Company Keener Oil Company — Lease & Well No. Mervin Eck #1

Elevation 1718 Rotary Bushing — Formation Mississippi — Effective Pay ---- Ft. — Ticket No. 8205

Date 12/3/80 — Sec. 33 — Twp. 28S — Range 9W — County Kingman — State Kansas

Test Approved by Bernard H----- — Western Representative Rodger Mounts

Formation Test No. 1 — Interval Tested from 4175 ft. to 4182 ft. — Total Depth 4182 ft.

Packer Depth 4170 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4175 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4165 ft. — Recorder Number 1566 — Cap. 4300

Bottom Recorder Depth (Outside) 4182 ft. — Recorder Number 3086 — Cap. 4500

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

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

Mud Type starch — Viscosity 43 — Weight Pipe Length 274 — I. D. 3.2 in.

Weight 9.5 — Water Loss 13.6 cc. — Drill Pipe Length 3868 — I. D. 3.8 in.

Chlorides 23,000 P.P.M. — Test Tool Length 33 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 419 — Anchor Length 7 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 4½XH in.

Blow: Weak to dead ten minutes on initial flow period. Weak to dead ten minutes on final flow period.

Recovered 20 ft. of very slightly spotty drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:57 A.M. ~~P.M.~~ — Time Started Off Bottom 4:23 ~~A.M.~~ ~~P.M.~~ — Maximum Temperature 118°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 2253 | P.S.I. | | |
| Initial Flow Period | Minutes 25 | (B) 52 | P.S.I. to | (C) 38 | P.S.I. | |
| Initial Closed In Period | Minutes 27 | (D) 149 | P.S.I. | | | |
| Final Flow Period | Minutes 20 | (E) 54 | P.S.I. to | (F) 45 | P.S.I. | |
| Final Closed In Period | Minutes 21 | (G) 51 | P.S.I. | | | |
| Final Hydrostatic Pressure | | | (H) 2208 | P.S.I. | | |

WTC-

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

Date 12/3/80 Test Ticket No. 8205

Recorder No. 1566 Capacity 4300 Location 4165 Ft.

Clock No. - Elevation 1718 Rotary Bushing Well Temperature 118 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2253 P.S.I. | Open Tool | 2:57A M | |
| B First Initial Flow Pressure | 52 P.S.I. | First Flow Pressure | 26 Mins. | 25 Mins. |
| C First Final Flow Pressure | 38 P.S.I. | Initial Closed-in Pressure | 20 Mins. | 27 Mins. |
| D Initial Closed-in Pressure | 149 P.S.I. | Second Flow Pressure | 20 Mins. | 20 Mins. |
| E Second Initial Flow Pressure | 54 P.S.I. | Final Closed-in Pressure | 20 Mins. | 21 Mins. |
| F Second Final Flow Pressure | 45 P.S.I. | | | |
| G Final Closed-in Pressure | 51 P.S.I. | | | |
| H Final Hydrostatic Mud | 2208 P.S.I. | | | |

## PRESSURE BREAKDOWN

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

| Point Mins. | Press. |
|---|---|
| P 1 0 | 52 |
| P 2 5 | 41 |
| P 3 10 | 41 |
| P 4 15 | 41 |
| P 5 20 | 39 |
| P 6 25 | 38 |
| P 7 30 | |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 38 |
| 3 | 38 |
| 6 | 38 |
| 9 | 38 |
| 12 | 38 |
| 15 | 39 |
| 18 | 60 |
| 21 | 63 |
| 24 | 127 |
| 27 | 149 |

**Second Flow Pressure**
Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 54 |
| 5 | 45 |
| 10 | 45 |
| 15 | 45 |
| 20 | 45 |

**Final Shut-In**
Breakdown: 7 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 45 |
| 3 | 45 |
| 6 | 45 |
| 9 | 45 |
| 12 | 45 |
| 15 | 47 |
| 18 | 49 |
| 21 | 51 |

