WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company K & E Petroleum, Inc. Lease & Well No. Petersilie #1

Elevation 2327 Kelly Bushing Formation Fort Scott Effective Pay - Ft. Ticket No. 7177

Date 10-10-80 Sec. 12 Twp. 20S Range 24W County Ness State Kansas

Test Approved by Thomas R. Satters Western Representative Steve Michellich

Formation Test No. 1 Interval Tested from 4286 ft. to 4316 ft. Total Depth 4316 ft.

Packer Depth 4286 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4281 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4309 ft. Recorder Number 1049 Cap. 3500

Bottom Recorder Depth (Outside) 4313 ft. Recorder Number 1134 Cap. 4500

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

Drilling Contractor Abercrombie Rig #12 Drill Collar Length 345 I. D. 2.25 in.

Mud Type Drispac Viscosity 40 Weight Pipe Length 313 I. D. 2.76 in.

Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 3607 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make None Serial Number - Anchor Length 30 ft. Size 5½ 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 4½ XH in.

Blow: Initial flow period fair blow increasing to strong blow off bottom of bucket in 26 minutes. Final flow period fair blow increasing to strong blow off bottom of bucket in 19 Minutes

Recovered 60 ft. of slightly oil cut mud - 5% oil, 95% mud

Recovered 560 ft. of gas in pipe

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:50 ~~A.M.~~ P.M. Time Started Off Bottom 2:35 ~~A.M.~~ P.M. Maximum Temperature 114

Initial Hydrostatic Pressure (A) 2189 P.S.I.

Initial Flow Period Minutes 30 (B) 55 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period Minutes 42 (D) 239 P.S.I.

Final Flow Period Minutes 30 (E) 63 P.S.I. to (F) 59 P.S.I.

Final Closed In Period Minutes 63 (G) 249 P.S.I.

Final Hydrostatic Pressure (H) 2174 P.S.I.

## WESTERN TESTING CO., INC.
### Pressure Data

Date 10-10-80 Test Ticket No. 7177

Recorder No. 1049 Capacity 3500 Location 4309 Ft.

Clock No. ---- Elevation 2327 Kelly Bushing Well Temperature 114 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2189 P.S.I. | | Open Tool | 11:50 A M | |
| B | First Initial Flow Pressure | 55 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 44 P.S.I. | | Initial Closed-in Pressure | 45 Mins. | 42 Mins. |
| D | Initial Closed-in Pressure | 239 P.S.I. | | Second Flow Pressure | 30 Mins. | 30 Mins. |
| E | Second Initial Flow Pressure | 63 P.S.I. | | Final Closed-in Pressure | 60 Mins. | 63 Mins. |
| F | Second Final Flow Pressure | 59 P.S.I. | | | | |
| G | Final Closed-in Pressure | 249 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2174 P.S.I. | | | | |

## PRESSURE BREAKDOWN

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

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 55 |
| P 2 | 5 | 48 |
| P 3 | 10 | 44 |
| P 4 | 15 | 44 |
| P 5 | 20 | 44 |
| P 6 | 25 | 44 |
| P 7 | 30 | 44 |
| P 8 | | |
| P 9 | | |
| P10 | | |
| P11 | | |
| P12 | | |
| P13 | | |
| P14 | | |
| P15 | | |
| P16 | | |
| P17 | | |
| P18 | | |
| P19 | | |
| P20 | | |

**Initial Shut-In**
Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 44 |
| | 3 | 48 |
| | 6 | 60 |
| | 9 | 77 |
| | 12 | 95 |
| | 15 | 108 |
| | 18 | 123 |
| | 21 | 143 |
| | 24 | 161 |
| | 27 | 179 |
| | 30 | 194 |
| | 33 | 207 |
| | 36 | 218 |
| | 39 | 227 |
| | 42 | 239 |

