# WESTERN TESTING CO., INC.
## FORMATION TESTING

TICKET Nº 3548

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 1425 KB Formation CONG. Eff. Pay Ft.

District AUGUSTA Date 4/24/80 Customer Order No. -

COMPANY NAME RANGE OIL CO., Inc.

ADDRESS 240 Type Court 220 W. Douglas Wichita, Ks.

LEASE AND WELL NO. SCULLY # 1 COUNTY BUTLER STATE KANSAS Sec. 2 Twp 24S Rge 5E

Mail Invoice To SAME (Co. Name) (Address) No. Copies Requested 1

Mail Charts To SAME (Address) No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2488 ft. to 2501 ft. Total Depth 2501 ft.

Packer Depth 2488 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2483 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2492 ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 2495 ft. Recorder Number 1561 * Cap. 3200

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

Drilling Contractor RANGE OIL CO #1 Drill Collar Length 265 I. D. 2 1/4 in.

Mud Type CHEMICAL Viscosity 38 Weight Pipe Length — I. D. — in.

Weight 9.9 Water Loss 12 cc. Drill Pipe Length 2197 I. D. 3.8 in.

Chlorides 1400 P.P.M. Test Tool Length 33 ft. Tool Size 4 1/2 OD in.

Jars: Make — Serial Number — Anchor Length 13 ft. Size 4 1/2 OD 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 4 1/2 XH in.

Blow: A WEAK TO FAIR BLOW ON INITIAL FLOW PERIOD — A WEAK TO FAIR BLOW ON FINAL FLOW PERIOD

Recovered 30 ft. of Free oil

Recovered 60 ft. of Very slightly oil cut slightly muddy salt water

Recovered 60 ft. of Slightly muddy salt water W/ scum of oil.

Recovered ft. of

Recovered ft. of

Remarks: Bottom sample checked 22,000 PPM Chlorides .5 Resistivity @ 68° Read outside Chart
Middle Sample checked 5% oil 95% muddy salt water
(30) MILES FROM AUGUSTA TO LOCATION

Time Set Packer(s) 6:15 P.M. Time Started Off Bottom 9:45 P.M. Maximum Temperature 100

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 1300 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 30 | P.S.I. to | (C) 55 | P.S.I. | |
| Initial Closed In Period | Minutes 30 | (D) 770 | P.S.I. | | | |
| Final Flow Period | Minutes 60 | (E) 80 | P.S.I. to | (F) 85 | P.S.I. | |
| Final Closed In Period | Minutes 90 | (G) 785 | P.S.I. | | | |
| Final Hydrostatic Pressure | | (H) 1300 | P.S.I. | | | |

### COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Stephen M. Kennedy
Signature of Customer or his authorized representative

Western Representative John Lee / Norman Allen

ON LOCATION @ 3:30PM 4/24/80

JOB COMPLETED @ 1:30 AM 4-25-80

RECEIVED APR 29 1980 KCC APR 29 1980

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 550.00 |
| Misrun | $ |
| Straddle Test | $ |
| Jars | $ |
| Selective Zone | $ |
| Safety Joint | $ |
| Standby | $ |
| Evaluation | $ |
| Extra Packer | $ |
| Circ. Sub. | $ |
| Mileage X 75¢ | $ 30 22.50? |
| Fluid Sampler | $ |
| Extra Charts | $ |
| TOTAL | $ 57250 |

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

Date 4-24-80 Test Ticket No. 3548

Recorder No. 1561 Capacity 3200 Location 2495 Ft.

Clock No. Elevation 1425 KB Well Temperature 100 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 2305 | P.S.I. |
| B | First Initial Flow Pressure | 36 | P.S.I. |
| C | First Final Flow Pressure | 53 | P.S.I. |
| D | Initial Closed-in Pressure | 772 | P.S.I. |
| E | Second Initial Flow Pressure | 80 | P.S.I. |
| F | Second Final Flow Pressure | 86 | P.S.I. |
| G | Final Closed-in Pressure | 786 | P.S.I. |
| H | Final Hydrostatic Mud | 2299 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 6:15 P M | |
| First Flow Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| Second Flow Pressure | 60 Mins. | 60 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 0 | 36 |
| P 2 5 | 33 |
| P 3 10 | 35 |
| P 4 15 | 38 |
| P 5 20 | 42 |
| P 6 25 | 47 |
| P 7 30 | 53 |
| P 8 35 | |
| P 9 40 | |
| P10 45 | |
| P11 50 | |
| P12 55 | |
| P13 60 | |
| 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 | 53 |
| 3 | 527 |
| 6 | 623 |
| 9 | 718 |
| 12 | 731 |
| 15 | 742 |
| 18 | 751 |
| 21 | 757 |
| 24 | 764 |
| 27 | 768 |
| 30 | 772 |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 80 |
| 5 | 77 |
| 10 | 75 |
| 15 | 77 |
| 20 | |
| 25 | |
| 30 | 77 |
| 35 | 79 |
| 40 | 81 |
| 45 | 83 |
| 50 | 84 |
| 55 | 85 |
| 60 | 86 |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |
| | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 86 |
| 3 | 589 |
| 6 | 654 |
| 9 | 676 |
| 12 | 690 |
| 15 | 701 |
| 18 | 709 |
| 21 | 716 |
| 24 | 723 |
| 27 | 730 |
| 30 | 737 |
| 33 | 741 |
| 36 | 745 |
| 39 | 749 |
| 42 | 743 |
| 45 | 757 |
| 48 | 760 |
| 51 | 763 |
| 54 | 766 |
| 57 | 768 |
| 60 | 770 |

