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

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

TICKET No. 6956

Elevation 1885 KB Formation DOUGLAS Eff. Pay — Ft.

District Great Bend Date 7-28-80 Customer Order No. —

COMPANY NAME Pet Inderwood Energy, Inc.

ADDRESS Suite 710 ONE TWENTY Bldg Wichita KS 67202

LEASE AND WELL NO. #2 Dolecheck "A" COUNTY Barton STATE KS Sec. 29 Twp 16S Rge 11 W

Mail Invoice To Dolechek "A" #2 same No. Copies Requested 5
Co. Name Address

Mail Charts To same No. Copies Requested 5 7
Address

Formation Test No. 1 Interval Tested from 2956 ft. to 2993 ft. Total Depth 2993 ft.

Packer Depth 2951 ft. Size 6 3/4 in. Packer Depth 2956 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) 2985 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 2988 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor White & Ellis

Mud Type Starch Viscosity 40

Weight 9.9 Water Loss 9.0 cc.

Chlorides 69,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? NO Reversed Out NO

Drill Collar Length 325 I. D. 2 1/4 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 2608 I. D. 3.8 in.

Test Tool Length 21 ft. Tool Size 4 3/4 in.

Anchor Length 37 ft. Size 5 1/2 in.

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: ONE INCH BLOW SLIGHTLY DECREASING FIRST OPENING
ONE HALF INCH IN BUCKET SLIGHTLY DECREASING SECOND OPENING

Recovered 20 ft. of Mud with a few oil SPOTS

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of Chlorides 70,000 P.P.M.

Remarks:

ON LOC @ 3:30 P.M. MAKE TOOL @ 4:45 PM Leave @ 10:00 PM

Time Set Packer(s) 6:25 A.M. P.M. Time Started Off Bottom 7:15 A.M. P.M. Maximum Temperature 112

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) | 1641 | P.S.I. | | |
| Initial Flow Period | Minutes 20 | (B) | 73 | P.S.I. to | (C) 73 | P.S.I. |
| Initial Closed In Period | Minutes 20 | (D) | 355 | P.S.I. | | |
| Final Flow Period | Minutes 20 | (E) | 85 | P.S.I. to | (F) 85 | P.S.I. |
| Final Closed In Period | Minutes 20 | (G) | 232 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 1593 | 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 Dan Wilson
Signature of Customer or his authorized representative

Western Representative Roger Lisenby Thank You

### FIELD INVOICE

| | | |
|---|---|---|
| Open Hole Test | $ | 550.00 |
| Misrun | $ | |
| Straddle Test | $ | |
| Jars | $ | |
| Selective Zone | $ | |
| Safety Joint | $ | |
| Standby | $ | |
| Evaluation | $ | |
| Extra Packer | $ | |
| Circ. Sub. | $ | |
| 25 Mileage X .75¢ | $ | 18.75 |
| Fluid Sampler | $ | |
| Extra Charts | $ | |
| TOTAL | $ | 568.75 |

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

Date 7-28 Test Ticket No. 6956

Recorder No. 6077 Capacity 4700 Location 2985 Ft.

Clock No. — Elevation 1885 KB Well Temperature 112 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1661 P.S.I. | Open Tool | 6:25 PM | |
| B | First Initial Flow Pressure | 73 P.S.I. | First Flow Pressure | 20 Mins. | 20 Mins. |
| C | First Final Flow Pressure | 63 P.S.I. | Initial Closed-in Pressure | 20 Mins. | 18 Mins. |
| D | Initial Closed-in Pressure | 365 P.S.I. | Second Flow Pressure | 20 Mins. | 20 Mins. |
| E | Second Initial Flow Pressure | 87 P.S.I. | Final Closed-in Pressure | 20 Mins. | 18 Mins. |
| F | Second Final Flow Pressure | 73 P.S.I. | | | |
| G | Final Closed-in Pressure | 233 P.S.I. | | | |
| H | Final Hydrostatic Mud | 1612 P.S.I. | | | |

## PRESSURE BREAKDOWN

### First Flow Pressure

Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 73 |
| P 2 | 5 | 65 |
| P 3 | 10 | 63 |
| P 4 | 15 | 63 |
| P 5 | 20 | 63 |
| 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: 6 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 63 |
| 3 | 65 |
| 6 | 88 |
| 9 | 143 |
| 12 | 225 |
| 15 | 307 |
| 18 | 365 |
| 21 | |
| 24 | |
| 27 | |
| 30 | |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

### Second Flow Pressure

Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 87 |
| 5 | 75 |
| 10 | 73 |
| 15 | 73 |
| 20 | 73 |
| 25 | |
| 30 | |
| 35 | |
| 40 | |
| 45 | |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

