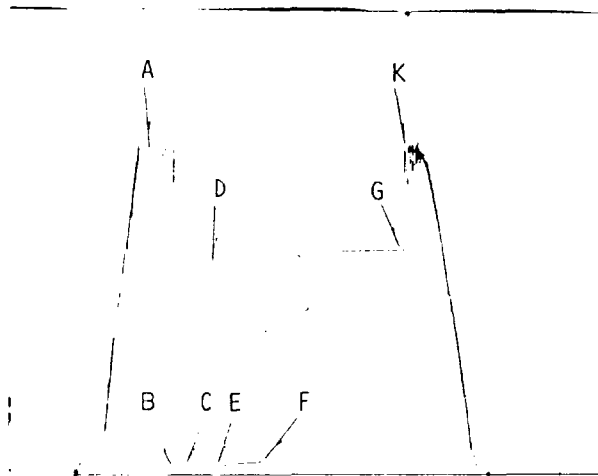


# BAKER SERVICE TOOLS

Phone (303) 573-8027

1616 Glenarm — Suite 1350  
Denver, CO 80202

|                                      |                                       |                                |
|--------------------------------------|---------------------------------------|--------------------------------|
| Contractor <u>Norton Drilling</u>    | Surface Choke <u>3/16" &amp; 3/8"</u> | Mud Type <u>--</u>             |
| Rig No. <u>8</u>                     | Bottom Choke <u>3/4"</u>              | Weight <u>10.0</u>             |
| Spot <u>1650' FNL &amp; 990' FWL</u> | Hole Size <u>7 7/8"</u>               | Viscosity <u>55</u>            |
| Sec. <u>29</u>                       | Core Hole Size <u>--</u>              | Water Loss <u>--</u>           |
| Twp. <u>7 S</u>                      | DP Size & Wt. <u>4 1/2" 16.60</u>     | Filter Cake <u>--</u>          |
| Rng. <u>31 E</u>                     | Wt. Pipe <u>None</u>                  | Resistivity <u>.32 @ 56 °F</u> |
| Field <u>Wildcat</u>                 | I.D. of DC <u>2 1/2"</u>              | <u>24,639</u> Ppm. NaCl        |
| County <u>Chaves</u>                 | Length of DC <u>590'</u>              | B.H.T. <u>196 °F</u>           |
| State <u>New Mexico</u>              | Total Depth <u>9182'</u>              | Co. Rep. <u>Glen Cothrun</u>   |
| Elevation <u>Not Reported</u>        | Type Test <u>Inflate Straddle</u>     | Tester <u>Jim Steele</u>       |
| Formation <u>Devonian</u>            | Interval <u>8470' - 8560'</u>         | Baker Dist. <u>Hobbs NM</u>    |



|               | REPORTED   | CORRECTED |      |
|---------------|------------|-----------|------|
| Opened Tool @ | 14:28      |           | hrs. |
| Flow No. 1    | 30         | 29        | min. |
| Shut-In No. 1 | 120        | 121       | min. |
| Flow No. 2    | 180        | 169       | min. |
| Shut-In No. 2 | 540        | 547       | min. |
| Flow No. 3    | None Taken |           | min. |
| Shut-In No. 3 | "          | "         | min. |

|                                       |
|---------------------------------------|
| Recorder Type <u>Kuster K-3</u>       |
| No. <u>25178</u> Cap. <u>6500</u> psi |
| Depth <u>8478</u> feet                |
| Inside <u>X</u> Clock                 |
| Outside Range <u>48</u> hrs.          |

|                     |   |        |
|---------------------|---|--------|
| Initial Hydrostatic | A | 4512.6 |
| Final Hydrostatic   | K | 4519.7 |
| Initial Flow        | B | 94.8   |
| Final Initial Flow  | C | 94.1   |
| Initial Shut-In     | D | 2924.3 |
| Second Initial Flow | E | 77.2   |
| Second Final Flow   | F | 170.2  |
| Second Shut-In      | G | 3145.7 |
| Third Initial Flow  | H |        |
| Third Final Flow    | I |        |
| Third Shut-In       | J |        |

Pipe Recovery: 217' Drilling mud = 1.32 bbl.

