

WELL NAME: Helfrich #4
COMPANY: Claasen Oil & Gas Inc
LOCATION - SEC: 6 TWP: 25S RGE: 42W
COUNTY: Hamilton STATE: KS
DATE: 10/07/95

TRILOBITE TESTING L.L.C.

OPERATOR : Claassen Oil & Gas, Inc.
 WELL NAME: Helfrich #4
 LOCATION : 6-25S-42W, Hamilton Cty
 INTERVAL : 4994.00 To 5029.00 ft

DATE 10-4-95
 KB 3585.00 ft TICKET NO: 8080 DST #1
 GR 3572.00 ft FORMATION: Upper Morrrow
 TD 5029.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|-------------------|--------|--------|-----|-----|-----|------------------------|
| PF 15 Rec. | 2342 | 13339 | | | | PF Fr. 0930 to 0945 hr |
| SI 30 Range(Psi) | 4995.0 | 4025.0 | 0.0 | 0.0 | 0.0 | IS Fr. 0945 to 1015 hr |
| SF 30 Clock(hrs) | Elec. | 23934 | | | | SF Fr. 1015 to 1045 hr |
| FS 60 Depth(ft) | 4496.0 | 5024.0 | 0.0 | 0.0 | 0.0 | FS Fr. 1045 to 1145 hr |

| | Field | 1 | 2 | 3 | 4 | |
|----------------|--------|-----|-----|-----|-----|-------------------------------|
| A. Init Hydro | 2435.0 | 0.0 | 0.0 | 0.0 | 0.0 | T STARTED 0650 hr |
| B. First Flow | 19.0 | 0.0 | 0.0 | 0.0 | 0.0 | T ON BOTM 0920 hr |
| B1. Final Flow | 22.0 | 0.0 | 0.0 | 0.0 | 0.0 | T OPEN 0930 hr |
| C. In Shut-in | 38.0 | 0.0 | 0.0 | 0.0 | 0.0 | T PULLED 1145 hr |
| D. Init Flow | 26.0 | 0.0 | 0.0 | 0.0 | 0.0 | T OUT 1430 hr |
| E. Final Flow | 35.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| F. Fl Shut-in | 47.0 | 0.0 | 0.0 | 0.0 | 0.0 | TOOL DATA----- |
| G. Final Hydro | 2282.0 | 0.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 2000.00 lbs |
| Inside/Outside | I | O | | | | Wt Set On Packer 30000.00 lbs |
| | | | | | | Wt Pulled Loose 92000.00 lbs |
| | | | | | | Initial Str Wt 70000.00 lbs |
| | | | | | | Unseated Str Wt 70000.00 lbs |
| | | | | | | Bot Choke 0.75 in |
| | | | | | | Hole Size 7.88 in |
| | | | | | | D Col. ID 2.25 in |
| | | | | | | D. Pipe ID 3.70 in |
| | | | | | | D.C. Length 548.00 ft |
| | | | | | | D.P. Length 4428.00 ft |

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 10.00 ft of Drilling Mud

RW .25 @ 70 F

SALINITY 28500.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Weak surface blow died in 6 mins.

Final Blow -
 No return blow

MUD DATA-----

| Mud Type | Chemical |
|----------------|----------------|
| Weight | 9.30 lb/c |
| Vis. | 43.00 S/L |
| W.L. | 10.80 in3 |
| F.C. | 0.00 in |
| Mud Drop N | |
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 121.00 F |
| Hole Condition | Good |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 2 |
| Cushion Amt. | 0.00 |
| Cushion Type | |
| Reversed Out N | |
| Tool Chased N | |
| Tester | Rod Steinbrink |
| Co. Rep. | Dan Claassen |
| Contr. | Allen Drlg. |
| Rig # | #5 |
| Unit # | |
| Pump T. | |

SAMPLES:
 SENT TO:

Test Successful: Y

TEST HISTORY

8088 Helfrich #4 Claassen Oil DST #1

Flag Points

| Flag | Time (Min.) | Pressure (PSig) |
|------|-------------|-----------------|
| R1 | 0.00 | 2435.07 |
| B1 | 0.00 | 19.04 |
| C1 | 22.00 | 21.90 |
| D1 | 33.00 | 38.26 |
| E1 | 0.00 | 28.18 |
| F1 | 30.00 | 35.66 |
| G1 | 57.00 | 47.16 |
| Q1 | 0.00 | 2282.74 |

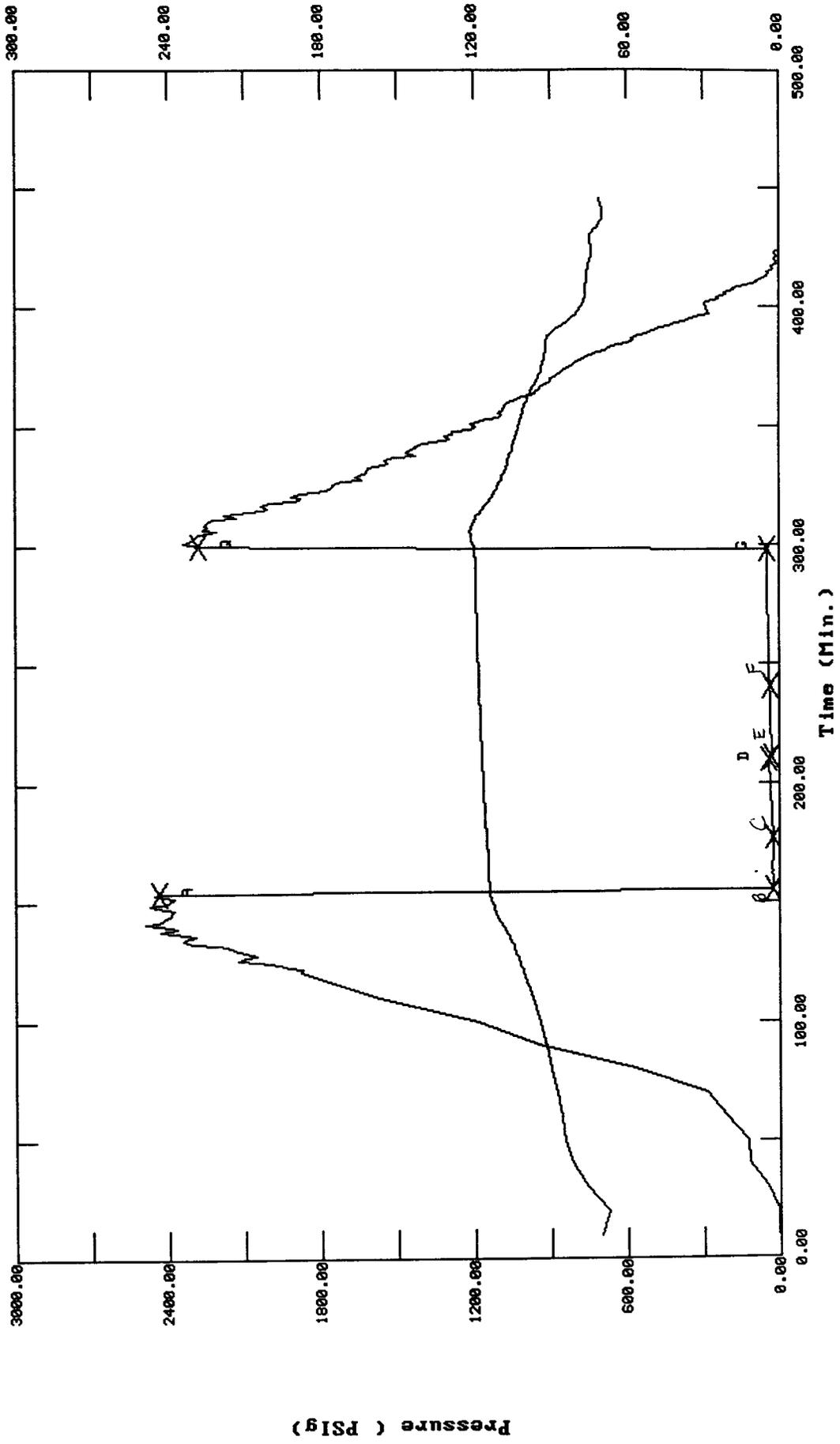
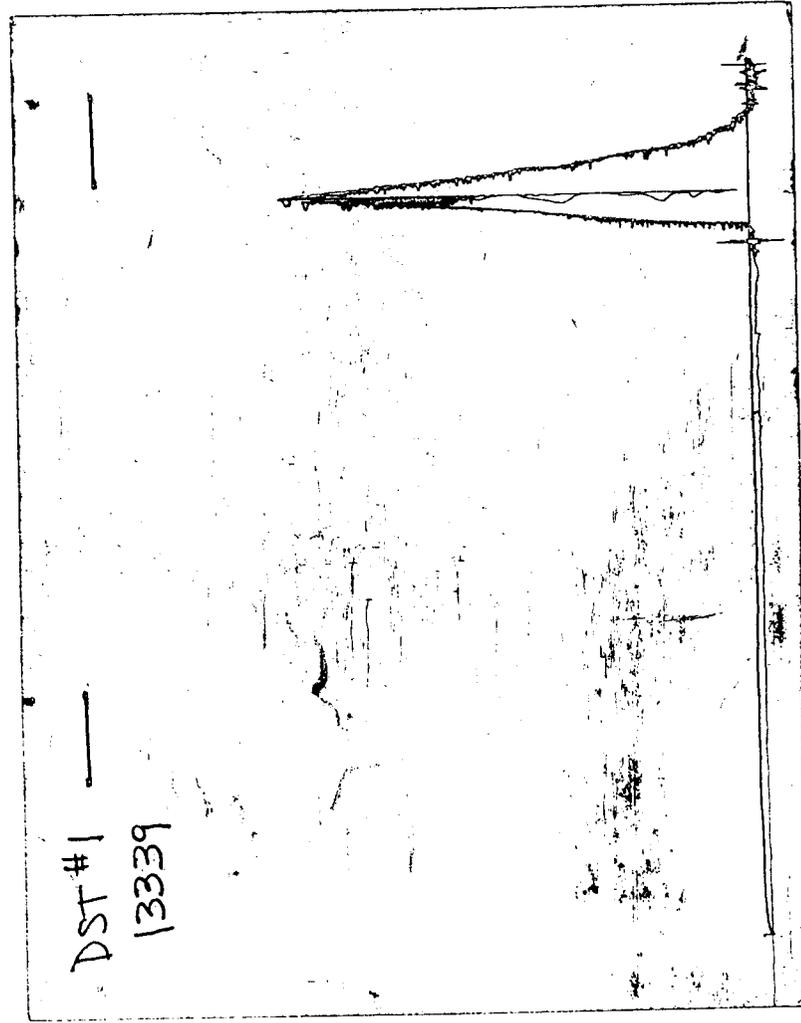


CHART PAGE



This is an actual photograph of recorder chart

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8080 Helfrich #4 Claassen Oil DST #1

DATE: 10/04/95

TIME: 05:52:43

| | Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P ² /10 ⁶ |
|----------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Initial Hydro. | 154.00 | 2435.1 | 0.0 | 113.95 | | |
| ***** Start Flow 1 | 0.00 | 19.0 | 0.0 | 114.04 | | |
| | 1.00 | 20.7 | 1.7 | 114.14 | | |
| | 2.00 | 20.8 | 1.8 | 114.19 | | |
| | 3.00 | 21.1 | 2.0 | 114.21 | | |
| | 4.00 | 21.1 | 2.0 | 114.22 | | |
| | 5.00 | 21.0 | 1.9 | 114.24 | | |
| | 6.00 | 24.2 | 5.1 | 114.25 | | |
| | 7.00 | 26.8 | 7.8 | 114.28 | | |
| | 8.00 | 24.4 | 5.4 | 114.31 | | |
| | 9.00 | 26.6 | 7.6 | 114.33 | | |
| | 10.00 | 27.8 | 8.7 | 114.37 | | |
| | 11.00 | 29.8 | 10.7 | 114.43 | | |
| | 12.00 | 21.7 | 2.7 | 114.47 | | |
| | 13.00 | 21.8 | 2.8 | 114.53 | | |
| | 14.00 | 21.8 | 2.8 | 114.57 | | |
| | 15.00 | 22.5 | 3.4 | 114.62 | | |
| | 16.00 | 21.6 | 2.6 | 114.68 | | |
| | 17.00 | 22.1 | 3.0 | 114.75 | | |
| | 18.00 | 22.3 | 3.3 | 114.81 | | |
| | 19.00 | 22.0 | 2.9 | 114.88 | | |
| | 20.00 | 22.4 | 3.4 | 114.95 | | |
| | 21.00 | 22.1 | 3.0 | 115.03 | | |
| ***** End Flow 1 | 22.00 | 21.9 | 2.9 | 115.09 | | |
| ***** Start Shutin 1 | 0.00 | 21.9 | 0.0 | 115.09 | 0.0000 | 0.000 |
| | 1.00 | 22.7 | 0.8 | 115.16 | 23.0000 | 0.001 |
| | 2.00 | 23.4 | 1.5 | 115.23 | 12.0000 | 0.001 |
| | 3.00 | 24.0 | 2.1 | 115.30 | 8.3333 | 0.001 |
| | 4.00 | 24.6 | 2.7 | 115.37 | 6.5000 | 0.001 |
| | 5.00 | 25.2 | 3.3 | 115.44 | 5.4000 | 0.001 |
| | 6.00 | 25.8 | 3.9 | 115.50 | 4.6667 | 0.001 |
| | 7.00 | 26.3 | 4.4 | 115.56 | 4.1429 | 0.001 |
| | 8.00 | 26.9 | 5.0 | 115.62 | 3.7500 | 0.001 |
| | 9.00 | 27.5 | 5.6 | 115.68 | 3.4444 | 0.001 |
| | 10.00 | 28.1 | 6.2 | 115.74 | 3.2000 | 0.001 |
| | 11.00 | 28.7 | 6.8 | 115.79 | 3.0000 | 0.001 |
| | 12.00 | 29.2 | 7.3 | 115.85 | 2.8333 | 0.001 |
| | 13.00 | 29.6 | 7.7 | 115.90 | 2.6923 | 0.001 |
| | 14.00 | 30.1 | 8.2 | 115.95 | 2.5714 | 0.001 |
| | 15.00 | 30.6 | 8.7 | 116.01 | 2.4667 | 0.001 |
| | 16.00 | 31.2 | 9.3 | 116.05 | 2.3750 | 0.001 |
| | 17.00 | 31.6 | 9.7 | 116.10 | 2.2941 | 0.001 |
| | 18.00 | 32.2 | 10.3 | 116.15 | 2.2222 | 0.001 |
| | 19.00 | 32.7 | 10.8 | 116.20 | 2.1579 | 0.001 |
| | 20.00 | 33.2 | 11.3 | 116.25 | 2.1000 | 0.001 |
| | 21.00 | 33.6 | 11.7 | 116.30 | 2.0476 | 0.001 |
| | 22.00 | 34.2 | 12.3 | 116.34 | 2.0000 | 0.001 |
| | 23.00 | 34.7 | 12.8 | 116.38 | 1.9565 | 0.001 |
| | 24.00 | 35.0 | 13.1 | 116.43 | 1.9167 | 0.001 |
| | 25.00 | 35.5 | 13.6 | 116.48 | 1.8800 | 0.001 |
| | 26.00 | 35.9 | 14.0 | 116.52 | 1.8462 | 0.001 |

