Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company McCoy Petroleum Corporation & K. & E. Petroleum Inc. Lease & Well No. Reed #1-23

Elevation ----- Formation Mississippi Effective Pay ---- Ft. Ticket No. 6944

Date 10/15/80 Sec. 23 Twp. 34S Range 14W County Barber State Kansas

Test Approved by Robert E. McCann Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 4750 ft. to 4800 ft. Total Depth 4800 ft.

Packer Depth 4745 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4750 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4753 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4797 ft. Recorder Number 1565 Cap. 4900

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Sweetman Drilling Rig #1 Drill Collar Length 240 I. D. 2.2 in.

Mud Type gel Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 5 cc. Drill Pipe Length 4481 I. D. 3.8 in.

Chlorides ---- P.P.M. Test Tool Length 29 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 405 Anchor Length 19 DC 31 ft. Size 5½OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½FH in.

Blow: Strong blow throughout test.

| | | | |
|---|---|---|---|
| Recovered 1580 ft. of | gassy mud | Chlorides 11th stand | 22,000 ppm |
| Recovered 310 ft. of | watery gas cut mud | 20th stand | 22,000 ppm |
| Recovered 744 ft. of | gassy water | 27th stand | 30,000 ppm |
| Recovered ft. of | | 32nd stand | 32,000 ppm |
| Recovered 2634 ft. of | Total fluid | Bottom | 36,000 ppm |

Remarks:

Time Set Packer(s) 8:39 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 1:09 A.M. P.M. Maximum Temperature 138°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2454 | P.S.I. | |
| Initial Flow Period | Minutes | 30 | (B) | 204 * | P.S.I. to (C) | 664 P.S.I. |
| Initial Closed In Period | Minutes | 45 | (D) | 2032 | P.S.I. | |
| Final Flow Period | Minutes | 100 | (E) | 751 | P.S.I. to (F) | 1227 P.S.I. |
| Final Closed In Period | Minutes | 87 | (G) | 1980 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 2373 | P.S.I. | |

WTC

## WESTERN TESTING CO., INC.

### Pressure Data

Date 10/15/80 Test Ticket No. 6944

Recorder No. 5673 Capacity 5400 Location 4753 Ft.

Clock No. --- Elevation - Well Temperature 138 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 2454 | P.S.I. |
| B | First Initial Flow Pressure | 204 * | P.S.I. |
| C | First Final Flow Pressure | 664 | P.S.I. |
| D | Initial Closed-in Pressure | 2032 | P.S.I. |
| E | Second Initial Flow Pressure | 751 | P.S.I. |
| F | Second Final Flow Pressure | 1227 | P.S.I. |
| G | Final Closed-in Pressure | 1980 | P.S.I. |
| H | Final Hydrostatic Mud | 2373 | P.S.I. |

| | Time Given | | Time Computed | |
|---|---|---|---|---|
| Open Tool | 8:39A | M | | |
| First Flow Pressure | 30 | Mins. | 30 | Mins. |
| Initial Closed-in Pressure | 45 | Mins. | 45 | Mins. |
| Second Flow Pressure | 105 | Mins. | 100 | Mins. |
| Final Closed-in Pressure | 90 | Mins. | 87 | Mins. |

* Pressures questionable due to plugging action.

### PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 204 * |
| P 2 5 | 325 * |
| P 3 10 | 437 * |
| P 4 15 | 505 * |
| P 5 20 | 568 * |
| P 6 25 | 617 * |
| P 7 30 | 664 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 664 |
| 3 | 1546 |
| 6 | 1784 |
| 9 | 1868 |
| 12 | 1916 |
| 15 | 1946 |
| 18 | 1970 |
| 21 | 1981 |
| 24 | 1995 |
| 27 | 2003 |
| 30 | 2011 |
| 33 | 2015 |
| 36 | 2019 |
| 39 | 2023 |
| 42 | 2027 |
| 45 | 2032 |

**Second Flow Pressure**
Breakdown: 20 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 751 |
| 5 | 762 |
| 10 | 809 |
| 15 | 847 |
| 20 | 880 |
| 25 | 915 |
| 30 | 945 |
| 35 | 967 |
| 40 | 995 |
| 45 | 1022 |
| 50 | 1043 |
| 55 | 1065 |
| 60 | 1086 |
| 65 | 1111 |
| 70 | 1135 |
| 75 | 1151 |
| 80 | 1168 |
| 85 | 1181 |
| 90 | 1194 |
| 95 | 1210 |
| 100 | 1227 |

**Final Shut-In**
Breakdown: 29 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 1227 |
| 3 | 1551 |
| 6 | 1670 |
| 9 | 1746 |
| 12 | 1795 |
| 15 | 1827 |
| 18 | 1851 |
| 21 | 1870 |
| 24 | 1884 |
| 27 | 1892 |
| 30 | 1905 |
| 33 | 1911 |
| 36 | 1916 |
| 39 | 1922 |
| 42 | 1930 |
| 45 | 1938 |
| 48 | 1946 |
| 51 | 1951 |
| 54 | 1955 |
| 57 | 1957 |
| 60 | 1959 |

continued next page

# WESTERN TESTING CO., INC.

## Pressure Data

Date 10/15/80 Test Ticket No. 6944

Recorder No. 5673 Capacity 5400 Location 4753 Ft.