Resistivity:  
Top: .26 @ 65°F - .09 @ Res Temp = 26,727 ppm NaCl., 16,248 ppm Cl.  
Middle: .26 @ 65°F - .09 @ Res Temp = 26,727 ppm NaCl., 16,248 ppm Cl.

BEFORE EXAMINER STOGNER  
OIL CONSERVATION DEPT.

Enfield EX. IDIT NO. 9

CASE NO. 9390

Operator **ROBERT N. ENFIELD**  
Ticket No. **2636**  
Date **3/1/88**  
Well Name & No. **McCOMB #1**  
Location **S-29 T-7S R-31E**  
County, State **CHAVES COUNTY, NM**  
DST No. **1**  
Interval **8470' - 8560'**  
Formation **DEVONIAN**

P1

# BAKER SERVICE TOOLS

Robert N. Enfield

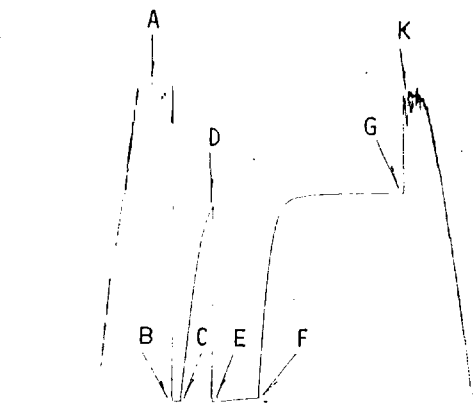
Operator

McComb #1

Well Name and No.

1

DST No



Recorder Type Kuster K-3  
No. 13426 Cap. 6500 psi  
Depth 8478 feet  
Inside X Clock  
Outside Range 48 hrs.

Initial Hydrostatic A 4491.1  
Final Hydrostatic K 4498.1  
Initial Flow B 125.6  
Final Initial Flow C 117.5  
Initial Shut-In D 2907.1  
Second Initial Flow E 105.8  
Second Final Flow F 166.7  
Second Shut-In G 3129.4  
Third Initial Flow H \_\_\_\_\_  
Third Final Flow I \_\_\_\_\_  
Third Shut-In J \_\_\_\_\_

Recorder Type \_\_\_\_\_  
No. \_\_\_\_\_ Cap. \_\_\_\_\_ psi  
Depth \_\_\_\_\_ feet  
Inside \_\_\_\_\_ Clock  
Outside Range \_\_\_\_\_ hrs.

Initial Hydrostatic A \_\_\_\_\_  
Final Hydrostatic K \_\_\_\_\_  
Initial Flow B \_\_\_\_\_  
Final Initial Flow C \_\_\_\_\_  
Initial Shut-In D \_\_\_\_\_  
Second Initial Flow E \_\_\_\_\_  
Second Final Flow F \_\_\_\_\_  
Second Shut-In G \_\_\_\_\_  
Third Initial Flow H \_\_\_\_\_  
Third Final Flow I \_\_\_\_\_  
Third Shut-In J \_\_\_\_\_

P2/1512

# BAKER SERVICE TOOLS

## SAMPLER REPORT

Company Robert N. Enfield Date 3/1/88  
Well Name & No. McComb #1 Ticket No. 2636  
County Chaves State New Mexico  
Test Interval 8470' - 8560' DST No. 1

Pressure in Sampler: 135 psig

Total Volume of Sampler: 2600 cc.

Total Volume of Sample: 610 cc.

Oil: None cc.

Water: None cc.

Mud: 610 cc.

Gas: 0.875 cu. ft.

Other: None

Sample R W: .18 @ 64°F - .06 @ Res Temp = 40,998 ppm NaCl., 24,923 ppm Cl.