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8080 Helfrich #4 Claassen Oil DST #1

DATE: 10/04/95 TIME: 05:52:43

| | Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|-------|------------------|-----------------|----------------|-----------|----------|
| | 27.00 | 36.3 | 14.4 | 116.56 | 1.8148 | 0.001 |
| | 28.00 | 36.8 | 14.9 | 116.61 | 1.7857 | 0.001 |
| | 29.00 | 37.3 | 15.4 | 116.64 | 1.7586 | 0.001 |
| | 30.00 | 37.7 | 15.8 | 116.69 | 1.7333 | 0.001 |
| | 31.00 | 38.1 | 16.2 | 116.74 | 1.7097 | 0.001 |
| | 32.00 | 38.6 | 16.7 | 116.77 | 1.6875 | 0.001 |
| ***** End Shut-in 1 | 33.00 | 38.3 | 16.4 | 116.82 | 1.6667 | 0.001 |
| ***** Start Flow 2 | 0.00 | 26.2 | 0.0 | 116.85 | | |
| | 1.00 | 27.0 | 0.8 | 116.91 | | |
| | 2.00 | 27.6 | 1.4 | 116.96 | | |
| | 3.00 | 28.1 | 1.9 | 117.01 | | |
| | 4.00 | 28.4 | 2.3 | 117.06 | | |
| | 5.00 | 28.9 | 2.8 | 117.12 | | |
| | 6.00 | 29.5 | 3.3 | 117.16 | | |
| | 7.00 | 29.8 | 3.6 | 117.21 | | |
| | 8.00 | 30.2 | 4.0 | 117.26 | | |
| | 9.00 | 30.6 | 4.4 | 117.30 | | |
| | 10.00 | 31.0 | 4.9 | 117.35 | | |
| | 11.00 | 31.4 | 5.2 | 117.39 | | |
| | 12.00 | 31.8 | 5.6 | 117.43 | | |
| | 13.00 | 32.2 | 6.0 | 117.47 | | |
| | 14.00 | 32.6 | 6.4 | 117.50 | | |
| | 15.00 | 32.9 | 6.7 | 117.54 | | |
| | 16.00 | 33.1 | 7.0 | 117.58 | | |
| | 17.00 | 33.5 | 7.3 | 117.62 | | |
| | 18.00 | 33.8 | 7.6 | 117.66 | | |
| | 19.00 | 34.2 | 8.1 | 117.70 | | |
| | 20.00 | 34.2 | 8.1 | 117.73 | | |
| | 21.00 | 34.5 | 8.3 | 117.76 | | |
| | 22.00 | 34.8 | 8.6 | 117.80 | | |
| | 23.00 | 35.2 | 9.0 | 117.84 | | |
| | 24.00 | 35.5 | 9.3 | 117.88 | | |
| | 25.00 | 35.7 | 9.6 | 117.90 | | |
| | 26.00 | 36.1 | 9.9 | 117.94 | | |
| | 27.00 | 36.3 | 10.2 | 117.98 | | |
| | 28.00 | 36.7 | 10.5 | 118.02 | | |
| | 29.00 | 36.9 | 10.7 | 118.04 | | |
| ***** End Flow 2 | 30.00 | 35.7 | 9.5 | 118.08 | | |
| ***** Start Shutin 2 | 0.00 | 35.7 | 0.0 | 118.08 | 0.0000 | 0.001 |
| | 1.00 | 36.0 | 0.3 | 118.12 | 53.0000 | 0.001 |
| | 2.00 | 36.3 | 0.7 | 118.15 | 27.0000 | 0.001 |
| | 3.00 | 36.7 | 1.0 | 118.19 | 18.3333 | 0.001 |
| | 4.00 | 36.9 | 1.3 | 118.22 | 14.0000 | 0.001 |
| | 5.00 | 37.2 | 1.5 | 118.25 | 11.4000 | 0.001 |
| | 6.00 | 37.5 | 1.8 | 118.29 | 9.6667 | 0.001 |
| | 7.00 | 37.8 | 2.1 | 118.32 | 8.4286 | 0.001 |
| | 8.00 | 38.0 | 2.3 | 118.35 | 7.5000 | 0.001 |
| | 9.00 | 38.3 | 2.6 | 118.38 | 6.7778 | 0.001 |
| | 10.00 | 38.5 | 2.9 | 118.40 | 6.2000 | 0.001 |
| | 11.00 | 38.8 | 3.1 | 118.43 | 5.7273 | 0.002 |
| | 12.00 | 38.9 | 3.3 | 118.45 | 5.3333 | 0.002 |

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8080 Helfrich #4 Claassen Oil DST #1

DATE: 10/04/95 TIME: 05:52:43

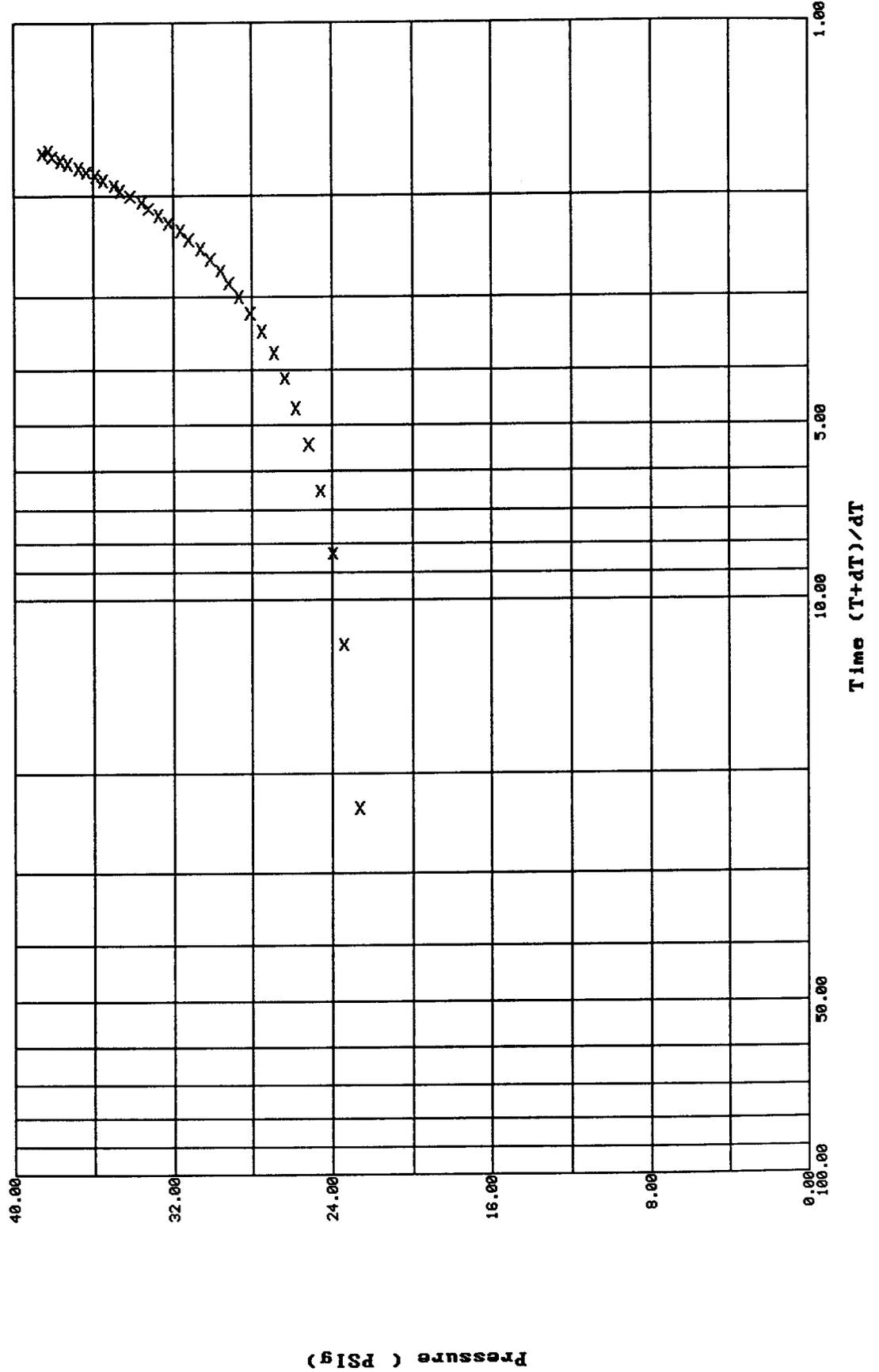
| Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P ² /10 ⁶ |
|-------|------------------|-----------------|----------------|-----------|---------------------------------|
| 13.00 | 39.1 | 3.4 | 118.49 | 5.0000 | 0.002 |
| 14.00 | 39.4 | 3.7 | 118.52 | 4.7143 | 0.002 |
| 15.00 | 39.6 | 3.9 | 118.55 | 4.4667 | 0.002 |
| 16.00 | 39.8 | 4.1 | 118.58 | 4.2500 | 0.002 |
| 17.00 | 40.0 | 4.4 | 118.61 | 4.0588 | 0.002 |
| 18.00 | 40.3 | 4.6 | 118.65 | 3.8889 | 0.002 |
| 19.00 | 40.5 | 4.9 | 118.67 | 3.7368 | 0.002 |
| 20.00 | 40.7 | 5.0 | 118.70 | 3.6000 | 0.002 |
| 21.00 | 40.9 | 5.3 | 118.73 | 3.4762 | 0.002 |
| 22.00 | 41.0 | 5.4 | 118.75 | 3.3636 | 0.002 |
| 23.00 | 41.3 | 5.6 | 118.79 | 3.2609 | 0.002 |
| 24.00 | 41.5 | 5.9 | 118.82 | 3.1667 | 0.002 |
| 25.00 | 41.7 | 6.0 | 118.84 | 3.0800 | 0.002 |
| 26.00 | 42.0 | 6.3 | 118.88 | 3.0000 | 0.002 |
| 27.00 | 42.1 | 6.5 | 118.90 | 2.9259 | 0.002 |
| 28.00 | 42.4 | 6.7 | 118.93 | 2.8571 | 0.002 |
| 29.00 | 42.5 | 6.9 | 118.96 | 2.7931 | 0.002 |
| 30.00 | 42.8 | 7.1 | 118.99 | 2.7333 | 0.002 |
| 31.00 | 43.0 | 7.4 | 119.02 | 2.6774 | 0.002 |
| 32.00 | 43.1 | 7.5 | 119.04 | 2.6250 | 0.002 |
| 33.00 | 43.4 | 7.7 | 119.07 | 2.5758 | 0.002 |
| 34.00 | 43.6 | 8.0 | 119.10 | 2.5294 | 0.002 |
| 35.00 | 43.8 | 8.1 | 119.13 | 2.4857 | 0.002 |
| 36.00 | 44.0 | 8.3 | 119.16 | 2.4444 | 0.002 |
| 37.00 | 44.1 | 8.4 | 119.18 | 2.4054 | 0.002 |
| 38.00 | 44.3 | 8.6 | 119.21 | 2.3684 | 0.002 |
| 39.00 | 44.5 | 8.8 | 119.24 | 2.3333 | 0.002 |
| 40.00 | 44.6 | 8.9 | 119.27 | 2.3000 | 0.002 |
| 41.00 | 44.6 | 9.0 | 119.29 | 2.2683 | 0.002 |
| 42.00 | 44.8 | 9.1 | 119.32 | 2.2381 | 0.002 |
| 43.00 | 45.0 | 9.3 | 119.35 | 2.2093 | 0.002 |
| 44.00 | 45.2 | 9.6 | 119.37 | 2.1818 | 0.002 |
| 45.00 | 45.4 | 9.7 | 119.40 | 2.1556 | 0.002 |
| 46.00 | 45.6 | 9.9 | 119.43 | 2.1304 | 0.002 |
| 47.00 | 45.8 | 10.1 | 119.46 | 2.1064 | 0.002 |
| 48.00 | 45.8 | 10.1 | 119.48 | 2.0833 | 0.002 |
| 49.00 | 45.9 | 10.2 | 119.50 | 2.0612 | 0.002 |
| 50.00 | 46.0 | 10.3 | 119.53 | 2.0400 | 0.002 |
| 51.00 | 46.2 | 10.5 | 119.55 | 2.0196 | 0.002 |
| 52.00 | 46.4 | 10.7 | 119.57 | 2.0000 | 0.002 |
| 53.00 | 46.7 | 11.0 | 119.60 | 1.9811 | 0.002 |
| 54.00 | 46.8 | 11.2 | 119.62 | 1.9630 | 0.002 |
| 55.00 | 46.9 | 11.2 | 119.64 | 1.9455 | 0.002 |
| 56.00 | 47.1 | 11.4 | 119.66 | 1.9286 | 0.002 |
| 57.00 | 47.2 | 11.5 | 119.69 | 1.9123 | 0.002 |

