Company Beren Corporation — Lease & Well No. Pauline #1

Elevation 2073 Kelly Bushing — Formation — Effective Pay - Ft. — Ticket No. 10469

Date 7/8/81 — Sec. 17 — Twp. 27S — Range 15W — County Pratt — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Karl L. West, Jr.

Formation Test No. 1 — Interval Tested from 4180 ft. to 4200 ft. — Total Depth 4200 ft.

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

Packer Depth 4180 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4183 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4186 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor ~~Baradco Drlg. Co. Rig #2~~ — Drill Collar Length 342 — I. D. 2.26 in.

Mud Type chemical — Viscosity 48 — Weight Pipe Length - — I. D. - in.

Weight 9.2 — Water Loss 12.8 cc. — Drill Pipe Length 3938 — I. D. 3.8 in.

Chlorides 18,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number No — Anchor Length 20 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 weak blow throughout. Final flow period no blow; flushed tool--few bubbles.

Recovered 134 ft. of muddy salt water Chlorides 31,000 ppm

Recovered 60 ft. of heavy mud

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 12:05 A.M. ~~P.M.~~ — Time Started Off Bottom 2:35 A.M. ~~P.M.~~ — Maximum Temperature 123°

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 2122 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) 46 P.S.I. | to (C) 79 | P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) 1507 | P.S.I. | |
| Final Flow Period | Minutes 30 | (E) 90 P.S.I. | to (F) 109 | P.S.I. |
| Final Closed In Period | Minutes 45 | (G) 1504 | P.S.I. | |
| Final Hydrostatic Pressure | | (H) 2000 | P.S.I. | |

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

Date 7/8/81 Test Ticket No. 10469

Recorder No. 5673 Capacity 5400 Location 4183 Ft.

Clock No. --- Elevation 2073 Kelly Bushing Well Temperature 123 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 2122 | P.S.I. |
| B | First Initial Flow Pressure | 46 | P.S.I. |
| C | First Final Flow Pressure | 79 | P.S.I. |
| D | Initial Closed-in Pressure | 1507 | P.S.I. |
| E | Second Initial Flow Pressure | 90 | P.S.I. |
| F | Second Final Flow Pressure | 109 | P.S.I. |
| G | Final Closed-in Pressure | 1504 | P.S.I. |
| H | Final Hydrostatic Mud | 2000 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 12:05A M | |
| First Flow Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| Second Flow Pressure | 30 Mins. | 30 Mins. |
| Final Closed-in Pressure | 45 Mins. | 45 Mins. |

## PRESSURE BREAKDOWN

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

| Point Mins. | Press. |
|---|---|
| P 1 0 | 46 |
| P 2 5 | 52 |
| P 3 10 | 55 |
| P 4 15 | 62 |
| P 5 20 | 68 |
| P 6 25 | 73 |
| P 7 30 | 79 |
| 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 | 79 |
| 3 | 1160 |
| 6 | 1401 |
| 9 | 1447 |
| 12 | 1469 |
| 15 | 1480 |
| 18 | 1488 |
| 21 | 1492 |
| 24 | 1496 |
| 27 | 1499 |
| 30 | 1501 |
| 33 | 1503 |
| 36 | 1504 |
| 39 | 1505 |
| 42 | 1506 |
| 45 | 1507 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 90 |
| 5 | 90 |
| 10 | 93 |
| 15 | 98 |
| 20 | 104 |
| 25 | 107 |
| 30 | 109 |

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

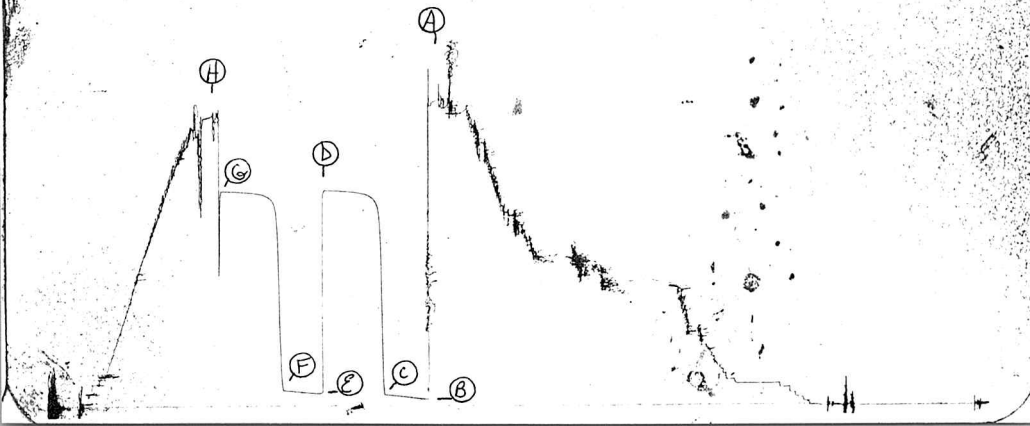
| Point Minutes | Press. |
|---|---|
| 0 | 109 |
| 3 | 972 |
| 6 | 1390 |
| 9 | 1444 |
| 12 | 1466 |
| 15 | 1477 |
| 18 | 1485 |
| 21 | 1490 |
| 24 | 1492 |
| 27 | 1495 |
| 30 | 1498 |
| 33 | 1499 |
| 36 | 1500 |
| 39 | 1501 |
| 42 | 1502 |
| 45 | 1504 |

IKT # 10469

I

DST #1

Baran corp.