### Final Shut-In

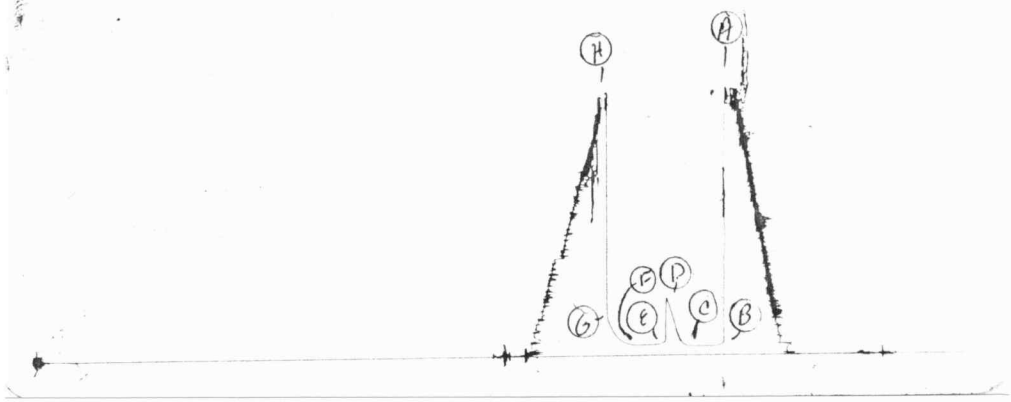
Breakdown: 6 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 73 |
| 3 | 78 |
| 6 | 88 |
| 9 | 102 |
| 12 | 128 |
| 15 | 167 |
| 18 | 233 |
| 21 | |
| 24 | |
| 27 | |
| 30 | |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

6079

JKA #6956

I



Company Petroleum Energy, Inc. Lease & Well No. Dolechek "A" #2

Elevation 1885 Kelly Bushing Formation Douglas Effective Pay ---- Ft. Ticket No. 6956

Date 7/28/80 Sec. 29 Twp. 16S Range 11W County Barton State Kansas

Test Approved by Dan Nixon Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 2956 ft. to 2993 ft. Total Depth 2993 ft.

Packer Depth 2951 ft. Size 6 3/4 in. Packer Depth 2956 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) 2985 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 2988 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor White & Ellis Drilling Drill Collar Length 325 I. D. 2¼ in.

Mud Type starch Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 9.0 cc. Drill Pipe Length 2608 I. D. 3.8 in.

Chlorides 69,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make -- Serial Number - Anchor Length 37 ft. Size 5½ in.

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

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

Blow: One inch blow lsightly decreasing first opening - one half inch in bucket; slightly decreasing second opening.

Recovered 20 ft. of mud with a few oil spots

Recovered ft. of Chlorides 70,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:25 ~~A.M.~~ P.M. Time Started Off Bottom 7:15 ~~A.M.~~ P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure ..... (A) 1661 P.S.I.

Initial Flow Period ..... Minutes 20 (B) 73 P.S.I. to (C) 63 P.S.I.

Initial Closed In Period ..... Minutes 18 (D) 365 P.S.I.

Final Flow Period ..... Minutes 20 (E) 87 P.S.I. to (F) 73 P.S.I.

Final Closed In Period ..... Minutes 18 (G) 233 P.S.I.

Final Hydrostatic Pressure ..... (H) 1612 P.S.I.

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

Date 7/28/80 Test Ticket No. 6956

Recorder No. 6077 Capacity 4700 Location 2985 Ft.

Clock No. - Elevation 1885 Kelly Bushing Well Temperature 112 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1661 | P.S.I. | Open Tool | 6:25P M | |
| B | First Initial Flow Pressure | 73 | P.S.I. | First Flow Pressure | 20 Mins. | 20 Mins. |
| C | First Final Flow Pressure | 63 | P.S.I. | Initial Closed-in Pressure | 20 Mins. | 18 Mins. |
| D | Initial Closed-in Pressure | 365 | P.S.I. | Second Flow Pressure | 20 Mins. | 20 Mins. |
| E | Second Initial Flow Pressure | 87 | P.S.I. | Final Closed-in Pressure | 20 Mins. | 18 Mins. |
| F | Second Final Flow Pressure | 73 | P.S.I. | | | |
| G | Final Closed-in Pressure | 233 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 1612 | P.S.I. | | | |

## PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---|---|---|---|---|---|---|---|
| Breakdown: 4 Inc. | | Breakdown: 6 Inc. | | Breakdown: 4 Inc. | | Breakdown: 6 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 0 | 73 | 0 | 63 | 0 | 87 | 0 | 73 |
| P 2 5 | 65 | 3 | 65 | 5 | 75 | 3 | 78 |
| P 3 10 | 63 | 6 | 88 | 10 | 73 | 6 | 88 |
| P 4 15 | 63 | 9 | 143 | 15 | 73 | 9 | 102 |
| P 5 20 | 63 | 12 | 225 | 20 | 73 | 12 | 128 |
| P 6 | | 15 | 307 | | | 15 | 167 |
| P 7 | | 18 | 365 | | | 18 | 233 |
| P 8 | | | | | | | |
| P 9 | | | | | | | |
| P10 | | | | | | | |
| 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. 6957

Elevation 1855 KB Formation K, C1 Eff. Pay — Ft.

District Great Bend Date 7-29-80 Customer Order No. —

COMPANY NAME Petroleum Energy, Inc.

ADDRESS Suite 710 One Twenty Bldg Wichita KS 67202

LEASE AND WELL NO. #2 Dolecheck "A" COUNTY Barton STATE KS Sec. 29 Twp. 16S Rge. 11W

Mail Invoice To Dolecheck "A" #2 Same
Co. Name Address No. Copies Requested 5

Mail Charts To Same
Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3124 ft. to 3134 ft. Total Depth 3134 ft.

Packer Depth 3119 ft. Size 6 3/4 in. Packer Depth 3124 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) 3127 ft. Recorder Number 4077 Cap. 4700

Bottom Recorder Depth (Outside) 3130 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor White & Ellis Rig #2

Mud Type Starch Viscosity 41

Weight 10.1 Water Loss 11.6 cc.