WTC - 4

Cont

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

Date _____ Test Ticket No. 3548

Recorder No. _____ Capacity _____ Location _____

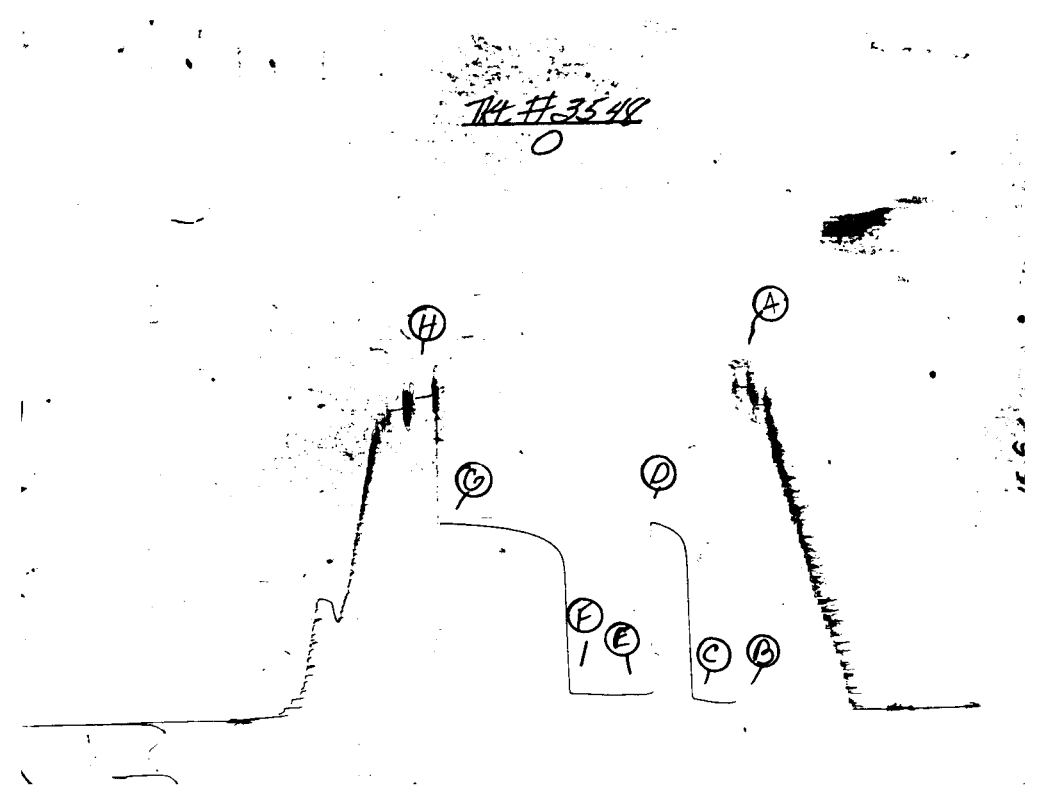
Clock No. _____ Elevation _____ Well Temperature _____

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | P.S.I. | Open Tool | M | |
| B First Initial Flow Pressure | P.S.I. | First Flow Pressure | Mins | Mi |
| C First Final Flow Pressure | P.S.I. | Initial Closed-in Pressure | Mins | Mi |
| D Initial Closed-in Pressure | P.S.I. | Second Flow Pressure | Mins | Mi |
| E Second Initial Flow Pressure | P.S.I. | Final Closed-in Pressure | Mins | Mi |
| F Second Final Flow Pressure | P.S.I. | | | |
| G Final Closed-in Pressure | P.S.I. | | | |
| H Final Hydrostatic Mud | P.S.I. | | | |

## PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---|---|---|---|---|---|---|---|
| Breakdown: _____ Inc. | | Breakdown: _____ Inc. | | Breakdown: _____ Inc. | | Breakdown: _____ Inc. | |
| of 5 mins. and a | | of 3 mins. and a | | of 5 mins. and a | | of 3 mins. and a | |
| final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | |
| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
| P 1 | | 63 | | | | 63 | 772 |
| P 2 | | 66 | | | | 66 | 774 |
| P 3 | | 69 | | | | 69 | 776 |
| P 4 | | 72 | | | | 72 | 777 |
| P 5 | | 75 | | | | 75 | 779 |
| P 6 | | 78 | | | | 78 | 781 |
| P 7 | | 81 | | | | 81 | 783 |
| P 8 | | 84 | | | | 84 | 784 |
| P 9 | | 87 | | | | 87 | 785 |
| P10 | | 90 | | | | 90 | 786 |
| P11 | | 93 | | | | 93 | |
| P12 | | 96 | | | | 96 | |
| P13 | | 99 | | | | 99 | |
| P14 | | 102 | | | | 102 | |
| P15 | | 105 | | | | 105 | |
| P16 | | 108 | | | | 108 | |
| P17 | | 111 | | | | 111 | |
| P18 | | 114 | | | | 114 | |
| P19 | | 117 | | | | 117 | |
| P20 | | 120 | | | | 120 | |

RK #3548



Company Range Oil Company, Inc. Lease & Well No. Scully #1

Elevation 1425 Kelly Bushing Formation Conglomerate Effective Pay - Ft. Ticket No. 3548

Date 4-24-80 Sec. 2 Twp. 24S Range 5E County Butler State KS

Test Approved by Stephan Kreidler Western Representative John Lee - Norman Allen

Formation Test No. 1 Interval Tested from 2488 ft. to 2501 ft. Total Depth 2501 ft.

