1 Lemon #1-827 Pioneer Oil Company Inc.

Slope: 0.0017 PSig²/10⁶/cycle
Ext. Pressure: 151.8633 PSig



P² Horner Plot: shut-in #1 12258 DST#1 Lemon #1-827 Pioneer Oil Company Inc.

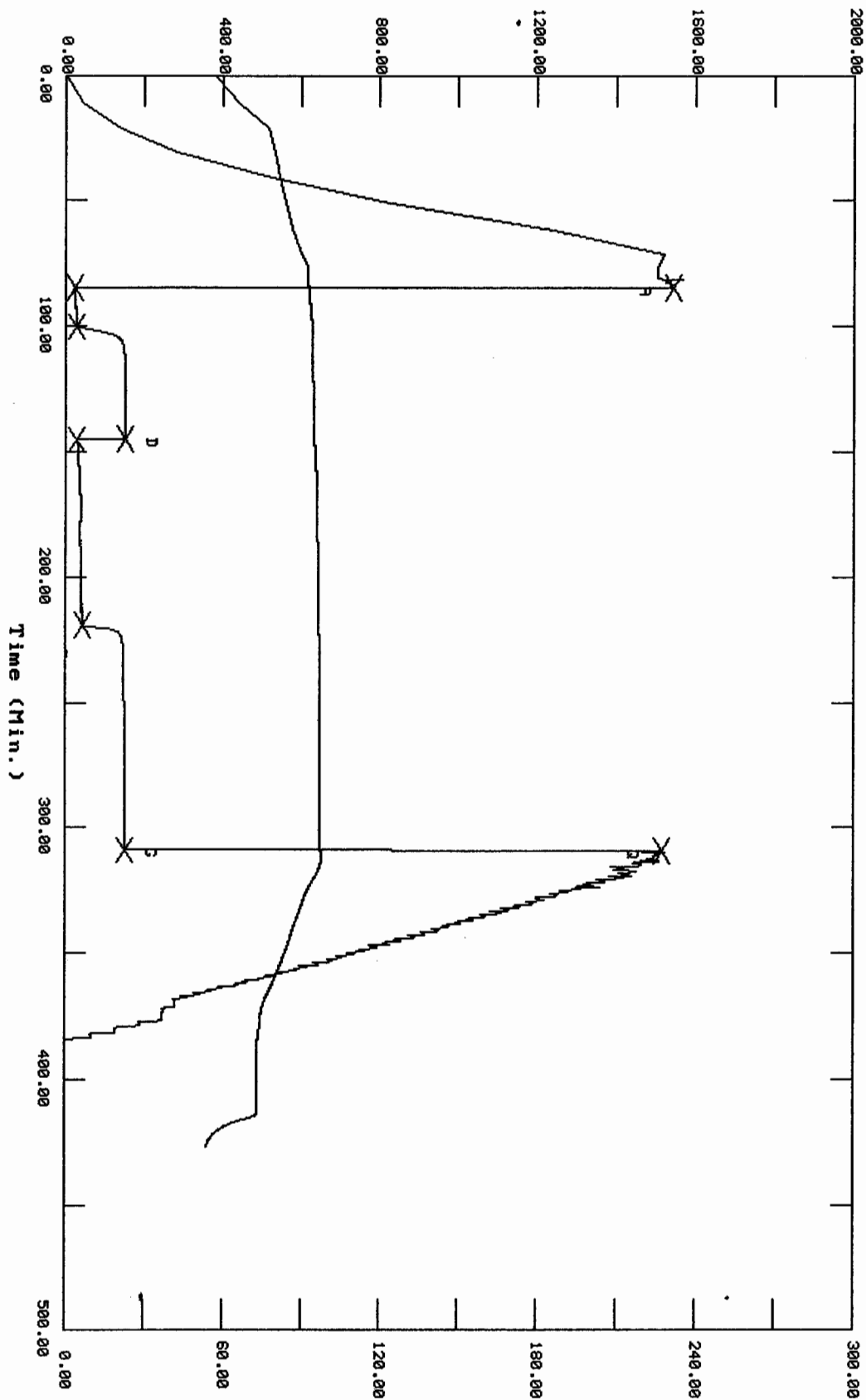
Slope: 0.0000 PSig²/10⁶/cycle
 Ext. Pressure: 150.5365 PSig



