

15-081-21287

TRILOBITE TESTING L.L.C.

13-27s-34w

OPERATOR : OXY-USA

DATE 2-29-2000

WELL NAME: Frey F-6

KB 2993.00 ft

TICKET NO: 12498

DST # 1

LOCATION : 13-27s-34w Haskell co KS

GR 2980.00 ft

FORMATION: Toronto

INTERVAL : 3994.00 To 4009.00 ft

TD 4089.00 ft

TEST TYPE: CONV-STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13278	13278	ALPINE	10993		PF Fr. 1422 to 1452 hr
SI 60 Range(Psi)	4400.0	4400.0	5000.0	4250.0	0.0	IS Fr. 1452 to 1552 hr
SF 60 Clock(hrs)	12HR	12HR	ELECT	12HR		SF Fr. 1552 to 1652 hr
FS 120 Depth(ft)	4002.0	4002.0	3995.0	4086.0	0.0	FS Fr. 1652 to 1852 hr

	Field	1	2	3	4	
A. Init Hydro	1931.0	1849.0	1903.0	0.0	0.0	T STARTED 1212 hr
B. First Flow	352.0	283.0	206.0	0.0	0.0	T ON BOTM 1420 hr
B1. Final Flow	639.0	583.0	691.0	0.0	0.0	T OPEN 1422 hr
C. In Shut-in	1037.0	965.0	1034.0	0.0	0.0	T PULLED 1852 hr
D. Init Flow	838.0	773.0	720.0	0.0	0.0	T OUT 2220 hr
E. Final Flow	938.0	891.0	998.0	0.0	0.0	
F. Fl Shut-in	1048.0	974.0	1053.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1854.0	1778.0	1875.0	0.0	0.0	Tool Wt. 2800.00 lbs
Inside/Outside	I	I	I	I		Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 10000.00 lbs
						Initial Str Wt 74000.00 lbs
						Unseated Str Wt 84000.00 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 183.00 ft
						D.P. Length 3803.00 ft

RECOVERY

Tot Fluid 2139.00 ft of 184.00 ft in DC and 1955.00 ft in DP

120.00 ft of Gas in pipe

184.00 ft of Mud cut water with trace of oil

0.00 ft of 60% water 40% mud

1955.00 ft of Salt water

0.00 ft of 100% WATER

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 16000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow. Bottom of bucket in 1 minute.

Initial Shut-In:

No blow back.

Final Flow:

Strong blow bottom of bucket in 1 minute.

Final Shut-In:

No blow back.

SAMPLES: None

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	49.00 S/L
W.L.	9.50 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 F
Hole Condition	Good
% Porosity	16.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Brad Bortz
Co. Rep.	Tom Heflin
Contr.	Cheyenne
Rig #	12
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV-STRADDLE

WELL NAME: Frey F-6

LOCATION : 13-27s-34w Haskell co KS

TICKET No. 12498 D.S.T. No. 1 DATE 2-29-2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 15

BOTTOM PACKERS AND ANCHOR 80

TOTAL TOOL 125

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.Stands 2 Single Total 183

D.P. ABOVE TOOLS.Stands 40 Single 2 Total 3803

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4111

TOTAL DEPTH 4089

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

Fluid SAMPLER DATA

Total Vol. 4000 ML.

Total Vol. Rec. 4000 ML.

Oil 0 ML.

Mud 0 ML.

Wtr. 4000 ML.

Gas 2.0 CF.