Packer Depth 2488 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2483 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2492 ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 2495 ft. Recorder Number 1561 Cap. 3200

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

Drilling Contractor Range Oil Company #1 Drill Collar Length 265 I. D. 2¼ in.

Mud Type Chemical Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 12 cc. Drill Pipe Length 2197 I. D. 3.8 in.

Chlorides 1400 P.P.M. Test Tool Length 33 ft. Tool Size 4½OD in.

Jars: Make - Serial Number - Anchor Length 13 ft. Size 4½OD 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: A weak to fair blow on initial flow period -A weak to fair blow on final flow period.

Recovered 30 ft. of Free oil

Recovered 60 ft. of Very slightly oil cut slightly muddy salt water.

Recovered 60 ft. of Slightly muddy salt water with scum of oil

Recovered ft. of

Recovered ft. of

Remarks: Read outside chart.

Bottom sample checked 22,000 PPM chlorides, 5 resistivity @ 68%. Middle sample checked 5% oil, 95% muddy salt water

Time Set Packer(s) 6:15 ~~A.M.~~ P.M. Time Started Off Bottom 9:45 ~~A.M.~~ P.M. Maximum Temperature 100

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 1305 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 36 | P.S.I. to | (C) 53 | P.S.I. | |
| Initial Closed In Period | Minutes 30 | (D) 772 | P.S.I. | | | |
| Final Flow Period | Minutes 60 | (E) 80 | P.S.I. to | (F) 86 | P.S.I. | |
| Final Closed In Period | Minutes 90 | (G) 786 | P.S.I. | | | |
| Final Hydrostatic Pressure | | | (H) 1299 | P.S.I. | | |

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

Date 4/24/80 Test Ticket No. 3548

Recorder No. 1561 Capacity 3200 Location 2495 Ft.

Clock No. --- Elevation 1425 Kelly Bushing Well Temperature 100 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 1305 | P.S.I. |
| B | First Initial Flow Pressure | 36 | P.S.I. |
| C | First Final Flow Pressure | 53 | P.S.I. |
| D | Initial Closed-in Pressure | 772 | P.S.I. |
| E | Second Initial Flow Pressure | 80 | P.S.I. |
| F | Second Final Flow Pressure | 86 | P.S.I. |
| G | Final Closed-in Pressure | 786 | P.S.I. |
| H | Final Hydrostatic Mud | 1299 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 6:15P M | |
| First Flow Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| Second Flow Pressure | 60 Mins. | 60 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 0 | 36 |
| P 2 5 | 33 |
| P 3 10 | 35 |
| P 4 15 | 38 |
| P 5 20 | 42 |
| P 6 25 | 47 |
| P 7 30 | 53 |
| 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 | 53 |
| 3 | 527 |
| 6 | 693 |
| 9 | 718 |
| 12 | 731 |
| 15 | 742 |
| 18 | 751 |
| 21 | 757 |
| 24 | 764 |
| 27 | 768 |
| 30 | 772 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 80 |
| 5 | 77 |
| 10 | 75 |
| 15 | 77 |
| 20 | 77 |
| 25 | 77 |
| 30 | 77 |
| 35 | 79 |
| 40 | 81 |
| 45 | 83 |
| 50 | 84 |
| 55 | 85 |
| 60 | 86 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 86 |
| 3 | 589 |
| 6 | 654 |
| 9 | 676 |
| 12 | 690 |
| 15 | 701 |
| 18 | 709 |
| 21 | 716 |
| 24 | 723 |
| 27 | 730 |
| 30 | 737 |
| 33 | 741 |
| 36 | 745 |
| 39 | 749 |
| 42 | 743 |
| 45 | 757 |
| 48 | 760 |
| 51 | 763 |
| 54 | 766 |
| 57 | 768 |
| 60 | 770 |



continued next page

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

Date 4/24/80 Test Ticket No. 3548

Recorder No. 1561 Capacity 3200 Location 2495 Ft.

Clock No. --- Elevation 1425 Kelly Bushing Well Temperature 100 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1305 | P.S.I. | Open Tool | 6:15P M | |
| B | First Initial Flow Pressure | 36 | P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 53 | P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 772 | P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 80 | P.S.I. | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 86 | P.S.I. | | | |
| G | Final Closed-in Pressure | 786 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 1299 | 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: 10 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: 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 | 772 |
| P 2 | | | | | | 66 | 774 |
| P 3 | | | | | | 69 | 776 |
| P 4 | | | | | | 72 | 777 |
| P 5 | | | | | | 75 | 779 |
| P 6 | | | | | | 78 | 781 |
| P 7 | | | | | | 81 | 783 |
| P 8 | | | | | | 84 | 784 |
| P 9 | | | | | | 87 | 785 |
| P10 | | | | | | 90 | 786 |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

# WESTERN TESTING CO., INC.
## FORMATION TESTING

TICKET Nº 3549

Elevation 1425 KB Formation MISSISSIPPI Eff. Pay Ft.

District AUGUSTA Date 4/25/80 Customer Order No.