TH #8205

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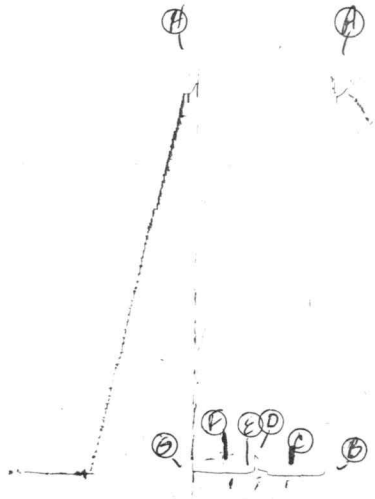

Company: Keener Oil Company | Lease & Well No.: #1 Mervin Eck

Elevation: 1718 Kelly Bushing | Formation: Viola | Effective Pay: - Ft. | Ticket No.: 8206

Date: 12-5-80 | Sec.: 33 | Twp.: 28S | Range: 9W | County: Kingman | State: Kansas

Test Approved by: Eldon J Schierling | Western Representative: Rodger A Mounts

Formation Test No.: 2 | Interval Tested from: 4457 ft. to: 4469 ft. | Total Depth: 4469 ft.

Packer Depth: 4452 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Packer Depth: 4457 ft. | Size: 6 5/8 in. | Packer Depth: - ft. | Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 4464 ft. | Recorder Number: 1566 | Cap.: 4300

Bottom Recorder Depth (Outside): 4469 ft. | Recorder Number: 3086 | Cap.: 4500

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

Drilling Contractor: Kaw Drilling Co. Rig #1 | Drill Collar Length: - | I. D.: - in.

Mud Type: Starch | Viscosity: 49 | Weight Pipe Length: 274 | I. D.: 3.2 in.

Weight: 9.5 | Water Loss: 17.6 cc. | Drill Pipe Length: 4157 | I. D.: 3.8 in.

Chlorides: 27,000 P.P.M. | Test Tool Length: 26 ft. | Tool Size: 5½OD in.

Jars: Make: WTC | Serial Number: 419 | Anchor Length: 12 ft. | Size: 5½OD in.

Did Well Flow?: Yes | Reversed Out: Yes | 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: Good strong blow with gas to surface five minutes .Strong blow starting weaker final flow period. See attached sheet for gas measurements.

Recovered 90 ft. of froggy gassy oil

Recovered 3600 ft. of gassy oil 28 guage @ 71°F

Recovered 30 ft. of heavy mud cut oil

Recovered 30 ft. of heavy oil cut mud

Recovered ft. of

Remarks: Oil @ surface fourteen stands out. Reversed oil out & circulated through.

Time Set Packer(s): 12:26 A.M. P.M. | Time Started Off Bottom: 3:56 A.M. P.M. | Maximum Temperature: 118

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2332 | P.S.I. | |
| Initial Flow Period | Minutes | 30 | (B) | 346 P.S.I. to (C) | 843 | P.S.I. |
| Initial Closed In Period | Minutes | 60 | (D) | 1373 | P.S.I. | |
| Final Flow Period | Minutes | 60 | (E) | 899 P.S.I. to (F) | 1343 | P.S.I. |
| Final Closed In Period | Minutes | 66 | (G) | 1382 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 2299 | P.S.I. | |