### Resistivity

Make Up Water 10.0 @ 54 °F of Chloride Content 658 ppm.

Mud Pit Sample .32 @ 56 °F of Chloride Content 24,639 ppm.

Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained On location.

Remarks: \_\_\_\_\_

DU/NE 12

# BAKER SERVICE TOOLS

Robert N. Enfield

Operator

McComb #1

Well Name and No.

1

DST No

This analysis has been made on the basis of the liquid recovery and equations applicable to liquid recovery tests, the Horner extrapolation method and fluid properties from Vasquez & Beggs correlations.

1. The pressure extrapolation plot indicates "steady-state" conditions were not attained during the initial shut-in period. It is therefore, impossible to determine a reliable extrapolated initial shut-in pressure. The pressure extrapolation plot indicates a maximum final reservoir pressure of 3174 psi which is equivalent to a subsurface pressure gradient of 0.37 psi/ft at the recorder depth of 8478 feet.
2. Due to the magnitude of the reservoir pressure the measured gas flow rate of 125.0 MCF/D has been converted to an equivalent barrel rate of 109.8 RBPd.
3. The calculated Total Effective Transmissibility of 91.13 md.-ft./cp. indicates an Average Permeability to the produced fluid of 3.07 md. for the estimated 15 feet of effective porosity within the total 90 feet of tested interval.
4. The calculated Skin Factor of 12.5 indicates significant well-bore damage was present at the time of this formation test. The calculated Damage Ratio of 2.8 implies the production rate would have been 2.8 times that which occurred, or 307.4 RBPd, if formation damage had not been present.
5. The evaluation criteria used in the drillstem test analysis system indicate this is a good mechanical test and the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.

PS 1-12

# BAKER

## SERVICE TOOLS

Robert N. Enfield

Operator

McComb #1

Well Name and No

1

DST No.

### TEST PARAMETERS

|                      |                |                  |               |
|----------------------|----------------|------------------|---------------|
| DRILLPIPE CAPACITY   | 0.0142 BBL/FT  | HOLE SIZE        | 7.875 IN      |
| DRILLCOLLAR CAPACITY | 0.0061 BBL/FT  | PAY THICKNESS    | 15 FT (EST)   |
| DRILLCOLLAR LENGTH   | 590 FT         | VISCOSITY        | .50 CP        |
| BOTTOM HOLE TEMP     | 196 DEG F      | COMPRESSIBILITY  | .000013 1/PSI |
| POROSITY FRACTION    | .14 (EST)      | 1ST FLOW TIME    | 29 MIN        |
| RECORDER NUMBER      | 25178          | 1ST SHUT-IN TIME | 121 MIN       |
| RECORDER DEPTH       | 8478 FT        | 2ND FLOW TIME    | 169 MIN       |
| ELEVATION            | NOT REPORTED   | 2ND SHUT-IN TIME | 547 MIN       |
| DATUM                | NOT CALCULABLE |                  |               |

### CALCULATIONS

|                                                   |               |
|---------------------------------------------------|---------------|
| EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI) ..... | INDETERMINATE |
| NUMBER OF POINTS USED .....                       |               |
| SLOPE (PSI/LOG CYCLE) .....                       |               |
| EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI) .....   | 3174.1        |
| NUMBER OF POINTS USED .....                       | 7             |
| SLOPE (PSI/LOG CYCLE) .....                       | 195.9         |
| AVERAGE PRODUCTION RATE (BARRELS/DAY) .....       | 109.8         |
| TRANSMISSIBILITY (MD.-FT./CP.) .....              | 91.13         |
| FLOW CAPACITY (MD.-FT.) .....                     | 45.98         |
| PERMEABILITY (MD.) .....                          | 3.07          |
| PRODUCTIVITY INDEX (BARRELS/DAY/PSI) .....        | .037          |
| DAMAGE RATIO .....                                | 2.8           |
| SKIN FACTOR (S) .....                             | 12.5          |
| PRESSURE DROP DUE TO SKIN (PSI) .....             | 2795.3        |
| APPROXIMATE RADIUS OF INVESTIGATION (FT.) .....   | 95.7          |
| DRAWDOWN FACTOR (%) .....                         | N/C           |
| POTENTIOMETRIC SURFACE (FT.) .....                | N/C           |

06/01/00

# BAKER SERVICE TOOLS

Robert N. Enfield  
Operator

McComb #1  
Well Name and No.