TEST HISTORY

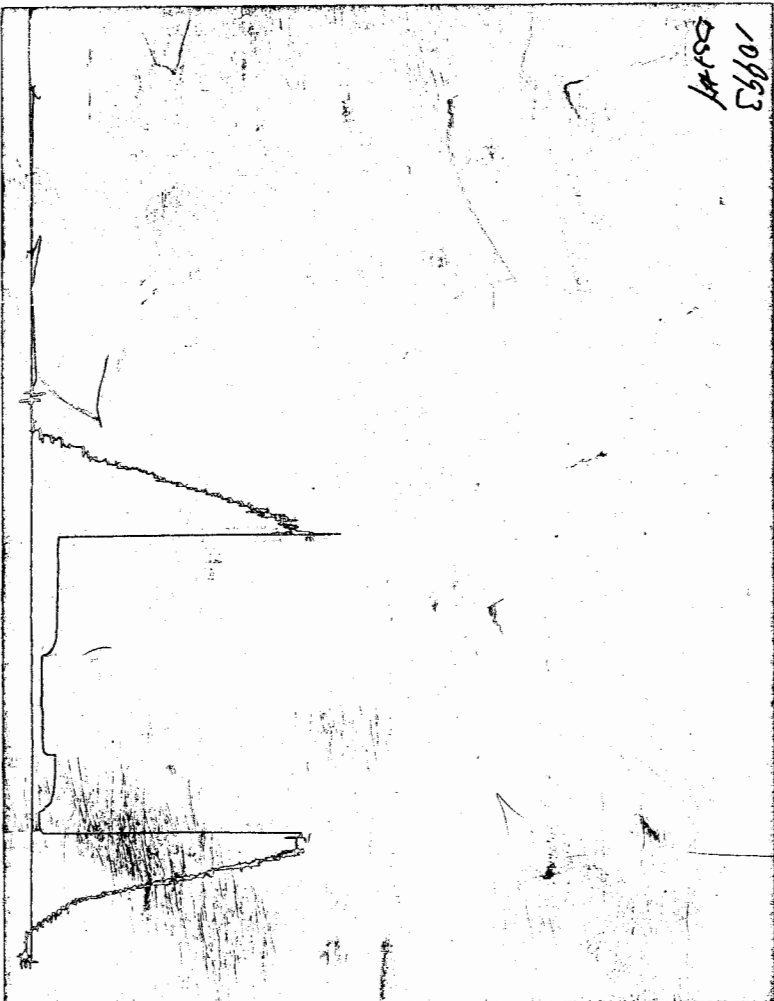
12258 DST#1 Lemon #1-827 Pioneer Oil Company Inc.

Flag Points	
t (Min.)	Pc (PSig)
A:	0.00 1543.58
B:	0.00 21.75
C:	15.50 28.08
D:	44.50 150.07
E:	0.00 26.78
F:	74.00 41.92
G:	89.75 150.21
H:	0.00 1515.69



Temperature (DEG F)

CHART PAGE



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



GAS VOLUME REPORT

Lemon #1-827

ST/

DST NO.

2nd opening QTS in 34 min.

Remarks: GAS WILL Burn.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12258

Test Ticket

Well Name & No. <u>LCM #1-827</u>	Test No. <u>#1</u>	Date <u>12-4-00</u>
Company <u>Pioneer Oil Company Inc.</u>	Zone Tested <u>Topeka</u>	
Address <u>184 Box 1423 Lawrenceville IL 62439</u>	Elevation <u>3402</u> KB <u>3397</u> GL	
Co. Rep / Geo. <u>John Christensen</u> Cont. <u>VA/Energy Rj #1</u>	Est. Ft. of Pay <u>10</u> Por. <u>14</u> %	
Location: Sec. <u>27</u> Twp. <u>32S</u> Rge. <u>41W</u>	Co. <u>Morton</u> State <u>KS</u>	
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3128-3165</u>	Initial Str Wt./Lbs. <u>60,000</u>	Unseated Str Wt./Lbs. <u>60,000</u>
Anchor Length <u>37'</u>	Wt. Set Lbs. <u>29,000</u>	Wt. Pulled Loose/Lbs. <u>25,000</u>
Top Packer Depth <u>3123</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>3128</u>	Hole Size — 7 7/8" <u>X</u>	Rubber Size — 6 3/4" <u>X</u>
Total Depth <u>3165'</u>	Wt. Pipe Run <u>X</u>	Drill Collar Run <u>545' 95425</u>
Mud Wt. <u>9.4</u> LCM <u>2nd</u> Vis. <u>46</u> WL <u>7.2</u>	Drill Pipe Size <u>4.5 X-0</u>	Ft. Run <u>2565' 412540</u>
Blow Description <u>1st opening Fair Blow Built to B.O.B in 11 min.</u>		
<u>ISF Bled off 2" No Blow Back</u>		
<u>2nd opening Strong Blow B.O.B in 30 sec. GTS in 34 min MCF @ 12/100</u>		