Psi. 150

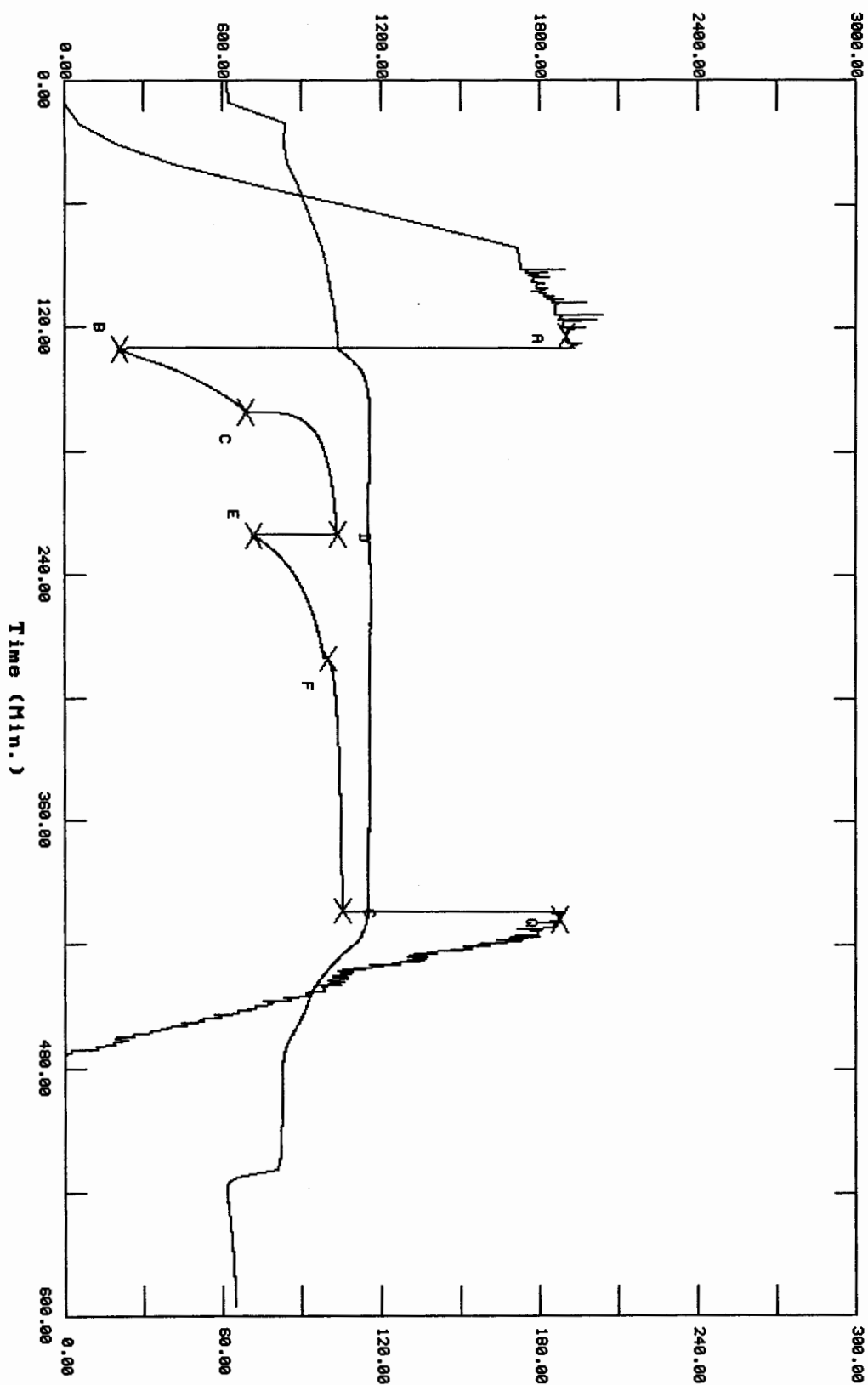
Bht. 116 F.

Rec RW. 0.66 Ohms at 45 F. 16000 PPM.

P.O. SUB Cir. sub	3874
C.O. SUB Top of tool	3964
Double pin	3965
S.I. TOOL Sterling	3970
Sampler	3973
HMV Sterling	3978
JARS Sterling	3983
SAFETY JOINT Sterling	3985
PACKER Sparton	3990
PACKER Sparton	3994
DEPTH	
1 Ft.	3995
ANCHOR ALPINE	3995
Pu. sub	4000
AK-1	4002
6 Ft. of perfs.	4006
3 FT. of Packer	4009
PACKER Sparton "Center"	4009
2 FT. Packer	4011
1 Ft co sub	4012
61 FT. Drill pipe	4073
AK-1	4086
14 FT. of perfs	4087
BULLNOSE 2 Ft. perfs.	
T.D.	4089