1  
DST No.

RECORDER NO. 25178 DEPTH 8478 FT.

## INITIAL FLOW

| <u>DT(MIN)</u> | <u>PRESSURE(P SIG)</u> |
|----------------|------------------------|
| 0              | 94.8                   |
| 5              | 90.0                   |
| 10             | 89.9                   |
| 15             | 90.9                   |
| 20             | 91.7                   |
| 25             | 92.8                   |
| 29             | 94.1                   |

RECORDER NO. 25178 DEPTH 8478 FT.

## FINAL FLOW

| <u>DT(MIN)</u> | <u>PRESSURE(P SIG)</u> |
|----------------|------------------------|
| 0              | 77.2                   |
| 10             | 100.7                  |
| 20             | 113.2                  |
| 30             | 121.1                  |
| 40             | 126.8                  |
| 50             | 133.7                  |
| 60             | 139.1                  |
| 70             | 143.4                  |
| 80             | 148.6                  |
| 90             | 153.7                  |
| 100            | 156.4                  |
| 110            | 158.5                  |
| 120            | 160.3                  |
| 130            | 162.4                  |
| 140            | 163.6                  |
| 150            | 165.7                  |
| 160            | 167.8                  |
| 169            | 170.2                  |

07/06/12

# BAKER SERVICE TOOLS

Robert N. Enfield  
Operator

McComb #1  
Well Name and No.

1  
DST No.

RECORDER NO. 25178 DEPTH 8478 FT.

## INITIAL SHUT-IN

INITIAL FLOW TIME: T = 29 MIN.

| DT(MIN) | LOG((T+DT)/DT) | PRESSURE(P SIG) | DP(P SIG) |
|---------|----------------|-----------------|-----------|
| 0       |                | 94.1            | 0.0       |
| 1       | 1.477          | 140.9           | 46.8      |
| 2       | 1.190          | 184.0           | 89.9      |
| 3       | 1.028          | 224.5           | 130.4     |
| 4       | .916           | 259.5           | 165.4     |
| 5       | .833           | 297.4           | 203.3     |
| 6       | .766           | 326.4           | 232.3     |
| 7       | .711           | 360.7           | 266.5     |
| 8       | .665           | 396.5           | 302.4     |
| 9       | .626           | 425.5           | 331.3     |
| 10      | .591           | 465.4           | 371.3     |
| 12      | .534           | 533.3           | 439.2     |
| 14      | .487           | 602.7           | 508.6     |
| 16      | .449           | 674.5           | 580.4     |
| 18      | .417           | 731.6           | 637.5     |
| 20      | .389           | 801.6           | 707.5     |
| 22      | .365           | 875.0           | 780.9     |
| 24      | .344           | 951.9           | 857.7     |
| 26      | .325           | 1014.5          | 920.4     |
| 28      | .309           | 1083.1          | 989.0     |
| 30      | .294           | 1144.5          | 1050.4    |
| 40      | .237           | 1463.4          | 1369.2    |
| 50      | .199           | 1771.6          | 1677.5    |
| 60      | .171           | 2053.5          | 1959.4    |
| 70      | .151           | 2291.7          | 2197.6    |
| 80      | .134           | 2490.3          | 2396.2    |
| 90      | .121           | 2647.2          | 2553.1    |
| 100     | .111           | 2765.8          | 2671.7    |
| 110     | .102           | 2853.6          | 2759.5    |
| 120     | .094           | 2919.7          | 2825.6    |
| 121     | .093           | 2924.3          | 2830.2    |

EXTRAPOLATED PRESSURE: INDETERMINATE

08/1/12

# BAKER

## SERVICE TOOLS

Robert N. Enfield  
Operator

McComb #1  
Well Name and No

1  
DST No.

RECORDER NO. 25178 DEPTH 8478 FT.