Company Beren Corporation — Lease & Well No. Pauline #1

Elevation 2073 Kelly Bushing — Formation Kansas City — Effective Pay - Ft. — Ticket No. 10470

Date 7/9/81 — Sec. 17 — Twp. 27S — Range 15W — County Pratt — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Karl L. West, Jr.

Formation Test No. 2 — Interval Tested from 4305 ft. to 4370 ft. — Total Depth 4370 ft.

Packer Depth 4300 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4305 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4308 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4311 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor Baradco Drlg. Co. Rig #2 — Drill Collar Length 342 — I. D. 2.26 in.

Mud Type chemical — Viscosity 45 — Weight Pipe Length - — I. D. - in.

Weight 9.3 — Water Loss 16.0 cc. — Drill Pipe Length 4093 — I. D. 3.8 in.

Chlorides 28,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number No — Anchor Length 31' collar/34' Pef. 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 very weak blow; died in twelve minutes. Final flow no blow; flushed tool; few dozen bubbles - no blow after two minutes.

Recovered 20 ft. of muddy salt water — Chlorides 30,000 ppm

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks: Slid tool twelve feet to bottom.

Time Set Packer(s) 12:40 A.M. ~~P.M.~~ — Time Started Off Bottom 2:40 A.M. P.M. — Maximum Temperature -

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 2190 P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 22 P.S.I. | to (C) 29 | P.S.I. |
| Initial Closed In Period | Minutes 27 | (D) 1130 P.S.I. | | |
| Final Flow Period | Minutes 30 | (E) 30 P.S.I. | to (F) 35 | P.S.I. |
| Final Closed In Period | Minutes 33 | (G) 967 P.S.I. | | |
| Final Hydrostatic Pressure | | (H) 2190 P.S.I. | | |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/9/81 Test Ticket No. 10470

Recorder No. 5673 Capacity 5400 Location 4308 Ft.

Clock No. -- Elevation 2073 Kelly Bushing Well Temperature --- °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2190 P.S.I. | | Open Tool | 12:40A M | |
| B | First Initial Flow Pressure | 22 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 29 P.S.I. | | Initial Closed-in Pressure | 30 Mins. | 27 Mins. |
| D | Initial Closed-in Pressure | 1130 P.S.I. | | Second Flow Pressure | 30 Mins. | 30 Mins. |
| E | Second Initial Flow Pressure | 30 P.S.I. | | Final Closed-in Pressure | 30 Mins. | 33 Mins. |
| F | Second Final Flow Pressure | 35 P.S.I. | | | | |
| G | Final Closed-in Pressure | 967 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2190 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 | 22 |
| P 2 | 5 | 22 |
| P 3 | 10 | 22 |
| P 4 | 15 | 22 |
| P 5 | 20 | 22 |
| P 6 | 25 | 24 |
| P 7 | 30 | 29 |
| 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 | 29 |
| 3 | 41 |
| 6 | 71 |
| 9 | 158 |
| 12 | 336 |
| 15 | 566 |
| 18 | 776 |
| 21 | 948 |
| 24 | 1079 |
| 27 | 1130 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 30 Flushed tool |
| 5 | 35 |
| 10 | 35 |
| 15 | 35 |
| 20 | 35 |
| 25 | 35 |
| 30 | 35 |

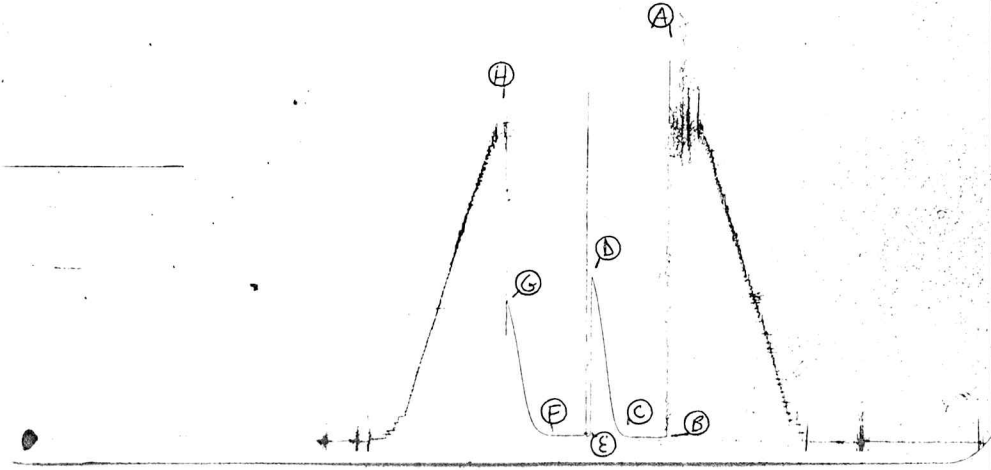
**Final Shut-In**
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 35 |
| 3 | 38 |
| 6 | 49 |
| 9 | 71 |
| 12 | 107 |
| 15 | 178 |
| 18 | 298 |
| 21 | 459 |
| 24 | 623 |
| 27 | 776 |
| 30 | 910 |
| 33 | 967 |

IKT #10470

T

5673
DST #2
Baran Corp.



Company Beren Corporation — Lease & Well No. Pauline #1

Elevation 2073 Kelly Bushing — Formation Marmaton — Effective Pay - Ft. — Ticket No. 10473

Date 7/10/81 — Sec. 17 — Twp. 27S — Range 15W — County Pratt — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Karl L. West, Jr.

