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

TICKET Nº 3235

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

Elevation 1465 KB Formation L.C. Eff. Pay — Ft.

Docking District Augusta Date 8-23-79 Customer Order No. —

COMPANY NAME Docking Development Co.

ADDRESS Box 428 Arkansas City, Ks Sumner Ark City Kansas OK

LEASE AND WELL NO. Holt #4 COUNTY ~~Cowley~~ STATE Kansas Sec 25 Twp 31 Rge 2E

Mail Invoice To Holt #4 (Co. Name) Same (Address) No. Copies Requested 5

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

Formation Test No. #2 Interval Tested from 2306 ft. to 2381 ft. Total Depth 2381 ft.

Packer Depth 2301 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2306 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2307 ft. Recorder Number 1562 Cap. 3200

Bottom Recorder Depth (Outside) 2310 ft. Recorder Number 3085 Cap. 4500

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

Drilling Contractor White & Ellis Rig 3 Drill Collar Length 122 I. D. 2.4 in.

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

Weight 9.2+ Water Loss 10.4 cc. Drill Pipe Length 2164 I. D. 3.8 in.

Chlorides 2000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make — Serial Number — Anchor Length 25 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out 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: Fair Threw out Flow Periods

Recovered 200 ft. of Sh. Gas Cut Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Mid Tool 8 Ft To Bottom Was Still off Bottom 3 Ft

RECEIVED AUG 27 1979

Time Set Packer(s) 4:30 A.M. P.M. Time Started Off Bottom 6:30 A.M. P.M. Maximum Temperature 107°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 1125 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 86 | P.S.I. to | (C) 86 | P.S.I. | |
| Initial Closed In Period | Minutes 30 | (D) 589 | P.S.I. | | | |
| Final Flow Period | Minutes 30 | (E) 125 | P.S.I. to | (F) 133 | P.S.I. | |
| Final Closed In Period | Minutes 30 | (G) 581 | P.S.I. | | | |
| Final Hydrostatic Pressure | | (H) 1109 | 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 Gen Waite
Signature of Customer or his authorized representative

Western Representative Ron Emmons Thank You.

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 440.00 |
| Misrun | $ |
| Straddle Test | $ |
| Jars | $ |
| Selective Zone | $ |
| Safety Joint | $ |
| Standby | $ |
| Evaluation | $ |
| Extra Packer | $ |
| Circ. Sub. | $ |
| Mileage | $ |
| Fluid Sampler | $ |
| Extra Charts | $ |
| TOTAL | $ 440.00 |

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

Date 8-23-79 Test Ticket No. 3235

Recorder No. 1562 Capacity ~~3750~~ 3200 Location 2307 Ft.

Clock No. — Elevation 1465K.B. Well Temperature 107 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| Initial Hydrostatic Mud | 1126 P.S.I. | Open Tool | 4:30A. M | |
| First Initial Flow Pressure | 99 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| First Final Flow Pressure | 105 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 593 P.S.I. | Second Flow Pressure | 30 Mins. | 25 Mins. |
| Second Initial Flow Pressure | 154 P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| Second Final Flow Pressure | 141 P.S.I. | | | |
| Final Closed-in Pressure | 570 P.S.I. | | | |
| Final Hydrostatic Mud | 1113 P.S.I. | | | |

## PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---|---|---|---|---|---|---|---|
| Breakdown: 6 Inc. | | Breakdown: 10 Inc. | | Breakdown: 5 Inc. | | Breakdown: 10 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. |
| 1 0 | ~~99~~ 95 | 0 | 105 | 0 | 154 | 0 | 141 |
| 2 5 | ~~99~~ 102 | 3 | 260 | 5 | 138 | 3 | 253 |
| 3 10 | 104 | 6 | 430 | 10 | 139 | 6 | 419 |
| 4 15 | 105 | 9 | 511 | 15 | 140 | 9 | 479 |
| 5 20 | 105 | 12 | 536 | 20 | 141 | 12 | 510 |
| 6 25 | 105 | 15 | 555 | 25 | 141 | 15 | 526 |
| 7 30 | 105 | 18 | 567 | 30 | | 18 | 542 |
| 8 35 | | 21 | 576 | 35 | | 21 | 551 |
| 9 40 | | 24 | 582 | 40 | | 24 | 559 |
| 0 45 | | 27 | 588 | 45 | | 27 | 565 |
| 1 50 | | 30 | 593 | 50 | | 30 | 570 |
| 2 55 | | 33 | | 55 | | 33 | |
| 3 60 | | 36 | | 60 | | 36 | |
| 4 | | 39 | | 65 | | 39 | |
| 5 | | 42 | | 70 | | 42 | |
| 6 | | 45 | | 75 | | 45 | |
| 7 | | 48 | | 80 | | 48 | |
| 8 | | 51 | | 85 | | 51 | |
| 9 | | 54 | | 90 | | 54 | |
| 0 | | 57 | | | | 57 | |
| | | 60 | | | | 60 | |