Chlorides 91,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? NO Reversed Out NO

Drill Collar Length 325 I. D. 2 1/4 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 2778 I. D. 3.8 in.

Test Tool Length 21 ft. Tool Size 4 3/4 in.

Anchor Length 10 ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size — in.

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

Blow: weak Blow Died in 41 min First Opening
No Blow second opening (Flush Tool) No Blow

Recovered 20 ft. of mud with a few oil specks

Recovered — ft. of

Recovered — ft. of Chlorides 89,000 ppm

Recovered — ft. of

Recovered — ft. of

Remarks: Rotary clutch air line off couldn't close tool first shut in
work on air lines second flow period
on loc @ 11:00 AM make Tool @ 12:30 PM Leave @ 6:30 PM

Time Set Packer(s) 1:45 A.M. P.M. Time Started Off Bottom 4:17 A.M. P.M. Maximum Temperature 113

| | | | | | |
|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) | 1627 | P.S.I. | |
| Initial Flow Period | Minutes 60 | (B) | 49 | P.S.I. to (C) | 49 P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) | 514 | P.S.I. | |
| Final Flow Period | Minutes 25 | (E) | 61 | P.S.I. to (F) | 61 P.S.I. |
| Final Closed In Period | Minutes 20 | (G) | 453 | P.S.I. | |
| Final Hydrostatic Pressure | | (H) | 1626 | 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 Don Norton
Signature of Customer or his authorized representative

Western Representative Roger Lisenby thank you

### FIELD INVOICE

| | | |
|---|---|---|
| Open Hole Test | $ | 550.00 |
| Misrun | $ | |
| Straddle Test | $ | |
| Jars | $ | |
| Selective Zone | $ | |
| Safety Joint | $ | |
| Standby | $ | |
| Evaluation | $ | |
| Extra Packer | $ | |
| Circ. Sub. | $ | |
| 25 Mileage | $ | 18.75 |
| Fluid Sampler | $ | |
| Extra Charts | $ | |
| TOTAL | $ | 568.75 |

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

Date 7-29 Test Ticket No. 6957

Recorder No. 6077 Capacity 4700 Location 3127 Ft.

Clock No. — Elevation 1855 KB Well Temperature 113 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1697 P.S.I. | Open Tool | | 1:45 PM | |
| B | First Initial Flow Pressure | 60 P.S.I. | First Flow Pressure | | 60 Mins. | 60 Mins. |
| C | First Final Flow Pressure | 51 P.S.I. | Initial Closed-in Pressure | | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 532 P.S.I. | Second Flow Pressure | | 25 Mins. | 25 Mins. |
| E | Second Initial Flow Pressure | 70 P.S.I. | Final Closed-in Pressure | | 20 Mins. | 24 Mins. |
| F | Second Final Flow Pressure | 59 P.S.I. | | | | |
| G | Final Closed-in Pressure | 480 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 1685 P.S.I. | | | | |

## PRESSURE BREAKDOWN

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

| Point Mins. | | Press. |
|---|---|---|
| P 1 | 0 | 60 |
| P 2 | 5 | 50 |
| P 3 | 10 | 47 |
| P 4 | 15 | |
| P 5 | 20 | |
| P 6 | 25 | |
| P 7 | 30 | 47 |
| P 8 | 35 | 48 |
| P 9 | 40 | 49 |
| P10 | 45 | 50 |
| P11 | 50 | 50 |
| P12 | 55 | 51 |
| P13 | 60 | 51 |
| 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 | 51 |
| 3 | 57 |
| 6 | 70 |
| 9 | 99 |
| 12 | 157 |
| 15 | 230 |
| 18 | 300 |
| 21 | 363 |
| 24 | 408 |
| 27 | 440 |
| 30 | 468 |
| 33 | 485 |
| 36 | 502 |
| 39 | 514 |
| 42 | 524 |
| 45 | 532 |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

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

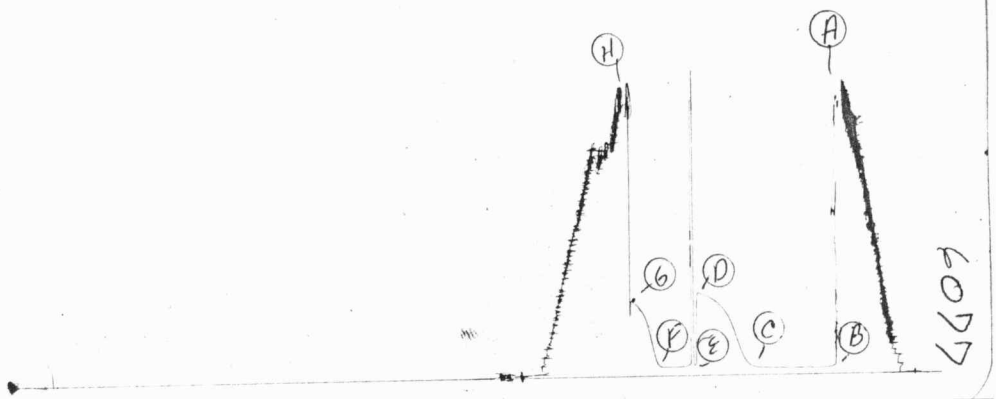
| Point Minutes | Press. |
|---|---|
| 0 | 70 |
| 5 | Flushed tool 70 |
| 10 | 60 |
| 15 | 60 |
| 20 | 59 |
| 25 | 59 |
| 30 | |
| 35 | |
| 40 | |
| 45 | |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

