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

TICKET Nº 5761

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

Elevation 2169 K.B. Formation Stalnaker Eff. Pay Ft.

1296 Central, Wichita Ks.

District PRATT Date 4-26-80 Customer Order No.

COMPANY NAME Big J Production Co. & Quadel Energy

ADDRESS ~~P.O. Box 11245~~ 357 Koko, Wichita, KS. 67211

LEASE AND WELL NO. Vieux #1 COUNTY Kiowa STATE KS. Sec. 24 Twp. 30S Rge. 18W

24 30S 18W

Mail Invoice To Same No. Copies Requested Req
Co. Name Address

Mail Charts To Same No. Copies Requested Req
Address

Formation Test No. 1 Interval Tested from 3445 ft. to 3520 ft. Total Depth 3520 ft.

Packer Depth 3430 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3445 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3481 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 3484 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor H-30 #77 Drill Collar Length 553 I. D. 2 1/2 in.

Mud Type Drispac Viscosity 40 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 6.6 cc. Drill Pipe Length 2872 I. D. 3.8 in.

Chlorides 36,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 O.D. in.

Jars: Make — Serial Number Anchor Length 310 Ft 44 ft. Size 5 1/2 O.D. 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 F.H. in.

Blow: Strong dying to weak during Final Flow Period
Weak Blow decreasing during Final Flow period

Recovered 620 ft. of Muddy Water Chlorides 54,000 p.p.m.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Had Trouble w/ Bridges or Tight spots going in hole - Slid Tool 10' To Bottom After Tool opened.
On Location - 2:45 P.M. - Pick up Tool - 3:45 P.M. OFF Location - 1:30 A.M.

Time Set Packer(s) 6:25 ~~A.M.~~ P.M. Time Started Off Bottom 8:55 ~~A.M.~~ P.M. Maximum Temperature 115

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 1779 | P.S.I. | | | |
| Initial Flow Period | Minutes 15 | (B) 288 | P.S.I. | to (C) | 330 | P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) 1653 | P.S.I. | | | |
| Final Flow Period | Minutes 45 | (E) 352 | P.S.I. | to (F) | 363 | P.S.I. |
| Final Closed In Period | Minutes 45 | (G) 1411 | P.S.I. | | | |
| Final Hydrostatic Pressure | | (H) 1642 | 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 Vernon C. Schrag
Signature of Customer or his authorized representative

RECEIVED
APR 28 1980

Western Representative Dave Sloan

Thank you

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 550.00 |
| Misrun | $ |
| Straddle Test | $ |
| Jars | $ |
| Selective Zone | $ |
| Safety Joint | $ |
| Standby | $ |
| Evaluation | $ |
| Extra Packer | $ |
| Circ. Sub. | $ |
| Mileage 58 x 7.50 | $ 43.50 |
| Fluid Sampler | $ |
| Extra Charts | $ |
| TOTAL | $ 593.50 |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 4-26-80 Test Ticket No. 5761

Recorder No. 2604 Capacity 4150 Location 3520 Ft.

Clock No. Elevation 2169 KB Well Temperature 115 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1794 | P.S.I. | Open Tool | 6:25 PM | |
| B | First Initial Flow Pressure | 288 | P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C | First Final Flow Pressure | 331 | P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 1662 | P.S.I. | Second Flow Pressure | 45 Mins. | 45 Mins. |
| E | Second Initial Flow Pressure | 350 | P.S.I. | Final Closed-in Pressure | 45 Mins. | 48 Mins. |
| F | Second Final Flow Pressure | 361 | P.S.I. | | | |
| G | Final Closed-in Pressure | 1420 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 1645 | P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | | Press. |
|---|---|---|
| P 1 | 0 | 288 |
| P 2 | 5 | 297 |
| P 3 | 10 | 325 |
| P 4 | 15 | 331 |
| P 5 | 20 | |
| P 6 | 25 | |
| P 7 | 30 | |
| 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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 331 |
| 3 | 719 |
| 6 | 1458 |
| 9 | 1546 |
| 12 | 1586 |
| 15 | 1609 |
| 18 | 1622 |
| 21 | 1631 |
| 24 | 1638 |
| 27 | 1643 |
| 30 | 1647 |
| 33 | 1651 |
| 36 | 1655 |
| 39 | 1658 |
| 42 | 1660 |
| 45 | 1662 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 350 |
| 5 | 352 |
| 10 | 352 |
| 15 | 353 |
| 20 | 355 |
| 25 | 357 |
| 30 | 358 |
| 35 | 359 |
| 40 | 360 |
| 45 | 361 |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

**Final Shut-In**
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 361 |
| 3 | 494 |
| 6 | 857 |
| 9 | 1038 |
| 12 | 1153 |
| 15 | 1222 |
| 18 | 1265 |
| 21 | 1301 |
| 24 | 1328 |
| 27 | 1347 |
| 30 | 1364 |
| 33 | 1376 |
| 36 | 1389 |
| 39 | 1399 |
| 42 | 1408 |
| 45 | 1416 |
| 48 | 1420 |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

WTC - 4

Company: Big "J" Production Company & Quadel Energy
Lease & Well No.: Vieux #1
Elevation: 2169 Kelly Bushing Formation: Statler
Effective Pay: - Ft. Ticket No.: 5761
Date: 4/26/80 Sec.: 24 Twp.: 30S Range: 18W
County: Kiowa State: Kansas
Test Approved by: Vernon C. Schrag
Western Representative: Dave Sloan

Formation Test No.: 1 Interval Tested from: 3445 ft. to: 3520 ft. Total Depth: 3520 ft.
Packer Depth: 3440 ft. Size: 6 3/4 in. Packer Depth: - ft. Size: - in.
Packer Depth: 3445 ft. Size: 6 3/4 in. Packer Depth: - ft. Size: - in.
Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 3481 ft. Recorder Number: 2604 Cap.: 4150
Bottom Recorder Depth (Outside): 3484 ft. Recorder Number: 6246 Cap.: 5200
Below Straddle Recorder Depth: - ft. Recorder Number: - Cap.: -

Drilling Contractor: H-30, Inc. Rig #77
Drill Collar Length: 553 I. D.: 2.2 in.
Mud Type: drispac Viscosity: 40
Weight Pipe Length: - I. D.: - in.
Weight: 9.2 Water Loss: 61.6 cc.
Drill Pipe Length: 2872 I. D.: 3.8 in.
Chlorides: 36,000 P.P.M.
Test Tool Length: 20 ft. Tool Size: 5½OD in.
Jars: Make: - Serial Number: -
Anchor Length: 31 DP + 44 ft. Size: 5½OD in.
Did Well Flow?: No Reversed Out: No
Surface Choke Size: 3/4 in. Bottom Choke Size: 3/4 in.
Main Hole Size: 7 7/8 in. Tool Joint Size: 4½FH in.

Blow: Strong, dying to weak during initial flow period. Weak blow decreasing during final flow period.

Recovered: 620 ft. of muddy water — Chlorides 54,000 ppm
Recovered: ft. of
Recovered: ft. of
Recovered: ft. of
Recovered: ft. of

Remarks: Had trouble with bridges or tight spots going into hole; slid tool ten feet to bottom after tool opened.

Time Set Packer(s): 6:25 ~~A.M.~~ P.M. Time Started Off Bottom: 8:55 ~~A.M.~~ P.M. Maximum Temperature: 115°

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 1794 P.S.I. | | |
| Initial Flow Period | Minutes 15 | (B) 288 P.S.I. | to (C) 331 P.S.I. | |
| Initial Closed In Period | Minutes 45 | (D) 1662 P.S.I. | | |
| Final Flow Period | Minutes 45 | (E) 350 P.S.I. | to (F) 361 P.S.I. | |
| Final Closed In Period | Minutes 48 | (G) 1420 P.S.I. | | |
| Final Hydrostatic Pressure | | (H) 1645 P.S.I. | | |

WTC

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

Date 4/26/80 Test Ticket No. 5761

Recorder No. 2604 Capacity 4150 Location 3520 Ft.

Clock No. - Elevation 2169 Kelly Bushing Well Temperature 115 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 1794 P.S.I. | Open Tool | 6:25P M | |
| B First Initial Flow Pressure | 288 P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C First Final Flow Pressure | 331 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D Initial Closed-in Pressure | 1662 P.S.I. | Second Flow Pressure | 45 Mins. | 45 Mins. |
| E Second Initial Flow Pressure | 350 P.S.I. | Final Closed-in Pressure | 45 Mins. | 48 Mins. |
| F Second Final Flow Pressure | 361 P.S.I. | | | |
| G Final Closed-in Pressure | 1420 P.S.I. | | | |
| H Final Hydrostatic Mud | 1645 P.S.I. | | | |

### PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 288 |
| P 2 5 | 297 |
| P 3 10 | 325 |
| P 4 15 | 331 |
| 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. |
|---|---|
| 0 | 331 |
| 3 | 719 |
| 6 | 1458 |
| 9 | 1546 |
| 12 | 1586 |
| 15 | 1609 |
| 18 | 1622 |
| 21 | 1631 |
| 24 | 1638 |
| 27 | 1643 |
| 30 | 1647 |
| 33 | 1651 |
| 36 | 1655 |
| 39 | 1658 |
| 42 | 1660 |
| 45 | 1662 |

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 350 |
| 5 | 352 |
| 10 | 352 |
| 15 | 353 |
| 20 | 355 |
| 25 | 357 |
| 30 | 358 |
| 35 | 359 |
| 40 | 360 |
| 45 | 361 |