***** End Shut-in 2

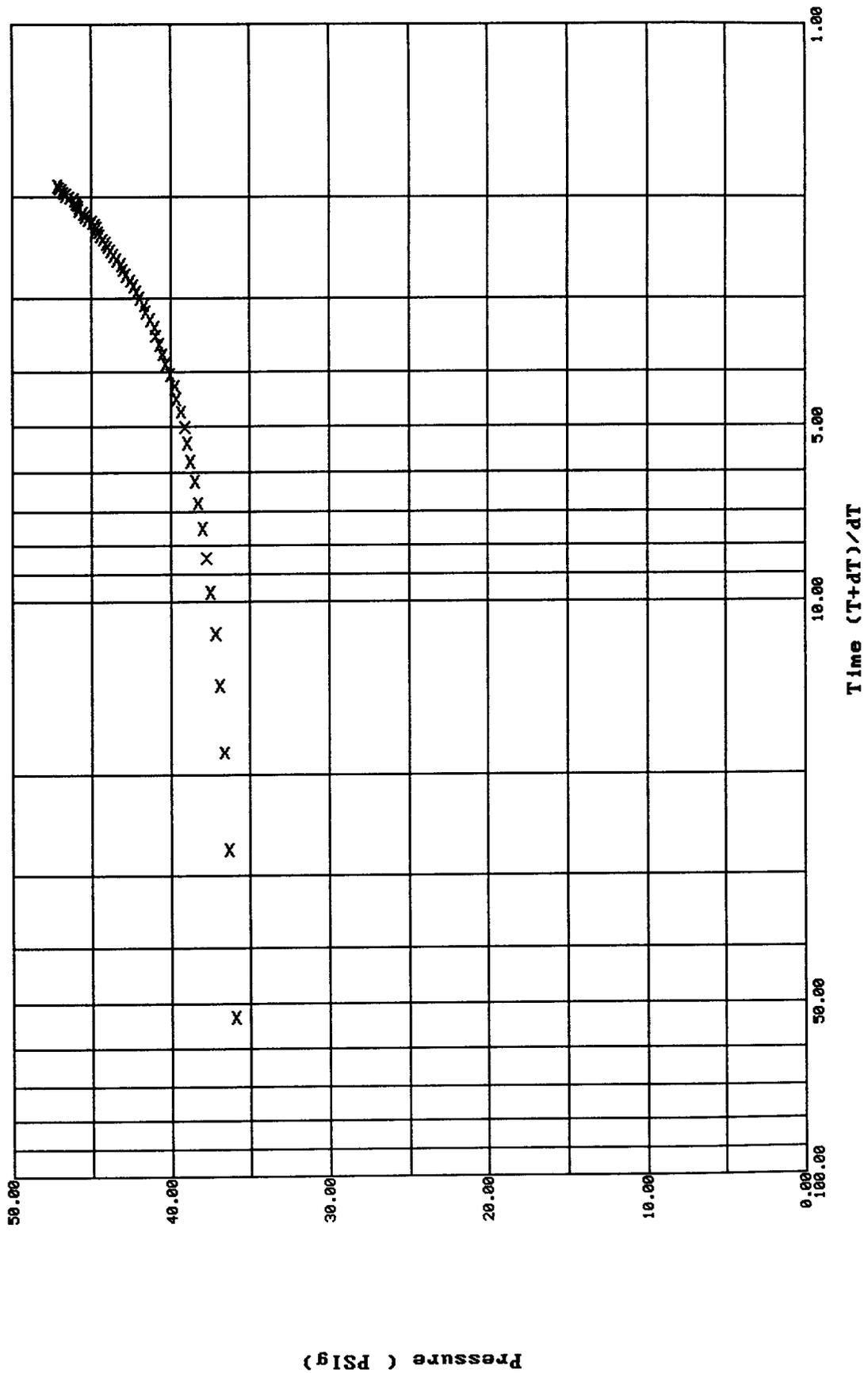
***** Final Hydro. 300.00 2282.7 0.0 120.19