Formation Test No. 3 — Interval Tested from 4407 ft. to 4460 ft. — Total Depth 4460 ft.

Packer Depth 4402 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4407 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4410 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4413 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor Baradco Drlg. Rig #2 — Drill Collar Length 342 — I. D. 2.26 in.

Mud Type chemical — Viscosity 48 — Weight Pipe Length - — I. D. - in.

Weight 9.3 — Water Loss 12.8 cc. — Drill Pipe Length 4132 — I. D. 3.8 in.

Chlorides 24,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number No — Anchor Length 31'collar/22'Perf.(53) 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 4½XHole in.

Blow: Weak to strong in thirty minutes on initial flow period. Strong throughout final flow period.

Recovered 825 ft. of gas in pipe

Recovered 110 ft. of slightly gas cut watery mud 38,000 chlorides ppm

Recovered 15 ft. of heavy oil and gas cut mud 43% mud;33% oil;24% gas

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:55 A.M. P.M. — Time Started Off Bottom 2:10 A.M. P.M. — Maximum Temperature 129°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2250 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 70 | P.S.I. to (C) | 70 | P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) | 306 | P.S.I. | | |
| Final Flow Period | Minutes 90 | (E) | 68 | P.S.I. to (F) | 92 | P.S.I. |
| Final Closed In Period | Minutes 90 | (G) | 934 | P.S.I. | | |
| Final Hydrostatic Pressure | | | (H) | 2209 | P.S.I. | |

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

Date 7/10/81 Test Ticket No. 10473

Recorder No. 5673 Capacity 5400 Location 4410 Ft.

Clock No. - Elevation 2073 Kelly Bushing Well Temperature 129 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2250 P.S.I. | Open Tool | 9:55P M | |
| B | First Initial Flow Pressure | 70 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 | 306 P.S.I. | Second Flow Pressure | 90 Mins. | 90 Mins. |
| E | Second Initial Flow Pressure | 68 P.S.I. | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 92 P.S.I. | | | |
| G | Final Closed-in Pressure | 934 P.S.I. | | | |
| H | Final Hydrostatic Mud | 2209 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 | 70 |
| P 2 5 | 70 |
| P 3 10 | 70 |
| P 4 15 | 70 |
| P 5 20 | 70 |
| 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 | 82 |
| 6 | 98 |
| 9 | 115 |
| 12 | 131 |
| 15 | 150 |
| 18 | 167 |
| 21 | 183 |
| 24 | 199 |
| 27 | 216 |
| 30 | 232 |
| 33 | 249 |
| 36 | 268 |
| 39 | 281 |
| 42 | 295 |
| 45 | 306 |

**Second Flow Pressure**
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 68 |
| 5 | 71 |
| 10 | 73 |
| 15 | 74 |
| 20 | 76 |
| 25 | 77 |
| 30 | 78 |
| 35 | 80 |
| 40 | 83 |
| 45 | 85 |
| 50 | 86 |
| 55 | 86 |
| 60 | 87 |
| 65 | 88 |
| 70 | 90 |
| 75 | 92 |
| 80 | 92 |
| 85 | 92 |
| 90 | 92 |

**Final Shut-In**
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 92 |
| 3 | 100 |
| 6 | 115 |
| 9 | 134 |
| 12 | 156 |
| 15 | 178 |
| 18 | 199 |
| 21 | 221 |
| 24 | 246 |
| 27 | 270 |
| 30 | 295 |
| 33 | 322 |
| 36 | 350 |
| 39 | 377 |
| 42 | 404 |
| 45 | 432 |
| 48 | 459 |
| 51 | 489 |
| 54 | 514 |
| 57 | 544 |
| 60 | 574 |



continued next page

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/10/81 Test Ticket No. 10473

Recorder No. 5673 Capacity 5400 Location 4410 Ft.

Clock No. - Elevation 2073 Kelly Bushing Well Temperature 129 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2250 P.S.I. | Open Tool | 9:55P M | |
| B First Initial Flow Pressure | 70 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 | 306 P.S.I. | Second Flow Pressure | 90 Mins. | 90 Mins. |
| E Second Initial Flow Pressure | 68 P.S.I. | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F Second Final Flow Pressure | 92 P.S.I. | | | |
| G Final Closed-in Pressure | 934 P.S.I. | | | |
| H Final Hydrostatic Mud | 2209 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.

