



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 4711

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

Elevation 2084 G.L. Formation Eff. Pay Ft.

District St. Bend Date 3-26-80 Customer Order No.

COMPANY NAME Production Inc ADDRESS Box 459-2200 Lakini - St. Bend, Mo 67530 LEASE AND WELL NO. Walls #2 COUNTY Edward STATE Ks Sec 29 Twp 26 Rge 16W Mail Invoice To Same Walls Brothers #2 Co. Name Address Copy to D. Williams No. Copies Requested 5 Mail Charts To Same Address No. Copies Requested 5

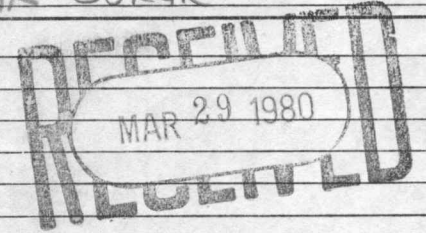
Formation Test No. 1 Interval Tested from 4480 ft. to 4560 ft. Total Depth 4560 ft. Packer Depth 4480 ft. Size 6 3/4 in. Packer Depth 4475 ft. Size 6 3/4 in. Packer Depth Depth of Selective Zone Set

Top Recorder Depth (Inside) 4485 ft. Recorder Number 10265 Cap. 4650 Bottom Recorder Depth (Outside) 4489 ft. Recorder Number 4339 Cap. 4300 Below Straddle Recorder Depth Recorder Number Cap.

Drilling Contractor Blue Goose #1 Mud Type Dispac Viscosity 4.7 Weight 9.3 Water Loss 6.8 cc. Chlorides P.P.M. Jars: Make Yes MTC Serial Number 400410 Did Well Flow? No Reversed Out No Drill Collar Length 244 I. D. 2.2 in. Weight Pipe Length I. D. Drill Pipe Length 4206 I. D. 3.8 in. Test Tool Length 30 ft. Tool Size 4.5 in. Anchor Length 80 ft. Size 5.5 in. Surface Choke Size 1 1/2 in. Bottom Choke Size 1/2 in. Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: 1st Flow NO BLOW FLUSHED TOOL NO BLOW 2nd Flow WEAK SURGE FLUSHED TOOL WEAK SURGE

Recovered 65 ft. of DRLG MUD Recovered ft. of OIL SPECKS IN TOOL Recovered ft. of Recovered ft. of Recovered ft. of Remarks:



Time Set Packer(s) 12:05 A.M. P.M. Time Started Off Bottom 12:55 A.M. P.M. Maximum Temperature 116° Initial Hydrostatic Pressure (A) 2182 P.S.I. Initial Flow Period Minutes 10 (B) 46 P.S.I. to (C) 46 P.S.I. Initial Closed In Period Minutes 10 (D) 230 P.S.I. Final Flow Period Minutes 15 (E) 57 P.S.I. to (F) 57 P.S.I. Final Closed In Period Minutes 15 (G) 230 P.S.I. Final Hydrostatic Pressure (H) 2158 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 David P. Williams Signature of Customer or his authorized representative

Western Representative Dan Delaney

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550.00), Misrun, Straddle Test, Jars (\$275.00), Selective Zone, Safety Joint (\$35.00), Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, and TOTAL (\$860.00).

# WESTERN TESTING CO., INC.

## Pressure Data

Date 3-26-80 Test Ticket No. 4771  
 Recorder No. 10265 Capacity 4650 Location 4485 Ft.  
 Clock No. \_\_\_\_\_ Elevation 2084 A.L. Well Temperature 116 °F

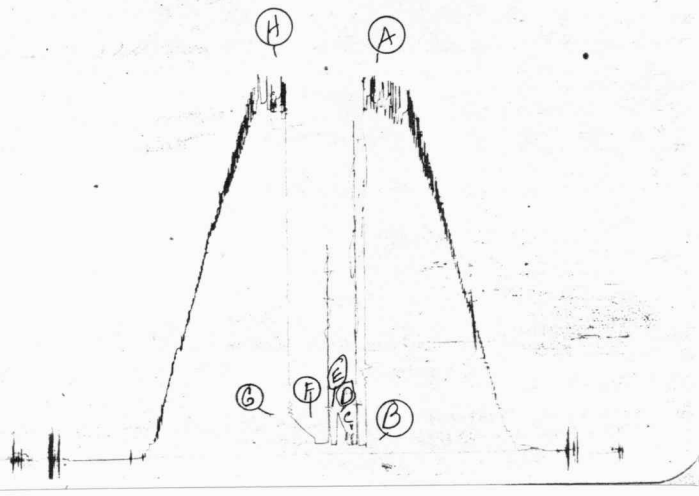
| Point                          | Pressure    | P.S.I. | Open Tool                  | Time Given      | Time Computed   |
|--------------------------------|-------------|--------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2189</u> | P.S.I. | Open Tool                  | <u>12105</u> AM |                 |
| B First Initial Flow Pressure  | <u>46</u>   | P.S.I. | First Flow Pressure        | <u>10</u> Mins. | <u>15</u> Mins. |
| C First Final Flow Pressure    | <u>46</u>   | P.S.I. | Initial Closed-in Pressure | <u>10</u> Mins. | <u>6</u> Mins.  |
| D Initial Closed-in Pressure   | <u>247</u>  | P.S.I. | Second Flow Pressure       | <u>15</u> Mins. | <u>15</u> Mins. |
| E Second Initial Flow Pressure | <u>55</u>   | P.S.I. | Final Closed-in Pressure   | <u>15</u> Mins. | <u>15</u> Mins. |
| F Second Final Flow Pressure   | <u>65</u>   | P.S.I. |                            |                 |                 |
| G Final Closed-in Pressure     | <u>212</u>  | P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>2138</u> | P.S.I. |                            |                 |                 |