COMPANY NAME RANGE OIL CO

ADDRESS 340 Page Court 220 W. Douglas WICHITA, KANSAS

LEASE AND WELL NO. SCULLY #1 COUNTY BUTLER STATE KANSAS Sec. 2 Twp. 24S Rge. 5E

Mail Invoice To SAME No. Copies Requested 1
Co. Name Address

Mail Charts To SAME No. Copies Requested 5
Address

Formation Test No. 2 Interval Tested from 2506 ft. to 2521 ft. Total Depth 2521 ft.

Packer Depth 2506 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2501 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 2514 ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 2517 ft. Recorder Number 1561 Cap. 3200

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

Drilling Contractor RANGE OIL CO #1 Drill Collar Length 265 I. D. 2 1/4 in.

Mud Type CHEMICAL Viscosity 38 Weight Pipe Length — I. D. — in.

Weight 9.9 Water Loss 12 cc. Drill Pipe Length 2200 I. D. 3.8 in.

Chlorides 1400 P.P.M. Test Tool Length 35 ft. Tool Size 4 1/2 OD in.

Jars: Make NO Serial Number — Anchor Length 15 ft. Size 4 1/2 OD in.

Did Well Flow? No 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 4 1/2 XH in.

Blow: STRONG BLOW ON INITIAL FLOW PERIOD — STRONG BLOW ON FINAL FLOW PERIOD.

Recovered 1380 ft. of Free oil (Slightly gas cut)

Recovered 90 ft. of Muddy oil (Slightly gas cut) 60% oil 40% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Oil checked 38 Gravity corrected

30 MILES FROM AUGUSTA TO LOCATION

RECEIVED APR 29 1980 KCC WICHITA

Time Set Packer(s) 10:00 A.M. Time Started Off Bottom 1:30 P.M. Maximum Temperature 106

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1290 | P.S.I. | |
| Initial Flow Period | Minutes | 30 | (B) | 65 | P.S.I. to (C) | 265 P.S.I. |
| Initial Closed In Period | Minutes | 30 | (D) | 745 | P.S.I. | |
| Final Flow Period | Minutes | 60 | (E) | 300 | P.S.I. to (F) | 560 P.S.I. |
| Final Closed In Period | Minutes | 90 | (G) | 735 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 1290 | P.S.I. | |

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [signature]
Signature of Customer or his authorized representative

Western Representative John Lee / Norman Allen

ON LOCATION @ 7:30 AM 4/25/80
Job complete @ 5:30 PM 4-25-80

## FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 550.00 |
| Misrun | $ |
| Straddle Test | $ |
| Jars | $ |
| Selective Zone | $ |
| Safety Joint | $ |
| Standby | $ |
| Evaluation | $ |
| Extra Packer | $ |
| Circ. Sub. | $ 30.00 |
| Mileage | $ |
| Fluid Sampler | $ |
| Extra Charts | $ |
| TOTAL | $ 580.00 |

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

Date 4-25-80 Test Ticket No. 3549

Recorder No. 10980 Capacity 4200 Location 2514 Ft.

Clock No. Elevation 1425 GL Well Temperature 100 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1294 P.S.I. | Open Tool | 10:00 AM | |
| B | First Initial Flow Pressure | 64 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 265 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 33 Mins. |
| D | Initial Closed-in Pressure | 752 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 297 P.S.I. | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 523 P.S.I. | | | |
| G | Final Closed-in Pressure | 732 P.S.I. | | | |
| H | Final Hydrostatic Mud | 1282 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 | 64 |
| P 2 5 | 96 |
| P 3 10 | 135 |
| P 4 15 | 169 |
| P 5 20 | 203 |
| P 6 25 | 235 |
| P 7 30 | 265 |
| P 8 35 | |
| P 9 40 | |
| P10 45 | |
| P11 50 | |
| P12 55 | |
| P13 60 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 265 |
| 3 | 719 |
| 6 | 732 |
| 9 | 738 |
| 12 | 740 |
| 15 | 745 |
| 18 | 747 |
| 21 | 748 |
| 24 | 749 |
| 27 | 750 |
| 30 | 751 |
| 33 | 752 |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 297 |
| 5 | 308 |
| 10 | 338 |
| 15 | 361 |
| 20 | 383 |
| 25 | 404 |
| 30 | 425 |
| 35 | 444 |
| 40 | 463 |
| 45 | 483 |
| 50 | 497 |
| 55 | 510 |
| 60 | 523 |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |
| | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 523 |
| 3 | 698 |
| 6 | 704 |
| 9 | 711 |
| 12 | 712 |
| 15 | 713 |
| 18 | 714 |
| 21 | 715 |
| 24 | 717 |
| 27 | 718 |
| 30 | 719 |
| 33 | 720 |
| 36 | 721 |
| 39 | 721 |
| 42 | 722 |
| 45 | 723 |
| 48 | 724 |
| 51 | 725 |
| 54 | 726 |
| 57 | 727 |
| 60 | 728 |