**Final Shut-In**
Breakdown: 8 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 59 |
| 3 | 87 |
| 6 | 175 |
| 9 | 290 |
| 12 | 367 |
| 15 | 420 |
| 18 | 450 |
| 21 | 470 |
| 24 | 480 |
| 27 | |
| 30 | |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

JH # 6957

I



Company Petroleum Energy, Inc. Lease & Well No. Dolechek "A"#2

Elevation 1855 Kelly Bushing Formation Kansas City Effective Pay ---- Ft. Ticket No. 6957

Date 7/29/80 Sec. 29 Twp. 16S Range 11W County Barton State Kansas

Test Approved by Dan Nixon Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 3124 ft. to 3134 ft. Total Depth 3134 ft.

Packer Depth 3119 ft. Size 6 3/4 in. Packer Depth 3124 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) 3127 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3130 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor White &Ellis Drilling Rig #2 Drill Collar Length 325 I. D. 2¼ in.

Mud Type starch Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 10.1 Water Loss 11.6 cc. Drill Pipe Length 2778 I. D. 3.8 in.

Chlorides 91,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 5½ in.

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

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

Blow: Weak blow;died in forty one minutes on first opening. No blow second opening(flushed tool) no blow.

Recovered 20 ft. of mud with a few oil spots

Recovered ft. of Chlorides 89,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Rotary clutch air line off, couldn't close tool first shut-in;worked on airlines second flow period.

Time Set Packer(s) 1:45 ~~A.M.~~ P.M. Time Started Off Bottom 4:17 ~~A.M.~~ P.M. Maximum Temperature 113°

Initial Hydrostatic Pressure ..... (A) 1697 P.S.I.

Initial Flow Period ..... Minutes 60 (B) 60 P.S.I. to (C) 51 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 532 P.S.I.

Final Flow Period ..... Minutes 25 (E) 70 P.S.I. to (F) 59 P.S.I.

Final Closed In Period ..... Minutes 24 (G) 480 P.S.I.

Final Hydrostatic Pressure ..... (H) 1685 P.S.I.

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

Date 7/29/80 Test Ticket No. 6957

Recorder No. 6077 Capacity 4700 Location 3127 Ft.

Clock No. - Elevation 1855 Kelly Bushing Well Temperature 113 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1697 P.S.I. | | Open Tool | 1:45P M | |
| B | First Initial Flow Pressure | 60 P.S.I. | | First Flow Pressure | 60 Mins. | 60 Mins. |
| C | First Final Flow Pressure | 51 P.S.I. | | Initial Closed-in Pressure | 45 Mins. | 45 Mins. |
| D | Initial Closed-in Pressure | 532 P.S.I. | | Second Flow Pressure | 25 Mins. | 25 Mins. |
| E | Second Initial Flow Pressure | 70 P.S.I. | | Final Closed-in Pressure | 20 Mins. | 24 Mins. |
| F | Second Final Flow Pressure | 59 P.S.I. | | | | |
| G | Final Closed-in Pressure | 480 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 1685 P.S.I. | | | | |

## PRESSURE BREAKDOWN

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

| Point | Mins. | Press. |
|---|---|---|
| P 1 | 0 | 60 |
| P 2 | 5 | 50 |
| P 3 | 10 | 47 |
| P 4 | 15 | 47 |
| P 5 | 20 | 47 |
| P 6 | 25 | 47 |
| P 7 | 30 | 47 |
| P 8 | 35 | 48 |
| P 9 | 40 | 49 |
| P10 | 45 | 50 |
| P11 | 50 | 50 |
| P12 | 55 | 51 |
| P13 | 60 | 51 |
| 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 | 51 |
| 3 | 57 |
| 6 | 70 |
| 9 | 79 |
| 12 | 157 |
| 15 | 230 |
| 18 | 300 |
| 21 | 363 |
| 24 | 408 |
| 27 | 440 |
| 30 | 468 |
| 33 | 485 |
| 36 | 502 |
| 39 | 514 |
| 42 | 524 |
| 45 | 532 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 70 |
| 5 | Flushed tool 70 |
| 10 | 60 |
| 15 | 60 |
| 20 | 59 |
| 25 | 59 |

**Final Shut-In**
Breakdown: 8 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 59 |
| 3 | 87 |
| 6 | 175 |
| 9 | 290 |
| 12 | 367 |
| 15 | 420 |
| 18 | 450 |
| 21 | 470 |
| 24 | 480 |

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

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

| 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. | Mins. |
| C First Final Flow Pressure | P.S.I. | Initial Closed-in Pressure | Mins. | Mins. |
| D Initial Closed-in Pressure | P.S.I. | Second Flow Pressure | Mins. | Mins. |
| E Second Initial Flow Pressure | P.S.I. | Final Closed-in Pressure | Mins. | Mins. |
| 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 _____ mins. and a | | of _____ mins. and a | | of _____ mins. and a | | of _____ mins. and a | |
| final inc. of _____ Min. | | final inc. of _____ Min. | | final inc. of _____ Min. | | final inc. of _____ Min. | |
| **Point Mins.** | **Press.** | **Point Minutes** | **Press.** | **Point Minutes** | **Press.** | **Point Minutes** | **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 | | | | | | | |

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

TICKET No. 6958

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

Elevation 1855 KB Formation arb Eff. Pay — Ft.