Clock No. --- Elevation - Well Temperature 138 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 2454 | P.S.I. |
| B | First Initial Flow Pressure | 204 * | P.S.I. |
| C | First Final Flow Pressure | 664 | P.S.I. |
| D | Initial Closed-in Pressure | 2032 | P.S.I. |
| E | Second Initial Flow Pressure | 751 | P.S.I. |
| F | Second Final Flow Pressure | 1227 | P.S.I. |
| G | Final Closed-in Pressure | 1980 | P.S.I. |
| H | Final Hydrostatic Mud | 2373 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 8:39A M | |
| First Flow Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| Second Flow Pressure | 105 Mins. | 100 Mins. |
| Final Closed-in Pressure | 90 Mins. | 87 Mins. |

* Pressures questionable due to plugging action.

## PRESSURE BREAKDOWN

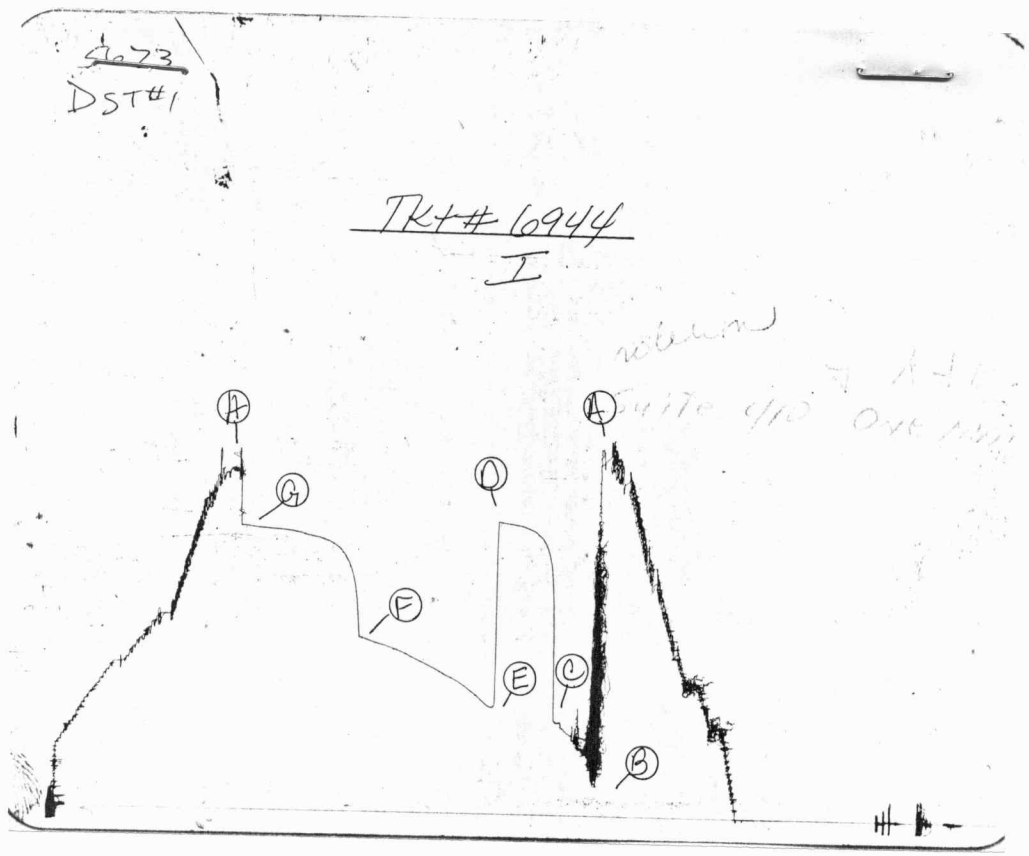
**First Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

**Initial Shut-In**
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

**Second Flow Pressure**
Breakdown: 20 Inc.
of 5 mins. and a
final inc. of 0 Min.

**Final Shut-In**
Breakdown: 29 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---|---|---|---|---|---|---|---|
| P 1 | | | | | | 63 | 1962 |
| P 2 | | | | | | 66 | 1964 |
| P 3 | | | | | | 69 | 1966 |
| P 4 | | | | | | 72 | 1968 |
| P 5 | | | | | | 75 | 1970 |
| P 6 | | | | | | 78 | 1973 |
| P 7 | | | | | | 81 | 1976 |
| P 8 | | | | | | 84 | 1978 |
| P 9 | | | | | | 87 | 1980 |
| P10 | | | | | | | |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |




This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 2461 | 2454 | PSI |
| (B) | First Initial Flow Pressure | 478 | 204 * | PSI |
| (C) | First Final Flow Pressure | 642 | 664 | PSI |
| (D) | Initial Closed-in Pressure | 2013 | 2032 | PSI |
| (E) | Second Initial Flow Pressure | 751 | 751 | PSI |
| (F) | Second Final Flow Pressure | 1214 | 1227 | PSI |
| (G) | Final Closed-in Pressure | 1972 | 1980 | PSI |
| (H) | Final Hydrostatic Mud | 2366 | 2373 | PSI |

COMPANY _____ LEASE AND WELL NO. _____ SEC. _____ TWP. _____ RGE. _____ TEST NO. _____ DATE _____