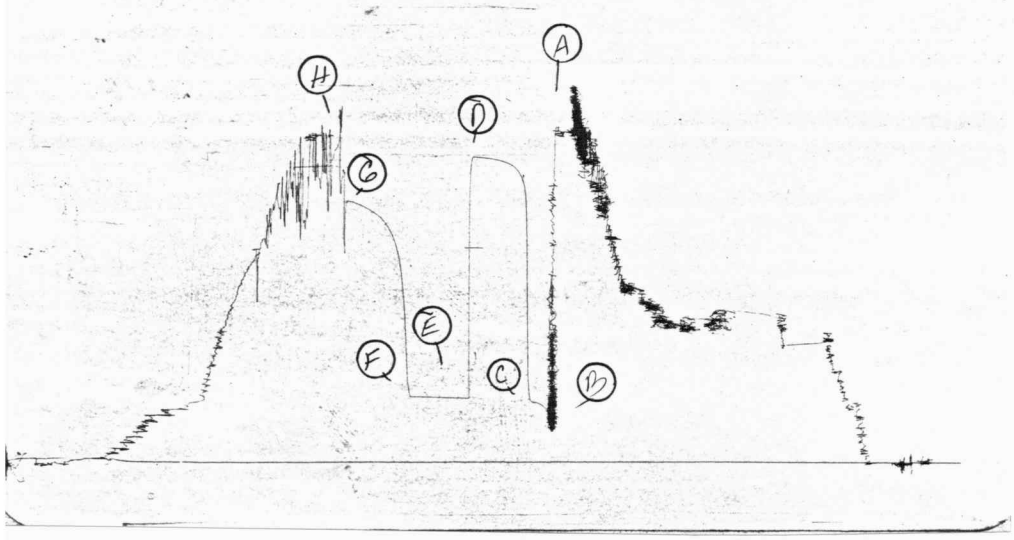
**Final Shut-In**
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 361 |
| 3 | 494 |
| 6 | 857 |
| 9 | 1038 |
| 12 | 1153 |
| 15 | 1222 |
| 18 | 1265 |
| 21 | 1301 |
| 24 | 1328 |
| 27 | 1347 |
| 30 | 1364 |
| 33 | 1376 |
| 36 | 1389 |
| 39 | 1399 |
| 42 | 1408 |
| 45 | 1416 |
| 48 | 1420 |

2604

Big J
Vieux #1
DST 1

~~Tkt# 5761~~
I



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

TICKET Nº 5744

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

Elevation 2169KB Formation LANSING Eff. Pay Ft.

District PRATT Date 4-30-80 Customer Order No.

COMPANY NAME Big J. Production Co + Quadel Energy

ADDRESS 729 E. Central - P.O. Box 11245 Wichita, Kns 67211

LEASE AND WELL NO. Viery #1 COUNTY KIOWA STATE KANSAS Sec. 24 Twp. 30S Rge. 18W

Mail Invoice To Co. Name Address No. Copies Requested

Mail Charts To Address No. Copies Requested

Formation Test No. 2 Interval Tested from 4372 ft. to 4435 ft. Total Depth 4435 ft.

Packer Depth 4367 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 4372 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4376 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4379 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor H-30 Inc Rig #77 Drill Collar Length 550 I. D. 2 1/4 in.

Mud Type Premix Dispac Viscosity 43 Weight Pipe Length — I. D. — in.

Weight 9.2 Water Loss 15.2 cc. Drill Pipe Length 4233 I. D. 3.8 in.

Chlorides 10,800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make NO Serial Number — Anchor Length 23' (32 + DP) Size 5 1/2 OD - in. D.P.

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 FH in.

Blow: Very weak blow died in 5 min on initial flow period few bubbles on final flow period.

Recovered 20 ft. of Drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Indicated tool plugged on flow periods

RECEIVED
MAY 2 - 1980

On location 4:30 AM - pick up tool 10:00 A.M. - laid down tool 4:30 off location 6:00

Time Set Packer(s) 12:05 A.M. P.M. Time Started Off Bottom 2:05 A.M. P.M. Maximum Temperature 112

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2219 | P.S.I. | |
| Initial Flow Period | Minutes 15 | | (B) | — | P.S.I. to (C) | — P.S.I. |
| Initial Closed In Period | Minutes 45 | | (D) | 1600 | P.S.I. | |
| Final Flow Period | Minutes 15 | | (E) | 72 | P.S.I. to (F) | — P.S.I. |
| Final Closed In Period | Minutes 45 | | (G) | 1506 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 2062 | 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 Vernon C Schrag
Signature of Customer or his authorized representative

Western Representative Rod Tritt Thank you.

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ |
| Misrun | $ 1300 |
| Straddle Test | $ |
| Jars | $ |
| Selective Zone | $ |
| Safety Joint | $ |
| Standby | $ |
| Evaluation | $ |
| Extra Packer | $ |
| Circ. Sub. | $ |
| Mileage X 75 45 miles | 33.75 |
| Fluid Sampler | $ |
| Extra Charts | $ |
| TOTAL | $ 33.75 |

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

Date 4-30-80 Test Ticket No. 5744

Recorder No. 2606 Capacity 4150 Location 4376 Ft.

Clock No. Elevation 2169 KB Well Temperature 112 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 2215 | P.S.I. |
| B | First Initial Flow Pressure | — | P.S.I. |
| C | First Final Flow Pressure | — | P.S.I. |
| D | Initial Closed-in Pressure | 1605 | P.S.I. |
| E | Second Initial Flow Pressure | 87 | P.S.I. |
| F | Second Final Flow Pressure | 1510 | P.S.I. |
| G | Final Closed-in Pressure | 1536 | P.S.I. |
| H | Final Hydrostatic Mud | 2054 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 12105 P M | |
| First Flow Pressure | 15 Mins. | — Mins. |
| Initial Closed-in Pressure | 45 Mins. | — Mins. |
| Second Flow Pressure | 15 Mins. | 15 Mins. |
| Final Closed-in Pressure | 45 Mins. | 45 Mins. |

## PRESSURE BREAKDOWN

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

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | |
| P 2 | 5 | |
| P 3 | 10 | |
| P 4 | 15 | |
| P 5 | 20 | |
| P 6 | 25 | |
| P 7 | 30 | |
| 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 | |
| 3 | |
| 6 | |
| 9 | |
| 12 | |
| 15 | |
| 18 | |
| 21 | |
| 24 | |
| 27 | |
| 30 | |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 87 ~~1605~~ |
| 5 | 1456 |
| 10 | 1490 |
| 15 | 1510 |
| 20 | ~~1513~~ |
| 25 | ~~1503~~ |
| 30 | ~~1526~~ |
| 35 | |
| 40 | |
| 45 | |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 1510 |
| 3 | 1513 |
| 6 | 1519 |
| 9 | 1521 |
| 12 | 1524 |
| 15 | 1526 |
| 18 | 1527 |
| 21 | 1528 |
| 24 | 1529 |
| 27 | 1530 |
| 30 | 1531 |
| 33 | 1532 |
| 36 | 1533 |
| 39 | 1534 |
| 42 | 1535 |
| 45 | 1536 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

IR #5744
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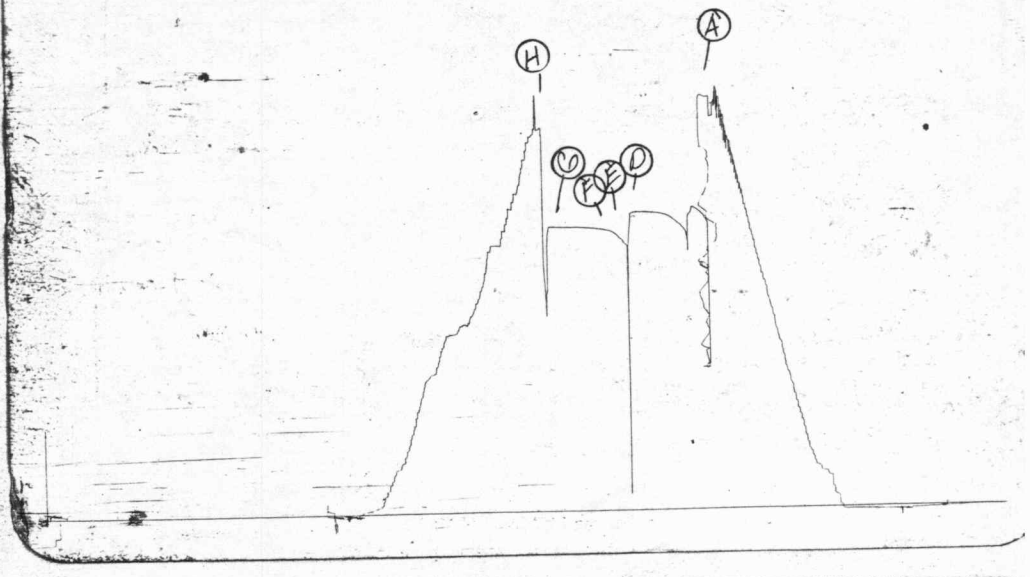