### FINAL SHUT-IN

TOTAL FLOW TIME: T = 198 MIN.

| DT(MIN) | LOG((T+DT)/DT) | PRESSURE(P SIG) | DP(P SIG) |
|---------|----------------|-----------------|-----------|
| 0       |                | 170.2           | 0.0       |
| 1       | 2.299          | 241.8           | 71.6      |
| 2       | 2.000          | 327.4           | 157.2     |
| 3       | 1.826          | 417.9           | 247.7     |
| 4       | 1.703          | 498.8           | 328.6     |
| 5       | 1.609          | 567.5           | 397.3     |
| 6       | 1.531          | 625.9           | 455.7     |
| 7       | 1.467          | 689.4           | 519.2     |
| 8       | 1.411          | 751.8           | 581.6     |
| 9       | 1.362          | 803.7           | 633.5     |
| 10      | 1.318          | 875.5           | 705.3     |
| 12      | 1.243          | 991.3           | 821.1     |
| 14      | 1.180          | 1096.4          | 926.2     |
| 16      | 1.126          | 1198.3          | 1028.1    |
| 18      | 1.079          | 1291.8          | 1121.6    |
| 20      | 1.037          | 1398.2          | 1228.0    |
| 22      | 1.000          | 1474.8          | 1304.6    |
| 24      | .966           | 1556.2          | 1386.0    |
| 26      | .935           | 1640.8          | 1470.6    |
| 28      | .907           | 1721.2          | 1550.9    |
| 30      | .881           | 1789.3          | 1619.1    |
| 40      | .775           | 2097.8          | 1927.6    |
| 50      | .695           | 2364.3          | 2194.1    |
| 60      | .633           | 2544.8          | 2374.6    |
| 70      | .583           | 2694.6          | 2524.4    |
| 80      | .541           | 2808.6          | 2638.4    |
| 90      | .505           | 2896.7          | 2726.5    |
| 100     | .474           | 2955.5          | 2785.2    |
| 120     | .423           | 3027.1          | 2856.9    |
| 140     | .383           | 3066.4          | 2896.2    |
| 160     | .350           | 3077.6          | 2907.4    |
| 180     | .322           | 3096.1          | 2925.9    |
| 200     | .299           | 3106.8          | 2936.6    |
| 250     | .253           | 3122.5          | 2952.3    |
| 300     | .220           | 3131.4          | 2961.2    |
| 350     | .195           | 3137.3          | 2967.1    |
| 400     | .175           | 3142.4          | 2972.2    |

09/15/12

# BAKER SERVICE TOOLS

Robert N. Enfield  
Operator

McComb #1  
Well Name and No.