Horner Plot: shut-in #1

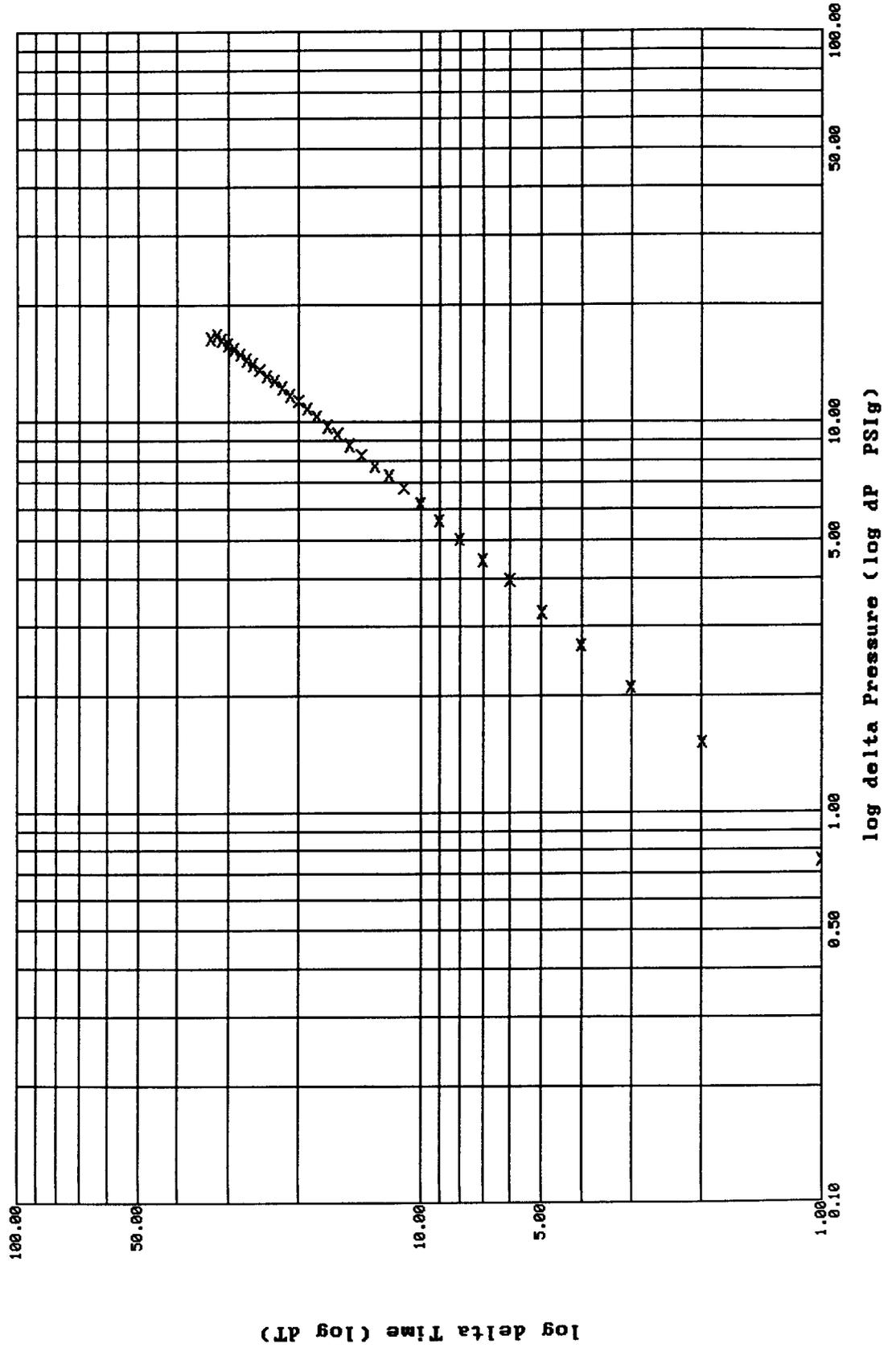
8080 Helfrich #4 Claassen Oil DST #1



Horner Plot: shut-in #2
 8080 Helfrich #4 Claassen Oil DST #1

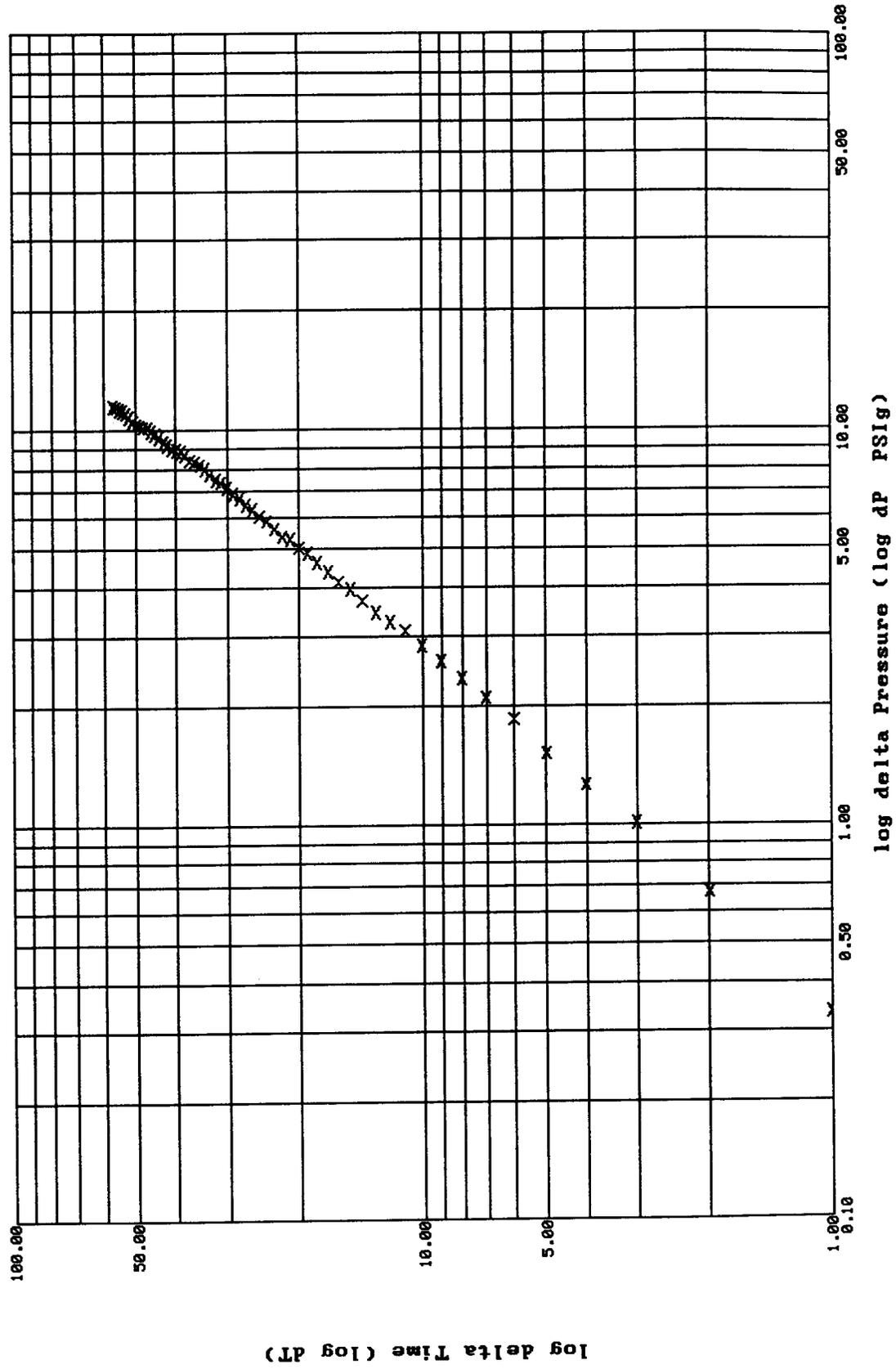


McKinley Plot: shut-in #1
8000 Helfrich #4 Claassen Oil DST #1



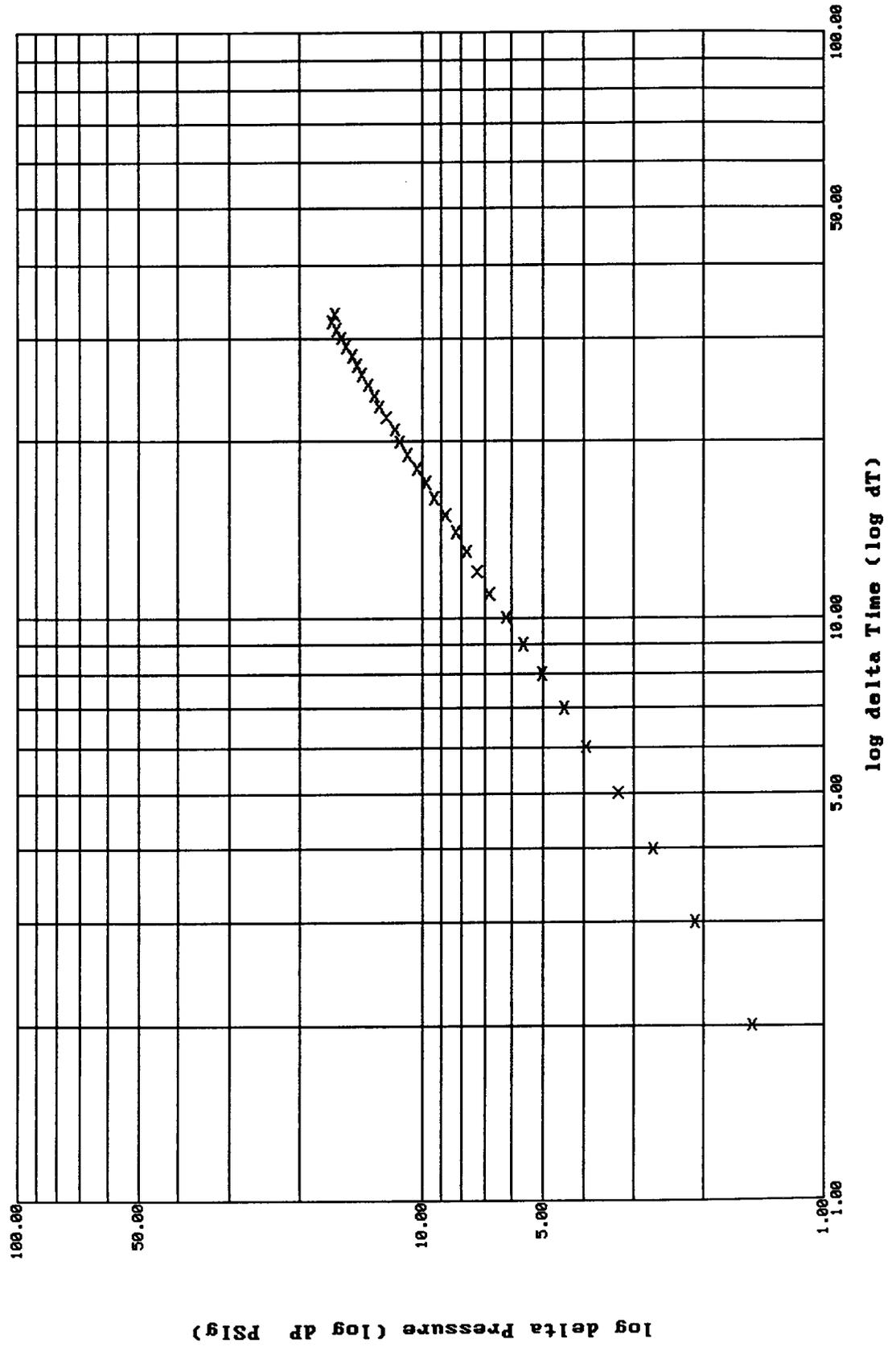
McKinley Plot: shut-in #2

8888 Helfrich #4 Classen Oil DST #1



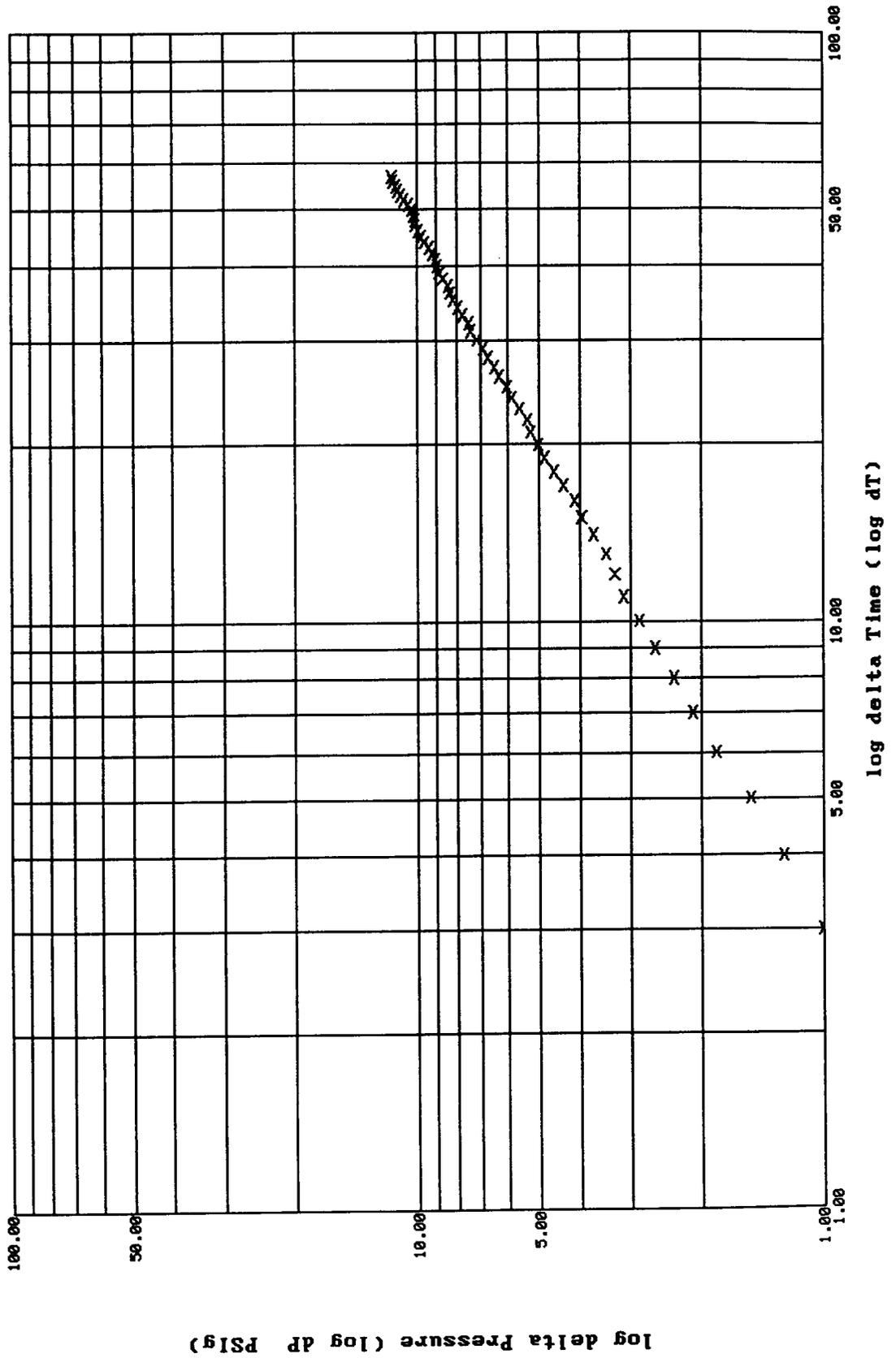
Ramey Plot: shut-in #1

8088 Helfrich #4 Claassen Oil DST #1



Ramey Plot: shut-in #2

8088 Helfrich #4 Claassen Oil DST #1



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Helfrich #4

LOCATION : 6-25S-42W, Hamilton Cty

TICKET No. 8080 D.S.T. No. 1 DATE 10-4-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 35

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single 9 Total

D.P. ANCHOR STND.Stands Single 72 Total 1

TOTAL ASSEMBLY 4428

D.C. ABOVE TOOLS.Stands504 Single 502 Total

D.P. ABOVE TOOLS.Stands Single Total

TOTAL DRILL COLLARS DRILL PIPE & TOOLS ..

TOTAL DEPTH

TOTAL DRILL PIPE ABOVE K.B.

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Mud 4000 ml, Pressure 20 PSI, Total 4000 ml

SAMPLER ANALYSIS -

Resist .25 ohms @ 70 F; Chlorides 28500 ppm

PIT MUD ANALYSIS -

Chlorides 28500 ppm; Resist .25 ohms @ 70 F
Vis 43, Mud Wt 9.3, Filt 10.8, LCM 2#/bbl

PIPE RECOVERY - Bottom -

Resist .25 ohms @ 70 F; Chlorides 28500 ppm

| | |
|------------------------|------|
| P.O. SUB 120'D.C. & 1' | 4842 |
| C.O. SUB 1' | 4963 |
| S.I. TOOL 5' | 4964 |
| Sampler 3' | 4969 |
| HMV 5' | 4972 |
| JARS 5' | 4977 |
| SAFETY JOINT 2' | 4982 |
| PACKER 5' | 4984 |
| PACKER 5' | 4989 |
| DEPTH 4994 | |
| STUBB 1' | 4995 |
| ANCHOR | |
| 29' Perf. Anchor | 4995 |
| Elec. Rec. @ | 4996 |
| T.C. | |
| DEPTH | |
| BULLNOSE | |
| T.D. 5' AK-1 Rec. | 5024 |

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8080 Date 10.4.95
Company Name Claassen Oil & Gas. Cont. Allen #5
Lease Helfrich #4 Test No. 1 Upper Morrow
County Hamilton KS. Sec. 6 Twp. 25^S Rng. 42^W

SAMPLER RECOVERY

Gas — ML
Oil — ML
Mud 4,000 ML
Water — ML
Other — ML
Pressure 20[#] PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 28,500 ppm.
Resistivity .25 ohms @ 70° F
Viscosity 43
Mud Weight 9.3
Filtrate 10.8
Other LCM 2[#]/bbl.

SAMPLER ANALYSIS

Resistivity .25 ohms @ 70° F
Chlorides 28,500 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity .25 ohms @ 70° F
Chlorides 28,500 ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Claassen Oil & Gas
 WELL NAME: Helfrich #4
 LOCATION : 6-25S-42W, Hamilton KS
 INTERVAL : 4994.00 To 5043.00 ft

DATE 10-5-95
 KB 3585.00 ft
 GR 3572.00 ft
 TD 5043.00 ft

TICKET NO: 8081
 FORMATION: Morrow
 TEST TYPE: CONVENTIONAL

DST #2

RECORDER DATA

| Mins | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|------------------|--------|--------|--------|-----|-----|------------------------|
| PF 15 Rec. | 13339 | 13339 | 2342 | | | PF Fr. 0515 to 0530 hr |
| SI 30 Range(Psi) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 0530 to 0600 hr |
| SF 30 Clock(hrs) | AK-1 | AK-1 | Alpin | | | SF Fr. 0600 to 0630 hr |
| FS 60 Depth(ft) | 5038.0 | 5038.0 | 4996.0 | 0.0 | 0.0 | FS Fr. 0630 to 0730 hr |

| | Field | 1 | 2 | 3 | 4 | |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro | 2373.0 | 2442.0 | 2435.0 | 0.0 | 0.0 | T STARTED 0205 hr |
| B. First Flow | 31.0 | 56.0 | 32.0 | 0.0 | 0.0 | T ON BOTM 0510 hr |
| B1. Final Flow | 31.0 | 54.0 | 29.0 | 0.0 | 0.0 | T OPEN 0515 hr |
| C. In Shut-in | 72.0 | 108.0 | 115.0 | 0.0 | 0.0 | T PULLED 0730 hr |
| D. Init Flow | 31.0 | 52.0 | 30.0 | 0.0 | 0.0 | T OUT 1000 hr |
| E. Final Flow | 31.0 | 52.0 | 30.0 | 0.0 | 0.0 | |
| F. Fl Shut-in | 83.0 | 116.0 | 114.0 | 0.0 | 0.0 | TOOL DATA----- |
| G. Final Hydro | 2323.0 | 2330.0 | 2232.0 | 0.0 | 0.0 | Tool Wt. 2000.00 lbs |
| Inside/Outside | 0 | 0 | 0 | | | Wt Set On Packer 30000.00 lbs |
| | | | | | | Wt Pulled Loose 110000.00 lbs |
| | | | | | | Initial Str Wt 70000.00 lbs |
| | | | | | | Unseated Str Wt 70000.00 lbs |
| | | | | | | Bot Choke 0.75 in |
| | | | | | | Hole Size 8.88 in |
| | | | | | | D Col. ID 2.25 in |
| | | | | | | D. Pipe ID 3.70 in |
| | | | | | | D.C. Length 548.00 ft |
| | | | | | | D.P. Length 4428.00 ft |

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
 5.00 ft of Drilling Mud

RW .23 @ 65 F

SALINITY 34000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Weak surface blow died in 8 mins.