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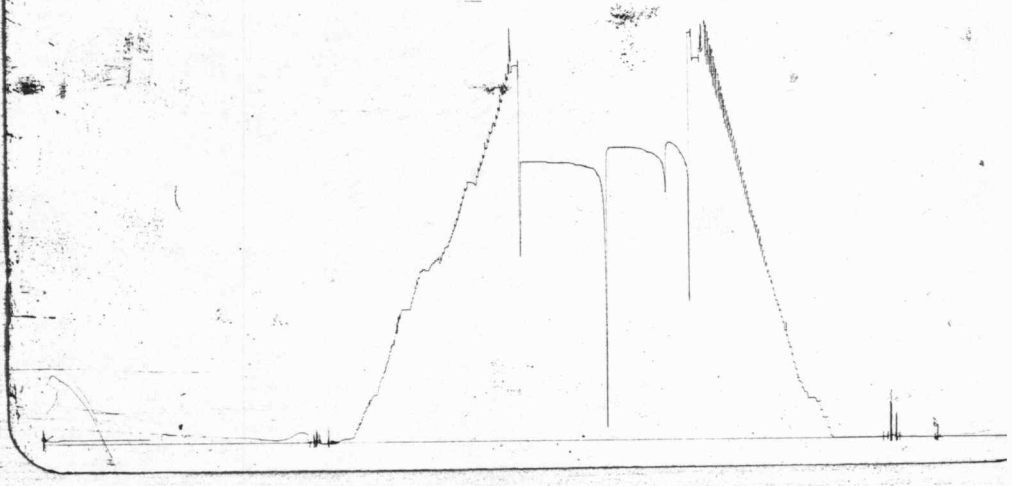

Company: Big "J" Production Co. & Quadel Energy | Lease & Well No.: Vieux #1

Elevation: 2169 Kelly Bushing | Formation: Lansing | Effective Pay: ----- Ft. | Ticket No.: 5744

Date: 4/30/80 | Sec.: 24 | Twp.: 30S | Range: 18W | County: Kiowa | State: Kansas

Test Approved by: Vernon C. Schrag | Western Representative: Rod Tritt

Formation Test No.: 2 | Interval Tested from: 4372 ft. to: 4435 ft. | Total Depth: 4435 ft.

Packer Depth: 4367 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Packer Depth: 4372 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Depth of Selective Zone Set: --

Top Recorder Depth (Inside): 4376 ft. | Recorder Number: 2606 | Cap.: 4150

Bottom Recorder Depth (Outside): 4379 ft. | Recorder Number: 4332 | Cap.: 4200

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

Drilling Contractor: H-30, Inc. Rig #77 | Drill Collar Length: 550 | I. D.: 2¼ in.

Mud Type: premix-drispac | Viscosity: 43 | Weight Pipe Length: - | I. D.: - in.

Weight: 9.2 | Water Loss: 15.2 cc. | Drill Pipe Length: 4233 | I. D.: 3.8 in.

Chlorides: 10,800 P.P.M. | Test Tool Length: 20 ft. | Tool Size: 5½OD in.

Jars: Make: No | Serial Number: - | Anchor Length: 63' (32 +DP) ft. | Size: 5½OD-D.P. in.

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

Main Hole Size: 7 7/8 in. | Tool Joint Size: 4½FH in.

Blow: Very weak blow;died in five minutes on initial flow period. Few bubbles on final flow period.

Recovered: 20 ft. of drilling mud

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Remarks: Indicated tool plugged on flow periods.

Time Set Packer(s): 12:05 ~~A.M.~~ P.M. | Time Started Off Bottom: 2:05 ~~A.M.~~ P.M. | Maximum Temperature: 112°

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 2215 | P.S.I. | |
| Initial Flow Period | Minutes -- | (B) -- P.S.I. | to (C) -- | P.S.I. |
| Initial Closed In Period | Minutes -- | (D) 1605 | P.S.I. | |
| Final Flow Period | Minutes 15 | (E) 87 P.S.I. | to (F) 1510 | P.S.I. |
| Final Closed In Period | Minutes 45 | (G) 1536 | P.S.I. | |
| Final Hydrostatic Pressure | | (H) 2054 | P.S.I. | |

WTC

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

Date 4/30/80 Test Ticket No. 5744

Recorder No. 2606 Capacity 4150 Location 4376 Ft.

Clock No. ---- Elevation 2169 Kelly Bushing Well Temperature 112° °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2215 P.S.I. | Open Tool | 12:05P M | |
| B First Initial Flow Pressure | -- P.S.I. | First Flow Pressure | 15 Mins. | -- Mins. |
| C First Final Flow Pressure | -- P.S.I. | Initial Closed-in Pressure | 45 Mins. | -- Mins. |
| D Initial Closed-in Pressure | 1605 P.S.I. | Second Flow Pressure | 15 Mins. | 15 Mins. |
| E Second Initial Flow Pressure | 87 P.S.I. | Final Closed-in Pressure | 45 Mins. | 45 Mins. |
| F Second Final Flow Pressure | 1510 P.S.I. | | | |
| G Final Closed-in Pressure | 1536 P.S.I. | | | |
| H Final Hydrostatic Mud | 2054 P.S.I. | | | |

### PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 0 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: 0 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
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| | |

**Second Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 87 |
| 5 | 1456 |
| 10 | 1490 |
| 15 | 1510 |
| | |
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| | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 1510 |
| 3 | 1513 |
| 6 | 1519 |
| 9 | 1521 |
| 12 | 1524 |
| 15 | 1526 |
| 18 | 1527 |
| 21 | 1528 |
| 24 | 1529 |
| 27 | 1530 |
| 30 | 1531 |
| 33 | 1532 |
| 36 | 1533 |
| 39 | 1534 |
| 42 | 1535 |
| 45 | 1536 |
| | |
| | |
| | |
| | |

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

TICKET Nº 5194

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

Elevation 2961 K.B. Formation Cherokee Eff. Pay — Ft.

District Great Bend Date 5-3-80 Quadel Customer Order No. —

COMPANY NAME Big "J" Oil Production & Quadel Energy ~~Group~~

ADDRESS Box 11245, 729 E. Central, Wichita, 67211

LEASE AND WELL NO. #1 Vieux OK COUNTY Kiowa STATE KS. Sec. 24 Twp. 30S Rge. 18W OK

Mail Invoice To Co. Name Same As Above Address " No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

| | | | |
|---|---|---|---|
| Formation Test No. 3 | Interval Tested from 4938 ft. to 5005 ft. | Total Depth 5005 ft. | |
| Packer Depth 4933 ft. | Size 6 3/4 in. | Packer Depth 4938 ft. | Size 6 3/4 in. |
| Packer Depth — ft. | Size — in. | Packer Depth — ft. | Size — in. |
| Depth of Selective Zone Set — | | | |

| | | | |
|---|---|---|---|
| Top Recorder Depth (Inside) | 4955 ft. | Recorder Number 3474 | Cap. 3000 |
| Bottom Recorder Depth (Outside) | 4958 ft. | Recorder Number 3659 | Cap. 4000 |
| Below Straddle Recorder Depth | — ft. | Recorder Number — | Cap. — |

| | | | |
|---|---|---|---|
| Drilling Contractor H-30 Rig 77 | | Drill Collar Length 550 | I. D. 2.7 in. |
| Mud Type Drispac | Viscosity 42 | Weight Pipe Length — | I. D. — in. |
| Weight 9.3 | Water Loss 9.0 cc. | Drill Pipe Length 4358 | I. D. 3.8 in. |
| Chlorides 14,000 P.P.M. | | Test Tool Length 30 ft. | Tool Size 5 1/2 OD in. |
| Jars: Make WTC | Serial Number 403 | Anchor Length 67 ft. | Size 5 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 FH in. |

Blow: Good Throughout Flow Periods.

Recovered 530 ft. of Gas In Pipe
Recovered 70 ft. of Gas Cut Mud
Recovered — ft. of
Recovered — ft. of
Recovered — ft. of
Remarks:

RECEIVED MAY 6 - 1980

Arrived 11:30 P.M 5-2-80 Departed 12:30 P.M 5-3-80

Time Set Packer(s) 5:13 A.M. P.M. Time Started Off Bottom 7:45 A.M. P.M. Maximum Temperature 119

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 2493 | P.S.I. | |
| Initial Flow Period | Minutes 15 | (B) 61 | P.S.I. to (C) 61 | P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) 176 | P.S.I. | |
| Final Flow Period | Minutes 45 | (E) 69 | P.S.I. to (F) 69 | P.S.I. |
| Final Closed In Period | Minutes 45 | (G) 161 | P.S.I. | |
| Final Hydrostatic Pressure | | (H) 2486 | 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 J. E. Jasperson
Signature of Customer or his authorized representative

Western Representative Alonzo Wondra

Thank You

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 600.00 |
| Misrun | $ — |
| Straddle Test | $ — |
| Jars | $ 300.00 |
| Selective Zone | $ — |
| Safety Joint | $ 50.00 |
| Standby | $ — |
| Evaluation | $ — |
| Extra Packer | $ — |
| Circ. Sub. | $ — |
| 98 Mileage From G.B. x 75¢ | $ 73.50 |
| Fluid Sampler | $ — |
| Extra Charts | $ — |
| TOTAL | $ 1023.50 |

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

Date 5-3-80 Test Ticket No. 5194

Recorder No. 3474 Capacity 3000 Location 5005 Ft.