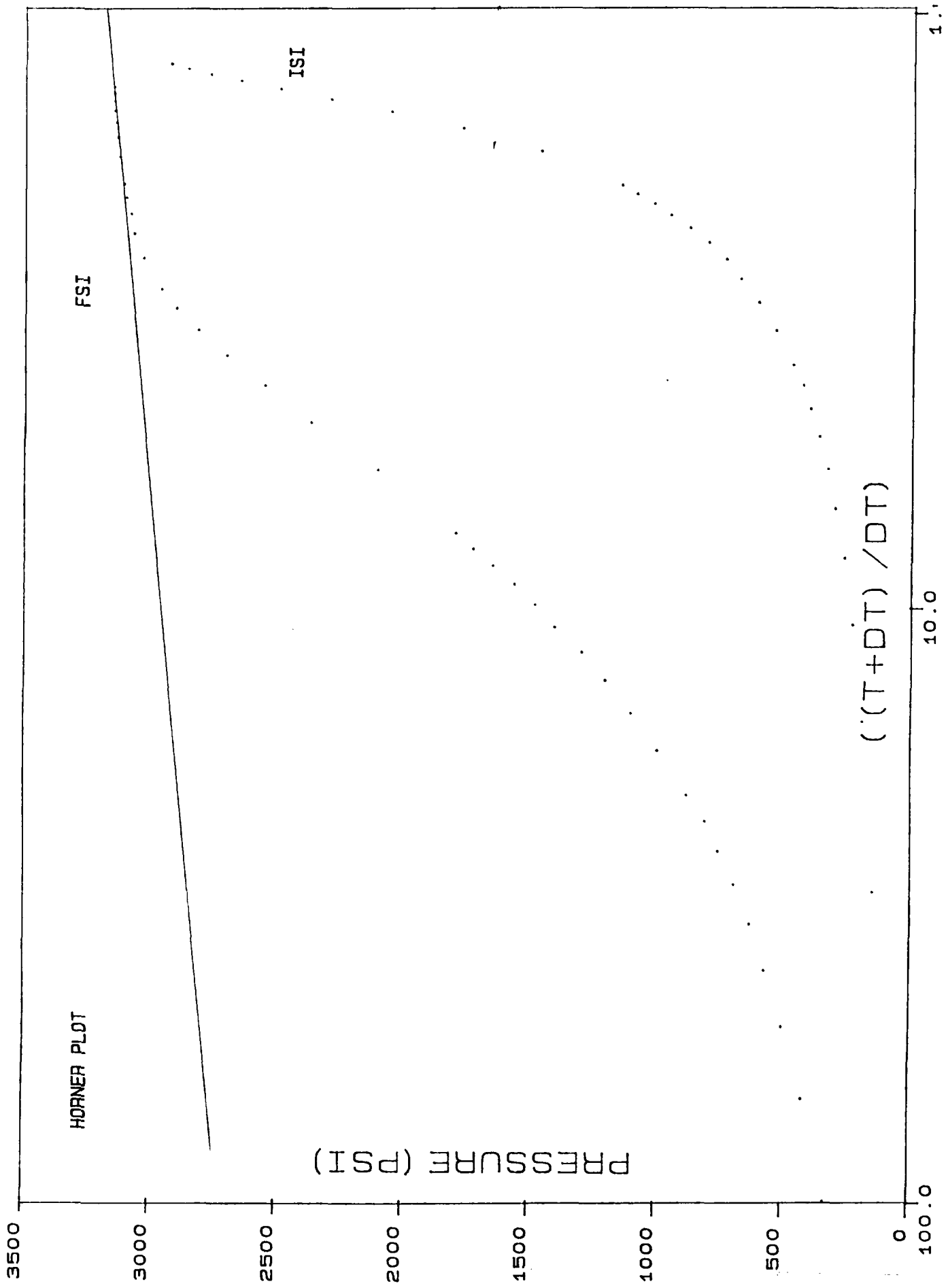
1  
DST No

## FINAL SHUT-IN CONTINUED

| <u>DT(MIN)</u> | <u>LOG((T+DT)/DT)</u> | <u>PRESSURE(P SIG)</u> | <u>DP(P SIG)</u> |
|----------------|-----------------------|------------------------|------------------|
| 450            | .158                  | 3143.4                 | 2973.2           |
| 500            | .145                  | 3144.9                 | 2974.7           |
| 547            | .134                  | 3145.7                 | 2975.5           |