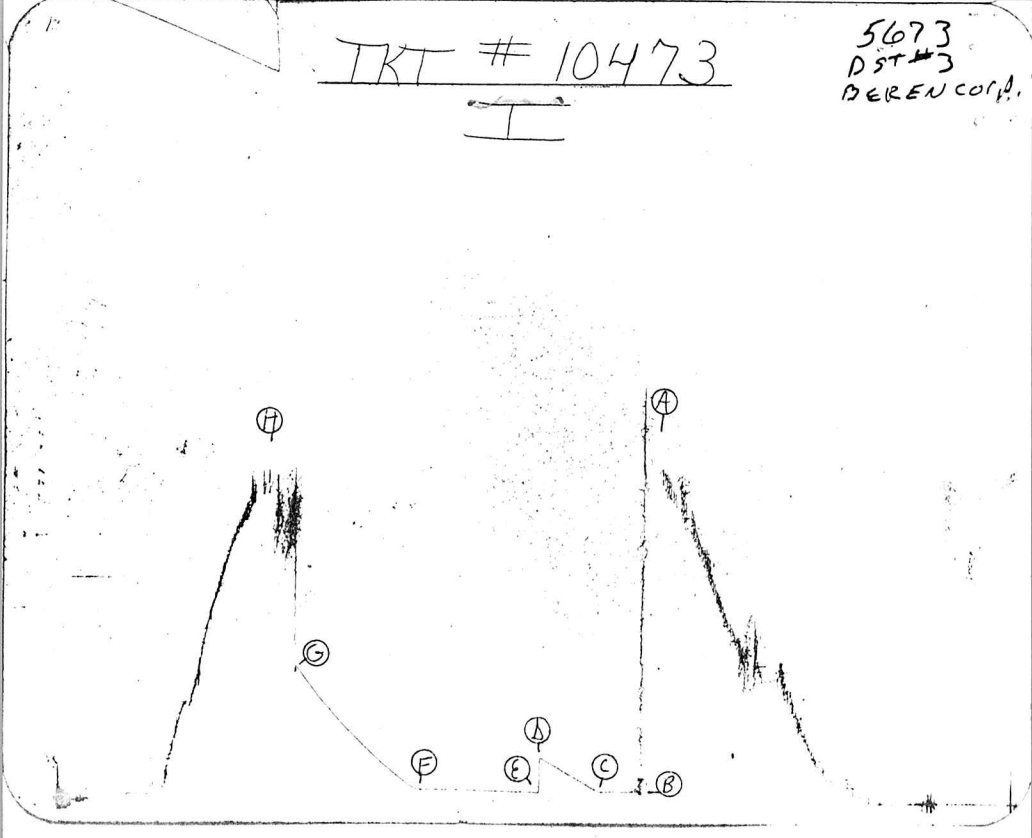
**Second Flow Pressure**
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

**Final Shut-In**
Breakdown: 30 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 | 604 |
| P 2 | | | | | | 66 | 639 |
| P 3 | | | | | | 69 | 667 |
| P 4 | | | | | | 72 | 699 |
| P 5 | | | | | | 75 | 735 |
| P 6 | | | | | | 78 | 770 |
| P 7 | | | | | | 81 | 811 |
| P 8 | | | | | | 84 | 847 |
| P 9 | | | | | | 87 | 885 |
| P10 | | | | | | 90 | 934 |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

IKT # 10473

5673
DST #3
BEREN corp.



Company Beren Corporation — Lease & Well No. Pauline #1

Elevation 2073 Kelly Bushing — Formation — Effective Pay - Ft. — Ticket No. 10474

Date 7/11/81 — Sec. 17 — Twp. 27S — Range 15W — County Pratt — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Karl L. West, Jr.

Formation Test No. 4 — Interval Tested from 4494 ft. to 4523 ft. — Total Depth 4523 ft.

Packer Depth 4489 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4494 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4497 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4500 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor Baradco Drlg. Rig #2 — Drill Collar Length 404 — I. D. 2.26 in.

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

Weight 9.4 — Water Loss 16.8 cc. — Drill Pipe Length 4132 — I. D. 3.8 in.

Chlorides 28,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number No — Anchor Length 29 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 4½XHole in.

Blow: Weak blow; dead in eighteen minutes on initial flow period. Final flow period no blow flushed tool - few bubbles.

Recovered 15 ft. of watery mud 29,000 chlorides ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid four feet to bottom.

Time Set Packer(s) 10:40 ~~A.M.~~ P.M. — Time Started Off Bottom 12:40 A.M. ~~P.M.~~ — Maximum Temperature 131°

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 2266 P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 27 P.S.I. | to (C) 27 P.S.I. | |
| Initial Closed In Period | Minutes 30 | (D) 38 P.S.I. | | |
| Final Flow Period | Minutes 30 | (E) 32 P.S.I. | to (F) 32 P.S.I. | |
| Final Closed In Period | Minutes 30 | (G) 46 P.S.I. | | |
| Final Hydrostatic Pressure | | (H) 2266 P.S.I. | | |

WTC-1

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/11/81 Test Ticket No. 10474

Recorder No. 5673 Capacity 5400 Location 4497 Ft.

Clock No. - Elevation 2073 Kelly Bushing Well Temperature 131 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2266 P.S.I. | Open Tool | 10:40P M | |
| B First Initial Flow Pressure | 27 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 27 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D Initial Closed-in Pressure | 38 P.S.I. | Second Flow Pressure | 30 Mins. | 30 Mins. |
| E Second Initial Flow Pressure | 32 P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F Second Final Flow Pressure | 32 P.S.I. | | | |
| G Final Closed-in Pressure | 46 P.S.I. | | | |
| H Final Hydrostatic Mud | 2266 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 | 27 |
| P 2 5 | 27 |
| P 3 10 | 27 |
| P 4 15 | 27 |
| P 5 20 | 27 |
| P 6 25 | 27 |
| P 7 30 | 27 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 27 |
| 3 | 28 |
| 6 | 29 |
| 9 | 30 |
| 12 | 31 |
| 15 | 33 |
| 18 | 34 |
| 21 | 35 |
| 24 | 36 |
| 27 | 37 |
| 30 | 38 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 32 |
| 5 | 32 |
| 10 | 32 |
| 15 | 32 |
| 20 | 32 |
| 25 | 32 |
| 30 | 32 |