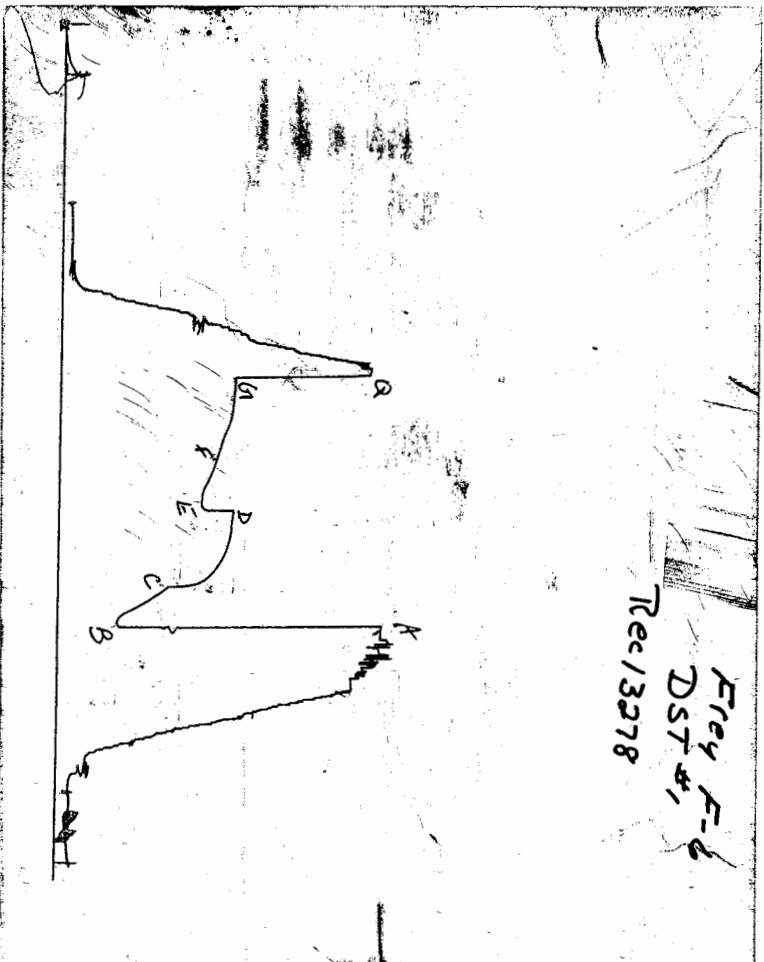
TEST HISTORY

12498 DST #1 Frey F-6 OXY-USA



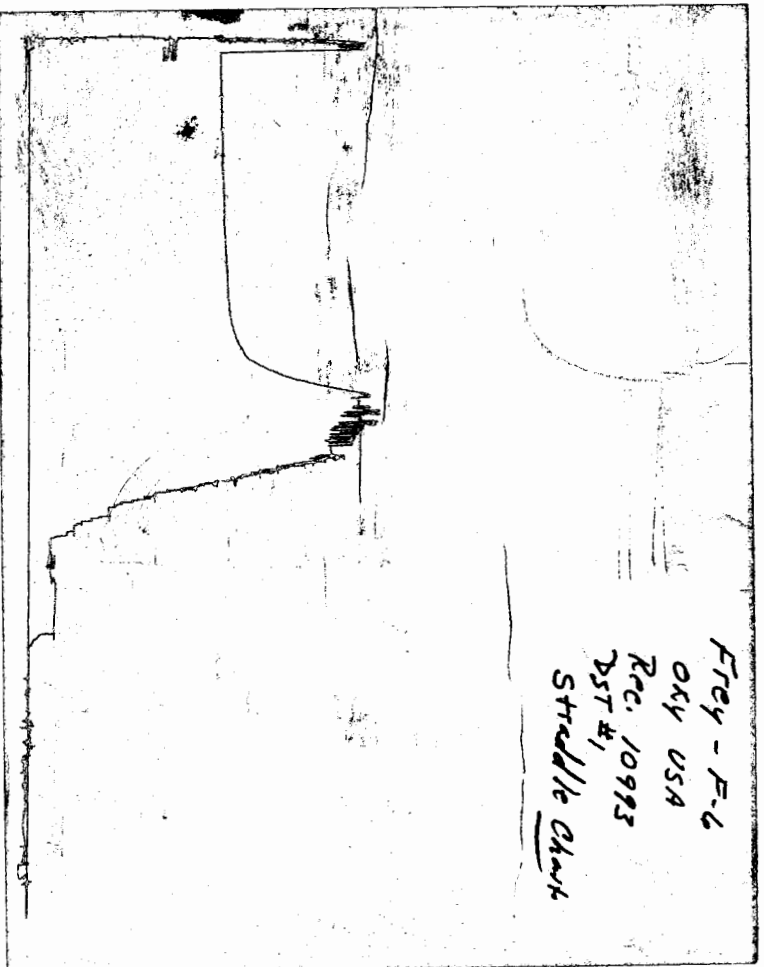
Temperature (DEG F)

CHART PAGE



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

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

FLUID SAMPLER DATA

Ticket No. 12498 Date 2-29-2000
Company Name OXY - USA
Lease Frey F-6 Test No. 1
County Haskell KS, Sec. 13 Twp. 27S Rng. 34W

SAMPLER RECOVERY

Gas 2.0 MLCF
Oil 0 ML
Mud 0 ML
Water 4,000 ML
Other — ML
Pressure 150 PSI
Total Rec 4000 ML
Total volume of sampler 4,000 ML.