Clock No. Elevation 2961 KB Well Temperature 119 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2479 | P.S.I. | Open Tool | 5:13 AM | . |
| B | First Initial Flow Pressure | 70 | P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C | First Final Flow Pressure | 59 | P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 173 | P.S.I. | Second Flow Pressure | 45 Mins. | 45 Mins. |
| E | Second Initial Flow Pressure | 74 | P.S.I. | Final Closed-in Pressure | 45 Mins. | 45 Mins. |
| F | Second Final Flow Pressure | 64 | P.S.I. | | | |
| G | Final Closed-in Pressure | 158 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 2431 | P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 70 |
| P 2 | 5 | 65 |
| P 3 | 10 | 59 |
| P 4 | 15 | 59 |
| P 5 | 20 | |
| P 6 | 25 | |
| P 7 | 30 | |
| 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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 59 |
| 3 | 58 |
| 6 | 59 |
| 9 | 61 |
| 12 | 62 |
| 15 | 69 |
| 18 | 79 |
| 21 | 88 |
| 24 | 97 |
| 27 | 111 |
| 30 | 123 |
| 33 | 132 |
| 36 | 142 |
| 39 | 155 |
| 42 | 165 |
| 45 | 173 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 74 |
| 5 | 70 |
| 10 | 64 |
| 15 | 64 |
| 20 | |
| 25 | |
| 30 | |
| 35 | |
| 40 | |
| 45 | 64 |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 64 |
| 3 | 70 |
| 6 | 74 |
| 9 | 82 |
| 12 | 89 |
| 15 | 97 |
| 18 | 104 |
| 21 | 112 |
| 24 | 118 |
| 27 | 124 |
| 30 | 130 |
| 33 | 136 |
| 36 | 142 |
| 39 | 149 |
| 42 | 154 |
| 45 | 158 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

WTC - 4

Company: Big "J" Oil Production & Quadel Energy — Lease & Well No.: Vieux #1

Elevation: 2961 Kelly Bushing — Formation: Cherokee — Effective Pay: ---- Ft. — Ticket No.: 5194

Date: 5/3/80 — Sec.: 24 — Twp.: 30 — Range: 18W — County: Kiowa — State: Kansas

Test Approved by: J. E. Jesperson — Western Representative: Denis Wondra

Formation Test No.: 3 — Interval Tested from: 4938 ft. to: 5005 ft. — Total Depth: 5005 ft.

| | | | |
|---|---|---|---|
| Packer Depth | 4933 ft. | Packer Depth | 4938 ft. |
| Size | 6 3/4 in. | Size | 6 3/4 in. |
| Packer Depth | - ft. | Packer Depth | - ft. |
| Size | - in. | Size | - in. |
| Depth of Selective Zone Set | - | | |

| | | | |
|---|---|---|---|
| Top Recorder Depth (Inside) | 4955 ft. | Recorder Number | 3474 |
| Cap. | 3000 | | |
| Bottom Recorder Depth (Outside) | 4958 ft. | Recorder Number | 3659 |
| Cap. | 4000 | | |
| Below Straddle Recorder Depth | - ft. | Recorder Number | - |
| Cap. | - | | |

| | | | |
|---|---|---|---|
| Drilling Contractor | H-30, Drlg. Rig #77 | Drill Collar Length | 550 |
| I. D. | 2.7 in. | | |
| Mud Type | drispac | Viscosity | 42 |
| Weight Pipe Length | -- | I. D. | - in. |
| Weight | 9.3 | Water Loss | 9.0 cc. |
| Drill Pipe Length | 4358 | I. D. | 3.8 in. |
| Chlorides | 14,000 P.P.M. | Test Tool Length | 30 ft. |
| Tool Size | 5½OD in. | | |
| Jars: Make | WTC | Serial Number | 403 |
| Anchor Length | 67 ft. | Size | 5½OD in. |
| Did Well Flow? | No | Reversed Out | No |
| Surface Choke Size | 3/4 in. | Bottom Choke Size | 3/4 in. |
| | | Main Hole Size | 7 7/8 in. |
| Tool Joint Size | 4½FH in. | | |

Blow: Good throughout flow periods.

Recovered 530 ft. of gas in pipe

Recovered 70 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:13 A.M. ~~P.M.~~ — Time Started Off Bottom 7:45 A.M. ~~P.M.~~ — Maximum Temperature 119°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2479 | P.S.I. | |
| Initial Flow Period | Minutes 15 | (B) | 70 | P.S.I. to (C) | 59 | P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) | 173 | P.S.I. | | |
| Final Flow Period | Minutes 45 | (E) | 74 | P.S.I. to (F) | 64 | P.S.I. |
| Final Closed In Period | Minutes 45 | (G) | 158 | P.S.I. | | |
| Final Hydrostatic Pressure | | | (H) | 2431 | P.S.I. | |

## WESTERN TESTING CO., INC.

### Pressure Data

Date 5/3/80 Test Ticket No. 5194

Recorder No. 3474 Capacity 3000 Location 5005 Ft.

Clock No. ----- Elevation 2961 Kelly Bushing Well Temperature 119 °F

| Point | Pressure | | Time Given | | Time Computed | |
|---|---|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2479 P.S.I. | Open Tool | 5:13A | M | | |
| B First Initial Flow Pressure | 70 P.S.I. | First Flow Pressure | 15 | Mins. | 15 | Mins. |
| C First Final Flow Pressure | 59 P.S.I. | Initial Closed-in Pressure | 45 | Mins. | 45 | Mins. |
| D Initial Closed-in Pressure | 173 P.S.I. | Second Flow Pressure | 45 | Mins. | 45 | Mins. |
| E Second Initial Flow Pressure | 74 P.S.I. | Final Closed-in Pressure | 45 | Mins. | 45 | Mins. |
| F Second Final Flow Pressure | 64 P.S.I. | | | | | |
| G Final Closed-in Pressure | 158 P.S.I. | | | | | |
| H Final Hydrostatic Mud | 2431 P.S.I. | | | | | |

### PRESSURE BREAKDOWN

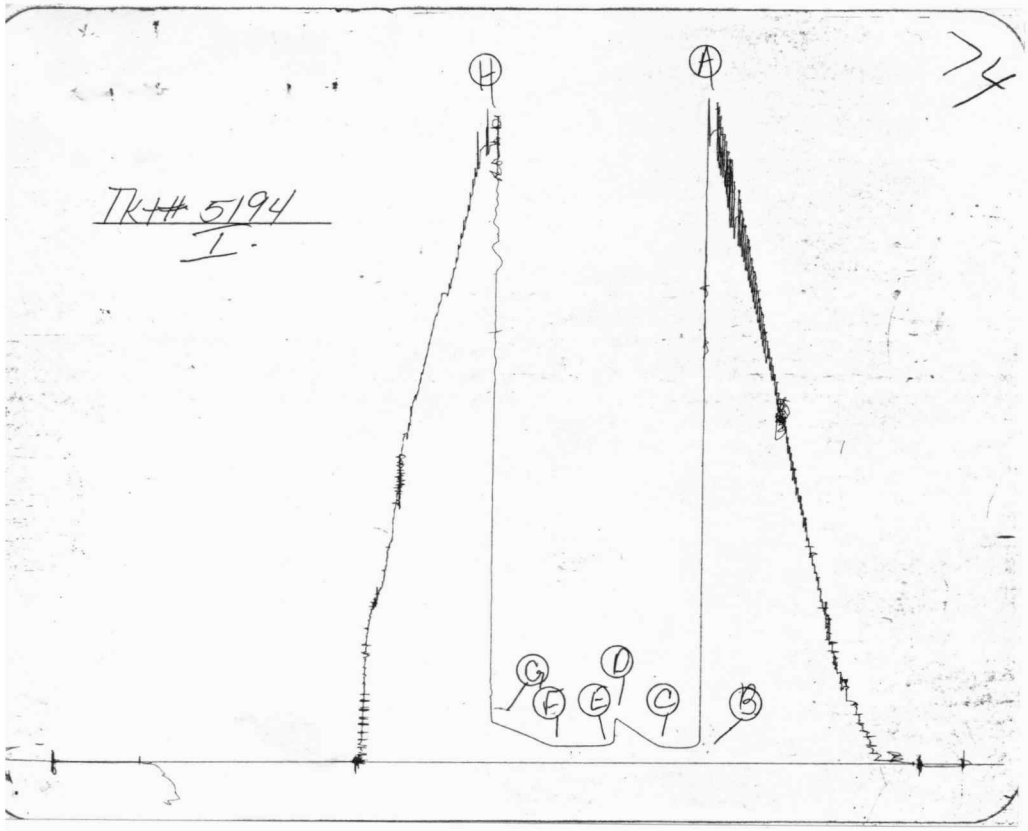
**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

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

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

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

| Point | First Flow Pressure Mins. | First Flow Pressure Press. | Initial Shut-In Minutes | Initial Shut-In Press. | Second Flow Pressure Minutes | Second Flow Pressure Press. | Final Shut-In Minutes | Final Shut-In Press. |
|---|---|---|---|---|---|---|---|---|
| P 1 | 0 | 70 | 0 | 59 | 0 | 74 | 0 | 64 |
| P 2 | 5 | 65 | 3 | 58 | 5 | 70 | 3 | 70 |
| P 3 | 10 | 59 | 6 | 59 | 10 | 64 | 6 | 74 |
| P 4 | 15 | 59 | 9 | 61 | 15 | 64 | 9 | 82 |
| P 5 | | | 12 | 62 | 20 | 64 | 12 | 89 |
| P 6 | | | 15 | 69 | 25 | 64 | 15 | 97 |
| P 7 | | | 18 | 79 | 30 | 64 | 18 | 104 |
| P 8 | | | 21 | 88 | 35 | 64 | 21 | 112 |
| P 9 | | | 24 | 97 | 40 | 64 | 24 | 118 |
| P10 | | | 27 | 111 | 45 | 64 | 27 | 124 |
| P11 | | | 30 | 123 | | | 30 | 130 |
| P12 | | | 33 | 132 | | | 33 | 136 |
| P13 | | | 36 | 142 | | | 36 | 142 |
| P14 | | | 39 | 155 | | | 39 | 149 |
| P15 | | | 42 | 165 | | | 42 | 154 |
| P16 | | | 45 | 173 | | | 45 | 158 |
| P17 | | | | | | | | |
| P18 | | | | | | | | |
| P19 | | | | | | | | |
| P20 | | | | | | | | |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# WESTERN TESTING CO., INC.
## FORMATION TESTING

TICKET Nº 5195

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

Elevation 2961 K.B. Formation Miss. Eff. Pay — Ft.

