

TRILOBITE TESTING L.L.C.

OPERATOR : OXY USA INC.

DATE 11-10-99

WELL NAME: Frey #F-2

KB 2993.00 ft TICKET NO: 12196 DST #1

LOCATION : 13-27S-34W Haskell co KS

GR 2908.00 ft FORMATION: Morrow

INTERVAL : 5079.00 To 5106.00 ft

TD 5106.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 13278  | 13278  | 3030   |     |     | PF Fr. 0035 to 0105 hr |
| SI 60 Range(Psi ) | 4500.0 | 4500.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0105 to 0205 hr |
| SF 60 Clock(hrs)  | 12HR.  | 12HR.  | Elet.  |     |     | SF Fr. 0205 to 0305 hr |
| FS 120 Depth(ft ) | 5103.0 | 5103.0 | 5082.0 | 0.0 | 0.0 | FS Fr. 0305 to 0405 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2658.0 | 2617.0 | 2601.0 | 0.0 | 0.0 | T STARTED 2230 hr             |
| B. First Flow  | 242.0  | 273.0  | 22.0   | 0.0 | 0.0 | T ON BOTM 0033 hr             |
| B1. Final Flow | 231.0  | 258.0  | 57.0   | 0.0 | 0.0 | T OPEN 0035 hr                |
| C. In Shut-in  | 1435.0 | 1438.0 | 1347.0 | 0.0 | 0.0 | T PULLED 0505 hr              |
| D. Init Flow   | 264.0  | 307.0  | 75.0   | 0.0 | 0.0 | T OUT 0815 hr                 |
| E. Final Flow  | 275.0  | 296.0  | 136.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1435.0 | 1438.0 | 1346.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2449.0 | 2461.0 | 2431.0 | 0.0 | 0.0 | Tool Wt. 1800.00 lbs          |
| Inside/Outside | O      | O      | I      |     |     | Wt Set On Packer 25000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 140000.00 lbs |
|                |        |        |        |     |     | Initial Str Wt 90000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 90000.00 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 647.00 ft         |
|                |        |        |        |     |     | D.P. Length 4419.00 ft        |

RECOVERY

Tot Fluid 200.00 ft of 200.00 ft in DC and 0.00 ft in DP  
 15100.00 ft of Gas in pipe  
 20.00 ft of Gassy Oil 60%Gas 40%Oil  
 90.00 ft of Gassy Muddy Oil 25%Gas 65%Oil 10%Mud  
 90.00 ft of Gassy muddy Oil 10%Gas 50%Oil 40%Mud  
 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 25.90

BLOW DESCRIPTION

Initial Flow:

Fair blow built to bottom of bucket  
 in 11 mins.

Initial Shut-in:

Bled off 2" had blow back built to  
 1"

Final Flow:

Fair blow bottom of bucket in 4 mins.

Final Shut-in:

Bled off 2" Had blow back built to  
 4"

SAMPLES: No

SENT TO:

MUD DATA-----

| Mud Type   | Chemical  |
|------------|-----------|
| Weight     | 9.10 lb/c |
| Vis.       | 60.00 S/L |
| W.L.       | 8.30 in3  |
| F.C.       | 0.00 in   |
| Mud Drop Y | 75.0 ft   |

|                |                 |
|----------------|-----------------|
| Amt. of fill   | 0.00 ft         |
| Btm. H. Temp.  | 121.00 F        |
| Hole Condition | Good            |
| % Porosity     | 12.00           |
| 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.       | Dave            |
| Contr.         | Cheyenne        |
| Rig #          | 12              |
| Unit #         |                 |
| Pump T.        |                 |

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Frey #F-2

LOCATION : 13-27S-34W Haskell co KS

TICKET No. 12196 D.S.T. No. 1 DATE 11-10-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 27

TOTAL TOOL ..... 57

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.Stands7 Single Total 647

D.P. ABOVE TOOLS.Stands47 Single 1 Total 4419

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5123

TOTAL DEPTH ..... 5106

TOTAL DRILL PIPE ABOVE K.B. .... 17ft.