District Great Bend Date 7-30-80 Customer Order No. —

COMPANY NAME PeT Energy INC

ADDRESS Suite 710 One Twenty Bldg. Wichita KS 67202

LEASE AND WELL NO. #2 Dolecheck "A" COUNTY Barton STATE KS Sec. 29 Twp. 16S Rge. 11W

Mail Invoice To Dolechek #2 Co. Name same Address No. Copies Requested 5

Mail Charts To same Address No. Copies Requested 5 7

| | | | |
|---|---|---|---|
| Formation Test No. 3 | Interval Tested from 3304 ft. to 3320 ft. | Total Depth 3320 ft. | |
| Packer Depth 3299 ft. | Size 6 3/4 in. | Packer Depth 3304 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) 3313 ft. | | Recorder Number 6077 | Cap. 4700 |
| Bottom Recorder Depth (Outside) 3316 ft. | | Recorder Number 1051 | Cap. 4250 |
| Below Straddle Recorder Depth — ft. | | Recorder Number — | Cap. — |
| Drilling Contractor White & Ellis Rig #2 | | Drill Collar Length 325 | I. D. 2 1/4 in. |
| Mud Type Starch | Viscosity 39 | Weight Pipe Length — | I. D. — in. |
| Weight 10.3 | Water Loss 15.0 cc. | Drill Pipe Length 2958 | I. D. 3.8 in. |
| Chlorides 93,000 | P.P.M. | Test Tool Length 21 ft. | Tool Size 4 3/4 in. |
| Jars: Make — | Serial Number — | Anchor Length 16 3/4 ft. | Size 5 1/2 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 Steady Blow Thru First Opening
Very weak Steady Blow Thru Second Opening

Recovered 30 ft. of ~~Oil cut mud~~ - 50% Oil 50% Mud
Recovered 30 ft. of Mud
Recovered — ft. of —
Recovered — ft. of Mud Cut Oil
Recovered — ft. of Chlorides 93,000 PPM

Remarks:
Looked at watch wrong on second Flow Period
On Loc @ 5:30 PM - Make Tool @ 6:30 PM Leave @ 12:00 midnite

| | | | |
|---|---|---|---|
| Time Set Packer(s) 7:47 ~~A.M.~~ P.M. | Time Started Off Bottom 9:55 ~~A.M.~~ P.M. | Maximum Temperature 114 | |
| Initial Hydrostatic Pressure | (A) 1832 P.S.I. | | |
| Initial Flow Period Minutes 30 | (B) 49 P.S.I. | to (C) 49 P.S.I. | |
| Initial Closed In Period Minutes 30 | (D) 804 P.S.I. | | |
| Final Flow Period Minutes 35 | (E) 73 P.S.I. | to (F) 73 P.S.I. | |
| Final Closed In Period Minutes 30 | (G) 792 P.S.I. | | |
| Final Hydrostatic Pressure | (H) 1796 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 AUG 1 1980

Test Approved By Thank you
Signature of Customer or his authorized representative

Western Representative Roger Swanby

### FIELD INVOICE

| | | |
|---|---|---|
| Open Hole Test | $ | 550.00 |
| Misrun | $ | — |
| Straddle Test | $ | — |
| Jars | $ | — |
| Selective Zone | $ | — |
| Safety Joint | $ | — |
| Standby | $ | — |
| Evaluation | $ | — |
| Extra Packer | $ | — |
| Circ. Sub. | $ | — |
| 25 Mileage @ .75¢ | $ | 18.75 |
| Fluid Sampler | $ | — |
| Extra Charts | $ | — |
| TOTAL | $ | 568.75 |

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

Date 7-30-80 Test Ticket No. 6958

Recorder No. 6077 Capacity 4700 Location 3313 Ft.

Clock No. Elevation 1855 Kelly Bushing Well Temperature °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1843 | P.S.I. | Open Tool | 7:42 PM | |
| B | First Initial Flow Pressure | 55 | P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 43 | P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 817 | P.S.I. | Second Flow Pressure | 35 Mins. | 35 Mins. |
| E | Second Initial Flow Pressure | 62 | P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F | Second Final Flow Pressure | 52 | P.S.I. | | | |
| G | Final Closed-in Pressure | 806 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 1814 | 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 | 55 |
| P 2 | 5 | 42 |
| P 3 | 10 | 41 |
| P 4 | 15 | 41 |
| P 5 | 20 | 41 |
| P 6 | 25 | 41 |
| P 7 | 30 | 43 |
| 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 | 43 |
| 3 | 50 |
| 6 | 67 |
| 9 | 137 |
| 12 | 375 |
| 15 | 652 |
| 18 | 756 |
| 21 | 785 |
| 24 | 798 |
| 27 | 811 |
| 30 | 817 |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