District Great Bend, KS Date 5-4-80 Quadel Customer Order No. —

COMPANY NAME Big "J" Oil Production & Quadell Energy Group

ADDRESS Box 11245, 729 E. Central, Wichita, Ks. 67211

LEASE AND WELL NO. #1 Vieux OF COUNTY Kiowa STATE KS. Sec. 24 Twp. 30S Rge. 18W OR

Mail Invoice To Same As Above No. Copies Requested 5
Co. Name " Address "

Mail Charts To — No. Copies Requested 5
Address

Formation Test No. 4 Interval Tested from 5052 ft. to 5090 ft. Total Depth 5090 ft.
Packer Depth 5047 ft. Size 6 3/4 in. Packer Depth 5052 ft. Size 6 3/4 in.
Packer Depth — ft. Size — in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 5080 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 5083 ft. Recorder Number 3659 Cap. 4000
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor H-30 Drlg. Rig 77 Drill Collar Length 550 I. D. 2.7 in.
Mud Type Drispac Viscosity 43 Weight Pipe Length — I. D. — in.
Weight 9.4 Water Loss 9.0 cc. Drill Pipe Length 4472 I. D. 3.8 in.
Chlorides 16,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 403 Anchor Length 38 ft. Size 5 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 FH in.

Blow: Very Good Throughout Flow Periods.

Recovered 600 ft. of Gas In Pipe
Recovered 95 ft. of Gas Cut Mud
Recovered 30 ft. of Very Sli Oil & Gas Cut Mud
Recovered — ft. of
Recovered — ft. of
Remarks:

RECEIVED
MAY 6 - 1980

Arrived 3:30 A.M. Departed 3:15 P.M. 5-4-80

Time Set Packer(s) 8:43 A.M. P.M. Time Started Off Bottom 11:15 A.M. P.M. Maximum Temperature 120

| | | | | | |
|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) | 2501 | P.S.I. | |
| Initial Flow Period | Minutes 15 | (B) | 69 | P.S.I. to (C) | 69 P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) | 530 | P.S.I. | |
| Final Flow Period | Minutes 45 | (E) | 84 | P.S.I. to (F) | 92 P.S.I. |
| Final Closed In Period | Minutes 45 | (G) | 545 | P.S.I. | |
| Final Hydrostatic Pressure | | (H) | 2493 | 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 Vernon Schrag
Signature of Customer or his authorized representative

Western Representative Denis Wendt

Thank you

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 650.00 |
| Misrun | $ — |
| Straddle Test | $ — |
| Jars | $ 300.00 |
| Selective Zone | $ — |
| Safety Joint | $ 50.00 |
| Standby | $ — |
| Evaluation | $ — |
| Extra Packer | $ — |
| Circ. Sub. | $ — |
| Mileage | $ — |
| Fluid Sampler | $ — |
| Extra Charts | $ — |
| TOTAL | $ 1000.00 |

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

Date 5-4-80 Test Ticket No. 5195

Recorder No. 3474 Capacity 3000 Location 5090 Ft.

Clock No. Elevation 2961 KB Well Temperature 120 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2529 P.S.I. | Open Tool | 8:43 AM | . |
| B | First Initial Flow Pressure | 70 P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C | First Final Flow Pressure | 64 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 518 P.S.I. | Second Flow Pressure | 45 Mins. | 45 Mins. |
| E | Second Initial Flow Pressure | 91 P.S.I. | Final Closed-in Pressure | 45 Mins. | 45 Mins. |
| F | Second Final Flow Pressure | 93 P.S.I. | | | |
| G | Final Closed-in Pressure | 541 P.S.I. | | | |
| H | Final Hydrostatic Mud | 2491 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 70 |
| P 2 | 5 | 65 |
| P 3 | 10 | 64 |
| P 4 | 15 | 64 |
| P 5 | 20 | |
| P 6 | 25 | |
| P 7 | 30 | |
| 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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 64 |
| 3 | 70 |
| 6 | 83 |
| 9 | 97 |
| 12 | 109 |
| 15 | 133 |
| 18 | 158 |
| 21 | 185 |
| 24 | 215 |
| 27 | 248 |
| 30 | 286 |
| 33 | 324 |
| 36 | 373 |
| 39 | 420 |
| 42 | 471 |
| 45 | 518 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 91 |
| 5 | 86 |
| 10 | 86 |
| 15 | 86 |
| 20 | 86 |
| 25 | 88 |
| 30 | 88 |
| 35 | 89 |
| 40 | 92 |
| 45 | 93 |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 93 |
| 3 | 111 |
| 6 | 126 |
| 9 | 152 |
| 12 | 180 |
| 15 | 208 |
| 18 | 235 |
| 21 | 262 |
| 24 | 295 |
| 27 | 332 |
| 30 | 367 |
| 33 | 403 |
| 36 | 439 |
| 39 | 476 |
| 42 | 517 |
| 45 | 541 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

Company Big "J" Oil Production & Quadel Energy Lease & Well No. Vieux #1

Elevation 2961 Kelly Bushing Formation Mississippi Effective Pay ---- Ft. Ticket No. 5195

Date 5/4/80 Sec. 24 Twp. 30S Range 18W County Kiowa State Kansas

Test Approved by Vernon C. Schrag Western Representative Denis Wondra

Formation Test No. 4 Interval Tested from 5052 ft. to 5090 ft. Total Depth 5090 ft.

Packer Depth 5047 ft. Size 6 3/4 in. Packer Depth 5052 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5080 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 5083 ft. Recorder Number 3659 Cap. 4000

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

Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 550 I. D. 2.7 in.

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

Weight 9.4 Water Loss 9.0 cc. Drill Pipe Length 4472 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 30 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 403 Anchor Length 38 ft. Size 5½OD in.

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

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

Blow Very good throughout flow periods.

Recovered 600 ft. of gas in pipe

Recovered 95 ft. of gas cut mud

Recovered 30 ft. of very slightly oil and gas cut mud

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:43 A.M. ~~P.M.~~ Time Started Off Bottom 11:15 A.M. ~~P.M.~~ Maximum Temperature 120°

Initial Hydrostatic Pressure ..... (A) 2529 P.S.I.

Initial Flow Period ..... Minutes 15 (B) 70 P.S.I. to (C) 64 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 518 P.S.I.

Final Flow Period ..... Minutes 45 (E) 91 P.S.I. to (F) 93 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 541 P.S.I.

Final Hydrostatic Pressure ..... (H) 2491 P.S.I.

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

Date 5/4/80 Test Ticket No. 5195

Recorder No. 3474 Capacity 3000 Location 5090 Ft.

Clock No. ----- Elevation 2961 Kelly Bushing Well Temperature 120 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 2529 | P.S.I. |
| B | First Initial Flow Pressure | 70 | P.S.I. |
| C | First Final Flow Pressure | 64 | P.S.I. |
| D | Initial Closed-in Pressure | 518 | P.S.I. |
| E | Second Initial Flow Pressure | 91 | P.S.I. |
| F | Second Final Flow Pressure | 93 | P.S.I. |
| G | Final Closed-in Pressure | 541 | P.S.I. |
| H | Final Hydrostatic Mud | 2491 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 8:43P M | |
| First Flow Pressure | 15 Mins. | 15 Mins. |
| Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| Second Flow Pressure | 45 Mins. | 45 Mins. |
| Final Closed-in Pressure | 45 Mins. | 45 Mins. |

### PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 70 |
| P 2 5 | 65 |
| P 3 10 | 64 |
| P 4 15 | 64 |
| 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. |
|---|---|
| 0 | 64 |
| 3 | 70 |
| 6 | 83 |
| 9 | 97 |
| 12 | 109 |
| 15 | 133 |
| 18 | 158 |
| 21 | 185 |
| 24 | 215 |
| 27 | 248 |
| 30 | 286 |
| 33 | 324 |
| 36 | 373 |
| 39 | 420 |
| 42 | 471 |
| 45 | 518 |

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 91 |
| 5 | 86 |
| 10 | 86 |
| 15 | 86 |
| 20 | 86 |
| 25 | 88 |
| 30 | 88 |
| 35 | 89 |
| 40 | 92 |
| 45 | 93 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 93 |
| 3 | 111 |
| 6 | 126 |
| 9 | 152 |
| 12 | 180 |
| 15 | 208 |
| 18 | 235 |
| 21 | 262 |
| 24 | 295 |
| 27 | 332 |
| 30 | 367 |
| 33 | 403 |
| 36 | 439 |
| 39 | 476 |
| 42 | 517 |
| 45 | 541 |