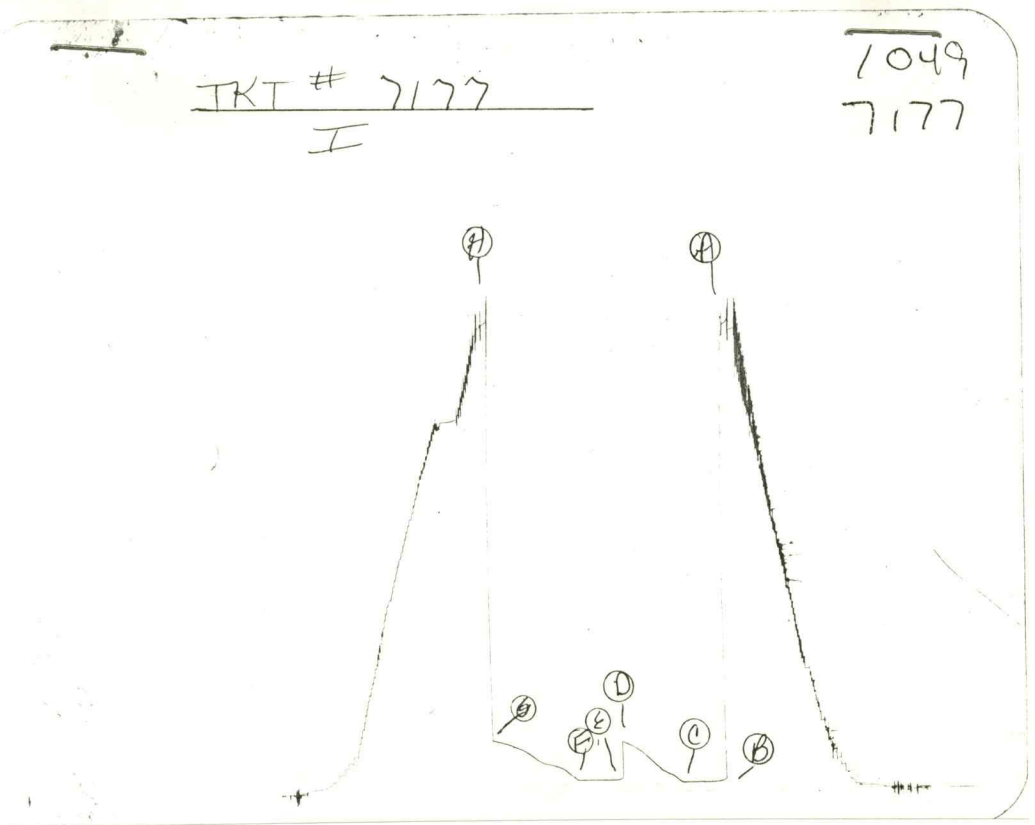
**Second Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 63 |
| | 5 | 59 |
| | 10 | 59 |
| | 15 | 59 |
| | 20 | 59 |
| | 25 | 59 |
| | 30 | 59 |

**Final Shut-In**
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| | 0 | 59 |
| | 3 | 62 |
| | 6 | 77 |
| | 9 | 93 |
| | 12 | 112 |
| | 15 | 121 |
| | 18 | 126 |
| | 21 | 132 |
| | 24 | 136 |
| | 27 | 137 |
| | 30 | 148 |
| | 33 | 163 |
| | 36 | 178 |
| | 39 | 192 |
| | 42 | 201 |
| | 45 | 212 |
| | 48 | 218 |
| | 51 | 229 |
| | 54 | 233 |
| | 57 | 238 |
| | 60 | 244 |
| | 63 | 249 |

COMPANY K & E Petroleum, Inc. LEASE AND WELL NO. Petersilie #1 SEC. 12 TWP. 20S RGE. 24W TEST NO. 1 DATE 10-10-80




This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 2187 | 2189 | PSI |
| (B) | First Initial Flow Pressure | 46 | 55 | PSI |
| (C) | First Final Flow Pressure | 46 | 44 | PSI |
| (D) | Initial Closed-in Pressure | 247 | 239 | PSI |
| (E) | Second Initial Flow Pressure | 55 | 63 | PSI |
| (F) | Second Final Flow Pressure | 55 | 59 | PSI |
| (G) | Final Closed-in Pressure | 256 | 249 | PSI |
| (H) | Final Hydrostatic Mud | 2178 | 2174 | PSI |

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P.O. Box 1599 (316) 262-5861

Company K. & E. Petroleum, Inc. Lease & Well No. Petersilie #1

Elevation 2327 Kelly Bushing Formation Fort Scott Effective Pay --- Ft. Ticket No. 7178

Date 10/11/80 Sec. 12 Twp. 20S Range 24W County Ness State Kansas

Test Approved by Thomas R. Satter Western Representative Steve Michellich

Formation Test No. 2 Interval Tested from 4325 ft. to 4338 ft. Total Depth 4338 ft.

Packer Depth 4325 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4320 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4331 ft. Recorder Number 1049 Cap. 3500

Bottom Recorder Depth (Outside) 4335 ft. Recorder Number 1134 Cap. 4500

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

Drilling Contractor Abercrombie Drlg. Rig #12 Drill Collar Length 345 I. D. 2.25 in.