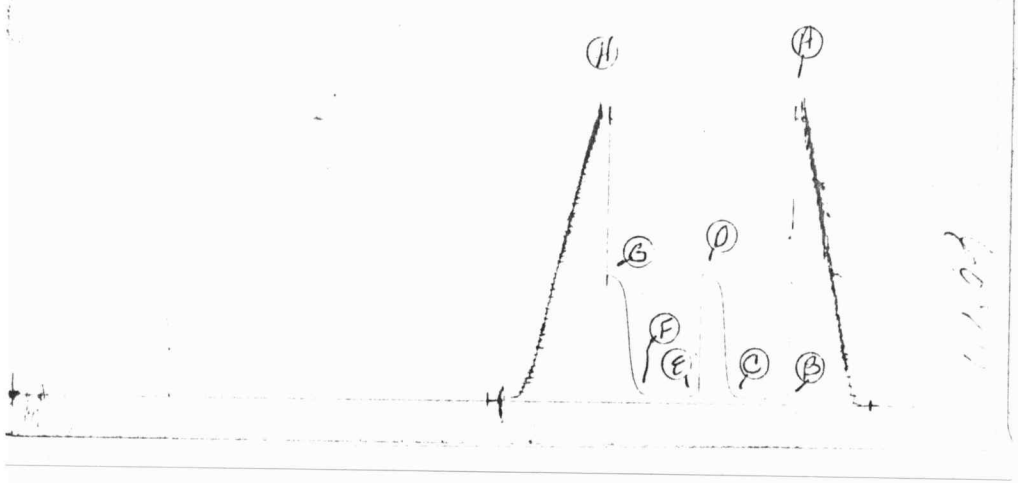
| Point Minutes | Press. |
|---|---|
| 0 | 62 |
| 5 | 52 |
| 10 | 50 |
| 15 | |
| 20 | |
| 25 | |
| 30 | 50 |
| 35 | 52 |
| 40 | |
| 45 | |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 52 |
| 3 | 66 |
| 6 | 97 |
| 9 | 157 |
| 12 | 387 |
| 15 | 599 |
| 18 | 719 |
| 21 | 765 |
| 24 | 786 |
| 27 | 799 |
| 30 | 806 |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

WTC - 4

JK # 6958



Company Petroleum Energy, Inc. Lease & Well No. Dolechek "A"#2

Elevation 1855 Kelly Bushing Formation Arbuckle Effective Pay ---- Ft. Ticket No. 6958

Date 7/30/80 Sec. 29 Twp. 16S Range 11W County Barton State Kansas

Test Approved by Dan Nixon Western Representative Roger Lisenby

Formation Test No. 3 Interval Tested from 3304 ft. to 3320 ft. Total Depth 3320 ft.

Packer Depth 3299 ft. Size 6 3/4 in. Packer Depth 3304 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) 3313 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3316 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor White & Ellis Drilling Rig #2 Drill Collar Length 325 I. D. 2¼ in.

Mud Type starch Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 10.3 Water Loss 15.0 cc. Drill Pipe Length 2958 I. D. 3.8 in.

Chlorides 93,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 16 ft. Size 5½ in.

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

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

Blow: Weak steady blow through first opening. Very weak steady blow through second opening.

Recovered 30 ft. of mud cut oil (50% oil;50% mud)

Recovered 30 ft. of mud

Recovered ft. of

Recovered ft. of Chlorides 92,000 ppm

Recovered ft. of

Remarks: Looked at watch wrong on second flow period.

Time Set Packer(s) 7:47 ~~A.M.~~ P.M. Time Started Off Bottom 9:55 ~~A.M.~~ P.M. Maximum Temperature 114°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1843 | P.S.I. | |
| Initial Flow Period | Minutes | 30 | (B) | 55 | P.S.I. to (C) | 43 P.S.I. |
| Initial Closed In Period | Minutes | 30 | (D) | 817 | P.S.I. | |
| Final Flow Period | Minutes | 35 | (E) | 62 | P.S.I. to (F) | 52 P.S.I. |
| Final Closed In Period | Minutes | 30 | (G) | 806 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 1814 | P.S.I. | |

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

Date 7-30-80 Test Ticket No. 6958

Recorder No. 6077 Capacity 4700 Location 3313 Ft.

Clock No. ----- Elevation 1855 Kelly Bushing Well Temperature 114 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 1843 P.S.I. | Open Tool | 7:47 PM | |
| B First Initial Flow Pressure | 55 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 43 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D Initial Closed-in Pressure | 817 P.S.I. | Second Flow Pressure | 35 Mins. | 35 Mins. |
| E Second Initial Flow Pressure | 62 P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F Second Final Flow Pressure | 52 P.S.I. | | | |
| G Final Closed-in Pressure | 806 P.S.I. | | | |
| H Final Hydrostatic Mud | 1814 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 | 55 |
| P 2 5 | 42 |
| P 3 10 | 41 |
| P 4 15 | 41 |
| P 5 20 | 41 |
| P 6 25 | 41 |
| P 7 30 | 43 |
| 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 | 43 |
| 3 | 50 |
| 6 | 67 |
| 9 | 137 |
| 12 | 375 |
| 15 | 652 |
| 18 | 756 |
| 21 | 785 |
| 24 | 798 |
| 27 | 811 |
| 30 | 817 |

**Second Flow Pressure**
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 62 |
| 5 | 52 |
| 10 | 50 |
| 15 | 50 |
| 20 | 50 |
| 25 | 50 |
| 30 | 50 |
| 35 | 52 |

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

| Point Minutes | Press. |
|---|---|
| 0 | 52 |
| 3 | 66 |
| 6 | 97 |
| 9 | 157 |
| 12 | 387 |
| 15 | 599 |
| 18 | 719 |
| 21 | 765 |
| 24 | 786 |
| 27 | 799 |
| 30 | 806 |

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

TICKET No. 6959

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

Elevation 1855 KB Formation Arbuckle Eff. Pay — Ft.