### PRESSURE BREAKDOWN

| Point Mins. | First Flow Pressure         |               | Initial Shut-In             |               | Second Flow Pressure        |               | Final Shut-In               |      |
|-------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|------|
|             | Breakdown:                  | Inc.          | Breakdown:                  | Inc.          | Breakdown:                  | Inc.          | Breakdown:                  | Inc. |
|             | of <u>3</u> mins. and a     |               | of <u>2</u> mins. and a     |               | of <u>3</u> mins. and a     |               | of <u>5</u> mins. and a     |      |
|             | final inc. of <u>0</u> Min. |               | final inc. of <u>0</u> Min. |               | final inc. of <u>0</u> Min. |               | final inc. of <u>0</u> Min. |      |
| Point Mins. | Press.                      | Point Minutes | Press.                      | Point Minutes | Press.                      | Point Minutes | Press.                      |      |
| P 1         | <u>46</u>                   | 0             | <u>46</u>                   | 0             | <u>55</u>                   | 0             | <u>65</u>                   |      |
| P 2         | <u>46</u>                   | 3             | <u>177</u>                  | 3             | <u>55</u>                   | 3             | <u>115</u>                  |      |
| P 3         | <u>46</u>                   | 6             | <u>247</u>                  | 6             | <u>65</u>                   | 6             | <u>136</u>                  |      |
| P 4         | <u>46</u>                   | 9             |                             | 9             | <u>65</u>                   | 9             | <u>159</u>                  |      |
| P 5         |                             | 12            |                             | 12            |                             | 12            | <u>187</u>                  |      |
| P 6         |                             | 15            |                             | 15            |                             | 15            | <u>212</u>                  |      |
| P 7         |                             | 18            |                             | 18            |                             | 18            |                             |      |
| P 8         |                             | 21            |                             | 21            |                             | 21            |                             |      |
| P 9         |                             | 24            |                             | 24            |                             | 24            |                             |      |
| P10         |                             | 27            |                             | 27            |                             | 27            |                             |      |
| P11         |                             | 30            |                             | 30            |                             | 30            |                             |      |
| P12         |                             | 33            |                             | 33            |                             | 33            |                             |      |
| P13         |                             | 36            |                             | 36            |                             | 36            |                             |      |
| P14         |                             | 39            |                             | 39            |                             | 39            |                             |      |
| P15         |                             | 42            |                             | 42            |                             | 42            |                             |      |
| P16         |                             | 45            |                             | 45            |                             | 45            |                             |      |
| P17         |                             | 48            |                             | 48            |                             | 48            |                             |      |
| P18         |                             | 51            |                             | 51            |                             | 51            |                             |      |
| P19         |                             | 54            |                             | 54            |                             | 54            |                             |      |
| P20         |                             | 57            |                             | 57            |                             | 57            |                             |      |
|             |                             | 60            |                             | 60            |                             | 60            |                             |      |

4711

~~SA# 4711~~  
I



Company Production, Inc. Lease & Well No. Walls Brothers #2  
 Elevation 2084 Ground Level Formation --- Effective Pay ---- Ft. Ticket No. 4711  
 Date 3/26/80 Sec. 29 Twp. 26S Range 16W County Edwards State Kansas  
 Test Approved by David P. Williams Western Representative Dan Delaney

Formation Test No. 1 Interval Tested from 4480 ft. to 4560 ft. Total Depth 4560 ft.  
 Packer Depth 4480 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4475 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4485 ft. Recorder Number 10265 Cap. 4650  
 Bottom Recorder Depth (Outside) 4489 ft. Recorder Number 4339 Cap. 4300  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Blue Goose Drilling Rig #1 Drill Collar Length 244 I. D. 2.2 in.  
 Mud Type drispac Viscosity 47 Weight Pipe Length - I. D. - in.  
 Weight 9.3 Water Loss 6.8 cc. Drill Pipe Length 4206 I. D. 3.8 in.  
 Chlorides ----- P.P.M. Test Tool Length 30 ft. Tool Size 4.5 in.  
 Jars: Make WTC Serial Number 410 Anchor Length 80 ft. Size 5.5 in.  
 Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: First flow - no blow; flushed tool , no blow.  
Second flow - weak surge; flushed tool, weak surge.