Mud Type drispac Viscosity 40 Weight Pipe Length 313 I. D. 2.76 in.

Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length 3646 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 19 ft. Tool Size 5½ in.

Jars: Make None Serial Number - Anchor Length 13 ft. Size 5½ 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 4½XH in.

Blow: Initial flow period fair blow increasing to strong blow in sixteen minutes. Final flow peri fair blow increasing to strong blow in nineteen minutes.

Recovered 464 ft. of muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:15 ~~P.M.~~ A.M. Time Started Off Bottom 6:00 ~~P.M.~~ A.M. Maximum Temperature 105°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 2211 P.S.I. | | | |
| Initial Flow Period | Minutes 30 | (B) 46 P.S.I. | to | (C) 139 P.S.I. | | |
| Initial Closed In Period | Minutes 48 | (D) 1126 P.S.I. | | | | |
| Final Flow Period | Minutes 30 | (E) 185 P.S.I. | to | (F) 223 P.S.I. | | |
| Final Closed In Period | Minutes 54 | (G) 1120 P.S.I. | | | | |
| Final Hydrostatic Pressure | | | (H) 2205 P.S.I. | | | |

# WESTERN TESTING CO., INC.
## Pressure Data

ıte 10/11/80 Test Ticket No. 7178

corder No. 1049 Capacity 3500 Location 4331 Ft.

ock No. -- Elevation 2327 Kelly Bushing Well Temperature 105 °F

| int | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| Initial Hydrostatic Mud | 2211 P.S.I. | Open Tool | 3:15A M | |
| First Initial Flow Pressure | 46 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| First Final Flow Pressure | 139 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 48 Mins. |
| Initial Closed-in Pressure | 1126 P.S.I. | Second Flow Pressure | 30 Mins. | 30 Mins. |
| Second Initial Flow Pressure | 185 P.S.I. | Final Closed-in Pressure | 60 Mins. | 54 Mins. |
| Second Final Flow Pressure | 223 P.S.I. | | | |
| Final Closed-in Pressure | 1120 P.S.I. | | | |
| Final Hydrostatic Mud | 2205 P.S.I. | | | |