Tk#5195

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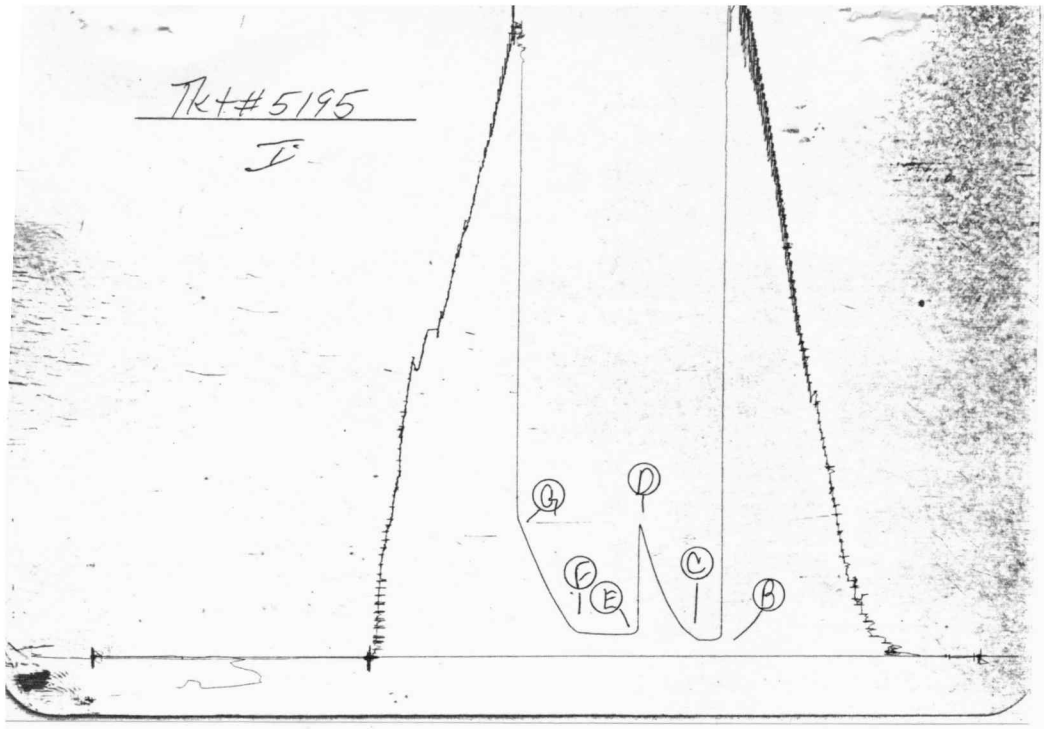


# WESTERN TESTING CO., INC.
## FORMATION TESTING

TICKET Nº 5196

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

Elevation 2961 K.B Formation Miss. Eff. Pay Ft.

District Great Bend Date 5-5-80 Customer Order No.

COMPANY NAME Big "J" Oil Production + Quadel Energy Group

ADDRESS Box 11245, 729 E. Central, Wichita, Ks. 67211

LEASE AND WELL NO. #1 Vieux COUNTY Kiowa STATE Ks. Sec. 24 Twp. 30s Rge. 18w

Mail Invoice To Same As Above No. Copies Requested 5
Co. Name Address

Mail Charts To No. Copies Requested 5
Address

Formation Test No. 5 Interval Tested from 5091 ft. to 5125 ft. Total Depth 5125 ft.

Packer Depth 5086 ft. Size 6 3/4 in. Packer Depth 5091 ft. Size 6 3/4 in.

Packer Depth — ft. Size — in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 5115 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 5118 ft. Recorder Number 3659 Cap. 4000

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

Drilling Contractor H-30 Drlg. Rig 77 Drill Collar Length 550 I. D. 2.7 in.

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

Weight 9.3 Water Loss 9.0 cc. Drill Pipe Length 4511 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 3/8 OD in.

Jars: Make WSC Serial Number 403 Anchor Length 34 ft. Size 5 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 FH in.

Blow: Weak. Increased To "1/2" On 1st F.P. Weak. Increased To Fair By End On 2nd Opening.

Recovered 220 ft. of Gas In Pipe

Recovered 30 ft. of Gas Cut Mud

Recovered 50 ft. of Sli Oil + Gas Cut Mud

Recovered ft. of

Recovered ft. of

Remarks: (PSI From Rec *3659)

RECEIVED
MAY 7 - 1980

Arrived 3:30 AM. Departed 7:30 P.M. 5-5-80

Time Set Packer(s) 7:43 A.M. P.M. Time Started Off Bottom 11:00 A.M. P.M. Maximum Temperature 122

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2518 | P.S.I. | |
| Initial Flow Period | Minutes 15 | | (B) | 40 | P.S.I. to (C) | 40 P.S.I. |
| Initial Closed In Period | Minutes 45 | | (D) | 489 | P.S.I. | |
| Final Flow Period | Minutes 60 | | (E) | 61 | P.S.I. to (F) | 61 P.S.I. |
| Final Closed In Period | Minutes 45 | | (G) | 123 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 2497 | 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 Vernon C Schrag
Signature of Customer or his authorized representative

Western Representative Glenn Wondra

Thank you

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 650.00 |
| Misrun | $ — |
| Straddle Test | $ — |
| Jars | $ 300.00 |
| Selective Zone | $ — |
| Safety Joint | $ 50.00 |
| Standby | $ — |
| Evaluation | $ — |
| Extra Packer | $ — |
| Circ. Sub. | $ — |
| Mileage | $ — |
| Fluid Sampler | $ — |
| Extra Charts | $ — |
| TOTAL | $ 1000.00 |

WESTERN TESTING [illegible] INC.

Pressure Da[illegible]

Date 5-5-80 Test Ticket No. 5196

Recorder No. ~~3474~~ 3659 Capacity 4000 Location 5118 Ft.

Clock No. Elevation 2961 KB Well Temperature 122 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2733 P.S.I. | | Open Tool | 7:43 A M | |
| B | First Initial Flow Pressure | 53 P.S.I. | | First Flow Pressure | 15 Mins. | 15 Mins. |
| C | First Final Flow Pressure | 50 P.S.I. | | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 490 P.S.I. | | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 73 P.S.I. | | Final Closed-in Pressure | 45 Mins. | 48 Mins. |
| F | Second Final Flow Pressure | 63 P.S.I. | | | | |
| G | Final Closed-in Pressure | 180 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2719 P.S.I. | | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**

Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 53 |
| P 2 | 5 | 51 |
| P 3 | 10 | 50 |
| P 4 | 15 | 50 |
| P 5 | 20 | |
| P 6 | 25 | |
| P 7 | 30 | |
| 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: 16 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| 0 | | 50 |
| 3 | | 50 |
| 6 | 53 | ~~50~~ |
| 9 | | ~~58~~ |
| 12 | 69 | ~~58~~ |
| 15 | 82 | 69 |
| 18 | 96 | ~~82~~ |
| 21 | 110 | ~~96~~ |
| 24 | | 139 |
| 27 | | 165 |
| 30 | | 198 |
| 33 | | 227 |
| 36 | | 271 |
| 39 | | 321 |
| 42 | | 373 |
| 45 | | 429 |
| 48 | | 490 |
| 51 | | |
| 54 | | |
| 57 | | |
| 60 | | |

**Second Flow Pressure**

Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| 0 | | 73 |
| 5 | | 67 |
| 10 | | 63 |
| 15 | | |
| 20 | | |
| 25 | | |
| 30 | | |
| 35 | | |
| 40 | | |
| 45 | | |
| 50 | | |
| 55 | | |
| 60 | | 63 |
| 65 | | |
| 70 | | |
| 75 | | |
| 80 | | |
| 85 | | |
| 90 | | |

**Final Shut-In**

Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | Minutes | Press. |
|---|---|---|
| 0 | | 63 |
| 3 | 64 | ~~63~~ |
| 6 | 65 | ~~63~~ |
| 9 | 67 | ~~64~~ |
| 12 | 71 | ~~64~~ |
| 15 | 78 | ~~72~~ |
| 18 | 85 | ~~75~~ |
| 21 | 90 | ~~78~~ |
| 24 | 96 | ~~86~~ |
| 27 | 101 | ~~87~~ |
| 30 | 110 | ~~92~~ |
| 33 | 121 | ~~97~~ |
| 36 | 131 | ~~106~~ |
| 39 | 142 | ~~114~~ |
| 42 | 153 | ~~116~~ |
| 45 | 163 | ~~120~~ |
| 48 | 48 | 180 |
| 51 | | |
| 54 | | |
| 57 | | |
| 60 | | |

WTC - 4

Company Big "J" Oil Production & Quadel Energy Lease & Well No. Vieux #1

Elevation 2961 Kelly Bushing Formation Mississippi Effective Pay ----- Ft. Ticket No. 5196

Date 5/5/80 Sec. 24 Twp. 30S Range 18W County Kiowa State Kansas

Test Approved by Vernon C. Schrag Western Representative Denis Wondra

Formation Test No. 5 Interval Tested from 5091 ft. to 5125 ft. Total Depth 5125 ft.

Packer Depth 5086 ft. Size 6 3/4 in. Packer Depth 5091 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5115 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 5118 ft. Recorder Number 3659 Cap. 4000

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

Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 550 I. D. 2.7 in.

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

Weight 9.3 Water Loss 9.0 cc. Drill Pipe Length 4511 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 30 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 403 Anchor Length 34 ft. Size 5½OD in.

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

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

Blow: Weak. Increased to 1½" on first flow period. Weak, increased to fair by end of second opening.