District Great Bend Date 7-31-80 Customer Order No. ✓

COMPANY NAME PET ENERGY INC

ADDRESS SUITE 710 ONETWENTY BLDG WICHITA KS 67202

LEASE AND WELL NO. #2 Dolecheck "A" COUNTY Barton STATE KS Sec. 29 Twp. 16 S Rge. 11 W

Mail Invoice To Dolecheck #2 Co. Name Same Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5 1

Formation Test No. 4 Interval Tested from 3304 ft. to 3322 ft. Total Depth 3322 ft.

Packer Depth 3299 ft. Size 6 3/4 in. Packer Depth 3304 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) 3315 ft. Recorder Number 4077 Cap. 4700

Bottom Recorder Depth (Outside) 3318 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor White & Ellis Rig #2 Drill Collar Length 325 I. D. 2 1/4 in.

Mud Type Starch Viscosity 39 Weight Pipe Length — I. D. — in.

Weight 10.3 Water Loss 15.0 cc. Drill Pipe Length 2958 I. D. 3.8 in.

Chlorides 93,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make — Serial Number — Anchor Length 18 ft. Size 5 1/2 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 Blow Increasing From 1/4 inch TO ONE inch in Bucket First Opening, weak increasing Blow From 1/4 inch TO 1 1/2 inches in Bucket Second Opening

Recovered 50 ft. of mud cut oil - 660 oil - 3490 mud

Recovered 60 ft. of oil cut mud 3090 oil 0090 mud

Recovered ft. of

Recovered ft. of

Recovered ft. of Chlorides 90,000 P.P.M.

Remarks:

on Loc @ 3:30 A.M. make up Tool @ 4:00 A.M. Leave @ 10:30 A.M.

Time Set Packer(s) 5:50 A.M. P.M. Time Started Off Bottom 7:54 A.M. P.M. Maximum Temperature 114

| | | | | | |
|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) | 1820 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 61 | P.S.I. to (C) | 73 P.S.I. |
| Initial Closed In Period | Minutes 30 | (D) | 816 | P.S.I. | |
| Final Flow Period | Minutes 30 | (E) | 73 | P.S.I. to (F) | 85 P.S.I. |
| Final Closed In Period | Minutes 30 | (G) | 816 | P.S.I. | |
| Final Hydrostatic Pressure | | (H) | 1796 | 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

RECEIVED AUG 1 - 1980

Western Representative Roger Lisenby

### FIELD INVOICE

| | | |
|---|---|---|
| Open Hole Test | ✓ | $ 550.00 |
| Misrun | | $ |
| Straddle Test | | $ |
| Jars | | $ |
| Selective Zone | | $ |
| Safety Joint | | $ |
| Standby | | $ |
| Evaluation | | $ |
| Extra Packer | | $ |
| Circ. Sub. | | $ |
| 25 Mileage | x .75¢ | $ 18.75 |
| Fluid Sampler | | $ |
| Extra Charts | | $ |
| TOTAL | | $ 568.75 |

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

Date 7-31-80 Test Ticket No. 6959

Recorder No. 6077 Capacity 4700 Location 3315 Ft.

Clock No. Elevation 1855 Kelly Bushing. Well Temperature 114 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1829 | P.S.I. | Open Tool | 5.50A M | |
| B | First Initial Flow Pressure | 57 | P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 57 | P.S.I. | Initial Closed-in Pressure | 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 819 | P.S.I. | Second Flow Pressure | 30 Mins. | 30 Mins. |
| E | Second Initial Flow Pressure | 80 | P.S.I. | Final Closed-in Pressure | 30 Mins. | 36 Mins. |
| F | Second Final Flow Pressure | 70 | P.S.I. | | | |
| G | Final Closed-in Pressure | 822 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 1812 | 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 | 57 |
| P 2 | 5 | 50 |
| P 3 | 10 | 50 |
| P 4 | 15 | 51 |
| P 5 | 20 | 52 |
| P 6 | 25 | 55 |
| P 7 | 30 | 57 |
| 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 | 57 |
| 3 | 75 |
| 6 | 190 |
| 9 | 538 |
| 12 | 727 |
| 15 | 770 |
| 18 | 789 |
| 21 | 802 |
| 24 | 811 |
| 27 | 816 |
| 30 | 819 |
| 33 | |
| 36 | |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

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

| Point Minutes | Press. |
|---|---|
| 0 | 80 |
| 5 | 67 |
| 10 | 65 |
| 15 | 66 |
| 20 | 66 |
| 25 | 68 |
| 30 | 70 |
| 35 | |
| 40 | |
| 45 | |
| 50 | |
| 55 | |
| 60 | |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