## PRESSURE BREAKDOWN

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

**Initial Shut-In**
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

**Final Shut-In**
Breakdown: 18 Inc.
of 3 mins. and a
final inc. of 0 Min.

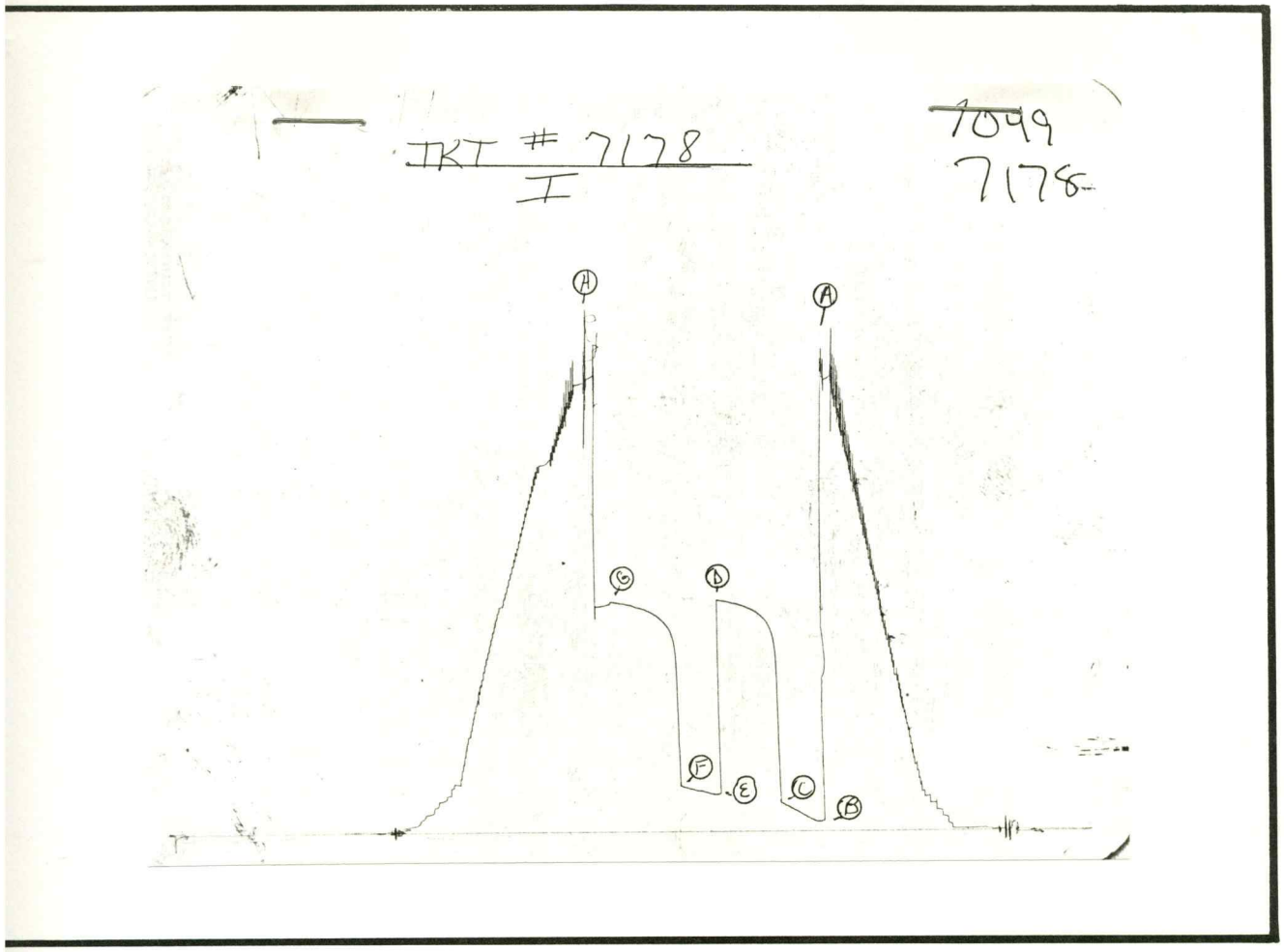
| int ins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---|---|---|---|---|---|---|---|
| 1 0 | 46 | 0 | 139 | 0 | 185 | 0 | 223 |
| 2 5 | 51 | 3 | 615 | 5 | 183 | 3 | 722 |
| 3 10 | 64 | 6 | 923 | 10 | 190 | 6 | 936 |
| 4 15 | 84 | 9 | 991 | 15 | 200 | 9 | 989 |
| 5 20 | 104 | 12 | 1024 | 20 | 206 | 12 | 1015 |
| 6 25 | 123 | 15 | 1045 | 25 | 214 | 15 | 1032 |
| 7 30 | 139 | 18 | 1062 | 30 | 223 | 18 | 1044 |
| 8 | | 21 | 1076 | | | 21 | 1065 |
| 9 | | 24 | 1084 | | | 24 | 1073 |
| 0 | | 27 | 1095 | | | 27 | 1083 |
| 1 | | 30 | 1101 | | | 30 | 1089 |
| 2 | | 33 | 1108 | | | 33 | 1094 |
| 3 | | 36 | 1113 | | | 36 | 1100 |
| 4 | | 39 | 1116 | | | 39 | 1105 |
| 5 | | 42 | 1121 | | | 42 | 1108 |
| 6 | | 45 | 1123 | | | 45 | 1113 |
| 7 | | 48 | 1126 | | | 48 | 1115 |
| 8 | | | | | | 51 | 1119 |
| 9 | | | | | | 54 | 1120 |
| 0 | | | | | | | |

COMPANY K. & E. PETROLEUM, INC.

LEASE AND WELL NO. PETERSILIE #1

SEC. 12 TWP. 20S RGE. 24W

TEST NO. 2 DATE 10/11/80




This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 2205 | 2211 | PSI |
| (B) | First Initial Flow Pressure | 37 | 46 | PSI |
| (C) | First Final Flow Pressure | 137 | 139 | PSI |
| (D) | Initial Closed-in Pressure | 1135 | 1126 | PSI |
| (E) | Second Initial Flow Pressure | 183 | 185 | PSI |
| (F) | Second Final Flow Pressure | 229 | 223 | PSI |
| (G) | Final Closed-in Pressure | 1126 | 1120 | PSI |
| (H) | Final Hydrostatic Mud | 2196 | 2205 | PSI |

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

Company K & E Petroleum, Inc. Lease & Well No. Petersilie #1

Elevation 2327 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 7179

Date 10-11-80 Sec. 12 Twp. 20S Range 24W County Ness State Kansas

Test Approved by Thomas R. Satter Western Representative Steve Michellich

Formation Test No. 3 Interval Tested from 4419 ft. to 4437 ft. Total Depth 4437 ft.