Recovered 220 ft. of gas in pipe

Recovered 30 ft. of gas cut mud

Recovered 50 ft. of slightly oil and gas cut mud

Recovered ft. of

Recovered ft. of (PSI from Recorder #3659)

Remarks:

Time Set Packer(s) 7:43 ~~P.M.~~ A.M. Time Started Off Bottom 11:00 ~~P.M.~~ A.M. Maximum Temperature 122°

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 2733 P.S.I. | | |
| Initial Flow Period | Minutes 15 | (B) 53 P.S.I. | to (C) 50 P.S.I. | |
| Initial Closed In Period | Minutes 45 | (D) 490 P.S.I. | | |
| Final Flow Period | Minutes 60 | (E) 73 P.S.I. | to (F) 63 P.S.I. | |
| Final Closed In Period | Minutes 48 | (G) 180 P.S.I. | | |
| Final Hydrostatic Pressure | | (H) 2719 P.S.I. | | |

## WESTERN TESTING CO., INC.

### Pressure Data

Date 5/5/80 Test Ticket No. 5196

Recorder No. 3659 Capacity 4000 Location 5118 Ft.

Clock No. ----- Elevation 2961 Kelly Bushing Well Temperature 122° °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2733 P.S.I. | | Open Tool | 7:43A M | |
| B | First Initial Flow Pressure | 53 P.S.I. | | First Flow Pressure | 15 Mins. | 15 Mins. |
| C | First Final Flow Pressure | 50 P.S.I. | | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 490 P.S.I. | | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 73 P.S.I. | | Final Closed-in Pressure | 45 Mins. | 48 Mins. |
| F | Second Final Flow Pressure | 63 P.S.I. | | | | |
| G | Final Closed-in Pressure | 180 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2719 P.S.I. | | | | |

### PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

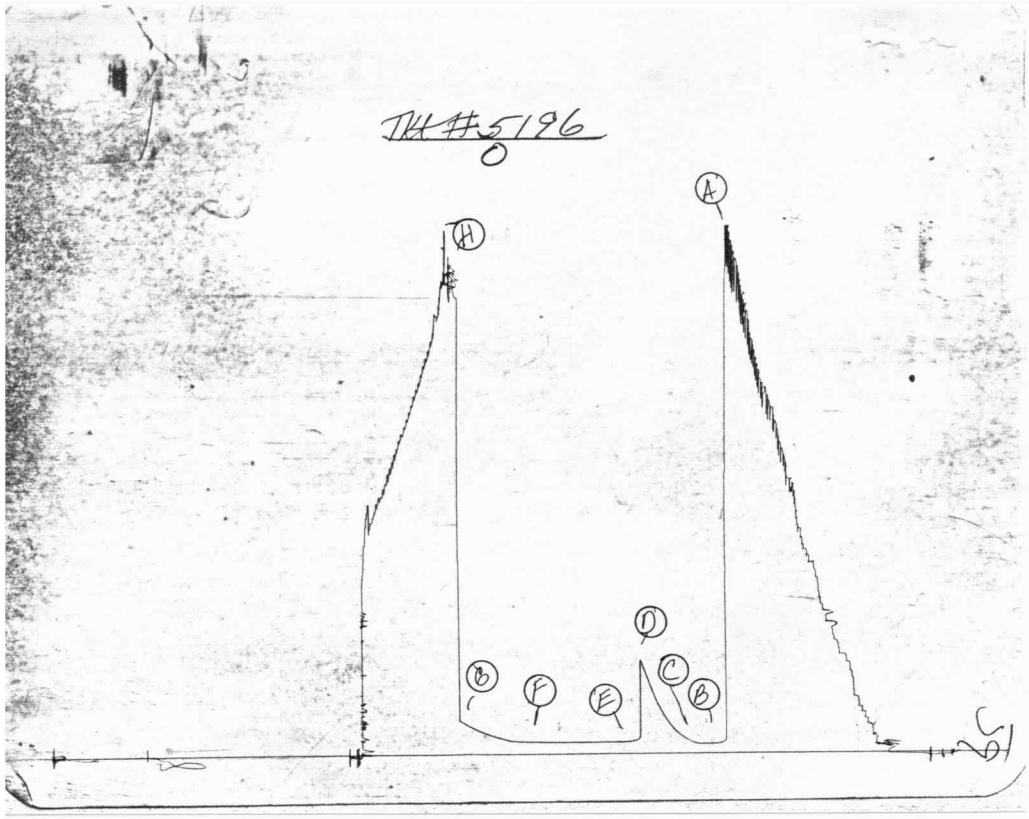
**Initial Shut-In**
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

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

**Final Shut-In**
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | First Flow Pressure Mins. | First Flow Pressure Press. | Initial Shut-In Minutes | Initial Shut-In Press. | Second Flow Pressure Minutes | Second Flow Pressure Press. | Final Shut-In Minutes | Final Shut-In Press. |
|---|---|---|---|---|---|---|---|---|
| P 1 | 0 | 53 | 0 | 50 | 0 | 73 | 0 | 63 |
| P 2 | 5 | 51 | 3 | 50 | 5 | 67 | 3 | 64 |
| P 3 | 10 | 50 | 6 | 53 | 10 | 63 | 6 | 65 |
| P 4 | 15 | 50 | 9 | 58 | 15 | 63 | 9 | 67 |
| P 5 | | | 12 | 69 | 20 | 63 | 12 | 71 |
| P 6 | | | 15 | 82 | 25 | 63 | 15 | 78 |
| P 7 | | | 18 | 96 | 30 | 63 | 18 | 85 |
| P 8 | | | 21 | 110 | 35 | 63 | 21 | 90 |
| P 9 | | | 24 | 139 | 40 | 63 | 24 | 96 |
| P10 | | | 27 | 165 | 45 | 63 | 27 | 101 |
| P11 | | | 30 | 198 | 50 | 63 | 30 | 110 |
| P12 | | | 33 | 227 | 55 | 63 | 33 | 121 |
| P13 | | | 36 | 271 | 60 | 63 | 36 | 131 |
| P14 | | | 39 | 321 | | | 39 | 142 |
| P15 | | | 42 | 373 | | | 42 | 153 |
| P16 | | | 45 | 429 | | | 45 | 163 |
| P17 | | | 48 | 490 | | | 48 | 180 |
| P18 | | | | | | | | |
| P19 | | | | | | | | |
| P20 | | | | | | | | |

TH #5196



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

TICKET Nº 5767

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

Elevation 2961 K.B. Formation _____ Eff. Pay _____ Ft.

District PRATT Date 5-6-80 Customer Order No. _____

COMPANY NAME Big J Prod. Co + Quadel Energy

ADDRESS 357 Lulu, Wichita, Ks. 67211

LEASE AND WELL NO. #1 Vieux COUNTY Kiowa STATE KS Sec. 24 Twp. 30S Rge. 18W

Mail Invoice To Same Mkt #1 No. Copies Requested Reg.
Co. Name Address

Mail Charts To Same No. Copies Requested Reg.
Address

Formation Test No. 6 Interval Tested from 4869 ft. to 4939 ft. Total Depth 5155 ft.

Packer Depth 4869 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4939 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4882 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4885 ft. Recorder Number 6146 Cap. 5200

Below Straddle Recorder Depth 4970 ft. Recorder Number 2607 Cap. 4150

Drilling Contractor H-30 #77 Drill Collar Length 360 I. D. 2.2 in.

Mud Type DRISPAC Viscosity 46 Weight Pipe Length _____ I. D. _____ in.

Weight 9.3 Water Loss 22.4 cc. Drill Pipe Length 4494 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 O.D. in.

Jars: Make _____ Serial Number _____ Anchor Length 31 O.P.+ 39 ft. Size 5 1/2 O.D. 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 FH. in.

Blow: STRONG BLOW THRU BOTH FLOW PERIODS - GAS TO SURFACE DURING FINAL CLOSED IN PERIOD

Recovered 60 ft. of GAS CUT & SLIGHT OIL CUT MUD

Recovered 180 ft. of M-W-GAS CUT OIL 14% M - 14% W - 45% G - 27% OIL

Recovered 240 ft. of M-W-GAS CUT OIL 10% M - 15% W - 50% G - 25% OIL

Recovered 80 ft. of M-W-GAS CUT OIL 9% M - 15% W - 35% G - 41% OIL

Recovered 100 ft. of MUDDY WATER - GAS CUT CHLORIDES - 67,000 P.P.M.

Remarks: _____

ON LOCATION - 4:15 A.M. PICK UP TOOL - 5:15 A.M. OFF LOCATION 4:30 P.M.

Time Set Packer(s) 8:25 A.M. P.M. Time Started Off Bottom 10:55 A.M. P.M. Maximum Temperature 124

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2453 | P.S.I. | |
| Initial Flow Period | Minutes | 15 | (B) | 106 | P.S.I. to (C) | 127 P.S.I. |
| Initial Closed In Period | Minutes | 45 | (D) | 1160 | P.S.I. | |
| Final Flow Period | Minutes | 45 | (E) | 191 | P.S.I. to (F) | 234 P.S.I. |
| Final Closed In Period | Minutes | 45 | (G) | 930 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 2369 | 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.