Recovery — Total Feet <u>65'</u>	GIP _____	Ft. in DC <u>65'</u>	Ft. in DP _____
Rec. <u>65</u>	Feet Of <u>Or 12 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 _____	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____ °API _____
RW _____	@ _____	°F Chlorides _____	ppm Recovery Chlorides <u>3,000</u> ppm System

(A) Initial Hydrostatic Mud <u>1553</u> AK-1 <u>1543</u> Alpine	PSI Recorder No. <u>2357</u>	T-On Location <u>12:00pm</u>
(B) First Initial Flow Pressure <u>43</u> <u>91</u>	PSI (depth) <u>3133</u>	T-Started <u>1:00pm 13:00</u>
(C) First Final Flow Pressure <u>43</u> <u>28</u>	PSI Recorder No. <u>10993</u>	T-Open <u>2:33pm</u>
(D) Initial Shut-In Pressure <u>130</u> <u>150</u>	PSI (depth) <u>3163</u>	T-Pulled <u>6:18pm</u>
(E) Second Initial Flow Pressure <u>54</u> <u>26</u>	PSI Recorder No. _____	T-Out <u>8:15pm 20:15</u>
(F) Second Final Flow Pressure <u>65</u> <u>41</u>	PSI (depth) _____	T-Off Location <u>9:15pm</u>
(G) Final Shut-in Pressure <u>163</u> <u>150</u>	PSI Initial Opening <u>15 min</u>	Test <u>Conventional 1700</u>
(Q) Final Hydrostatic Mud <u>1532</u> <u>1575</u>	PSI Initial Shut-in <u>45 min</u>	Jars _____
	Final Flow <u>75 min</u>	Safety Joint <u>50</u>
	Final Shut-in <u>90 min</u>	Straddle _____
		Circ. Sub <u>14/2</u>
		Sampler _____
		Extra Packer _____
		Elec. Rec. <u>150</u>
		Mileage <u>50.00</u>
		Other _____
		TOTAL PRICE \$ <u>1050</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 [Signature]
Our Representative [Signature]

950

TRILOBITE TESTING L.L.C.

OPERATOR : Pioneer Oil Comp. Inc.
WELL NAME: Lemon #1-827
LOCATION : 27-32S-41W Morton co KS
INTERVAL : 3158.00 To 3196.00 ft

DATE 12-5-00
KB 3402.00 ft TICKET NO: 12259 DST ##2
GR 3397.00 ft FORMATION: 2nd. Topeka Zone
TD 3196.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10993	10993	2357			PF Fr. 0620 to 0635 hr
SI 45 Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 0635 to 0720 hr
SF 30 Clock(hrs)	12HR	12HR.	Elet			SF Fr. 0720 to 0750 hr
FS 30 Depth(ft)	3194.0	3194.0	3160.0	0.0	0.0	FS Fr. 0750 to 0820 hr

	Field	1	2	3	4	
A. Init Hydro	1725.0	0.0	1584.0	0.0	0.0	T STARTED 0435 hr
B. First Flow	65.0	0.0	16.0	0.0	0.0	T ON BOTM 0618 hr
B1. Final Flow	76.0	0.0	20.0	0.0	0.0	T OPEN 0620 hr
C. In Shut-in	380.0	0.0	407.0	0.0	0.0	T PULLED 0820 hr
D. Init Flow	97.0	0.0	23.0	0.0	0.0	T OUT 1000 hr
E. Final Flow	54.0	0.0	27.0	0.0	0.0	
F. Fl Shut-in	163.0	0.0	176.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1618.0	0.0	1524.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in.
						D.C. Length 545.00 ft
						D.P. Length 2595.00 ft