REMARKS:

SAMPLER DATA

2.7cubic ft gas

3500ml Oil

300PSI

4000ml Total

|                     |      |
|---------------------|------|
| P.O. SUB Top tool   | 5049 |
| C.O. SUB 1ft        | 5050 |
| S.I. TOOL Sterling  | 5055 |
| 3ft sampler         | 5058 |
| HMV Sterling        | 5063 |
| JARS Sterling       | 5068 |
| SAFETY JOINT Bowens | 5070 |
| PACKER 5ft          | 5074 |
| PACKER 5ft          | 5079 |
| DEPTH               |      |
| STUBB 1ft           | 5080 |
| ANCHOR              |      |
| 2ft perf            | 5082 |
| Alpine Rec.         | 5082 |
| T.C.                |      |
| DEPTH               |      |
| 5ft p u sub         | 5087 |
| 15ft perf           | 5102 |
| AK-1 Rec.           | 5103 |
| BULLNOSE            |      |
| T.D. 4ft bullplug   | 5106 |

# TEST HISTORY

12196 DST #1 Frey #F-2 OXY USA INC.

Flag Points

t(Min.) P(PSIg)

|    |        |         |
|----|--------|---------|
| A: | 0.00   | 2602.04 |
| B: | 0.00   | 22.75   |
| C: | 30.50  | 57.52   |
| D: | 60.25  | 1347.42 |
| E: | 0.00   | 75.07   |
| F: | 59.25  | 136.57  |
| G: | 123.25 | 1346.42 |
| Q: | 0.00   | 2431.35 |