EXTRAPOLATED PRESSURE: 3174.1 PSI  
SLOPE: 195.9 PSI/LOG CYCLE  
POINTS USED: 7

D 10 / - 12

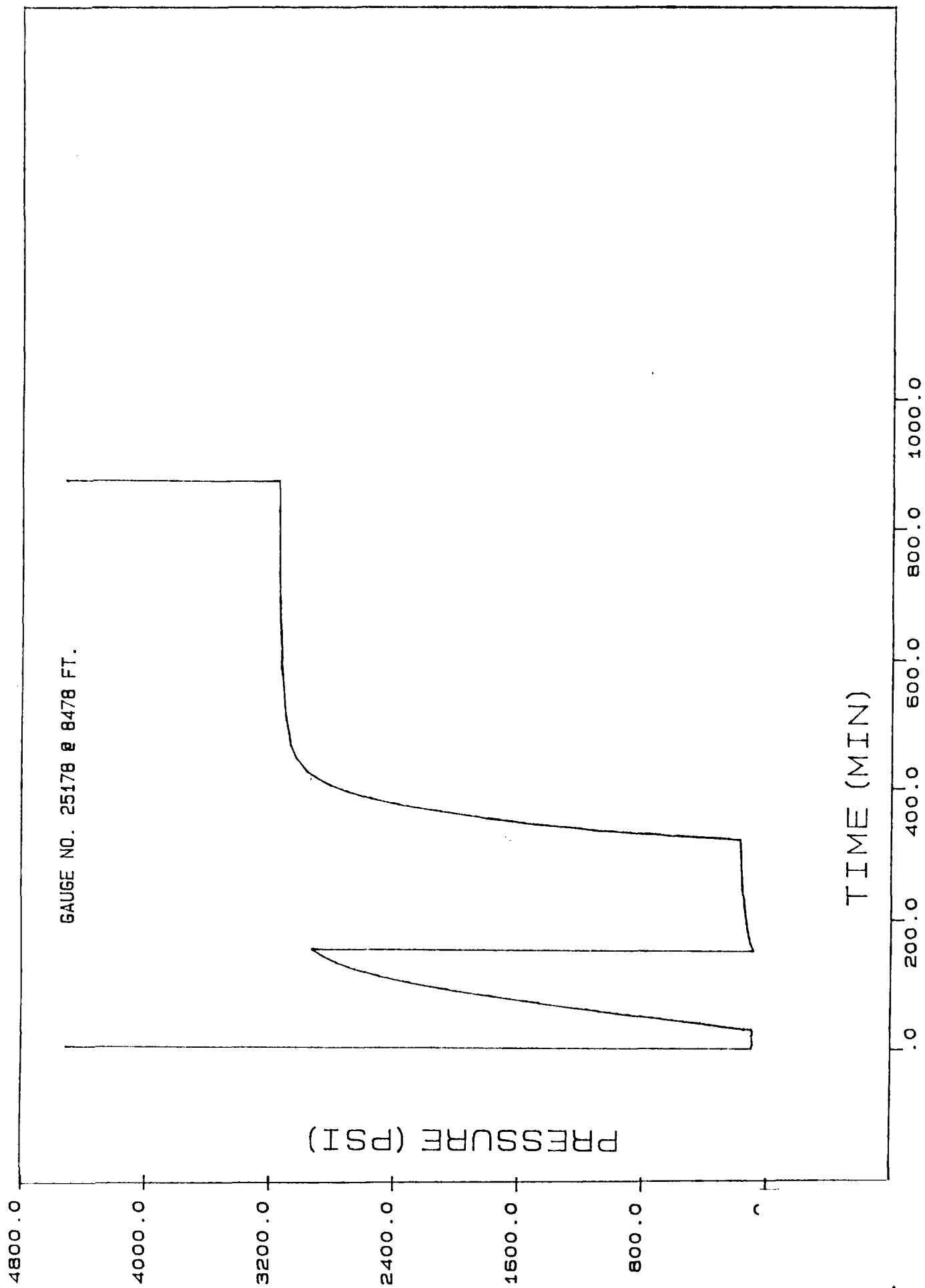


LOG/LOG PLOT

ISI

ISI

P17/017



P13/10513