RECOVERY

Tot Fluid 15.00 ft of 15.00 ft in DC and 0.00 ft in DP
15.00 ft of Drilling mud
0.00 ft of 100%
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak surface blow
Initial Shut-In:
No blow back
Final flow:
NO blow
Final Shut-In:
No blow back.

MUD DATA-----
Mud Type Chemical
Weight 9.40 lb/ci
Vis. 46.00 S/L
W.L. 7.20 in3
F.C. 0.00 in
Mud Drop Y 50.0 ft

Amt. of fill 0.00 ft
Btm. H. Temp. 111.00 F
Hole Condition Good
% Porosity 8.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Mike Colantonio
Co. Rep. George Payne
Contr. Val Energy
Rig # #1
Unit #
Pump T.

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Lemon #1-827

LOCATION : 27-32S-41W Morton co KS

TICKET No. 12259 D.S.T. No. #2 DATE 12-5-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 38

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands9 Single Total 545

D.P. ABOVE TOOLS.Stands42 Single Total 2595

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3200

TOTAL DEPTH 3196

TOTAL DRILL PIPE ABOVE K.B. 4ft.

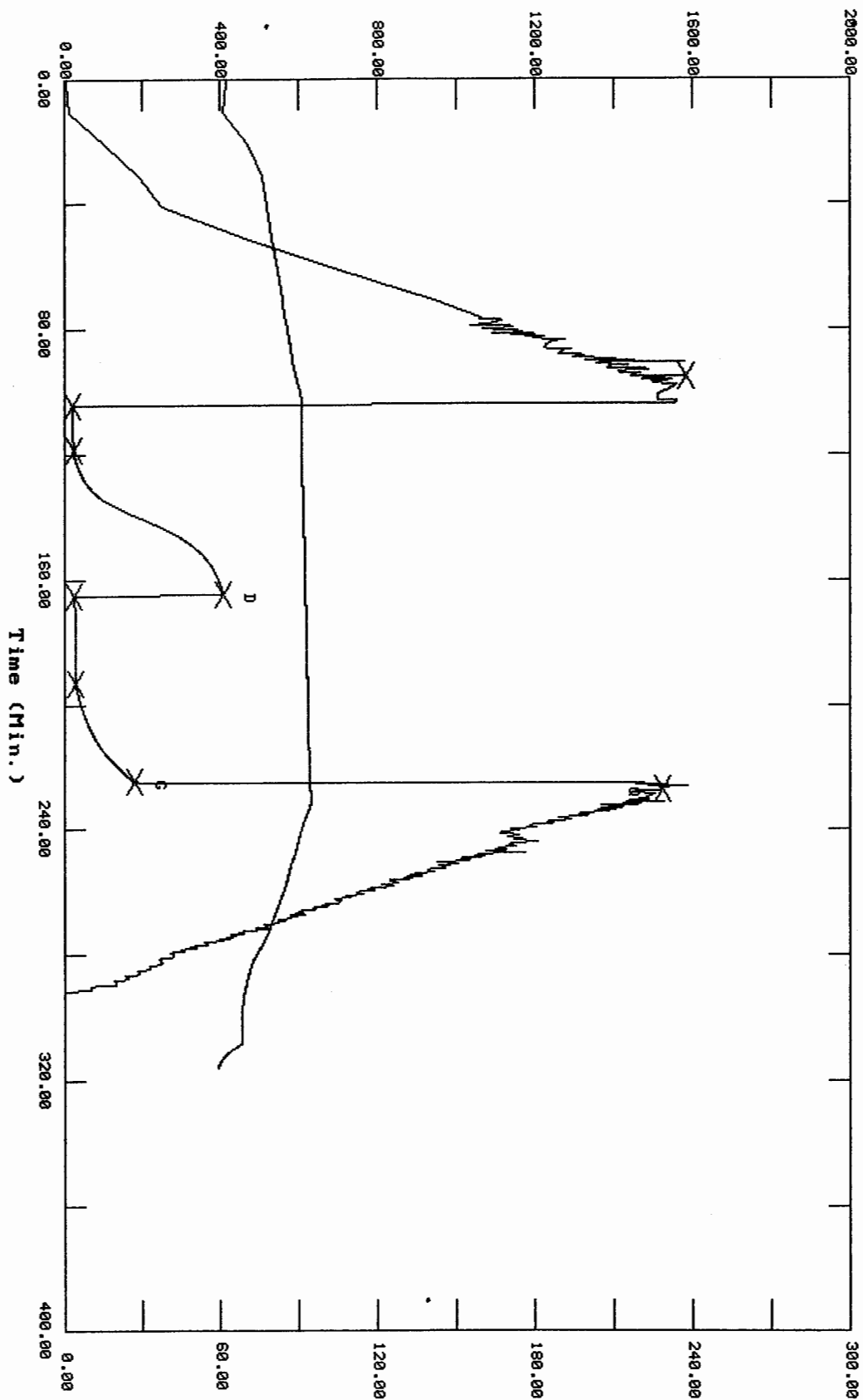
REMARKS:

