Company Robert Campbell OIl &Gas Opeations Lease & Well No. Klaver #5

Elevation ----- Formation Lansing Effective Pay --- Ft. Ticket No. 3557

Date 1/26/80 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Geo. Waite Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 3278' ft. to 3300 ft. Total Depth 3300' ft.

Packer Depth 3273 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3278 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3290 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 3293 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Eagle Drilling Rig#1 Drill Collar Length -- I. D. - in.

Mud Type premix-chemical Viscosity 41 Weight Pipe Length 349 I. D. 2.7 in.

Weight 9.0 Water Loss 60 cc. Drill Pipe Length 2908 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½OD in.

Jars: Make --- Serial Number -- Anchor Length 22 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: Fair blow throughout flow periods.

Recovered 60 ft. of drilling mud

Recovered 90 ft. of muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool five feet after opening.

Time Set Packer(s) 3:35 ~~P.M.~~ A.M. Time Started Off Bottom 6:50 ~~P.M.~~ A.M. Maximum Temperature 113°

| | | | |
|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 1588 P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) 69 P.S.I. to | (C) 70 P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) 1188 P.S.I. | |
| Final Flow Period | Minutes 60 | (E) 95 P.S.I. to | (F) 105 P.S.I. |
| Final Closed In Period | Minutes 60 | (G) 1161 P.S.I. | |
| Final Hydrostatic Pressure | | (H) 1576 P.S.I. | |

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

Date 1/26/80 Test Ticket No. 3557

Recorder No. 2607 Capacity 4150 Location 3290 Ft.

Clock No. ------ Elevation ------- Well Temperature 113 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 1588 P.S.I. | Open Tool | 3:35A M | |
| B First Initial Flow Pressure | 69 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 70 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D Initial Closed-in Pressure | 1188 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 95 P.S.I. | Final Closed-in Pressure | 60 Mins. | 60 Mins. |
| F Second Final Flow Pressure | 105 P.S.I. | | | |
| G Final Closed-in Pressure | 1161 P.S.I. | | | |
| H Final Hydrostatic Mud | 1576 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 | 69 |
| P 2 5 | 69 |
| P 3 10 | 68 |
| P 4 15 | 68 |
| P 5 20 | 69 |
| P 6 25 | 70 |
| P 7 30 | 70 |
| 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 | 70 |
| 3 | 621 |
| 6 | 858 |
| 9 | 960 |
| 12 | 1017 |
| 15 | 1054 |
| 18 | 1075 |
| 21 | 1100 |
| 24 | 1119 |
| 27 | 1134 |
| 30 | 1146 |
| 33 | 1155 |
| 36 | 1165 |
| 39 | 1171 |
| 42 | 1180 |
| 45 | 1188 |

**Second Flow Pressure**
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 95 |
| 5 | 95 |
| 10 | 93 |
| 15 | 92 |
| 20 | 91 |
| 25 | 91 |
| 30 | 91 |
| 35 | 91 |
| 40 | 95 |
| 45 | 97 |
| 50 | 100 |
| 55 | 103 |
| 60 | 105 |

**Final Shut-In**
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 105 |
| 3 | 527 |
| 6 | 810 |
| 9 | 906 |
| 12 | 960 |
| 15 | 998 |
| 18 | 1025 |
| 21 | 1048 |
| 24 | 1067 |
| 27 | 1079 |
| 30 | 1092 |
| 33 | 1101 |
| 36 | 1110 |
| 39 | 1119 |
| 42 | 1127 |
| 45 | 1136 |
| 48 | 1141 |
| 51 | 1146 |
| 54 | 1151 |
| 57 | 1156 |
| 60 | 1161 |

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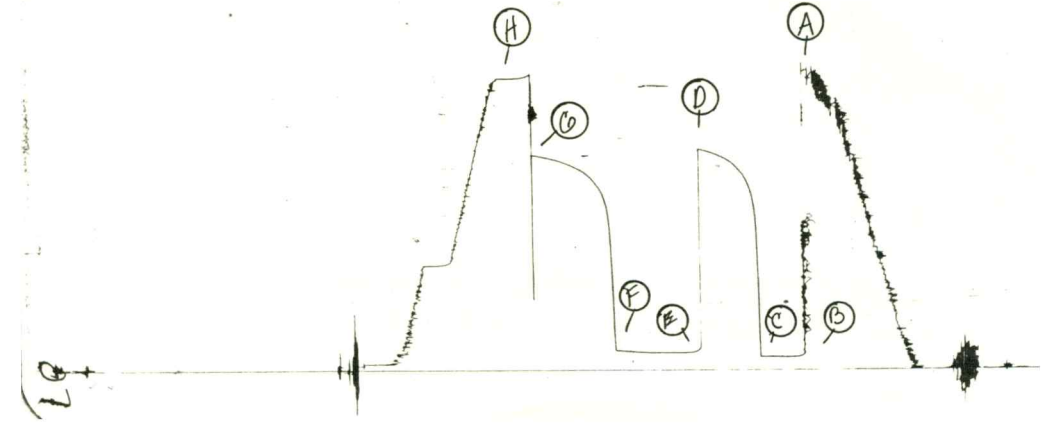

Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Klaver #5-A

Elevation 1563 Kelly Bushing Formation Misener Effective Pay --- Ft. Ticket No. 3074

Date 1/29/80 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Innes Phillips Western Representative Norman Allen

Formation Test No. 2 Interval Tested from 4434 ft. to 4467 ft. Total Depth 4467 ft.