Final Blow -
 No return blow

Est Ft of Pay - 5'

SAMPLES:
 SENT TO:

MUD DATA-----

| | |
|----------------|----------------|
| Mud Type | Chemical |
| Weight | 9.40 lb/c |
| Vis. | 41.00 S/L |
| W.L. | 14.40 in3 |
| F.C. | 0.00 in |
| Mud Drop N | |
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 118.00 F |
| Hole Condition | Good |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 2 |
| Cushion Amt. | 0.00 |
| Cushion Type | |
| Reversed Out N | |
| Tool Chased N | |
| Tester | Rod Steinbrink |
| Co. Rep. | Dan Claassen |
| Contr. | Allen |
| Rig # | #5 |
| Unit # | |
| Pump T. | |

Test Successful: Y

TEST HISTORY

8081 Helfrich #4 Claassen Oil DST #2

Flag Points

t (Min.) P (PSig)

| | | |
|----|-------|---------|
| A: | 0.00 | 2435.24 |
| B: | 0.00 | 31.72 |
| C: | 17.00 | 29.11 |
| D: | 28.00 | 114.72 |
| E: | 0.00 | 38.37 |
| F: | 30.00 | 29.95 |
| G: | 60.00 | 113.97 |
| H: | 0.00 | 2232.05 |

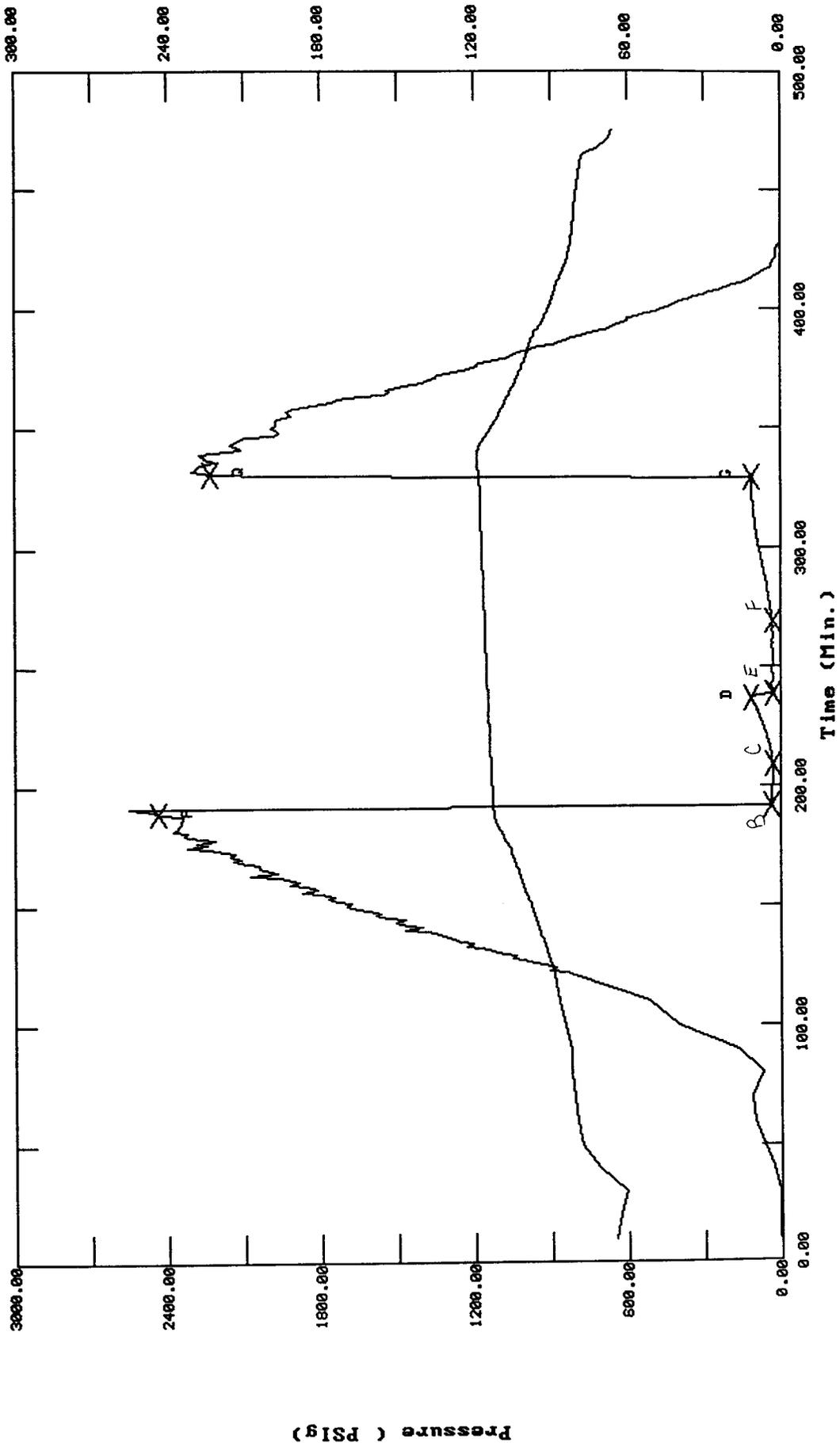
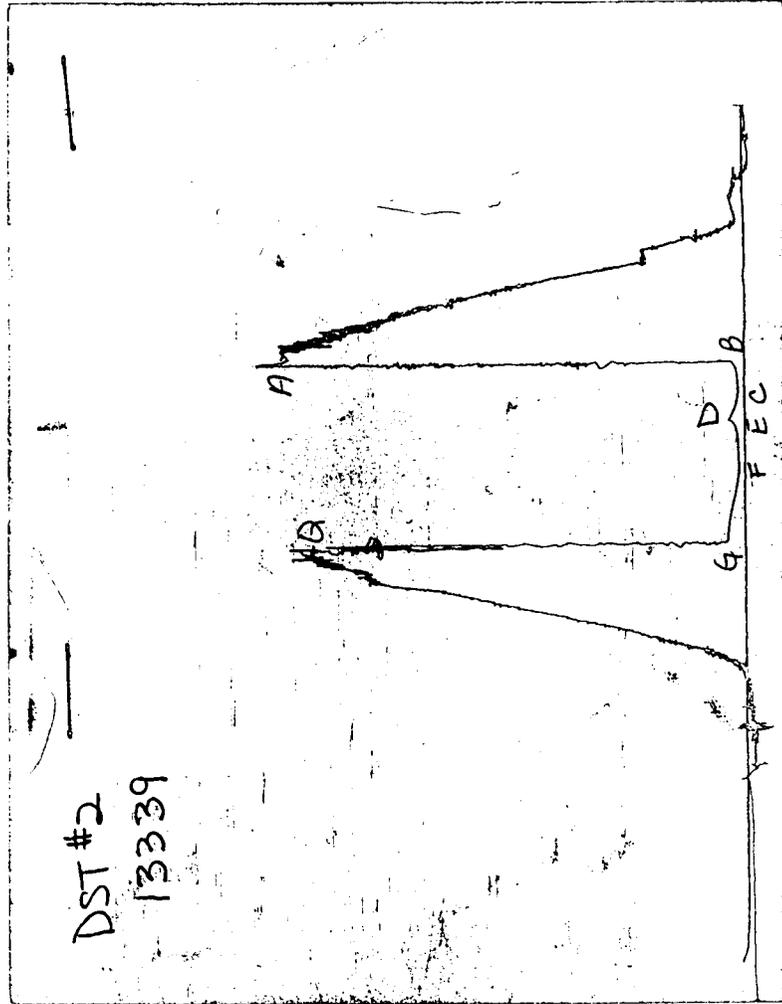


CHART PAGE



This is an actual photograph of recorder chart

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8081 Helfrich #4 Claassen Oil DST #2

DATE: 10/05/95

TIME: 01:05:54

| | Time | Pressure PSig | delta P PSig | Temp. DEG F | (T+dT)/dT | P ² /10 ⁶ |
|----------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Initial Hydro. | 189.00 | 2435.2 | 0.0 | 112.21 | | |
| ***** Start Flow 1 | 0.00 | 31.7 | 0.0 | 112.62 | | |
| | 1.00 | 32.3 | 0.6 | 112.70 | | |
| | 2.00 | 32.6 | 0.8 | 112.76 | | |
| | 3.00 | 32.6 | 0.8 | 112.80 | | |
| | 4.00 | 32.5 | 0.8 | 112.84 | | |
| | 5.00 | 32.5 | 0.8 | 112.87 | | |
| | 6.00 | 34.1 | 2.4 | 112.91 | | |
| | 7.00 | 34.9 | 3.2 | 112.96 | | |
| | 8.00 | 32.3 | 0.6 | 113.00 | | |
| | 9.00 | 30.0 | -1.8 | 113.04 | | |
| | 10.00 | 29.8 | -1.9 | 113.10 | | |
| | 11.00 | 29.7 | -2.0 | 113.15 | | |
| | 12.00 | 29.6 | -2.1 | 113.20 | | |
| | 13.00 | 29.5 | -2.3 | 113.25 | | |
| | 14.00 | 29.8 | -1.9 | 113.30 | | |
| | 15.00 | 29.9 | -1.8 | 113.35 | | |
| | 16.00 | 30.0 | -1.8 | 113.40 | | |
| ***** End Flow 1 | 17.00 | 29.1 | -2.6 | 113.45 | | |
| ***** Start Shutin 1 | 0.00 | 29.1 | 0.0 | 113.45 | 0.0000 | 0.001 |
| | 1.00 | 30.3 | 1.2 | 113.51 | 18.0000 | 0.001 |
| | 2.00 | 31.7 | 2.6 | 113.55 | 9.5000 | 0.001 |
| | 3.00 | 33.1 | 4.0 | 113.60 | 6.6667 | 0.001 |
| | 4.00 | 34.9 | 5.8 | 113.64 | 5.2500 | 0.001 |
| | 5.00 | 36.4 | 7.3 | 113.68 | 4.4000 | 0.001 |
| | 6.00 | 38.3 | 9.1 | 113.73 | 3.8333 | 0.001 |
| | 7.00 | 40.1 | 11.0 | 113.78 | 3.4286 | 0.002 |
| | 8.00 | 42.2 | 13.1 | 113.82 | 3.1250 | 0.002 |
| | 9.00 | 44.2 | 15.1 | 113.85 | 2.8889 | 0.002 |
| | 10.00 | 46.6 | 17.5 | 113.90 | 2.7000 | 0.002 |
| | 11.00 | 49.0 | 19.9 | 113.95 | 2.5455 | 0.002 |
| | 12.00 | 51.6 | 22.5 | 113.99 | 2.4167 | 0.003 |
| | 13.00 | 54.5 | 25.4 | 114.03 | 2.3077 | 0.003 |
| | 14.00 | 57.7 | 28.6 | 114.08 | 2.2143 | 0.003 |
| | 15.00 | 60.8 | 31.7 | 114.11 | 2.1333 | 0.004 |
| | 16.00 | 64.2 | 35.1 | 114.15 | 2.0625 | 0.004 |
| | 17.00 | 67.9 | 38.8 | 114.20 | 2.0000 | 0.005 |
| | 18.00 | 71.5 | 42.4 | 114.24 | 1.9444 | 0.005 |
| | 19.00 | 75.2 | 46.1 | 114.28 | 1.8947 | 0.006 |
| | 20.00 | 79.1 | 50.0 | 114.32 | 1.8500 | 0.006 |
| | 21.00 | 82.9 | 53.8 | 114.37 | 1.8095 | 0.007 |
| | 22.00 | 87.4 | 58.3 | 114.41 | 1.7727 | 0.008 |
| | 23.00 | 91.7 | 62.6 | 114.45 | 1.7391 | 0.008 |
| | 24.00 | 96.2 | 67.1 | 114.49 | 1.7083 | 0.009 |
| | 25.00 | 100.8 | 71.7 | 114.54 | 1.6800 | 0.010 |
| | 26.00 | 105.4 | 76.3 | 114.58 | 1.6538 | 0.011 |
| | 27.00 | 109.9 | 80.8 | 114.62 | 1.6296 | 0.012 |
| ***** End Shut-in 1 | 28.00 | 114.7 | 85.6 | 114.66 | 1.6071 | 0.013 |
| ***** Start Flow 2 | 0.00 | 30.4 | 0.0 | 114.74 | | |
| | 1.00 | 30.0 | -0.3 | 114.77 | | |
| | 2.00 | 30.1 | -0.3 | 114.81 | | |

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8081 Helfrich #4 Claassen Oil DST #2

DATE: 10/05/95

TIME: 01:05:54

| Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P ² /10 ⁶ |
|-------|------------------|-----------------|----------------|-----------|---------------------------------|
| 3.00 | 32.0 | 1.6 | 114.84 | | |
| 4.00 | 36.8 | 6.4 | 114.87 | | |
| 5.00 | 30.0 | -0.4 | 114.91 | | |
| 6.00 | 30.3 | -0.1 | 114.94 | | |
| 7.00 | 30.0 | -0.3 | 114.98 | | |
| 8.00 | 30.4 | 0.0 | 115.02 | | |
| 9.00 | 31.1 | 0.8 | 115.06 | | |
| 10.00 | 32.7 | 2.4 | 115.09 | | |
| 11.00 | 36.2 | 5.9 | 115.13 | | |
| 12.00 | 30.2 | -0.2 | 115.17 | | |
| 13.00 | 30.4 | 0.0 | 115.21 | | |
| 14.00 | 30.1 | -0.3 | 115.25 | | |
| 15.00 | 30.1 | -0.3 | 115.29 | | |
| 16.00 | 30.2 | -0.2 | 115.33 | | |
| 17.00 | 30.2 | -0.2 | 115.38 | | |
| 18.00 | 30.3 | -0.1 | 115.42 | | |
| 19.00 | 32.6 | 2.3 | 115.46 | | |
| 20.00 | 36.2 | 5.8 | 115.50 | | |
| 21.00 | 30.3 | -0.1 | 115.55 | | |
| 22.00 | 32.2 | 1.8 | 115.59 | | |
| 23.00 | 30.4 | -0.0 | 115.63 | | |
| 24.00 | 30.3 | -0.1 | 115.67 | | |
| 25.00 | 30.3 | -0.1 | 115.71 | | |
| 26.00 | 31.5 | 1.1 | 115.74 | | |
| 27.00 | 30.5 | 0.1 | 115.77 | | |
| 28.00 | 30.4 | 0.0 | 115.80 | | |
| 29.00 | 31.2 | 0.8 | 115.83 | | |
| 30.00 | 30.0 | -0.4 | 115.86 | | |