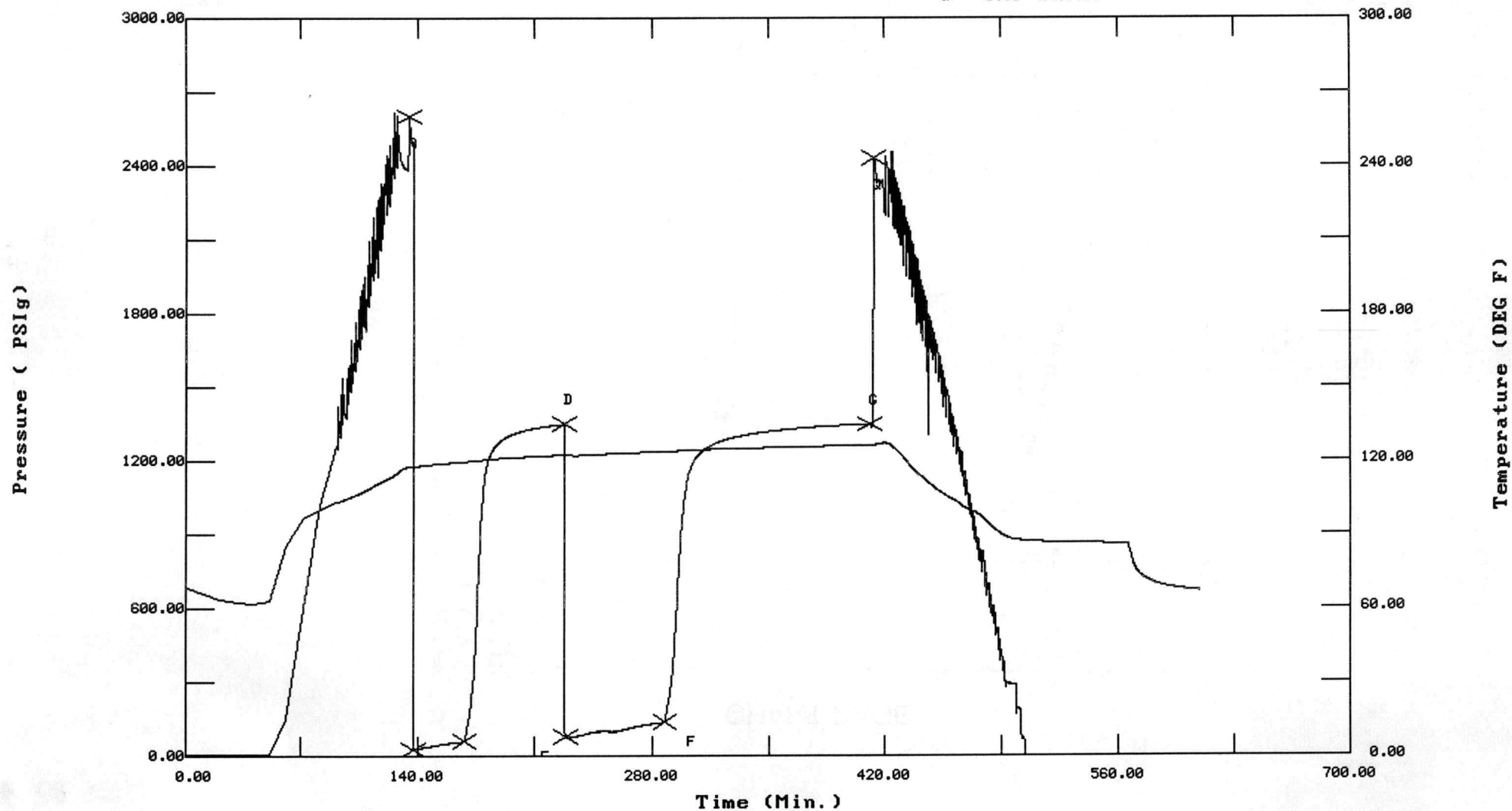
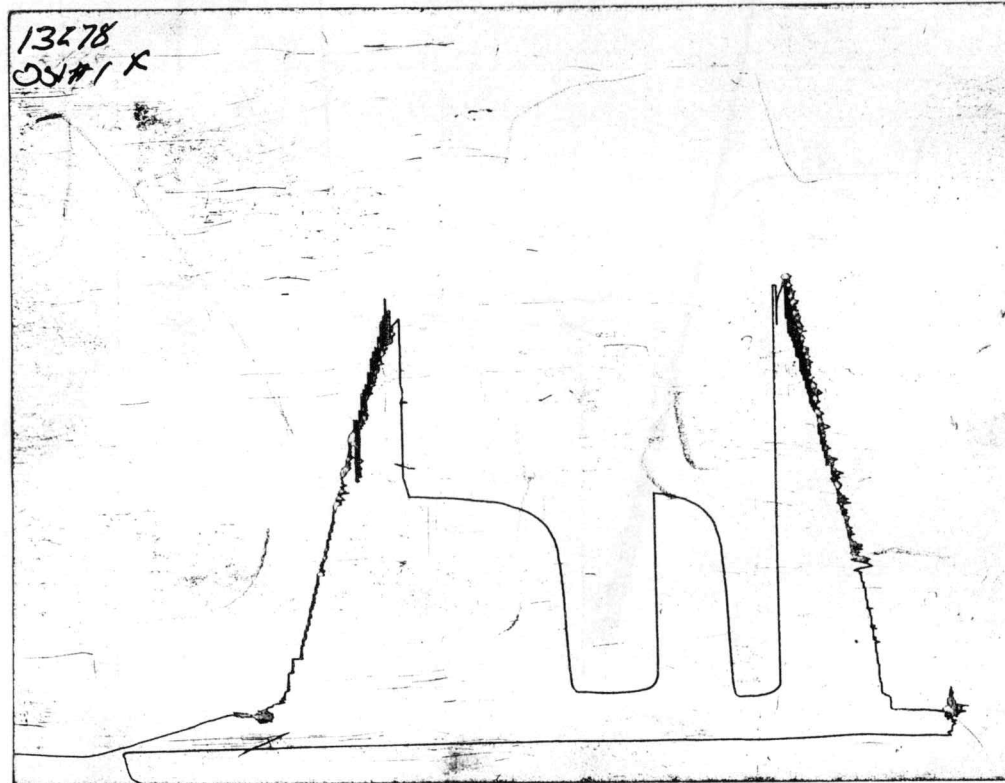


CHART PAGE



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