Recovered 65 ft. of drilling mud  
 Recovered     ft. of oil specks in tool  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) 12:05 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 12:55 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 116°  
 Initial Hydrostatic Pressure ..... (A) 2189 P.S.I.  
 Initial Flow Period ..... Minutes 15 (B) 46 P.S.I. to (C) 46 P.S.I.  
 Initial Closed In Period ..... Minutes 6 (D) 247 P.S.I.  
 Final Flow Period ..... Minutes 15 (E) 55 P.S.I. to (F) 65 P.S.I.  
 Final Closed In Period ..... Minutes 15 (G) 212 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2138 P.S.I.

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

Date 3/26/80 Test Ticket No. 4711  
 Recorder No. 10265 Capacity 4650 Location 4485 Ft.  
 Clock No. ---- Elevation 2084 Ground Level Well Temperature 116 °F

| Point                          | Pressure |        |                            | Time Given | Time Computed  |
|--------------------------------|----------|--------|----------------------------|------------|----------------|
| A Initial Hydrostatic Mud      | 2189     | P.S.I. | Open Tool                  | 12:05A     | M              |
| B First Initial Flow Pressure  | 46       | P.S.I. | First Flow Pressure        | 10         | Mins. 15 Mins. |
| C First Final Flow Pressure    | 46       | P.S.I. | Initial Closed-in Pressure | 10         | Mins. 6 Mins.  |
| D Initial Closed-in Pressure   | 247      | P.S.I. | Second Flow Pressure       | 15         | Mins. 15 Mins. |
| E Second Initial Flow Pressure | 55       | P.S.I. | Final Closed-in Pressure   | 15         | Mins. 15 Mins. |
| F Second Final Flow Pressure   | 65       | P.S.I. |                            |            |                |
| G Final Closed-in Pressure     | 212      | P.S.I. |                            |            |                |
| H Final Hydrostatic Mud        | 2138     | P.S.I. |                            |            |                |

**PRESSURE BREAKDOWN**

| First Flow Pressure           |           | Initial Shut-In             |            | Second Flow Pressure        |           | Final Shut-In               |            |
|-------------------------------|-----------|-----------------------------|------------|-----------------------------|-----------|-----------------------------|------------|
| Breakdown: <u>3</u> Inc.      |           | Breakdown: <u>2</u> Inc.    |            | Breakdown: <u>3</u> Inc.    |           | Breakdown: <u>5</u> Inc.    |            |
| of <u>5</u> mins. and a       |           | of <u>3</u> mins. and a     |            | of <u>5</u> mins. and a     |           | of <u>3</u> mins. and a     |            |
| final inc. of <u>0</u> Min.   |           | final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |           | final inc. of <u>0</u> Min. |            |
| Point Mins.                   | Press.    | Point Minutes               | Press.     | Point Minutes               | Press.    | Point Minutes               | Press.     |
| P 1 <u>0</u>                  | <u>46</u> | <u>0</u>                    | <u>46</u>  | <u>0</u>                    | <u>55</u> | <u>0</u>                    | <u>65</u>  |
| P 2 <u>5</u> Plugging action  |           | <u>3</u>                    | <u>173</u> | <u>5</u>                    | <u>55</u> | <u>3</u>                    | <u>115</u> |
| P 3 <u>10</u> Plugging action |           | <u>6</u>                    | <u>247</u> | <u>10</u>                   | <u>65</u> | <u>6</u>                    | <u>136</u> |
| P 4 <u>15</u>                 | <u>46</u> |                             |            | <u>15</u>                   | <u>65</u> | <u>9</u>                    | <u>159</u> |
| P 5                           |           |                             |            |                             |           | <u>12</u>                   | <u>187</u> |
| P 6                           |           |                             |            |                             |           | <u>15</u>                   | <u>212</u> |
| P 7                           |           |                             |            |                             |           |                             |            |
| P 8                           |           |                             |            |                             |           |                             |            |
| P 9                           |           |                             |            |                             |           |                             |            |
| P10                           |           |                             |            |                             |           |                             |            |
| P11                           |           |                             |            |                             |           |                             |            |
| P12                           |           |                             |            |                             |           |                             |            |
| P13                           |           |                             |            |                             |           |                             |            |
| P14                           |           |                             |            |                             |           |                             |            |
| P15                           |           |                             |            |                             |           |                             |            |
| P16                           |           |                             |            |                             |           |                             |            |
| P17                           |           |                             |            |                             |           |                             |            |
| P18                           |           |                             |            |                             |           |                             |            |
| P19                           |           |                             |            |                             |           |                             |            |
| P20                           |           |                             |            |                             |           |                             |            |