WTC - 4

Company: Docking Developement Company | Lease & Well No.: Holt #4

Elevation: 1465 Kelly Bushing | Formation: Kansas City | Effective Pay: -- Ft. | Ticket No.: 3235

Date: 8/23/79 | Sec.: 25 | Twp.: 31S | Range: 2E | County: Sumner | State: Kansas

Test Approved by: Geo. Waite | Western Representative: Ron Emmons

Formation Test No. 2 | Interval Tested from 2306 ft. to 2381 ft. | Total Depth 2381 ft.

Packer Depth 2301 ft. Size 6 3/4 in. | Packer Depth - ft. Size - in.

Packer Depth 2306 ft. Size 6 3/4 in. | Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2307 ft. | Recorder Number 1562 Cap. 3200

Bottom Recorder Depth (Outside) 2310 ft. | Recorder Number 3085 Cap. 4500

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

Drilling Contractor White & Ellis Drilling Rig #3 | Drill Collar Length 122 I. D. 2.4 in.

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

Weight 9.2+ Water Loss 10.4 cc. | Drill Pipe Length 2164 I. D. 3.8 in.

Chlorides 2,000 P.P.M. | Test Tool Length 20 ft. Tool Size 5½OD in.

Jars: Make -- Serial Number -- | Anchor Length 75 ft. Size 5½OD in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 4½XO in.

Blow: Fair throughout flow periods.

Recovered 200 ft. of slightly gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 8 feet to bottom was still off bottom three feet.

Time Set Packer(s) 4:30 ~~A.M.~~ P.M. | Time Started Off Bottom 6:30 ~~A.M.~~ P.M. | Maximum Temperature 107

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) 1126 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 99 | P.S.I. to | (C) 105 | P.S.I. | |
| Initial Closed In Period | Minutes 30 | (D) 593 | P.S.I. | | | |
| Final Flow Period | Minutes 25 | (E) 154 | P.S.I. to | (F) 141 | P.S.I. | |
| Final Closed In Period | Minutes 30 | (G) 570 | P.S.I. | | | |
| Final Hydrostatic Pressure | | | (H) 1113 | P.S.I. | | |

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

Date 8/23/79 Test Ticket No. 3235

Recorder No. 1562 Capacity 3200 Location 2307 Ft.

Clock No. -- Elevation 1465 Kelly Bushing Well Temperature 107 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 1126 P.S.I. | Open Tool | 4:30A M | |
| B First Initial Flow Pressure | 99 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 105 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D Initial Closed-in Pressure | 593 P.S.I. | Second Flow Pressure | 30 Mins. | 25 Mins. |
| E Second Initial Flow Pressure | 154 P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F Second Final Flow Pressure | 141 P.S.I. | | | |
| G Final Closed-in Pressure | 570 P.S.I. | | | |
| H Final Hydrostatic Mud | 1113 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 | 95 |
| P 2 5 | 102 |
| P 3 10 | 104 |
| P 4 15 | 105 |
| P 5 20 | 105 |
| P 6 25 | 105 |
| P 7 30 | 105 |
| P 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
| 19 | |
| 20 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 105 |
| 3 | 260 |
| 6 | 430 |
| 9 | 511 |
| 12 | 536 |
| 15 | 555 |
| 18 | 567 |
| 21 | 576 |
| 24 | 582 |
| 27 | 588 |
| 30 | 593 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 154 |
| 5 | 138 |
| 10 | 139 |
| 15 | 140 |
| 20 | 141 |
| 25 | 141 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 141 |
| 3 | 253 |
| 6 | 419 |
| 9 | 479 |
| 12 | 510 |
| 15 | 526 |
| 18 | 542 |
| 21 | 551 |
| 24 | 559 |
| 27 | 565 |
| 30 | 570 |

TR#3235
I.