RECEIVED MAY 9 - 1980

Test Approved By Mike Long
Signature of Customer or his authorized representative

Western Representative Dave Sloan
Rogs Mounts
Kirk Sykes

### FIELD INVOICE

| | | |
|---|---|---|
| Open Hole Test | $ | 650.00 |
| Misrun | $ | |
| Straddle Test | $ | 250.00 |
| Jars | $ | |
| Selective Zone | $ | |
| Safety Joint | $ | |
| Standby | $ | |
| Evaluation | $ | |
| Extra Packer | $ | |
| Circ. Sub. | $ | |
| Mileage 60 X 2 | $ | 45.00 |
| Fluid Sampler | $ | |
| Extra Charts | $ | |
| TOTAL | $ | 945.00 |

## Pressure Data

Date 5-6-80 Test Ticket No. 5767

Recorder No. 2604 Capacity 4150 Location 4882 Ft.

Clock No. Elevation 2961 KB Well Temperature 124 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2451 P.S.I. | Open Tool | 8125 A M | |
| B First Initial Flow Pressure | 112 P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C First Final Flow Pressure | 126 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D Initial Closed-in Pressure | 1176 P.S.I. | Second Flow Pressure | 45 Mins. | 45 Mins. |
| E Second Initial Flow Pressure | 200 P.S.I. | Final Closed-in Pressure | 45 Mins. | 45 Mins. |
| F Second Final Flow Pressure | 243 P.S.I. | | | |
| G Final Closed-in Pressure | 927 P.S.I. | | | |
| H Final Hydrostatic Mud | 2395 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 112 |
| P 2 5 | 112 |
| P 3 10 | 126 |
| P 4 15 | 126 |
| P 5 20 | |
| P 6 25 | |
| P 7 30 | |
| 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: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 126 |
| 3 | 211 |
| 6 | 312 |
| 9 | 442 |
| 12 | 559 |
| 15 | 669 |
| 18 | 780 |
| 21 | 887 |
| 24 | 1044 |
| 27 | 1002 |
| 30 | 1048 |
| 33 | 1085 |
| 36 | 1111 |
| 39 | 1128 |
| 42 | 1159 |
| 45 | 1176 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 200 |
| 5 | 200 |
| 10 | 207 |
| 15 | 210 |
| 20 | 215 |
| 25 | 222 |
| 30 | 226 |
| 35 | 234 |
| 40 | 239 |
| 45 | 243 |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |
| | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 243 |
| 3 | 271 |
| 6 | 325 |
| 9 | 393 |
| 12 | 464 |
| 15 | 521 |
| 18 | 575 |
| 21 | 630 |
| 24 | 683 |
| 27 | 728 |
| 30 | 778 |
| 33 | 810 |
| 36 | 845 |
| 39 | 871 |
| 42 | 899 |
| 45 | 927 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

Big "J" Production & Quadel Energy — Vieux #1

Company — Lease & Well No.

Elevation 2961 Kelly Bushing — Formation --- — Effective Pay --- Ft. — Ticket No. 5767

Date 5/6/80 — Sec. 24 — Twp. 30S — Range 18W — County Kiowa — State Kansas

Test Approved by Mike Long — Western Representative Dave Sloan-Roger Mounts

Formation Test No. 6 — Interval Tested from 4869 ft. to 4939 ft. — Total Depth 5155 ft.

Packer Depth 4869 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4939 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4882 ft. — Recorder Number 2604 — Cap. 4150

Bottom Recorder Depth (Outside) 4885 ft. — Recorder Number 6246 — Cap. 5200

Below Straddle Recorder Depth 4970 ft. — Recorder Number 2607 — Cap. 4150

Drilling Contractor H-30 Drlg. Rig #77 — Drill Collar Length 360 — I. D. 2.2 in.

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

Weight 9.3 — Water Loss 22.4 cc. — Drill Pipe Length 4494 — I. D. 3.8 in.

Chlorides 16,000 P.P.M. — Test Tool Length 15 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 31'DP +39 ft. — Size 5½OD in.

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

Main Hole Size 7 7/8 in. — Tool Joint Size 4½FH in.

Blow: Strong blow through both flow periods. GAs to surface during final closed-in period.

Recovered 60 ft. of gas cut and slightly oil cut mud

Recovered 180 ft. of mud, water, gas cut oil (14% mud;14% water;45% gas;27% oil)

Recovered 240 ft. of mud, water, gas cut oil (10% mud;15% water;50% gas;25% oil)

Recovered 80 ft. of mud, water, gas cut oil (9% mud;15% water;35% gas;41% oil)

Recovered 100 ft. of muddy water - gas cut Chlorides 67,000 ppm

Remarks:

Time Set Packer(s) 8:25 ~~P.M.~~ A.M. — Time Started Off Bottom 10:55 ~~P.M.~~ A.M. — Maximum Temperature 124°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2451 | P.S.I. | |
| Initial Flow Period | Minutes 15 | (B) | 112 | P.S.I. to (C) | 126 | P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) | 1176 | P.S.I. | | |
| Final Flow Period | Minutes 45 | (E) | 200 | P.S.I. to (F) | 243 | P.S.I. |
| Final Closed In Period | Minutes 45 | (G) | 927 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 2395 | P.S.I. | | |

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

Date 5-6-80 Test Ticket No. 5767

Recorder No. 2604 Capacity 4150 Location 4882 Ft.

Clock No. --- Elevation 2961 Kelly Bushing Well Temperature 124 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2451 P.S.I. | Open Tool | 8:25 A. M | |
| B First Initial Flow Pressure | 112 P.S.I. | First Flow Pressure | 15 Mins. | 15 Mins. |
| C First Final Flow Pressure | 126 P.S.I. | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D Initial Closed-in Pressure | 1176 P.S.I. | Second Flow Pressure | 45 Mins. | 45 Mins. |
| E Second Initial Flow Pressure | 200 P.S.I. | Final Closed-in Pressure | 45 Mins. | 45 Mins. |
| F Second Final Flow Pressure | 243 P.S.I. | | | |
| G Final Closed-in Pressure | 927 P.S.I. | | | |
| H Final Hydrostatic Mud | 2395 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 112 |
| P 2 5 | 112 |
| P 3 10 | 126 |
| P 4 15 | 126 |
| P 5 20 | |
| P 6 25 | |
| P 7 30 | |
| 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 | 126 |
| 3 | 211 |
| 6 | 312 |
| 9 | 442 |
| 12 | 559 |
| 15 | 669 |
| 18 | 780 |
| 21 | 887 |
| 24 | 1044 |
| 27 | 1002 |
| 30 | 1048 |
| 33 | 1085 |
| 36 | 1111 |
| 39 | 1138 |
| 42 | 1159 |
| 45 | 1176 |

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 200 |
| 5 | 200 |
| 10 | 207 |
| 15 | 210 |
| 20 | 215 |
| 25 | 222 |
| 30 | 226 |
| 35 | 234 |
| 40 | 239 |
| 45 | 243 |

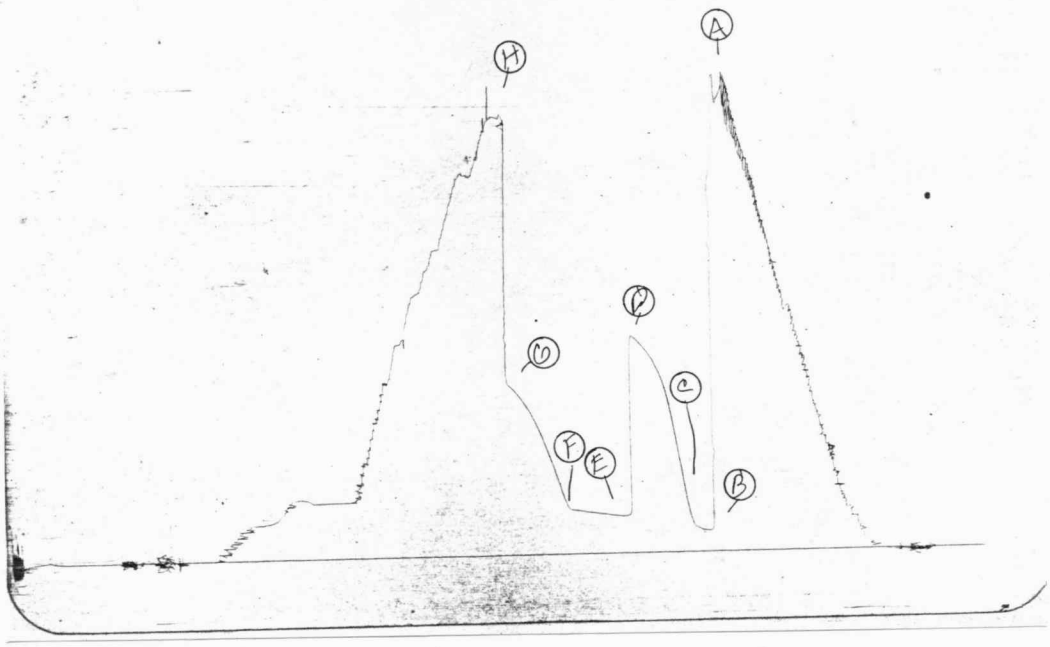
**Final Shut-In**
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 243 |
| 3 | 271 |
| 6 | 325 |
| 9 | 393 |
| 12 | 464 |
| 15 | 521 |
| 18 | 575 |
| 21 | 630 |
| 24 | 683 |
| 27 | 728 |
| 30 | 778 |
| 33 | 810 |
| 36 | 845 |
| 39 | 871 |
| 42 | 899 |
| 45 | 927 |

2607

Big 5
#1 Vieux
DST 6

TK# 5767
I




2607

Big 5
#1 Vieux
DST 6

TK# 5767
Below Straddle