SAMPLER ANALYSIS

Resistivity 0.66 ohms @ 45° F
Chlorides 16,000 ppm.
Gravity — corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 2,100 ppm.
Resistivity — ohms @ — F
Viscosity 49
Mud Weight 9.1
Filtrate 9.5
Other LCM 3#

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.
MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.
BOTTOM
Resistivity — ohms @ — F
Chlorides — ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12498

Well Name & No.	<u>Frey F-6</u>	Test No.	<u>1</u>	Date	<u>2-29-00</u>
Company	<u>Oxy-USA</u>	Zone Tested	<u>Toronto</u>		
Address	<u>P.O. Box 2528 Liberal KS, 67905</u>	Elevation	<u>2993</u>	KB	<u>2980</u> GL
Co. Rep / Geo.	<u>Tom Heplin</u>	Cont.	<u>Cheyenne 12</u>	Est. Ft. of Pay	<u>16</u> Por. <u>16</u> %
Location: Sec.	<u>13</u>	Twp.	<u>27S</u>	Rge.	<u>34W</u> Co. <u>Haskell</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>-</u>	Turnkey (Y, N)	<u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested	<u>3994 - 4009</u>	Initial Str Wt./Lbs.	<u>74,000</u>	Unseated Str Wt./Lbs.	<u>84,000</u>
Anchor Length	<u>15' tool 30' Tailpipe 80'</u>	Wt. Set Lbs.	<u>28,000</u>	Wt. Pulled Loose/Lbs.	<u>10,000</u>
Top Packer Depth	<u>3989</u>	Tool Weight	<u>2,800</u>		
Bottom Packer Depth	<u>3994</u>	<u>straddle Pack @ 4009'</u>	Hole Size — <u>7 7/8"</u>	Rubber Size	<u>6 3/4"</u>
Total Depth	<u>4089</u>	Wt. Pipe Run	<u>40 std 5-315</u>	Drill Collar Run	<u>183'</u>
Mud Wt.	<u>9.1</u> LCM <u>3rd</u> Vis. <u>49</u> WL <u>9.5</u>	Drill Pipe Size	<u>4 1/2 x 4</u>	Ft. Run	<u>3803</u> <u>22' up</u>

Blow Description Strong Blow O.B.B. in 1-min I.E.P.

No Blow back I.S.T.P.

Strong Blow O.B.B. in 1-min F.E.P.

No Blow Back F.S.T.P.

Recovery — Total Feet	<u>2139</u>	GIP	<u>120'</u>	Ft. in DC	<u>184</u>	Ft. in DP	<u>1955</u>			
Rec.	<u>184'</u>	Feet Of	<u>mud cut water w/ Trace oil</u>	%gas	<u>TAC</u>	%oil	<u>60</u>	%water	<u>40</u>	%mud
Rec.	<u>1955</u>	Feet Of	<u>Salt Water</u>	%gas		%oil	<u>100</u>	%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>114°</u>	°F Gravity	<u>-</u>	°API D@	<u>-</u>	°F Corrected Gravity	<u>-</u>	°API		
RW	<u>0.66</u>	@	<u>45</u>	°F Chlorides	<u>14,000</u>	ppm Recovery		Chlorides	<u>2,100</u>	ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	<u>1931</u>	<u>1903</u>	PSI	Recorder No.	<u>2357</u>	T-On Location	<u>10:45 AM</u>
(B) First Initial Flow Pressure	<u>352</u>	<u>206</u>	PSI	(depth)	<u>3995</u>	T-Started	<u>12:12</u> ¹⁰
(C) First Final Flow Pressure	<u>639</u>	<u>691</u>	PSI	Recorder No.	<u>13278</u>	T-Open	<u>12:22 PM</u>
(D) Initial Shut-In Pressure	<u>1037</u>	<u>1034</u>	PSI	(depth)	<u>4002</u>	T-Pulled	<u>12:52 PM</u>
(E) Second Initial Flow Pressure	<u>838</u>	<u>720</u>	PSI	Recorder No.	<u>10993</u>	T-Out	<u>20:20</u>
(F) Second Final Flow Pressure	<u>938</u>	<u>998</u>	PSI	(depth)	<u>40816</u>	T-Off Location	
(G) Final Shut-in Pressure	<u>1048</u>	<u>1053</u>	PSI	Initial Opening	<u>30</u>	Test	<u>✓</u> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1854</u>	<u>1875</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<u>✓</u> <u>200</u>
				Final Flow	<u>60</u>	Safety Joint	<u>✓</u> <u>50</u>
				Final Shut-in	<u>120</u>	Straddle	<u>✓</u> <u>250</u>
						Circ. Sub	<u>✓</u>
						Sampler	<u>✓</u> <u>200</u>
						Extra Packer	<u>✓</u> <u>150</u>
						Elec. Rec.	<u>✓</u> <u>150</u>
						Mileage	
						Other	<u>ext 2 hrs @ 30</u>
						TOTAL PRICE \$	<u>1760</u>

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Approved By David E Rice

Our Representative Brad Bry