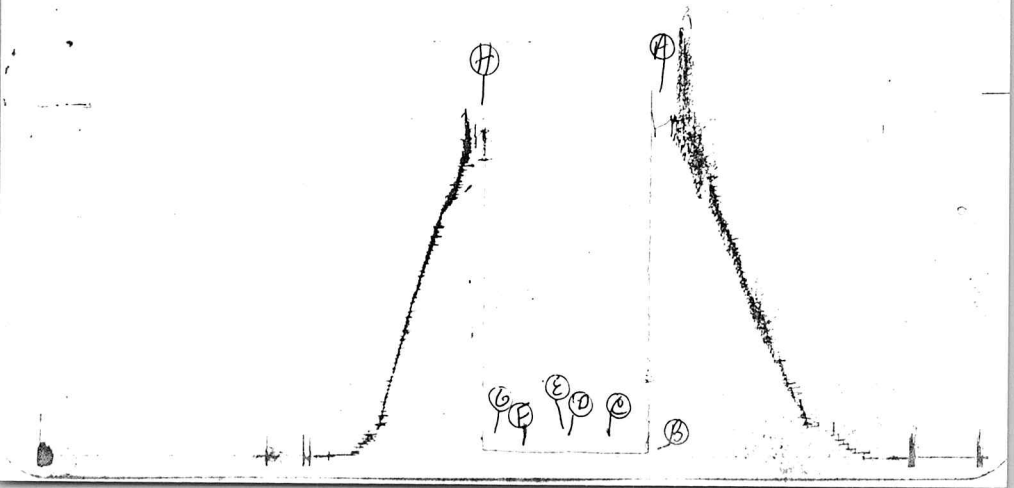
**Final Shut-In**
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 32 |
| 3 | 35 |
| 6 | 36 |
| 9 | 37 |
| 12 | 38 |
| 15 | 40 |
| 18 | 42 |
| 21 | 43 |
| 24 | 44 |
| 27 | 45 |
| 30 | 46 |

5273
DST #4
BEREN CORP.

TK+ # 10474

I



Company Beren Corporation — Lease & Well No. Pauline #1

Elevation 2073 Kelly Bushing — Formation — Effective Pay - Ft. — Ticket No. 10475

Date 7/12/81 — Sec. 17 — Twp. 27S — Range 15W — County Pratt — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Karl L. West, Jr.

Formation Test No. 5 — Interval Tested from 4517 ft. to 4546 ft. — Total Depth 4546 ft.

Packer Depth 4512 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4517 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4520 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4523 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor Baradco Drlg. Rig #2 — Drill Collar Length 507 I. D. 2.26 in.

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

Weight 9.4 — Water Loss 16.8 cc. — Drill Pipe Length 4163 I. D. 3.8 in.

Chlorides 28,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number No — Anchor Length 29 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 4½XHole in.

Blow: PACKER FAILURE

Recovered ft. of

Recovered ft. of MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: PACKER FAILURE : TRIED TWICE COULD NOT SEAT PACKERS

Time Set Packer(s) 1:00 ~~A.M.~~ P.M. — Time Started Off Bottom 1:10 ~~A.M.~~ P.M. — Maximum Temperature

Initial Hydrostatic Pressure (A) 2239 P.S.I.

Initial Flow Period Minutes (B) - P.S.I. to (C) - P.S.I.

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

Final Flow Period Minutes (E) - P.S.I. to (F) - P.S.I.

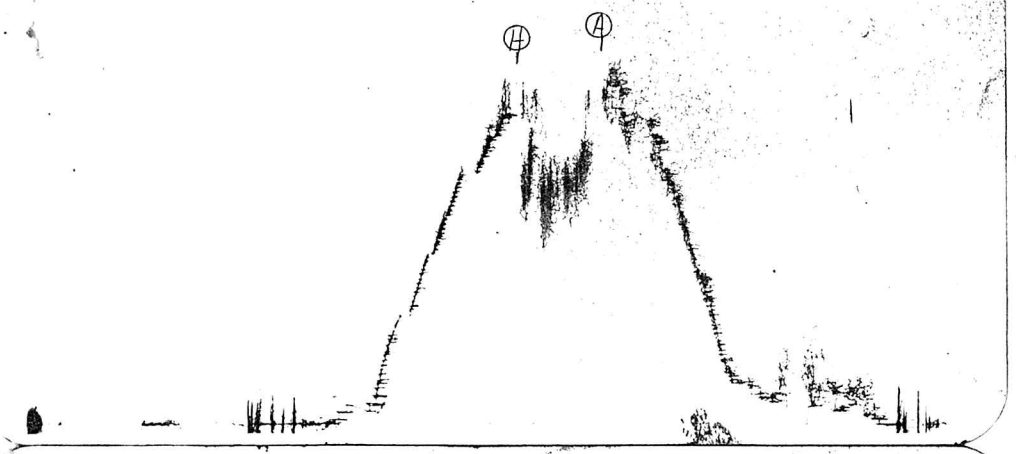
Final Closed In Period Minutes (G) - P.S.I.

Final Hydrostatic Pressure (H) 2217 P.S.I.