***** End Flow 2

***** Start Shutin 2

| | | | | | |
|-------|------|------|--------|---------|-------|
| 0.00 | 30.0 | 0.0 | 115.86 | 0.0000 | 0.001 |
| 1.00 | 31.4 | 1.4 | 115.88 | 48.0000 | 0.001 |
| 2.00 | 32.9 | 2.9 | 115.91 | 24.5000 | 0.001 |
| 3.00 | 34.5 | 4.5 | 115.95 | 16.6667 | 0.001 |
| 4.00 | 36.0 | 6.0 | 115.97 | 12.7500 | 0.001 |
| 5.00 | 37.4 | 7.5 | 116.00 | 10.4000 | 0.001 |
| 6.00 | 38.9 | 9.0 | 116.03 | 8.8333 | 0.002 |
| 7.00 | 40.4 | 10.4 | 116.06 | 7.7143 | 0.002 |
| 8.00 | 41.8 | 11.8 | 116.10 | 6.8750 | 0.002 |
| 9.00 | 43.2 | 13.3 | 116.14 | 6.2222 | 0.002 |
| 10.00 | 44.6 | 14.7 | 116.17 | 5.7000 | 0.002 |
| 11.00 | 46.2 | 16.3 | 116.21 | 5.2727 | 0.002 |
| 12.00 | 47.7 | 17.7 | 116.25 | 4.9167 | 0.002 |
| 13.00 | 49.3 | 19.4 | 116.29 | 4.6154 | 0.002 |
| 14.00 | 51.0 | 21.1 | 116.32 | 4.3571 | 0.003 |
| 15.00 | 52.8 | 22.8 | 116.36 | 4.1333 | 0.003 |
| 16.00 | 54.5 | 24.5 | 116.41 | 3.9375 | 0.003 |
| 17.00 | 56.1 | 26.2 | 116.44 | 3.7647 | 0.003 |
| 18.00 | 57.9 | 27.9 | 116.48 | 3.6111 | 0.003 |
| 19.00 | 59.7 | 29.7 | 116.52 | 3.4737 | 0.004 |
| 20.00 | 61.5 | 31.6 | 116.56 | 3.3500 | 0.004 |
| 21.00 | 63.3 | 33.3 | 116.60 | 3.2381 | 0.004 |
| 22.00 | 65.2 | 35.2 | 116.64 | 3.1364 | 0.004 |

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8081 Helfrich #4 Claassen Oil DST #2

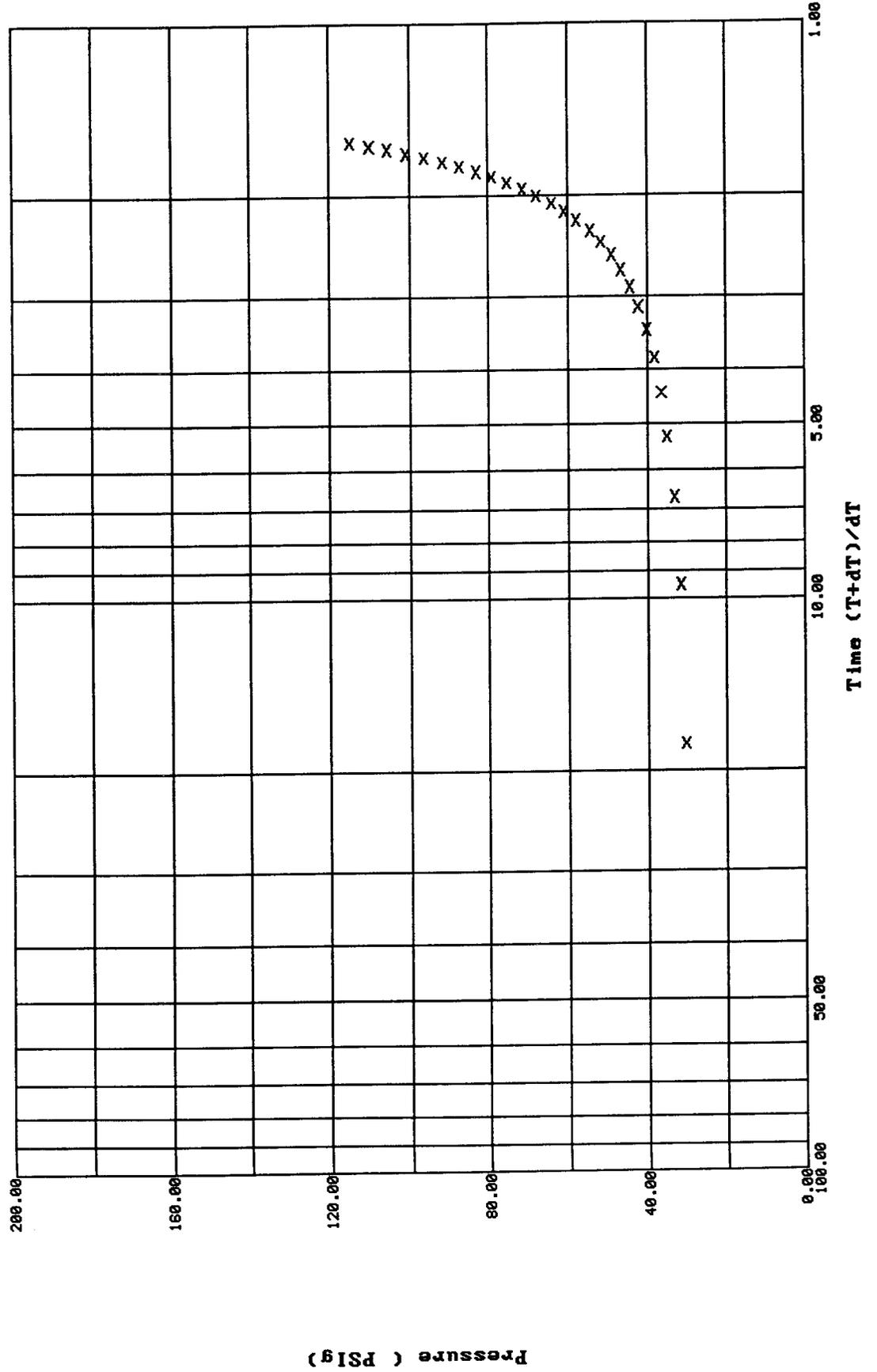
DATE: 10/05/95

TIME: 01:05:54

| | Time | Pressure PSIg | delta P PSIg | Temp. DEG F | (T+dT)/dT | P^2/10^6 |
|---------------------|--------|------------------|-----------------|----------------|-----------|----------|
| | 23.00 | 67.0 | 37.1 | 116.67 | 3.0435 | 0.004 |
| | 24.00 | 68.8 | 38.9 | 116.71 | 2.9583 | 0.005 |
| | 25.00 | 71.0 | 41.0 | 116.75 | 2.8800 | 0.005 |
| | 26.00 | 73.2 | 43.2 | 116.78 | 2.8077 | 0.005 |
| | 27.00 | 75.2 | 45.2 | 116.82 | 2.7407 | 0.006 |
| | 28.00 | 77.3 | 47.3 | 116.86 | 2.6786 | 0.006 |
| | 29.00 | 79.4 | 49.4 | 116.90 | 2.6207 | 0.006 |
| | 30.00 | 81.5 | 51.5 | 116.93 | 2.5667 | 0.007 |
| | 31.00 | 83.5 | 53.5 | 116.97 | 2.5161 | 0.007 |
| | 32.00 | 85.5 | 55.6 | 117.01 | 2.4688 | 0.007 |
| | 33.00 | 87.5 | 57.6 | 117.04 | 2.4242 | 0.008 |
| | 34.00 | 89.5 | 59.5 | 117.07 | 2.3824 | 0.008 |
| | 35.00 | 91.3 | 61.4 | 117.11 | 2.3429 | 0.008 |
| | 36.00 | 93.0 | 63.0 | 117.15 | 2.3056 | 0.009 |
| | 37.00 | 94.7 | 64.7 | 117.18 | 2.2703 | 0.009 |
| | 38.00 | 96.0 | 66.1 | 117.22 | 2.2368 | 0.009 |
| | 39.00 | 97.7 | 67.7 | 117.25 | 2.2051 | 0.01 |
| | 40.00 | 98.9 | 69.0 | 117.28 | 2.1750 | 0.01 |
| | 41.00 | 100.3 | 70.3 | 117.31 | 2.1463 | 0.010 |
| | 42.00 | 101.5 | 71.6 | 117.35 | 2.1190 | 0.010 |
| | 43.00 | 102.6 | 72.6 | 117.38 | 2.0930 | 0.011 |
| | 44.00 | 103.6 | 73.7 | 117.42 | 2.0682 | 0.011 |
| | 45.00 | 104.6 | 74.7 | 117.45 | 2.0444 | 0.011 |
| | 46.00 | 105.6 | 75.6 | 117.47 | 2.0217 | 0.011 |
| | 47.00 | 106.3 | 76.4 | 117.51 | 2.0000 | 0.011 |
| | 48.00 | 107.2 | 77.2 | 117.54 | 1.9792 | 0.011 |
| | 49.00 | 108.0 | 78.1 | 117.57 | 1.9592 | 0.012 |
| | 50.00 | 108.7 | 78.7 | 117.60 | 1.9400 | 0.012 |
| | 51.00 | 109.5 | 79.6 | 117.63 | 1.9216 | 0.012 |
| | 52.00 | 110.2 | 80.2 | 117.66 | 1.9038 | 0.012 |
| | 53.00 | 110.8 | 80.8 | 117.69 | 1.8868 | 0.012 |
| | 54.00 | 111.4 | 81.5 | 117.72 | 1.8704 | 0.012 |
| | 55.00 | 112.0 | 82.1 | 117.75 | 1.8545 | 0.013 |
| | 56.00 | 112.5 | 82.5 | 117.78 | 1.8393 | 0.013 |
| | 57.00 | 113.0 | 83.0 | 117.81 | 1.8246 | 0.013 |
| | 58.00 | 113.4 | 83.4 | 117.84 | 1.8103 | 0.013 |
| | 59.00 | 113.8 | 83.8 | 117.86 | 1.7966 | 0.013 |
| ***** End Shut-in 2 | 60.00 | 114.0 | 84.0 | 117.90 | 1.7833 | 0.013 |
| ***** Final Hydro. | 331.00 | 2232.1 | 0.0 | 118.22 | | |