Packer Depth 4419 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4414 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4430 ft. Recorder Number 1049 Cap. 3500

Bottom Recorder Depth (Outside) 4434 ft. Recorder Number 1134 Cap. 4500

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

Drilling Contractor Abercrombie Rig #12 Drill Collar Length 345 I. D. 2.25 in.

Mud Type Drispac Viscosity 47 Weight Pipe Length 313 I. D. 2.76 in.

Weight 9.5 Water Loss 10.4 cc. Drill Pipe Length 3740 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make None Serial Number - Anchor Length 18 ft. Size 5½ 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 4½ XH in.

Blow: Initial flow period strong surging blow off bottom of bucket in 14 minutes. Final flow period strong blow throughout.

Recovered 80 ft. of clean gassy oil

Recovered 186 ft. of oil cut mud - 30% oil, 70% mud

Recovered 186 ft. of mud cut oil - 80% oil, 20% mud

Recovered 124 ft. of gas in pipe

Recovered ft. of

Remarks:

Time Set Packer(s) 9:50 ~~A.M.~~ P.M. Time Started Off Bottom 12:35 A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure (A) 2310 P.S.I.

Initial Flow Period Minutes 30 (B) 73* P.S.I. to (C) 255* P.S.I.

Initial Closed In Period Minutes 51 (D) 896 P.S.I.

Final Flow Period Minutes 30 (E) 198* P.S.I. to (F) 212 P.S.I.

Final Closed In Period Minutes 42 (G) 824 P.S.I.

Final Hydrostatic Pressure (H) 2293 P.S.I.

WT

# WESTERN TESTING CO., INC.

## Pressure Data

Date 10-11-80 Test Ticket No. 7179

Recorder No. 1049 Capacity 3500 Location 4430 Ft.

Clock No. - Elevation 2327 Kelly Bushing Well Temperature 106 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2310 P.S.I. | Open Tool | 9:50P M | |
| B | First Initial Flow Pressure | 73* P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 255* P.S.I. | Initial Closed-in Pressure | 45 Mins. | 51 Mins. |
| D | Initial Closed-in Pressure | 896 P.S.I. | Second Flow Pressure | 30 Mins. | 30 Mins. |
| E | Second Initial Flow Pressure | 198* P.S.I. | Final Closed-in Pressure | 60 Mins. | 42 Mins. |
| F | Second Final Flow Pressure | 212 P.S.I. | *Pressures questionable due to plugging action. | | |
| G | Final Closed-in Pressure | 824 P.S.I. | | | |
| H | Final Hydrostatic Mud | 2293 P.S.I. | | | |

## PRESSURE BREAKDOWN

### First Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 73* |
| P 2 5 | 106* |
| P 3 10 | 143* |
| P 4 15 | 152* |
| P 5 20 | 165* |
| P 6 25 | 330* |
| P 7 30 | 255* |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

### Initial Shut-In

Breakdown: 17 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 255* |
| 3 | 558* |
| 6 | 659 |
| 9 | 733 |
| 12 | 766 |
| 15 | 789 |
| 18 | 811 |
| 21 | 828 |
| 24 | 838 |
| 27 | 848 |
| 30 | 857 |
| 33 | 864 |
| 36 | 870 |
| 39 | 877 |
| 42 | 883 |
| 45 | 886 |
| 48 | 890 |
| 51 | 896 |

### Second Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 198* |
| 5 | 214* |
| 10 | 205 |
| 15 | 205 |
| 20 | 209 |
| 25 | 212 |
| 30 | 212 |