TKT # 10475

I

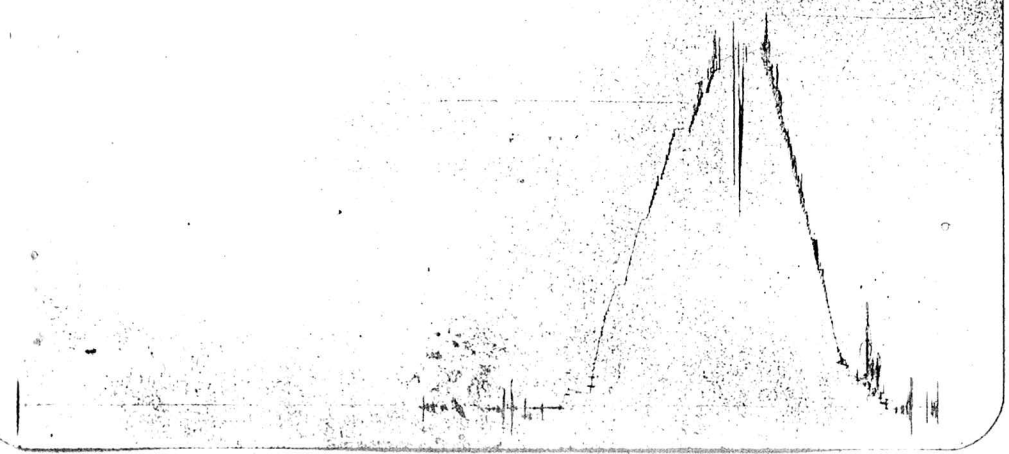
5673
DST #5
BERENCORP.



TKT # 10475

O

1565
DST #5
BERENCORP.



Company Beren Corporation — Lease & Well No. Pauline #1

Elevation 2073 Kelly Bushing — Formation Mississippi — Effective Pay - Ft. — Ticket No. 12927

Date 7/12/81 — Sec. 17 — Twp. 27S — Range 15W — County Pratt — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Karl L. West, Jr.

Formation Test No. 6 — Interval Tested from 4471 ft. to 4546 ft. — Total Depth 4546 ft.

Packer Depth 4466 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4471 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4474 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4477 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor Baradco Drlg. Rig #2 — Drill Collar Length 507 — I. D. 2.26 in.

Mud Type chemical — Viscosity 42 — Weight Pipe Length - — I. D. - in.

Weight 9.4 — Water Loss 10.8 cc. — Drill Pipe Length 4163 — I. D. 3.8 in.

Chlorides 17,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number No — Anchor ~~Length~~ 31'collars/44'Perf.(75) 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~~ XHole in.

Blow: Strong blow throughout initial flow period. Gas to surface in five minutes. See attached sheet for gas measurements.

Recovered 4478 ft. of gas in pipe

Recovered 90 ft. of slightly gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:45 ~~A.M.~~ P.M. — Time Started Off Bottom 11:30 ~~A.M.~~ P.M. — Maximum Temperature 131°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 2244 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 60 | P.S.I. to | (C) 65 | P.S.I. | |
| Initial Closed In Period | Minutes 45 | (D) 989 | P.S.I. | | | |
| Final Flow Period | Minutes 120 | (E) 44 | P.S.I. to | (F) 52 | P.S.I. | |
| Final Closed In Period | Minutes 90 | (G) 1285 | P.S.I. | | | |
| Final Hydrostatic Pressure | | | (H) 2177 | P.S.I. | | |

WTC-1

# GAS FLOW REPORT

Date 7/12/81 Ticket 12927 Company Beren Corporation

Well Name and No. Pauline #1 Dst No. 6 Interval Tested 4471'-4546'

County Pratt State Kansas Sec. 17 Twp. 27S Rg. 15W

| 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 |
|---|---|---|---|---|---|---|
| **PRE FLOW** | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| **SECOND FLOW** | | | | | | |
| | 10 min. | 1.0 " of water | | 1/4" orifice | | 1,680 CFPD |
| | 20 min. | 3.0 " of water | | 1/4" orifice | | 2,920 CFPD |
| | 30 min. | 5.0 " of water | | 1/4" orifice | | 3,710 CFPD |
| | 40 min. | 9.0 " of water | | 1/4" orifice | | 5,050 CFPD |
| | 50 min. | 11" of water | | 1/4" orifice | | 5,600 CFPD |
| | 60 min. | 12" of water | | 1/4" orifice | | 5,860 CFPD |
| | 70 min. | 14" of water | | 1/4" orifice | | 6,330 CFPD |
| | 80 min. | 14" of water | | 1/4" orifice | | 6,330 CFPD |
| | 90 min. | 14" of water | | 1/4" orifice | | 6,330 CFPD |
| | 100 min. | 15" of water | | 1/4" orifice | | 6,550 CFPD |
| | 110 min. | 15" of water | | 1/4" orifice | | 6.550 CFPD |
| | 120 min. | 15" of water | | 1/4" orifice | | 6,550 CFPD |

**GAS BOTTLE**

Serial No. - Date Bottle Filled - Date to be Invoiced 7/12/81

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 Beren Corporation

Authorized by Robert C. Lewellyn

FORM WTC 6

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

Date 7/12/81 Test Ticket No. 12927

Recorder No. 5673 Capacity 5400 Location 4474 Ft.