WTC - 4

cont

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

Date _____ Test Ticket No. 3549

Recorder No. _____ Capacity _____ Location _____

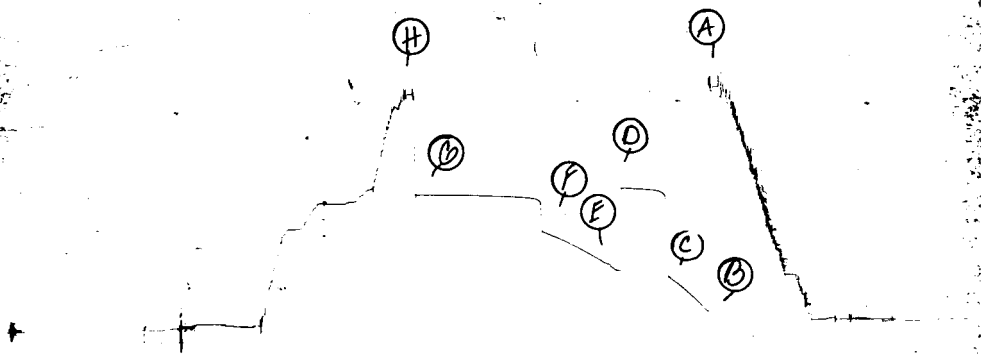
Clock No. _____ Elevation _____ Well Temperature _____

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | P.S.I. | Open Tool | M | |
| B First Initial Flow Pressure | P.S.I. | First Flow Pressure | Mins. | Mi |
| C First Final Flow Pressure | P.S.I. | Initial Closed-in Pressure | Mins. | Mi |
| D Initial Closed-in Pressure | P.S.I. | Second Flow Pressure | Mins. | Mi |
| E Second Initial Flow Pressure | P.S.I. | Final Closed-in Pressure | Mins. | Mi |
| F Second Final Flow Pressure | P.S.I. | | | |
| G Final Closed-in Pressure | P.S.I. | | | |
| H Final Hydrostatic Mud | P.S.I. | | | |

## PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---|---|---|---|---|---|---|---|
| Breakdown: ____ Inc. | | Breakdown: ____ Inc. | | Breakdown: ____ Inc. | | Breakdown: ____ Inc. | |
| of 5 mins. and a | | of 3 mins. and a | | of 5 mins. and a | | of 3 mins. and a | |
| final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | |
| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
| P 1 | | 63 | | | | 63 | 728 |
| P 2 | | 66 | | | | 66 | 729 |
| P 3 | | 69 | | | | 69 | 729 |
| P 4 | | 72 | | | | 72 | 730 |
| P 5 | | 75 | | | | 75 | 730 |
| P 6 | | 78 | | | | 78 | 731 |
| P 7 | | 81 | | | | 81 | 731 |
| P 8 | | 84 | | | | 84 | 732 |
| P 9 | | 87 | | | | 87 | 732 |
| P10 | | 90 | | | | 90 | 732 |
| P11 | | 93 | | | | 93 | |
| P12 | | 96 | | | | 96 | |
| P13 | | 99 | | | | 99 | |
| P14 | | 102 | | | | 102 | |
| P15 | | 105 | | | | 105 | |
| P16 | | 108 | | | | 108 | |
| P17 | | 111 | | | | 111 | |
| P18 | | 114 | | | | 114 | |
| P19 | | 117 | | | | 117 | |
| P20 | | 120 | | | | 120 | |

TK #3549




orbal

Company: Range Oil Company, Inc. | Lease & Well No.: Scully #1

Elevation: 1425 Kelly Bushing | Formation: Mississippi | Effective Pay: - Ft. | Ticket No.: 3549

Date: 4-25-89 | Sec.: 2 | Twp.: 24S | Range: 5E | County: Butler | State: KS

Test Approved by: Stephen Kreidler | Western Representative: John Lee--Norman Allen

Formation Test No.: 2 | Interval Tested from: 2506 ft. to: 2521 ft. | Total Depth: 2521 ft.

Packer Depth: 2506 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Packer Depth: 2501 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 2514 ft. | Recorder Number: 10980 | Cap.: 4200

Bottom Recorder Depth (Outside): 2517 ft. | Recorder Number: 1561 | Cap.: 3200

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

Drilling Contractor: Range Oil Company #1 | Drill Collar Length: 265 | I. D.: 2¼ in.

Mud Type: Chemical | Viscosity: 38 | Weight Pipe Length: - | I. D.: - in.

Weight: 9.9 | Water Loss: 12 cc. | Drill Pipe Length: 2200 | I. D.: 3.8 in.

Chlorides: 1400 P.P.M. | Test Tool Length: 35 ft. | Tool Size: 4½OD in.

Jars: Make: - | Serial Number: - | Anchor Length: 15 ft. | Size: 4½OD in.

Did Well Flow?: No | 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: Strong nlow on initial flow period- Strong blow on final flow period.

Recovered: 1380 ft. of Free oil (Slightly gas cut )

Recovered: 90 ft. of Muddy oil (Slightly gas cut ) 60% oil, 40% mud

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Remarks: Oil checked 38 gravity corrected

Time Set Packer(s): 10:00 A.M. P.M. | Time Started Off Bottom: 1:30 A.M. P.M. | Maximum Temperature: 100

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1294 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 64 | P.S.I. to (C) | 265 | P.S.I. |
| Initial Closed In Period | Minutes 30 | (D) | 752 | P.S.I. | | |
| Final Flow Period | Minutes 60 | (E) | 297 | P.S.I. to (F) | 523 | P.S.I. |
| Final Closed In Period | Minutes 90 | (G) | 732 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 1282 | P.S.I. | | |

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

Date 4-25-80 Test Ticket No. 3549

Recorder No. 10980 Capacity 4200 Location 2514 Ft.