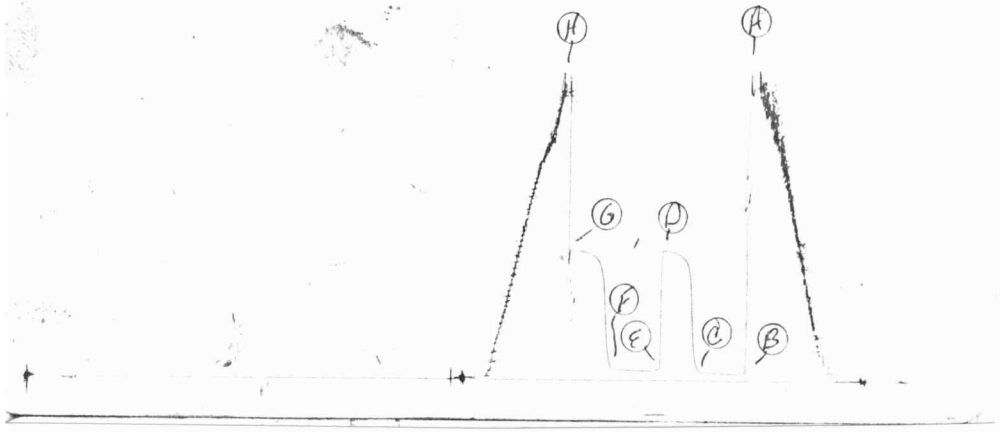
**Final Shut-In**
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 70 |
| 3 | 95 |
| 6 | 280 |
| 9 | 625 |
| 12 | 727 |
| 15 | 772 |
| 18 | 789 |
| 21 | 801 |
| 24 | 809 |
| 27 | 814 |
| 30 | 817 |
| 33 | 822 |
| 36 | 822 |
| 39 | |
| 42 | |
| 45 | |
| 48 | |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

WTC - 4

JKH #6959

I



Company Petroleum Energy, Inc. Lease & Well No. Dolechek "A" #2

Elevation 1855 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 6959

Date 7/31/80 Sec. 29 Twp. 16S Range 11W County Barton State Kansas

Test Approved by Dan Nixon Western Representative Roger Lisenby

Formation Test No. 4 Interval Tested from 3304 ft. to 3322 ft. Total Depth 3322 ft.

Packer Depth 3299 ft. Size 6 3/4 in. Packer Depth 3304 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) 3315 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3318 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor White & Ellis Drilling Rig #2 Drill Collar Length 325 I. D. 2¼ in.

Mud Type starch Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 10.3 Water Loss 15.0 cc. Drill Pipe Length 2958 I. D. 3.8 in.

Chlorides 93,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 18 ft. Size 5½ in.

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

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

Blow: Weak blow increasing from one fourth inch to one inch in bucket first opening. Weak increasing blow from one fourth inch to one and one-half inches in bucket second opening.

Recovered 50 ft. of mud cut oil (66% oil;34$ mud)

Recovered 60 ft. of oil cut mud (30% oil;70% mud)

Recovered ft. of Chlorides 90,000 ppm

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:50 A.M. P.M. Time Started Off Bottom 7:54 A.M. P.M. Maximum Temperature 114°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1829 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 57 | P.S.I. to (C) | 57 | P.S.I. |
| Initial Closed In Period | Minutes 30 | (D) | 819 | P.S.I. | | |
| Final Flow Period | Minutes 30 | (E) | 80 | P.S.I. to (F) | 70 | P.S.I. |
| Final Closed In Period | Minutes 36 | (G) | 822 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 1812 | P.S.I. | | |

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

Date 7-31-80 Test Ticket No. 6959

Recorder No. 6077 Capacity 4700 Location 3315 Ft.

Clock No. ------- Elevation 1855 Kelly Bushing Well Temperature 114 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1829 P.S.I. | Open Tool | | 5:50 A M | |
| B | First Initial Flow Pressure | 57 P.S.I. | First Flow Pressure | | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 57 P.S.I. | Initial Closed-in Pressure | | 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 819 P.S.I. | Second Flow Pressure | | 30 Mins. | 30 Mins. |
| E | Second Initial Flow Pressure | 80 P.S.I. | Final Closed-in Pressure | | 30 Mins. | 36 Mins. |
| F | Second Final Flow Pressure | 70 P.S.I. | | | | |
| G | Final Closed-in Pressure | 822 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 1812 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: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

**Final Shut-In**
Breakdown: 12 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 | 0 | 57 | | 0 | 57 | | 0 | 80 | | 0 | 70 |
| P 2 | 5 | 50 | | 3 | 75 | | 5 | 67 | | 3 | 95 |
| P 3 | 10 | 50 | | 6 | 190 | | 10 | 65 | | 6 | 280 |
| P 4 | 15 | 51 | | 9 | 538 | | 15 | 66 | | 9 | 625 |
| P 5 | 20 | 52 | | 12 | 727 | | 20 | 66 | | 12 | 727 |
| P 6 | 25 | 55 | | 15 | 770 | | 25 | 68 | | 15 | 772 |
| P 7 | 30 | 57 | | 18 | 789 | | 30 | 70 | | 18 | 789 |
| P 8 | | | | 21 | 802 | | | | | 21 | 801 |
| P 9 | | | | 24 | 811 | | | | | 24 | 809 |
| P10 | | | | 27 | 816 | | | | | 27 | 814 |
| P11 | | | | 30 | 819 | | | | | 30 | 817 |
| P12 | | | | | | | | | | 33 | 822 |
| P13 | | | | | | | | | | 36 | 822 |
| P14 | | | | | | | | | | | |
| P15 | | | | | | | | | | | |
| P16 | | | | | | | | | | | |
| P17 | | | | | | | | | | | |
| P18 | | | | | | | | | | | |
| P19 | | | | | | | | | | | |
| P20 | | | | | | | | | | | |