Clock No. - Elevation 2073 Kelly Bushing Well Temperature 131 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2244 P.S.I. | | Open Tool | 6:45P M | |
| B | First Initial Flow Pressure | 60 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 65 P.S.I. | | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 989 P.S.I. | | Second Flow Pressure | 120 Mins. | 120 Mins. |
| E | Second Initial Flow Pressure | 44 P.S.I. | | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 52 P.S.I. | | | | |
| G | Final Closed-in Pressure | 1285 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2177 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 | 60 |
| P 2 5 | 60 |
| P 3 10 | 60 |
| P 4 15 | 63 |
| P 5 20 | 63 |
| P 6 25 | 64 |
| P 7 30 | 65 |
| 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 | 65 |
| 3 | 148 |
| 6 | 235 |
| 9 | 320 |
| 12 | 399 |
| 15 | 467 |
| 18 | 544 |
| 21 | 615 |
| 24 | 669 |
| 27 | 732 |
| 30 | 781 |
| 33 | 828 |
| 36 | 883 |
| 39 | 926 |
| 42 | 969 |
| 45 | 989 |

**Second Flow Pressure**
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 44 |
| 5 | 44 |
| 10 | 44 |
| 15 | 44 |
| 20 | 44 |
| 25 | 44 |
| 30 | 44 |
| 35 | 44 |
| 40 | 44 |
| 45 | 44 |
| 50 | 44 |
| 55 | 44 |
| 60 | 44 |
| 65 | 45 |
| 70 | 45 |
| 75 | 46 |
| 80 | 47 |
| 85 | 47 |
| 90 | 48 |
| 95 | 49 |
| 100 | 50 |

continued next page

**Final Shut-In**
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 52 |
| 3 | 172 |
| 6 | 276 |
| 9 | 372 |
| 12 | 448 |
| 15 | 527 |
| 18 | 590 |
| 21 | 661 |
| 24 | 721 |
| 27 | 779 |
| 30 | 831 |
| 33 | 874 |
| 36 | 18 |
| 39 | 956 |
| 42 | 991 |
| 45 | 1024 |
| 48 | 1054 |
| 51 | 1081 |
| 54 | 1108 |
| 57 | 1130 |
| 60 | 1149 |

continued next page

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/12/81 Test Ticket No. 12927

Recorder No. 5673 Capacity 5400 Location 4474 Ft.

Clock No. - Elevation 2073 Kelly Bushing Well Temperature 131 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 2244 | P.S.I. |
| B | First Initial Flow Pressure | 60 | P.S.I. |
| C | First Final Flow Pressure | 65 | P.S.I. |
| D | Initial Closed-in Pressure | 989 | P.S.I. |
| E | Second Initial Flow Pressure | 44 | P.S.I. |
| F | Second Final Flow Pressure | 52 | P.S.I. |
| G | Final Closed-in Pressure | 1285 | P.S.I. |
| H | Final Hydrostatic Mud | 2177 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 6:45P M | |
| First Flow Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| Second Flow Pressure | 120 Mins. | 120 Mins. |
| Final Closed-in Pressure | 90 Mins. | 90 Mins. |

## PRESSURE BREAKDOWN

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

| Point Mins. | Press. |
|---|---|
| P 1 | |
| P 2 | |
| P 3 | |
| P 4 | |
| P 5 | |
| P 6 | |
| P 7 | |
| 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. |
|---|---|
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**Second Flow Pressure**
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 105 | 51 |
| 110 | 51 |
| 115 | 52 |
| 120 | 52 |
| | |
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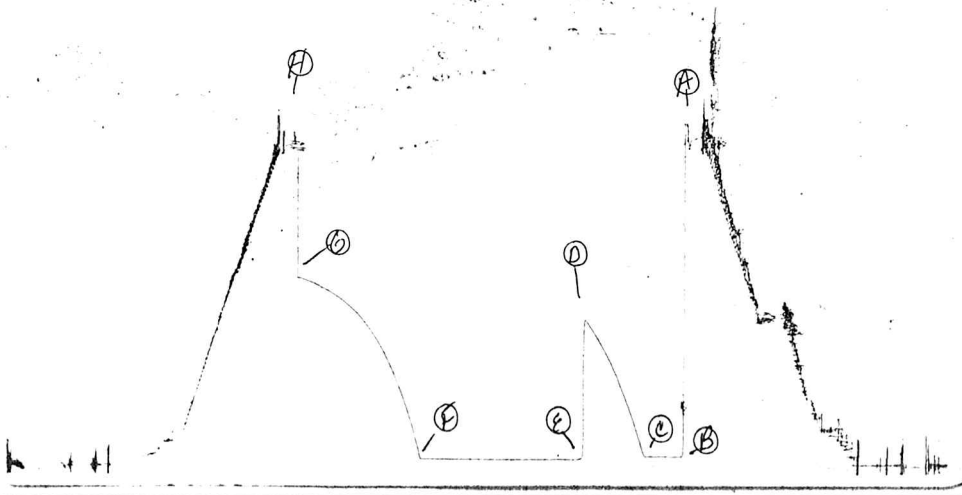
**Final Shut-In**
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 63 | 1165 |
| 66 | 1184 |
| 69 | 1203 |
| 72 | 1217 |
| 75 | 1233 |
| 78 | 1244 |
| 81 | 1257 |
| 84 | 1268 |
| 87 | 1279 |
| 90 | 1285 |
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5673
DST #6
BERENGER P.

TKT # 12927

I



Company Beren Corporation — Lease & Well No. Pauline #1

Elevation -- — Formation Mississippi — Effective Pay -- Ft. — Ticket No. 14868

Date 7/13/81 — Sec. 17 — Twp. 27S — Range 15W — County Pratt — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Jeff Piotrowski

Formation Test No. 6 — Interval Tested from 4546 ft. to 4566 ft. — Total Depth 4566 ft.