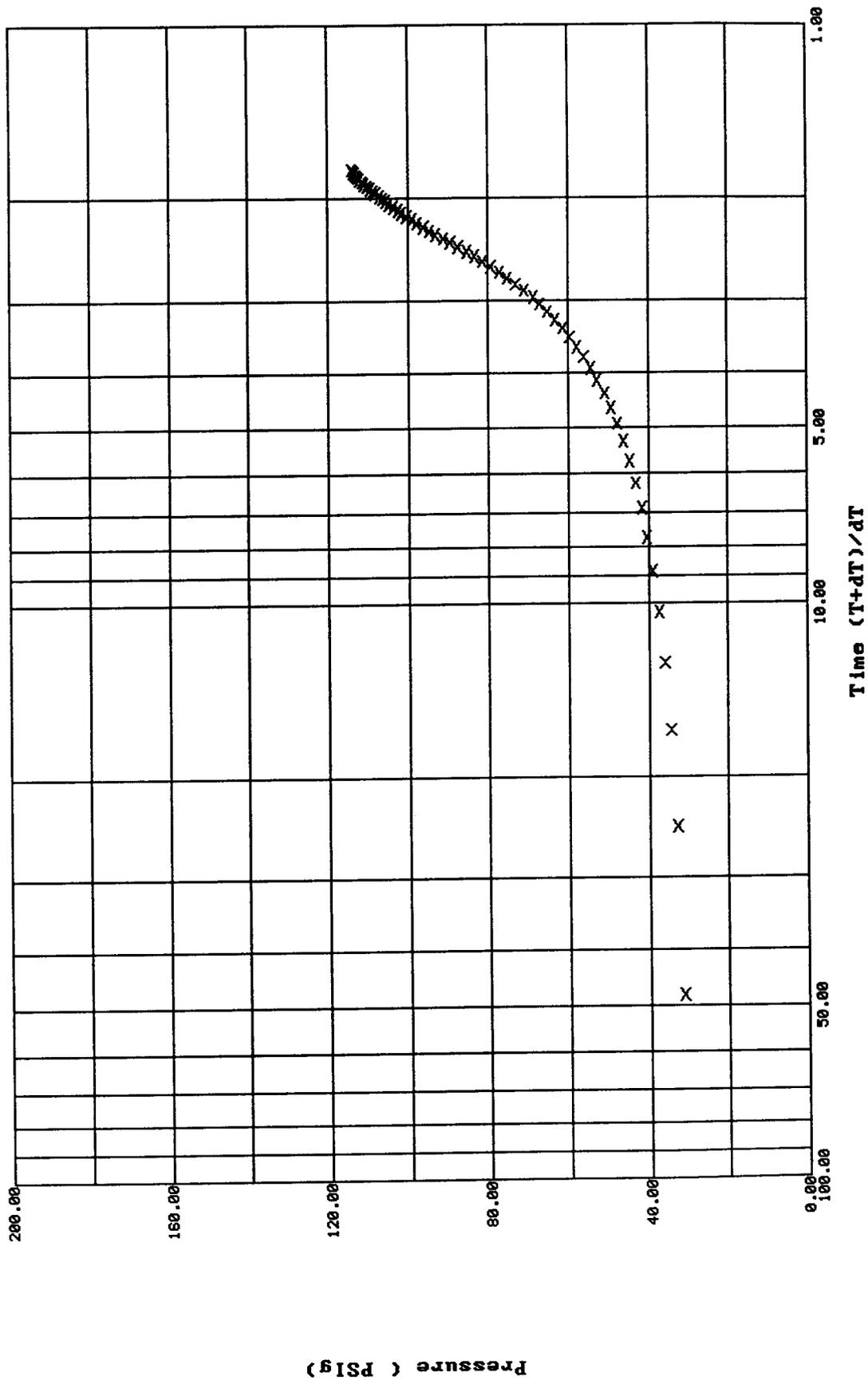
Horner Plot: shut-in #1

8081 Helfrich #4 Claassen Oil DST #2



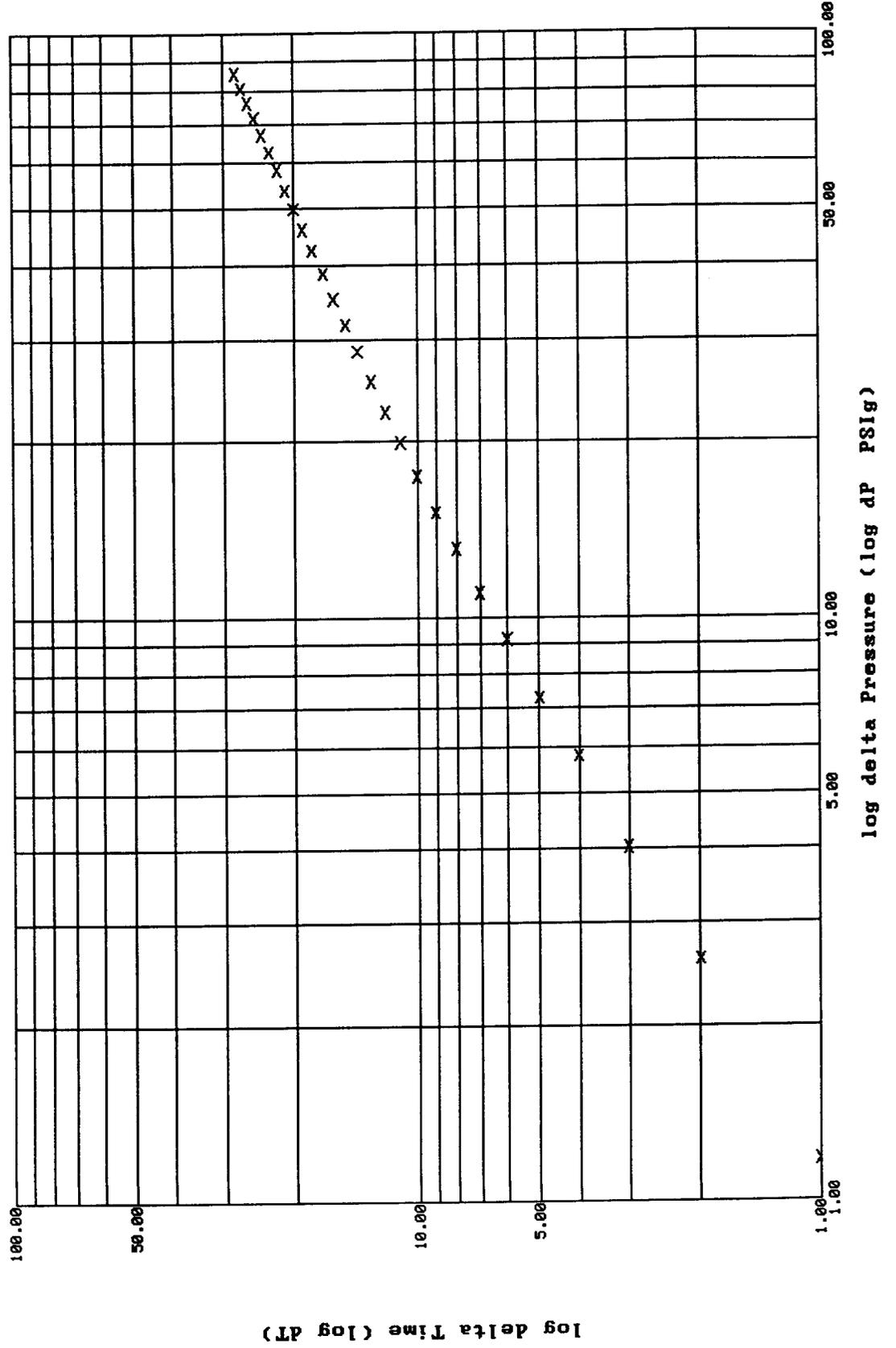
Horner Plot: shut-in #2

8081 Helfrich #4 Claassen Oil DST #2

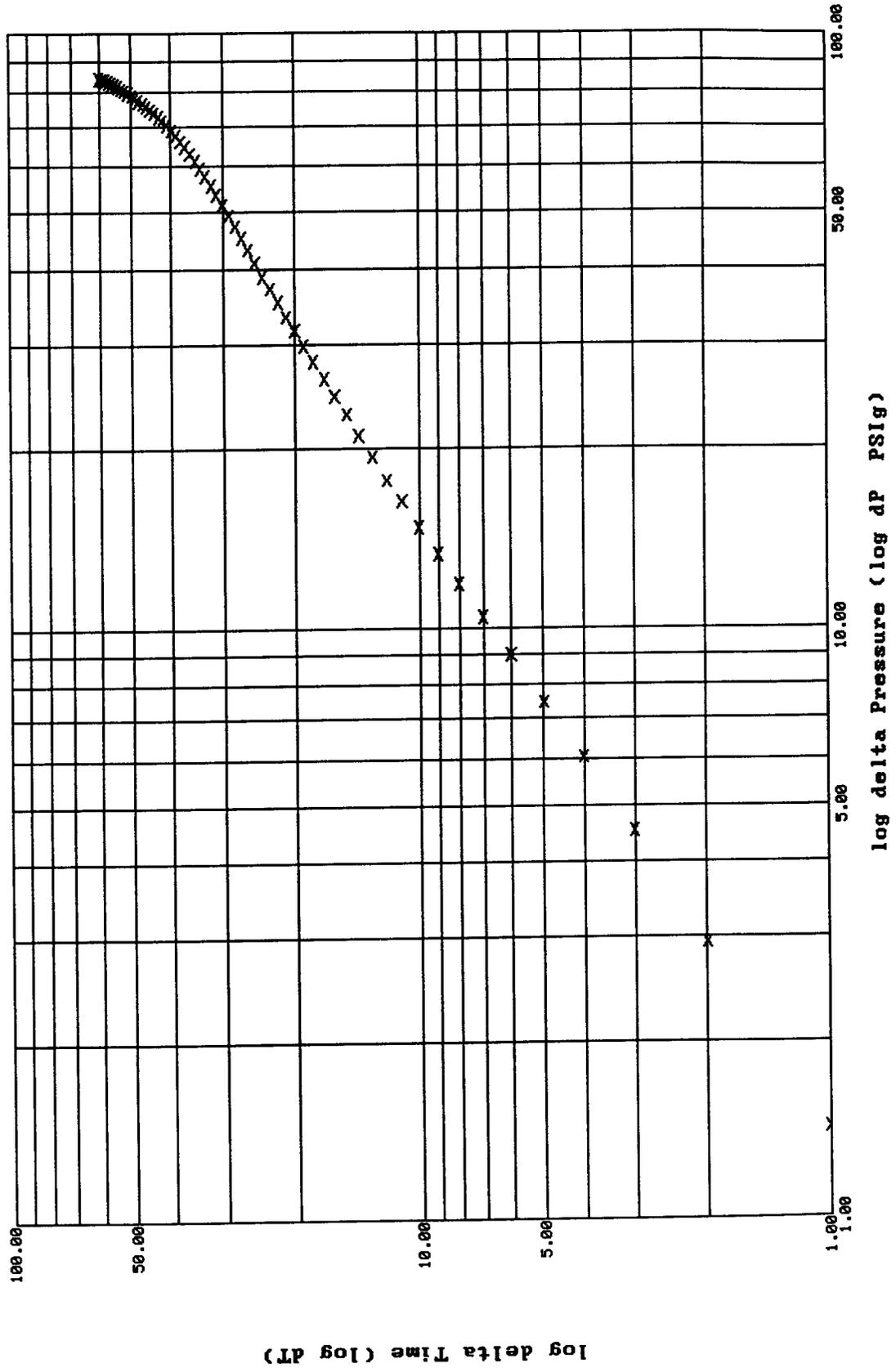


McKinley Plot: shut-in #1

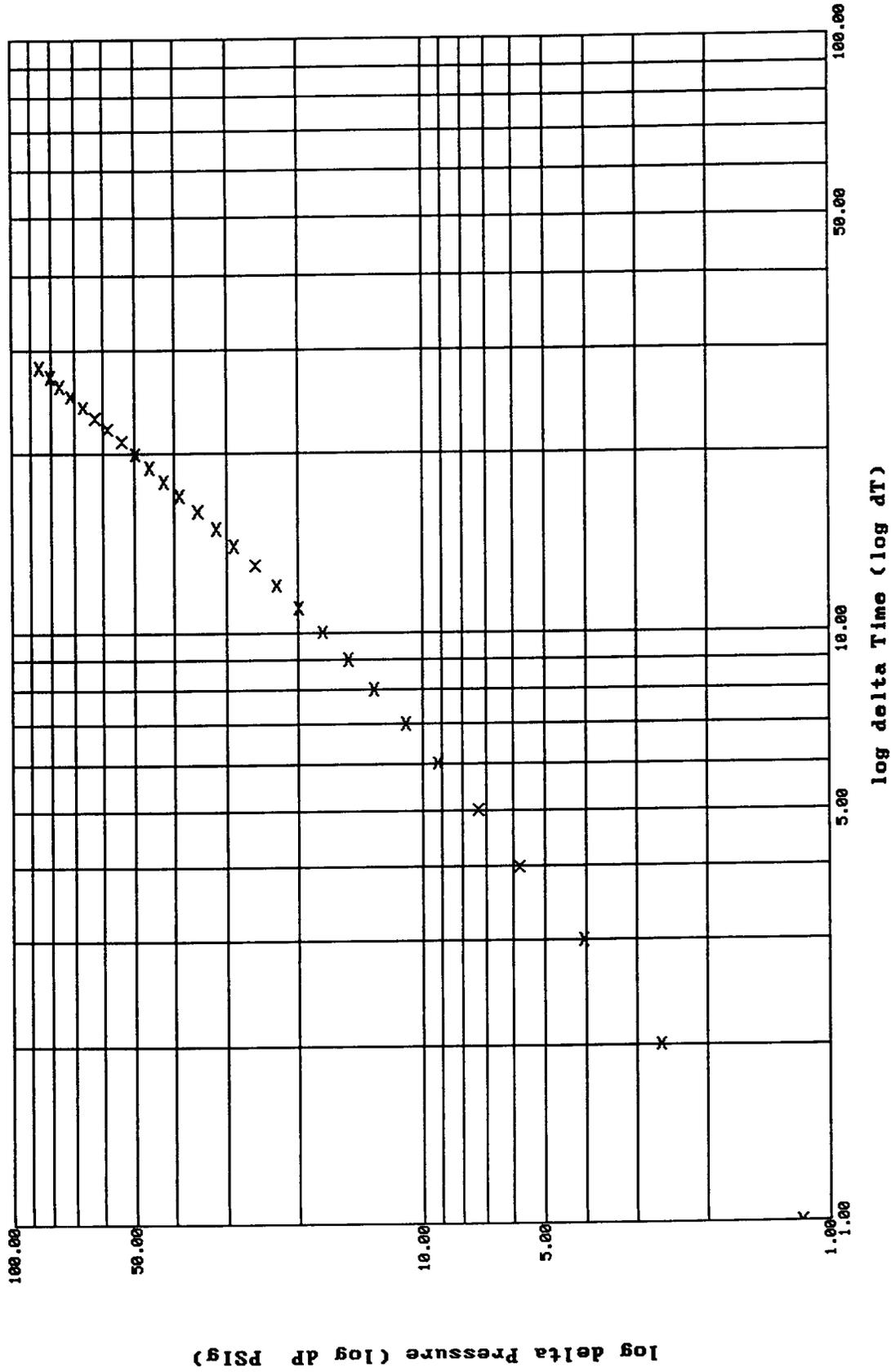
8081 Helfrich #4 Claassen 011 DST #2



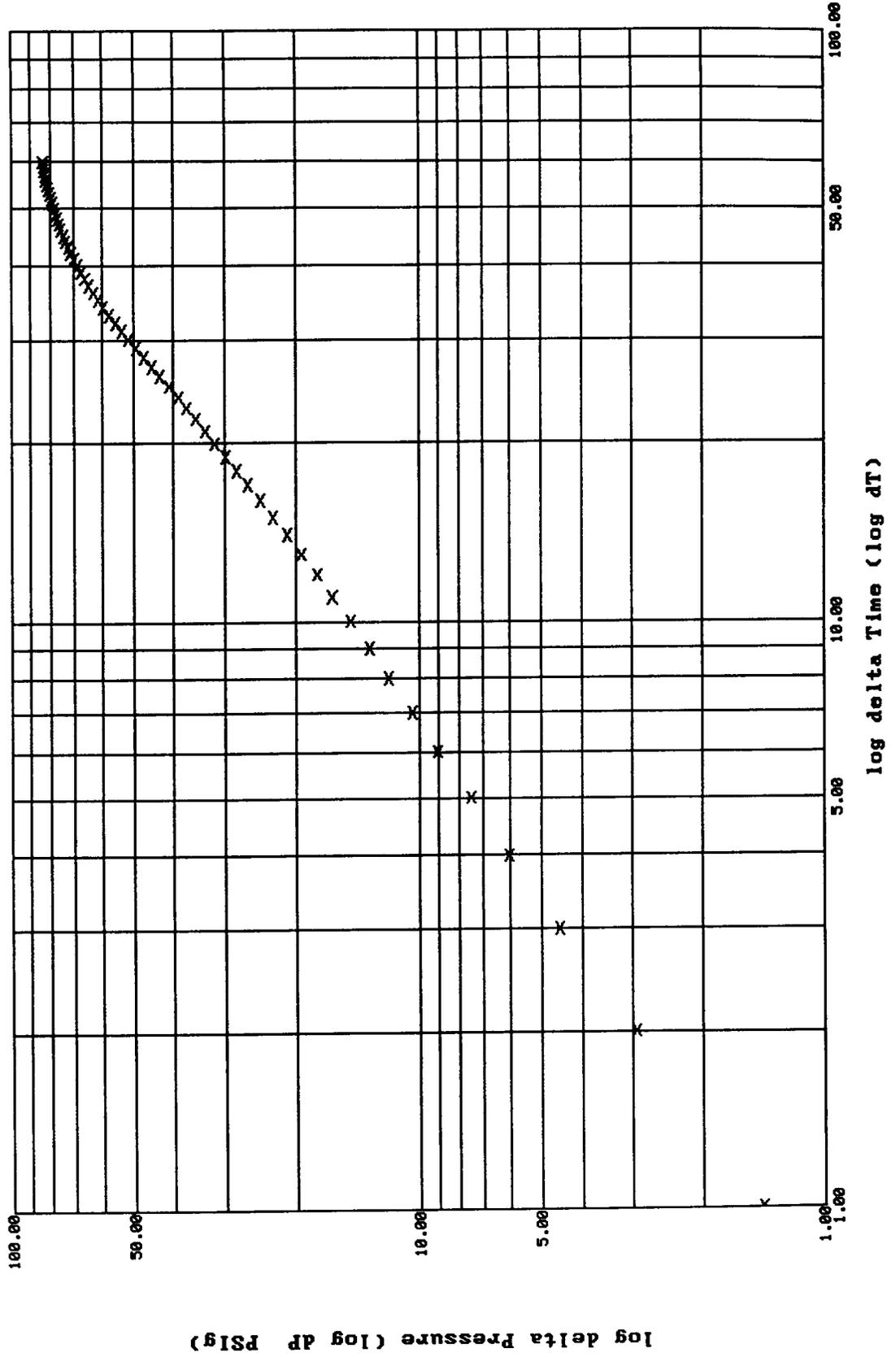
McKinley Plot: shut-in #2
8081 Helfrich #4 Claassen Oil DST #2