SAMPLER DATA

P.O. SUB Top Tool	3136
C.O. SUB 1ft	3137
S.I. TOOL Sterling	3142
HMV Sterling	3147
JARS	
SAFETY JOINT Bowens	3149
PACKER 5ft	3153
PACKER 5ft	3158
DEPTH	
1ft	3159
ANCHOR 1ft perf	3160
Alpie Rec	3160
5ft P U Sub	3165
29ft perf	3194
AK-1 Rec.	3194
BULLNOSE	
T.D. 2ft Bullplug	3196

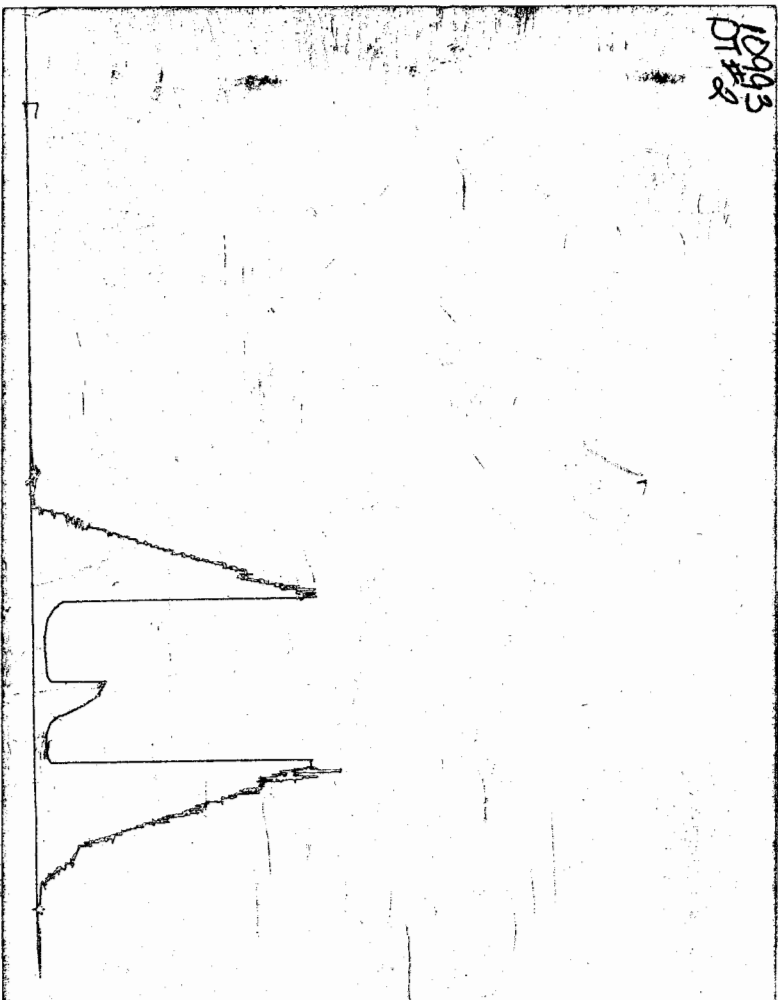
TEST HISTORY

12259 DST #2 Lemon #1-827 Pioneer Oil Comp. Inc.



	t(Min.)	P (PSIg)	Flag Points
A:	0.00	1564.14	
B:	0.00	16.49	
C:	14.25	20.97	
D:	46.25	407.12	
E:	0.00	23.54	
F:	27.75	27.94	
G:	31.75	176.78	
H:	0.00	1524.88	