WTC-

# GAS FLOW REPORT

Date 12-5-80 Ticket 8206 Company Keener Oil Company

Well Name and No. #1 Mervin Eck Dst No. 2 Interval Tested 4457-4469

County Kingman State Kansas Sec. 33 Twp. 28S Rg. 9W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---|---|---|---|---|---|---|
| | Gas to Surface 5 minutes | | **PRE FLOW** | | | |
| | 5 min. | 3.5 PSIG | ¼" Orifice | | | 17,100 C.F.P.D. |
| | 10 Min. | 4.0 PSIG | ¼" Orifice | | | 18,500 C.F.P.D. |
| | 15 Min. | 4.5 PSIG | ¼" Orifice | | | 19,500 C.F.P.D. |
| | 20 Min | 6.0 PSIG | ¼" Orifice | | | 22,900 C.F.P.D. |
| | 25 Min. | 6.0 PSIG | ¼" Orifice | | | 22,900 C.F.P.D. |
| | 30 Min. | 6.0 PSIG | ¼" Orifice | | | 22,900 C.F.P.D. |
| | Strong blow starts weak | | **SECOND FLOW** | | | |
| | 5 Min. | 1.0 PSIG | ¼" Orifice | | | 8,950 C.F.P.D. |
| | 10 Min. | 1.5 PSIG | ¼" Orifice | | | 11,020 C.F.P.D. |
| | 15 Min | 1.5 PSIG | ¼" Orifice | | | 11,020 C.F.P.D. |
| | 20 Min | 2.0 PSIG | ¼" Orifice | | | 12,700 C.F.P.D. |
| | 25 Min | 3.0 PSIG | ¼" Orifice | | | 15,700 C.F.P.D. |
| | 30 Min | 3.0 PSIG | ¼" Orifice | | | 15,700 C.F.P.D. |
| | 35 Min | 2.5 PSIG | ¼" Orifice | | | 14,300 C.F.P.D. |
| | 40 Min | 2.0 PSIG | ¼" Orifice | | | 12,700 C.F.P.D. |
| | 45 Min | 2.5 PSIG | ¼" Orifice | | | 14,300 C.F.P.D. |
| | 50 Min | 2.0 PSIG | ¼" Orifice | | | 12,700 C.F.P.D. |
| | 55 Min | 1.0 PSIG | ¼" Orifice | | | 8,950 C.F.P.D. |
| | 60 Min | 1.0 PSIG | ¼" Orifice | | | 8,950 C.F.P.D. |

## GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 12-5-80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Keener Oil Company

Authorized by Eldon J. Schierling

FORM WTC 6

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

Date 12-5-80 Test Ticket No. 8206

Recorder No. 1566 Capacity 4300 Location 4464 Ft.

Clock No. - Elevation 1718 Kelly Bushing Well Temperature 118 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2332 P.S.I. | Open Tool | 12:26P M | |
| B First Initial Flow Pressure | 346 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 843 P.S.I. | Initial Closed-in Pressure | 60 Mins. | 60 Mins. |
| D Initial Closed-in Pressure | 1373 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 899 P.S.I. | Final Closed-in Pressure | 60 Mins. | 60 Mins. |
| F Second Final Flow Pressure | 1343 P.S.I. | | | |
| G Final Closed-in Pressure | 1382 P.S.I. | | | |
| H Final Hydrostatic Mud | 2299 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 | 346 |
| P 2 5 | 357 |
| P 3 10 | 428 |
| P 4 15 | 534 |
| P 5 20 | 641 |
| P 6 25 | 744 |
| P 7 30 | 843 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 843 |
| 3 | 1300 |
| 6 | 1326 |
| 9 | 1341 |
| 12 | 1347 |
| 15 | 1356 |
| 18 | 1360 |
| 21 | 1362 |
| 24 | 1365 |
| 27 | 1367 |
| 30 | 1369 |
| 33 | 1370 |
| 36 | 1371 |
| 39 | 1372 |
| 42 | 1372 |
| 45 | 1373 |
| 48 | 1373 |
| 51 | 1373 |
| 54 | 1373 |
| 57 | 1373 |
| 60 | 1373 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 899 |
| 5 | 918 |
| 10 | 998 |
| 15 | 1068 |
| 20 | 1120 |
| 25 | 1165 |
| 30 | 1210 |
| 35 | 1244 |
| 40 | 1274 |
| 45 | 1298 |
| 50 | 1317 |
| 55 | 1332 |
| 60 | 1343 |

### Final Shut-In
Breakdown: 22 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 1343 |
| 3 | 1365 |
| 6 | 1371 |
| 9 | 1373 |
| 12 | 1377 |
| 15 | 1377 |
| 18 | 1378 |
| 21 | 1378 |
| 24 | 1379 |
| 27 | 1380 |
| 30 | 1381 |
| 33 | 1381 |
| 36 | 1381 |
| 39 | 1381 |
| 42 | 1381 |
| 45 | 1382 |
| 48 | 1382 |
| 51 | 1382 |
| 54 | 1382 |
| 57 | 1382 |
| 60 | 1382 |
| 63 | 1382 |
| 66 | 1382 |

IKT #8206

I

1564

DST #2