Clock No. Elevation 1425 Kelly Bushing Well Temperature 100 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1294 P.S.I. | | Open Tool | 10:00 A M | |
| B | First Initial Flow Pressure | 64 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 265 P.S.I. | | Initial Closed-in Pressure | 30 Mins. | 33 Mins. |
| D | Initial Closed-in Pressure | 752 P.S.I. | | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 297 P.S.I. | | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 523 P.S.I. | | | | |
| G | Final Closed-in Pressure | 732 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 1282 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 | 64 |
| P 2 5 | 96 |
| P 3 10 | 135 |
| P 4 15 | 169 |
| P 5 20 | 203 |
| P 6 25 | 235 |
| P 7 30 | 265 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 265 |
| 3 | 719 |
| 6 | 732 |
| 9 | 738 |
| 12 | 740 |
| 15 | 745 |
| 18 | 747 |
| 21 | 748 |
| 24 | 749 |
| 27 | 750 |
| 30 | 751 |
| 33 | 752 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 297 |
| 5 | 308 |
| 10 | 338 |
| 15 | 361 |
| 20 | 383 |
| 25 | 404 |
| 30 | 425 |
| 35 | 444 |
| 40 | 463 |
| 45 | 483 |
| 50 | 497 |
| 55 | 510 |
| 60 | 523 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 523 |
| 3 | 698 |
| 6 | 704 |
| 9 | 711 |
| 12 | 712 |
| 15 | 713 |
| 18 | 714 |
| 21 | 715 |
| 24 | 717 |
| 27 | 718 |
| 30 | 719 |
| 33 | 720 |
| 36 | 721 |
| 39 | 721 |
| 42 | 722 |
| 45 | 723 |
| 48 | 724 |
| 51 | 725 |
| 54 | 726 |
| 57 | 727 |
| 60 | 728 |



Continued on next page

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

Date 4-25-80 Test Ticket No. 3549

Recorder No. 10980 Capacity 4200 Location 2514 Ft.

Clock No. Elevation 1425 Kelly Bushing Well Temperature 100 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1294 P.S.I. | Open Tool | 10:00 A M | |
| B | First Initial Flow Pressure | 64 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 265 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 33 Mins. |
| D | Initial Closed-in Pressure | 752 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 297 P.S.I. | Final Closed-in Pressure | 90 Mins. | 90 Mins. |
| F | Second Final Flow Pressure | 523 P.S.I. | | | |
| G | Final Closed-in Pressure | 732 P.S.I. | | | |
| H | Final Hydrostatic Mud | 1282 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: 11 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: 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 | 728 |
| P 2 | | | | | | 66 | 729 |
| P 3 | | | | | | 69 | 729 |
| P 4 | | | | | | 72 | 730 |
| P 5 | | | | | | 75 | 730 |
| P 6 | | | | | | 78 | 731 |
| P 7 | | | | | | 81 | 731 |
| P 8 | | | | | | 84 | 732 |
| P 9 | | | | | | 87 | 732 |
| P10 | | | | | | 90 | 732 |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

# WESTERN TESTING CO., INC.
## FORMATION TESTING

TICKET Nº 3550

Elevation 1425 KB Formation MISSISSIPPI Eff. Pay — Ft.

District AUGUSTA Date 4/26/80 Customer Order No. —

COMPANY NAME RANGE OIL CO

ADDRESS 340 Page Court 220 W Douglas Wichita Ks.

LEASE AND WELL NO. SCULLY #1 COUNTY BUTLER STATE KANSAS Sec. 2 Twp. 24S Rge. 5E

Mail Invoice To SAME No. Copies Requested 1
Co. Name Address

Mail Charts To SAME No. Copies Requested 5
Address

Formation Test No. 3 Interval Tested from 2521 ft. to 2531 ft. Total Depth 2531 ft.

Packer Depth 2521 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2516 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 2511 AB ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 2527 ft. Recorder Number 1561 Cap. 3200

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

Drilling Contractor RANGE OIL CO. #1 Drill Collar Length 245' I. D. 2 1/4 in.

Mud Type CHEMICAL Viscosity 38 Weight Pipe Length — I. D. — in.

Weight 9.9 Water Loss 12 cc. Drill Pipe Length 2251 I. D. 3.8 in.

Chlorides 1400 P.P.M. Test Tool Length 34 ft. Tool Size 4 1/2 OD in.

Jars: Make — Serial Number — Anchor Length 10 ft. Size 4 1/2 OD in. 3/4

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

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: WEAK BLOW THRU BOTH FLOW PERIODS.

Recovered 2 ft. of Free oil

Recovered 150 ft. of Slightly muddy salt water (Trace of oil thruout fluid)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Fluid checked 11,000 PPM chlorides .55 Resistivity @ 66°F

30 MILES FROM AUGUSTA TO LOCATION

Time Set Packer(s) 2:30 A.M. P.M. Time Started Off Bottom 6:00 A.M. P.M. Maximum Temperature 100

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1298 | P.S.I. | |
| Initial Flow Period | Minutes | 30 | (B) | 10 | P.S.I. to (C) | 40 P.S.I. |
| Initial Closed In Period | Minutes | 30 | (D) | 780 | P.S.I. | |
| Final Flow Period | Minutes | 60 | (E) | 65 | P.S.I. to (F) | 75 P.S.I. |
| Final Closed In Period | Minutes | 90 | (G) | 810 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 1280 | P.S.I. | |

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [signature] APR 29 1980
Signature of Customer or his authorized representative

Western Representative John Lee / Norman Allen

ON LOCATION @ 12:15 AM 4/26/80

JOB COMPLETED @ 8:30 AM 4-26-80

## FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 550.00 |
| Misrun | $ |
| Straddle Test | $ |
| Jars | $ |
| Selective Zone | $ |
| Safety Joint | $ |
| Standby | $ |
| Evaluation | $ |
| Extra Packer | $ |
| Circ. Sub. | $ |
| Mileage | $ |
| Fluid Sampler | $ |
| Extra Charts | $ |
| TOTAL | $ 550.00 |

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

Date 4-26-80 Test Ticket No. 3550

Recorder No. 10980 Capacity 4200 Location [redacted]511 Ft.