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

N^o 12259

Test Ticket

Well Name & No.	<u>Leman #1-827</u>	Test No.	<u>#2</u>	Date	<u>12-5-00</u>
Company	<u>Pioneer Oil Company Inc.</u>	Zone Tested	<u>2nd Topeka Zone</u>		
Address	<u>Laverenceville, Mo. 62439</u>	Elevation	<u>3402</u>	KB	<u>3397GL</u>
Co. Rep / Geo.	<u>John Christensen</u>	Cont.	<u>ValEnergy Rij #1</u>	Est. Ft. of Pay	<u>4</u> Por. <u>8</u> %
Location: Sec.	<u>27</u>	Twp.	<u>32S</u>	Rge.	<u>41W</u> Co. <u>Morton</u> State <u>KS</u>
No. of Copies	Distribution Sheet (Y, N)		Turnkey (Y, N)		Evaluation (Y, N)

Interval Tested	<u>3158 - 3196</u>	Initial Str Wt./Lbs.	<u>6900</u>	Unseated Str Wt./Lbs.	<u>6900</u>
Anchor Length	<u>38</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>19,000</u>
Top Packer Depth	<u>3153</u>	Tool Weight	<u>1,800</u>		
Bottom Packer Depth	<u>3158</u>	Hole Size — 7 7/8"	<u>X</u>	Rubber Size — 6 3/4"	<u>X</u>
Total Depth	<u>3196</u>	Wt. Pipe Run	<u>X</u>	Drill Collar Run	<u>515' 9.5125</u>
Mud Wt.	<u>9.4</u> LCM <u>2</u> Vis. <u>4/6</u> WL <u>7.2</u>	Drill Pipe Size	<u>4.5 X-0</u>	Ft. Run	<u>2595' 425.50</u>
Blow Description	<u>1st Opening Weak Surface Blow</u>				

2nd opening NO Blow

Recovery — Total Feet	<u>15</u>	GIP		Ft. in DC	<u>15</u>	Ft. in DP	
Rec.	<u>15</u>	Feet Of	<u>Dlg mud</u>	%gas		%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
BHT	<u>111</u>	°F Gravity		°API D@		°F Corrected Gravity	
RW		@		°F Chlorides		ppm Recovery	
				Chlorides	<u>3000</u>	ppm System	

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1725</u>	<u>1584</u>	PSI	Recorder No.	<u>2357</u>
(B) First Initial Flow Pressure	<u>65</u>	<u>16</u>	PSI	(depth)	<u>3160</u>
(C) First Final Flow Pressure	<u>76</u>	<u>20</u>	PSI	Recorder No.	<u>10993</u>
(D) Initial Shut-In Pressure	<u>380</u>	<u>407</u>	PSI	(depth)	<u>3194</u>
(E) Second Initial Flow Pressure	<u>97</u>	<u>23</u>	PSI	Recorder No.	
(F) Second Final Flow Pressure	<u>54</u>	<u>27</u>	PSI	(depth)	
(G) Final Shut-in Pressure	<u>163</u>	<u>176</u>	PSI	Initial Opening	<u>15 min.</u>
(Q) Final Hydrostatic Mud	<u>1618</u>	<u>1524</u>	PSI	Initial Shut-in	<u>45 min</u>
				Final Flow	<u>30 min</u>
				Final Shut-in	<u>30 min</u>
				Safety Joint	<u>✓</u> <u>50</u>
				Straddle	
				Circ. Sub	<u>M/C</u>
				Sampler	
				Extra Packer	
				Elec. Rec.	<u>150</u>
				Mileage	<u>50</u>
				Other	

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 John Christensen
Our Representative John Christensen

TOTAL PRICE \$ 1250.00 950