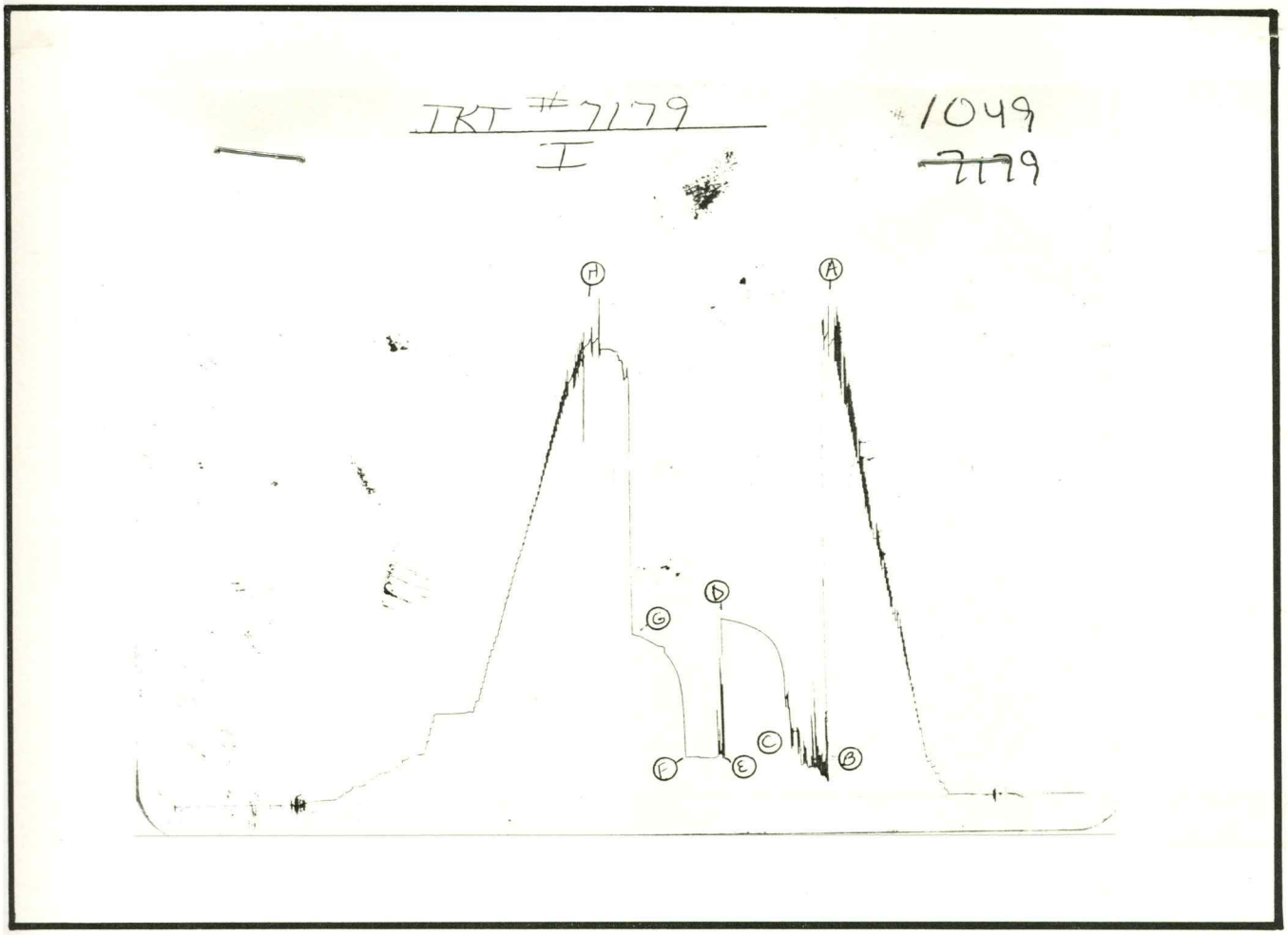
### Final Shut-In

Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 212 |
| 3 | 531 |
| 6 | 617 |
| 9 | 665 |
| 12 | 696 |
| 15 | 720 |
| 18 | 760 |
| 21 | 766 |
| 24 | 775 |
| 27 | 786 |
| 30 | 797 |
| 33 | 810 |
| 36 | 817 |
| 39 | 821 |
| 42 | 824 |

Shut-in tool was cut out.

COMPANY K & E Ptroleum, Inc. LEASE AND WELL NO. Petersilie #1 SEC. 12 TWP. 20S RGE. 24W TEST NO. 3 DATE 10-11-80




This is an actual photograph of recorder chart.

| POINT | | PRESSURE Field Reading | Office Reading | |
|---|---|---|---|---|
| (A) | Initial Hydrostatic Mud | 2306 | 2310 | PSI |
| (B) | First Initial Flow Pressure | 82 | 73* | PSI |
| (C) | First Final Flow Pressure | 165 | 255* | PSI |
| (D) | Initial Closed-in Pressure | 888 | 896 | PSI |
| (E) | Second Initial Flow Pressure | 201 | 198* | PSI |
| (F) | Second Final Flow Pressure | 211 | 212 | PSI |
| (G) | Final Closed-in Pressure | 824 | 824 | PSI |
| (H) | Final Hydrostatic Mud | 2288 | 2293 | PSI |