Clock No. Elevation 1425 KB Well Temperature 100 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1299 P.S.I. | Open Tool | 2:30 A M | |
| B | First Initial Flow Pressure | 9 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 41 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 777 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 64 P.S.I. | Final Closed-in Pressure | 96 Mins. | 93 Mins. |
| F | Second Final Flow Pressure | 82 P.S.I. | | | |
| G | Final Closed-in Pressure | 810 P.S.I. | | | |
| H | Final Hydrostatic Mud | 1281 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 | 9 |
| P 2 5 | 13 |
| P 3 10 | 21 |
| P 4 15 | 26 |
| P 5 20 | 32 |
| P 6 25 | 36 |
| P 7 30 | 41 |
| P 8 35 | |
| P 9 40 | |
| P10 45 | |
| P11 50 | |
| P12 55 | |
| P13 60 | |
| 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 | 41 |
| 3 | 562 |
| 6 | 645 |
| 9 | 689 |
| 12 | 715 |
| 15 | 732 |
| 18 | 742 |
| 21 | 751 |
| 24 | 760 |
| 27 | 768 |
| 30 | 777 |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 64 |
| 5 | 60 [redacted] |
| 10 | 62 |
| 15 | 66 |
| 20 | 70 [redacted] |
| 25 | 73 |
| 30 | 75 |
| 35 | 76 |
| 40 | 77 |
| 45 | 78 |
| 50 | 79 |
| 55 | 81 |
| 60 | 82 |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

**Final Shut-In**
Breakdown: 31 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 82 |
| 3 | 557 |
| 6 | 632 |
| 9 | 670 |
| 12 | 696 |
| 15 | 715 |
| 18 | 726 |
| 21 | 736 |
| 24 | 747 [redacted] |
| 27 | 757 |
| 30 | 766 |
| 33 | 770 |
| 36 | 774 |
| 39 | 778 |
| 42 | 781 |
| 45 | 784 |
| 48 | 787 |
| 51 | 790 |
| 54 | 792 |
| 57 | 794 |
| 60 | 796 |

cont

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

Date _____ Test Ticket No. 3550

Recorder No. _____ Capacity _____ Location _____

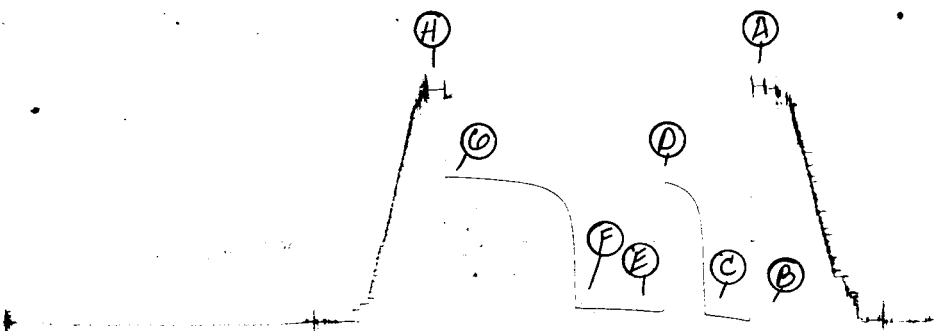
Clock No. _____ Elevation _____ Well Temperature _____

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | P.S.I. | Open Tool | M | |
| B First Initial Flow Pressure | P.S.I. | First Flow Pressure | Mins. | Mi |
| C First Final Flow Pressure | P.S.I. | Initial Closed-in Pressure | Mins. | Mi |
| D Initial Closed-in Pressure | P.S.I. | Second Flow Pressure | Mins. | Mi |
| E Second Initial Flow Pressure | P.S.I. | Final Closed-in Pressure | Mins. | Mi |
| F Second Final Flow Pressure | P.S.I. | | | |
| G Final Closed-in Pressure | P.S.I. | | | |
| H Final Hydrostatic Mud | P.S.I. | | | |

## PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---|---|---|---|---|---|---|---|
| Breakdown: ____ Inc. | | Breakdown: ____ Inc. | | Breakdown: ____ Inc. | | Breakdown: ____ Inc. | |
| of 5 mins. and a | | of 3 mins. and a | | of 5 mins. and a | | of 3 mins. and a | |
| final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | | final inc. of 0 Min. | |
| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
| P 1 | | 63 | | | | 63 | 798 |
| P 2 | | 66 | | | | 66 | 800 |
| P 3 | | 69 | | | | 69 | 802 |
| P 4 | | 72 | | | | 72 | 803 |
| P 5 | | 75 | | | | 75 | 804 |
| P 6 | | 78 | | | | 78 | 805 |
| P 7 | | 81 | | | | 81 | 806 |
| P 8 | | 84 | | | | 84 | 807 |
| P 9 | | 87 | | | | 87 | 808 |
| P10 | | 90 | | | | 90 | 809 |
| P11 | | 93 | | | | 93 | 810 |
| P12 | | 96 | | | | 96 | |
| P13 | | 99 | | | | 99 | |
| P14 | | 102 | | | | 102 | |
| P15 | | 105 | | | | 105 | |
| P16 | | 108 | | | | 108 | |
| P17 | | 111 | | | | 111 | |
| P18 | | 114 | | | | 114 | |
| P19 | | 117 | | | | 117 | |
| P20 | | 120 | | | | 120 | |

TK# 3550
I




10980

Company Range Oil Company, Inc. Lease & Well No. Scully #1

Elevation 1425 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 3550

Date 4-26-80 Sec. 2 Twp. 24S Range 5E County Butler State Ks

Test Approved by Stephen Kreidler Western Representative J ohn Lee - Norman Allen

Formation Test No. 3 Interval Tested from 2521 ft. to 2531 ft. Total Depth 2531 ft.