Packer Depth 4434 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4429 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4460 ft. Recorder Number 1561 Cap. 3200

Bottom Recorder Depth (Outside) 4463 ft. Recorder Number 10980 Cap. 4200

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

Drilling Contractor Eagle Drilling Co., Inc. #1 Drill Collar Length - I. D. - in.

Mud Type premix Viscosity 45 Weight Pipe Length 350 I. D. 2.7 in.

Weight 9. Water Loss 10 cc. Drill Pipe Length 4064 I. D. 3.8 in.

Chlorides 9,500 P.P.M. Test Tool Length 53 ft. Tool Size 4½OD in.

Jars: Make - Serial Number - Anchor Length 33 ft. Size 4½OD in.

Did Well Flow? Gas 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 3½IF in.

Blow: Strong throughout test. Gas to surface in forty-five minutes. See remarks section.

Recovered 380 ft. of slightly muddy gassy oil (80% oil;20% mud)

Recovered ft. of (44 gravity corrected)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Gas gauged 17,200 maximum;15,400 minimum last forty-five minutes of Final Flow Period. Volume of gas did not stabalize.

Time Set Packer(s) 11:15 A.M. P.M. Time Started Off Bottom 2:30 ~~A.M.~~ P.M. Maximum Temperature 135°

Initial Hydrostatic Pressure ..... (A) 2236 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 82 P.S.I. to (C) 91 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1257 P.S.I.

Final Flow Period ..... Minutes 60 (E) 140 P.S.I. to (F) 145 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1226 P.S.I.

Final Hydrostatic Pressure ..... (H) 2225 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 1/29/80 Test Ticket No. 3074

Recorder No. 1561 Capacity 3200 Location 4460 Ft.

Clock No. ------ Elevation 1563 Kelly Bushing Well Temperature 135 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2236 | P.S.I. | Open Tool | 11:15A² M | |
| B | First Initial Flow Pressure | 82 | P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 91 | P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 1257 | P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 140 | P.S.I. | Final Closed-in Pressure | 60 Mins. | 60 Mins. |
| F | Second Final Flow Pressure | 145 | P.S.I. | | | |
| G | Final Closed-in Pressure | 1226 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 2225 | 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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

**Second Flow Pressure**
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

**Final Shut-In**
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | First Flow Pressure Mins. | First Flow Pressure Press. | Initial Shut-In Point Minutes | Initial Shut-In Press. | Second Flow Pressure Point Minutes | Second Flow Pressure Press. | Final Shut-In Point Minutes | Final Shut-In Press. |
|---|---|---|---|---|---|---|---|---|
| P 1 | 0 | 82 | 0 | 91 | 0 | 140 | 0 | 145 |
| P 2 | 5 | 82 | 3 | 212 | 5 | 138 | 3 | 193 |
| P 3 | 10 | 77 | 6 | 468 | 10 | 133 | 6 | 522 |
| P 4 | 15 | 79 | 9 | 896 | 15 | 132 | 9 | 1046 |
| P 5 | 20 | 82 | 12 | 1129 | 20 | 134 | 12 | 1105 |
| P 6 | 25 | 86 | 15 | 1169 | 25 | 136 | 15 | 1129 |
| P 7 | 30 | 91 | 18 | 1189 | 30 | 138 | 18 | 1142 |
| P 8 | | | 21 | 1205 | 35 | 139 | 21 | 1155 |
| P 9 | | | 24 | 1221 | 40 | 140 | 24 | 1168 |
| P10 | | | 27 | 1232 | 45 | 141 | 27 | 1181 |
| P11 | | | 30 | 1242 | 50 | 142 | 30 | 1194 |
| P12 | | | 33 | 1245 | 55 | 144 | 33 | 1198 |
| P13 | | | 36 | 1248 | 60 | 145 | 36 | 1204 |
| P14 | | | 39 | 1251 | | | 39 | 1208 |
| P15 | | | 42 | 1254 | | | 42 | 1211 |
| P16 | | | 45 | 1257 | | | 45 | 1213 |
| P17 | | | | | | | 48 | 1216 |
| P18 | | | | | | | 51 | 1219 |
| P19 | | | | | | | 54 | 1221 |
| P20 | | | | | | | 57 | 1224 |
| | | | | | | | 60 | 1226 |

Tkt # 3074
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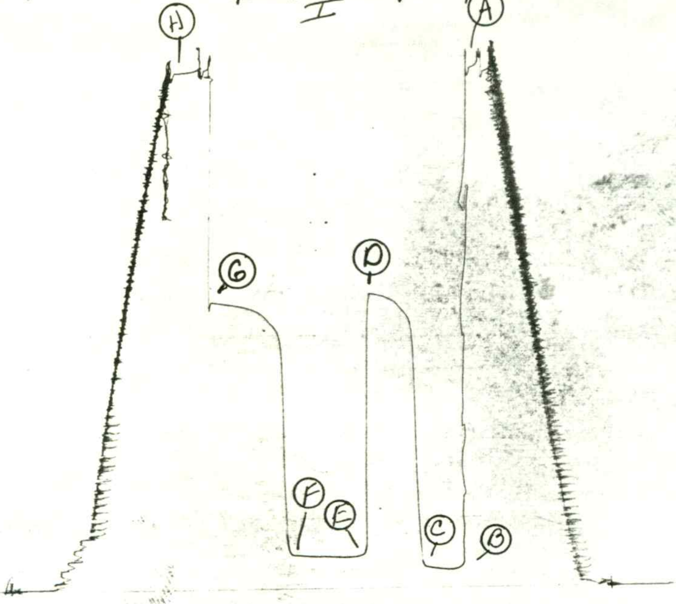

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