Ramey Plot: shut-in #1
 8081 Helfrich #4 Claassen Oil DST #2



Ramey Plot: shut-in #2
8881 Helfrich #4 Claasson Oil DST #2



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Helfrich #4

LOCATION : 6-25S-42W, Hamilton KS

TICKET No. 8081 D.S.T. No. 2 DATE 10-5-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 49

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 79

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 49

D.C. ABOVE TOOLS.Stands9 Single Total 548

D.P. ABOVE TOOLS.Stands72 Single 1 Total 4428

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5055

TOTAL DEPTH 5043

TOTAL DRILL PIPE ABOVE K.B. 12

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Mud 4000 ml, Pressure 25 PSI, Total 4000 ml

SAMPLER ANALYSIS -

Resist .23 ohms @ 65 F; Chlorides 34000 ppm

PIT MUD ANALYSIS -

Chlorides 34000 ppm; Resist .23 ohms @ 65 F

Vis 41, Mud Wt 9.4, Filt 14.4, LCM 2#/bbl

PIPE RECOVERY - Bottom -

Resistivity .23 @ 65 F; Chlorides 34000 ppm

| | |
|------------------------|------|
| P.O. SUB Above120'D.C. | 4843 |
| C.O. SUB 1' | 4963 |
| S.I. TOOL 5' | 4964 |
| Sampler 3' | 4969 |
| HMV 5' | 4972 |
| JARS 5' | 4977 |
| SAFETY JOINT 2' | 4982 |
| PACKER 5' | 4984 |
| PACKER 5' | 4989 |
| DEPTH 4994 | |
| STUBB 1' | 4995 |
| ANCHOR | |
| 11' Perf. | |
| w/Elec. Rec. @ | 4996 |
| 31' D.P. | 5006 |
| AK-1 Rec. @ | 5038 |
| BULLNOSE | |
| T.D. 5' | 5038 |

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8081 Date 10-5-95
Company Name Claassen Oil & Gas Cont. Allen #5
Lease Helfrich #4 Test No. 2 Morrow
County Hamilton KS. Sec. 6 Twp. 25^s Rng. 42^w

SAMPLER RECOVERY

Gas — ML
Oil — ML
Mud 4,000 ML
Water — ML
Other — ML
Pressure 25[#] PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 34,000 ppm.
Resistivity .23 ohms @ 65° F
Viscosity 7 41
Mud Weight 9.43
Filtrate 14.4
Other L.C.M 2[#] / bbl.

SAMPLER ANALYSIS

Resistivity .23 ohms @ 65° F
Chlorides 34,000 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity .23 ohms @ 65° F
Chlorides 34,000 ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Claassen Oil & Gas Inc
 WELL NAME: Helfrich #4
 LOCATION : 6-25S-42W, Hamilton KS
 INTERVAL : 5296.00 To 5312.00 ft

DATE 10/07/95

KB 3585.00 ft TICKET NO: 8082 DST #3
 GR 0.00 ft FORMATION: Keyes
 TD 5400.00 ft TEST TYPE: CONV STRADDLE

RECORDER DATA

| Mins | | Field | 1 | 2 | 3 | 4 | TIME DATA----- |
|--------|-------------|-------|--------|--------|--------|--------|----------------------------|
| PF 30 | Rec. | | 13339 | 13339 | 13276 | 13309 | PF Fr. 0355 to 0425 hr |
| SI 60 | Range(Psi) | | 4025.0 | 4025.0 | 4000.0 | 4700.0 | 0.0 IS Fr. 0425 to 0525 hr |
| SF 60 | Clock(hrs) | | AK-1 | AK-1 | | 23832 | SF Fr. 0525 to 0625 hr |
| FS 120 | Depth(ft) | | 5302.0 | 5302.0 | 5307.0 | 5395.0 | 0.0 FS Fr. 0625 to 0825 hr |

| | Field | 1 | 2 | 3 | 4 | |
|----------------|--------|--------|-----|-----|-----|---------------------------|
| A. Init Hydro | 2573.0 | 2608.0 | 0.0 | 0.0 | 0.0 | T STARTED hr |
| B. First Flow | 31.0 | 42.0 | 0.0 | 0.0 | 0.0 | T ON BOTM hr |
| B1. Final Flow | 31.0 | 42.0 | 0.0 | 0.0 | 0.0 | T OPEN 0355 hr |
| C. In Shut-in | 1120.0 | 1138.0 | 0.0 | 0.0 | 0.0 | T PULLED 0825 hr |
| D. Init Flow | 41.0 | 56.0 | 0.0 | 0.0 | 0.0 | T OUT hr |
| E. Final Flow | 52.0 | 64.0 | 0.0 | 0.0 | 0.0 | |
| F. Fl Shut-in | 1210.0 | 1234.0 | 0.0 | 0.0 | 0.0 | TOOL DATA----- |
| G. Final Hydro | 2523.0 | 2519.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 0.00 lbs |
| Inside/Outside | I | I | | | | Wt Set On Packer 0.00 lbs |
| | | | | | | Wt Pulled Loose 0.00 lbs |
| | | | | | | Initial Str Wt 0.00 lbs |
| | | | | | | Unseated Str Wt 0.00 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 487.00 ft |
| | | | | | | D.P. Length 0.00 ft |

RECOVERY

Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP
 120.00 ft of Slightly gassy mud - 10% gas, 90% mud

RW .21 @ 70 F

SALINITY 34000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Fair to strong blow surging off bottom
 in 15 min

Initial Shutin -
 Bled off blow, no return

Final Blow -
 Strong blow off bottom immediately:
 Gas to surface in 40 min, flames blue

Final Shutin -
 Bled off blow, no return

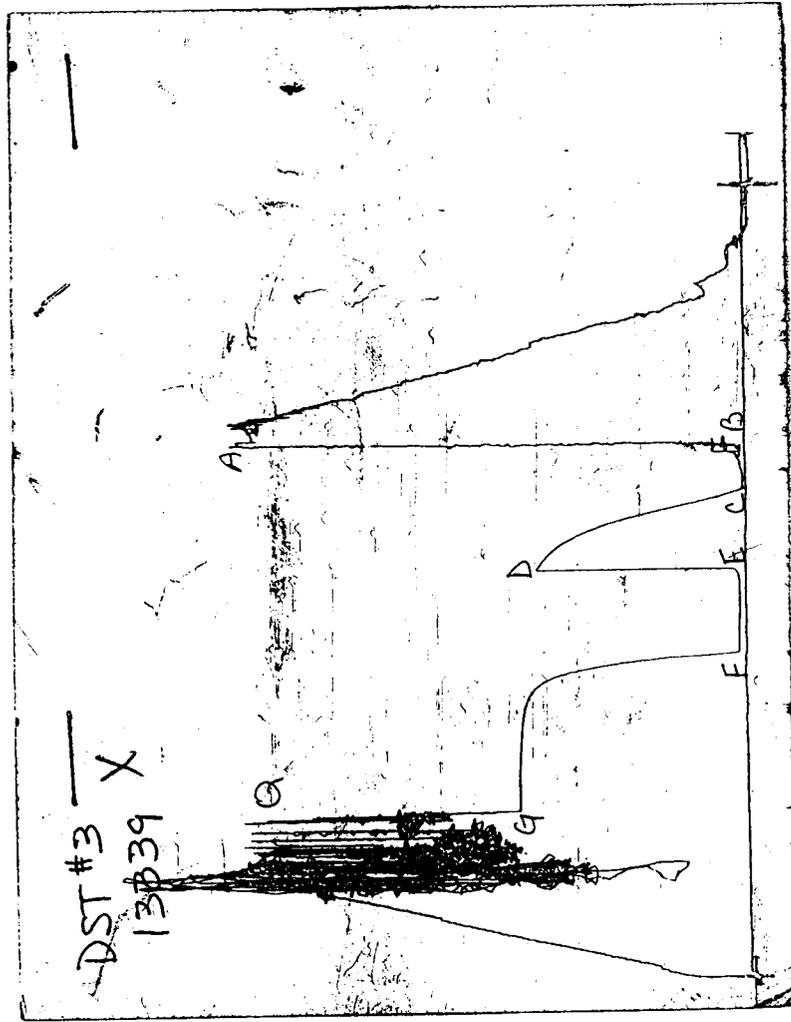
SAMPLES:
 SENT TO:

MUD DATA-----

| Mud Type | Chemical |
|----------------|----------------|
| Weight | 9.30 lb/c |
| Vis. | 45.00 S/L |
| W.L. | 12.40 in3 |
| F.C. | 0.00 in |
| Mud Drop | |
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 123.00 F |
| Hole Condition | |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 3 |
| Cushion Amt. | 0.00 |
| Cushion Type | |
| Reversed Out | |
| Tool Chased | |
| Tester | Rod Steinbrink |
| Co. Rep. | Rich Bacon |
| Contr. | Allen |
| Rig # | 5 |
| Unit # | |
| Pump T. | |

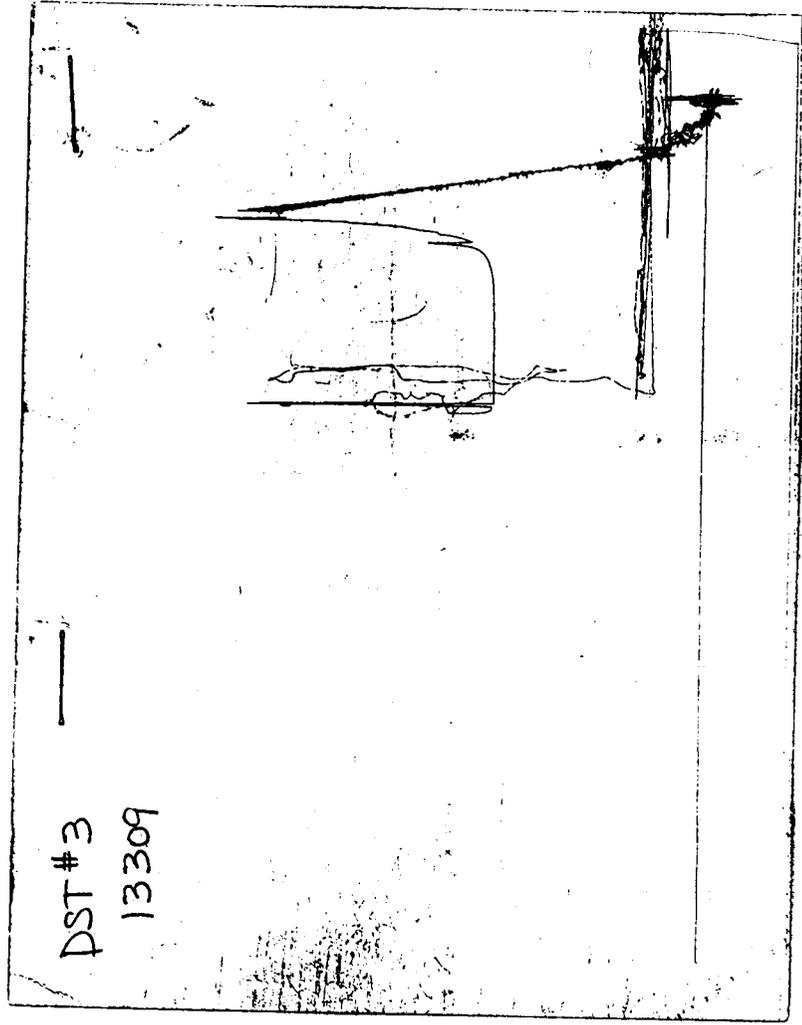
Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8082 Date 10-7-95
Company Name Claassen Oil & Gas Cont. Allen #5
Lease Helfrich #4 Test No. 3 Keyes
County Hamilton, KS Sec. 6 Twp. 25^S Rng. 42^W

SAMPLER RECOVERY

Gas 4,000 ML
Oil — ML
Mud ~~4,000~~ ML
Water — ML
Other — ML
Pressure 300* PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 35,000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 45
Mud Weight 9.3
Filtrate 12.4
Other LCM 1 1/2* / bbl.

SAMPLER ANALYSIS

Resistivity .21 ohms @ 70° F
Chlorides 34,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .21 ohms @ 70° F
Chlorides 34,000 ppm.