Packer Depth 4541 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4546 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4549 ft. — Recorder Number 5673 — Cap. 5400

Bottom Recorder Depth (Outside) 4552 ft. — Recorder Number 1565 — Cap. 4900

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

Drilling Contractor Bredco Drlg. Rig #2 — Drill Collar Length 510 — I. D. 2.2 in.

Mud Type chemical — Viscosity 42 — Weight Pipe Length - — I. D. - in.

Weight 9.4 — Water Loss 10.8 cc. — Drill Pipe Length 4116 — I. D. 3.8 in.

Chlorides 17,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 20 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, slowly building to fair on initial flow period. Strong throughout final flow period.

Recovered 900 ft. of gas in pipe

Recovered 120 ft. of heavy oil cut mud — 50% mud; 5% water

Recovered ft. of — 12% oil; 33% gas

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:00 A.M. P.M. — Time Started Off Bottom 5:15 A.M. P.M. — Maximum Temperature 125°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 2236 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 33 | P.S.I. to | (C) 41 | P.S.I. | |
| Initial Closed In Period | Minutes 45 | (D) 691 | P.S.I. | | | |
| Final Flow Period | Minutes 150 | (E) 49 | P.S.I. to | (F) 71 | P.S.I. | |
| Final Closed In Period | Minutes 90 | (G) 1068 | P.S.I. | | | |
| Final Hydrostatic Pressure | | | (H) 2236 | P.S.I. | | |

WTC-

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/13/81 Test Ticket No. 14868

Recorder No. 5673 Capacity 5400 Location 4549 Ft.

Clock No. -- Elevation ----- Well Temperature 125 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2236 P.S.I. | | Open Tool | 12:00P M | |
| B | First Initial Flow Pressure | 33 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 41 P.S.I. | | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 691 P.S.I. | | Second Flow Pressure | 150 Mins. | 150 Mins. |
| E | Second Initial Flow Pressure | 49 P.S.I. | | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 71 P.S.I. | | | | |
| G | Final Closed-in Pressure | 1068 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2236 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 | 33 |
| P 2 5 | 33 |
| P 3 10 | 35 |
| P 4 15 | 37 |
| P 5 20 | 38 |
| P 6 25 | 40 |
| P 7 30 | 41 |
| 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 | 41 |
| 3 | 55 |
| 6 | 79 |
| 9 | 104 |
| 12 | 139 |
| 15 | 169 |
| 18 | 208 |
| 21 | 253 |
| 24 | 295 |
| 27 | 347 |
| 30 | 404 |
| 33 | 462 |
| 36 | 530 |
| 39 | 601 |
| 42 | 669 |
| 45 | 691 |

**Second Flow Pressure**
Breakdown: 30 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 49 |
| 5 | 49 |
| 10 | 49 |
| 15 | 51 |
| 20 | 52 |
| 25 | 53 |
| 30 | 55 |
| 35 | 57 |
| 40 | 58 |
| 45 | 59 |
| 50 | 59 |
| 55 | 60 |
| 60 | 60 |
| 65 | 62 |
| 70 | 64 |
| 75 | 65 |
| 80 | 65 |
| 85 | 65 |
| 90 | 65 |
| 95 | 66 |
| 100 | 66 |

**Final Shut-In**
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 71 |
| 3 | 93 |
| 6 | 128 |
| 9 | 156 |
| 12 | 183 |
| 15 | 216 |
| 18 | 251 |
| 21 | 281 |
| 24 | 314 |
| 27 | 350 |
| 30 | 383 |
| 33 | 418 |
| 36 | 454 |
| 39 | 489 |
| 42 | 530 |
| 45 | 568 |
| 48 | 601 |
| 51 | 639 |
| 54 | 683 |
| 57 | 724 |
| 60 | 760 |

WTC - 4

continued next page continued next page

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/13/81 Test Ticket No. 14868

Recorder No. 5673 Capacity 5400 Location 4549 Ft.

Clock No. -- Elevation ----- Well Temperature 125 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2236 P.S.I. | Open Tool | | 12:00P M | |
| B | First Initial Flow Pressure | 33 P.S.I. | First Flow Pressure | | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 41 P.S.I. | Initial Closed-in Pressure | | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 691 P.S.I. | Second Flow Pressure | | 150 Mins. | 150 Mins. |
| E | Second Initial Flow Pressure | 49 P.S.I. | Final Closed-in Pressure | | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 71 P.S.I. | | | | |
| G | Final Closed-in Pressure | 1068 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2236 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: 30 Inc.
of 5 mins. and a
final inc. of 0 Min.

**Final Shut-In**
Breakdown: 30 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 | | | | 105 | 67 | 63 | 798 |
| P 2 | | | | 110 | 67 | 66 | 833 |
| P 3 | | | | 115 | 68 | 69 | 874 |
| P 4 | | | | 120 | 68 | 72 | 904 |
| P 5 | | | | 125 | 69 | 75 | 934 |
| P 6 | | | | 130 | 70 | 78 | 972 |
| P 7 | | | | 135 | 71 | 81 | 1000 |
| P 8 | | | | 140 | 71 | 84 | 1029 |
| P 9 | | | | 145 | 71 | 87 | 1054 |
| P10 | | | | 150 | 71 | 90 | 1068 |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

TD
5673
DST #6

TKT # 14868

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