Packer Depth 2521 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2516 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2511 Ap ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 2527 ft. Recorder Number 1561 Cap. 3200

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

Drilling Contractor Range Oil Company #1 Drill Collar Length 245 I. D. 2¼ in.

Mud Type Chemical Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 12 cc. Drill Pipe Length 2251 I. D. 3.8 in.

Chlorides 1400 P.P.M. Test Tool Length 34 ft. Tool Size 4½OD in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 4½OD in.

Did Well Flow? No Reversed Out NO Surface Choke Size 7 7/8 in. Bottom Choke Size 4½XH in.

Main Hole Size in. Tool Joint Size in.

Blow: Weak blow throughout both flow periods

Recovered 2 ft. of Free oil

Recovered 150 ft. of Slightly Muddy salt water,(trace of oil throughout fluid )

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Fluid checked 11,000 PPM chlorides. 85 resistivity @ 66°

Time Set Packer(s) 2:30 A.M. P.M. Time Started Off Bottom 6:00 A.M. P.M. Maximum Temperature 100

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1299 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 9 | P.S.I. to (C) | 41 | P.S.I. |
| Initial Closed In Period | Minutes 30 | (D) | 777 | P.S.I. | | |
| Final Flow Period | Minutes 60 | (E) | 64 | P.S.I. to (F) | 82 | P.S.I. |
| Final Closed In Period | Minutes 90 | (G) | 810 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 1281 | P.S.I. | | |

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

Date 4-26-80 Test Ticket No. 3550

Recorder No. 10980 Capacity 4200 Location 2511 Ft.

Clock No. Elevation 1425 Kelly Bushing Well Temperature 100 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 1299 P.S.I. | Open Tool | 2:30 A M | |
| B First Initial Flow Pressure | 9 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 41 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D Initial Closed-in Pressure | 777 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 64 P.S.I. | Final Closed-in Pressure | 90 Mins. | 93 Mins. |
| F Second Final Flow Pressure | 82 P.S.I. | | | |
| G Final Closed-in Pressure | 810 P.S.I. | | | |
| H Final Hydrostatic Mud | 1281 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 | 9 |
| P 2 5 | 13 |
| P 3 10 | 21 |
| P 4 15 | 26 |
| P 5 20 | 32 |
| P 6 25 | 36 |
| P 7 30 | 41 |
| 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 | 41 |
| 3 | 562 |
| 6 | 645 |
| 9 | 689 |
| 12 | 715 |
| 15 | 732 |
| 18 | 742 |
| 21 | 751 |
| 24 | 760 |
| 27 | 768 |
| 30 | 777 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 64 |
| 5 | 60 |
| 10 | 62 |
| 15 | 66 |
| 20 | 70 |
| 25 | 73 |
| 30 | 75 |
| 35 | 76 |
| 40 | 77 |
| 45 | 78 |
| 50 | 79 |
| 55 | 81 |
| 60 | 82 |

**Final Shut-In**
Breakdown: 31 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 82 |
| 3 | 557 |
| 6 | 632 |
| 9 | 670 |
| 12 | 696 |
| 15 | 715 |
| 18 | 726 |
| 21 | 736 |
| 24 | 747 |
| 27 | 757 |
| 30 | 766 |
| 33 | 770 |
| 36 | 774 |
| 39 | 778 |
| 42 | 781 |
| 45 | 784 |
| 48 | 787 |
| 51 | 790 |
| 54 | 792 |
| 57 | 794 |
| 60 | 796 |



Continued on next page

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

Date 4-26-80 Test Ticket No. 3550

Recorder No. 10980 Capacity 4200 Location 2511 Ft.

Clock No. Elevation 1425 Kelly Bushing Well Temperature 100 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1299 P.S.I. | | Open Tool | 2:30 A M | |
| B | First Initial Flow Pressure | 9 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 41 P.S.I. | | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 777 P.S.I. | | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 64 P.S.I. | | Final Closed-in Pressure | 90 Mins. | 93 Mins. |
| F | Second Final Flow Pressure | 82 P.S.I. | | | | |
| G | Final Closed-in Pressure | 810 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 1281 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: 10 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: 31 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 | 798 |
| P 2 | | | | | | 66 | 800 |
| P 3 | | | | | | 69 | 802 |
| P 4 | | | | | | 72 | 803 |
| P 5 | | | | | | 75 | 804 |
| P 6 | | | | | | 78 | 805 |
| P 7 | | | | | | 81 | 806 |
| P 8 | | | | | | 84 | 807 |
| P 9 | | | | | | 87 | 808 |
| P10 | | | | | | 90 | 809 |
| P11 | | | | | | 93 | 810 |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |