

15-035-21880



16-325-6E

Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company R. R. Abberhalden Lease & Well No. Bolack #D-1  
Elevation 1341 Kelly Bushing Formation Stalnaker Effective Pay ----- Ft. Ticket No. 121  
Date 5/3/78 Sec 16 Twp 32S Range 6E County Cowley State Kansas  
Test Approved by R. R. Abberhalden Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 1860' ft. to 1930' ft. Total Depth 1930' ft.  
Packer Depth 1860 ft. Size 6 3/4 in. OD Packer Depth ----- ft. Size -- in.  
Packer Depth 1855 ft. Size 6 3/4 in. OD Packer Depth ----- ft. Size -- in.  
Depth of Selective Zone Set ===

Top Recorder Depth (Inside) 1923 ft. Recorder Number 3085 Cap. 4200  
Bottom Recorder Depth (Outside) 1926 ft. Recorder Number 1562 Cap. 3150  
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. --

Drilling Contractor D. N. B. Drilling, Inc. #3 Drill Collar Length ----- I. D. ----- in.  
Mud Type chemical Viscosity 40 Weight Pipe Length 510 I. D. 2.7 in.  
Weight 9.2 Water Loss No. c cc. Drill Pipe Length 1330 I. D. 3.8 in.  
Chlorides N.C. P.P.M. Test Tool Size 4 1/2 OD in. Tool Joint Size 3 1/2 IF in.  
Jars: Make ----- Serial Number ----- Anchor Length 70 ft. Size 4 1/2 OD & DP 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.

Blow: Fair throughout test. Slid tool 15' to bottom.

Recovered 510 ft. of slightly muddy salt water . 84,000 PPM chlorides  
Recovered ----- ft. of .8 Resistivity at 60°F  
Recovered ----- ft. of -----  
Recovered ----- ft. of -----  
Recovered ----- ft. of -----

Remarks: -----

Time Set Packer(s) 6:27 A.M. Time Started Off Bottom 9:00 A.M. Maximum Temperature 96  
Initial Hydrostatic Pressure ----- (A) 874 P.S.I.  
Initial Flow Period ----- Minutes 30 (B) 69 P.S.I. to (C) 110 P.S.I.  
Initial Closed In Period ----- Minutes 45 (D) 513 P.S.I.  
Final Flow Period ----- Minutes 30 (E) 163 P.S.I. to (F) 206 P.S.I.  
Final Closed In Period ----- Minutes 45 (G) 502 P.S.I.  
Final Hydrostatic Pressure ----- (H) 825 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

121

Date 5/3/78

Recorder No. 3085

Capacity 4200

Test Ticket No. 1923

Clock No. ----- Elevation 1341 Kelly Bushing

Location \_\_\_\_\_ Ft. Well Temperature 96 °F

| Point                          | Pressure   |                            | Time Given | Time Computed |
|--------------------------------|------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 874 P.S.I. | Open Tool                  | 6:27 A M   |               |
| B First Initial Flow Pressure  | 69 P.S.I.  | First Flow Pressure        | 30 Mins    | 30 Mins       |
| C First Final Flow Pressure    | 110 P.S.I. | Initial Closed-in Pressure | 45 Mins    | 45 Mins       |
| D Initial Closed-in Pressure   | 513 P.S.I. | Second Flow Pressure       | 30 Mins    | 30 Mins       |
| E Second Initial Flow Pressure | 163 P.S.I. | Final Closed-in Pressure   | 45 Mins    | 45 Mins       |
| F Second Final Flow Pressure   | 206 P.S.I. |                            |            |               |
| G Final Closed-in Pressure     | 502 P.S.I. |                            |            |               |
| H Final Hydrostatic Mud        | 825 P.S.I. |                            |            |               |

PRESSURE BREAKDOWN

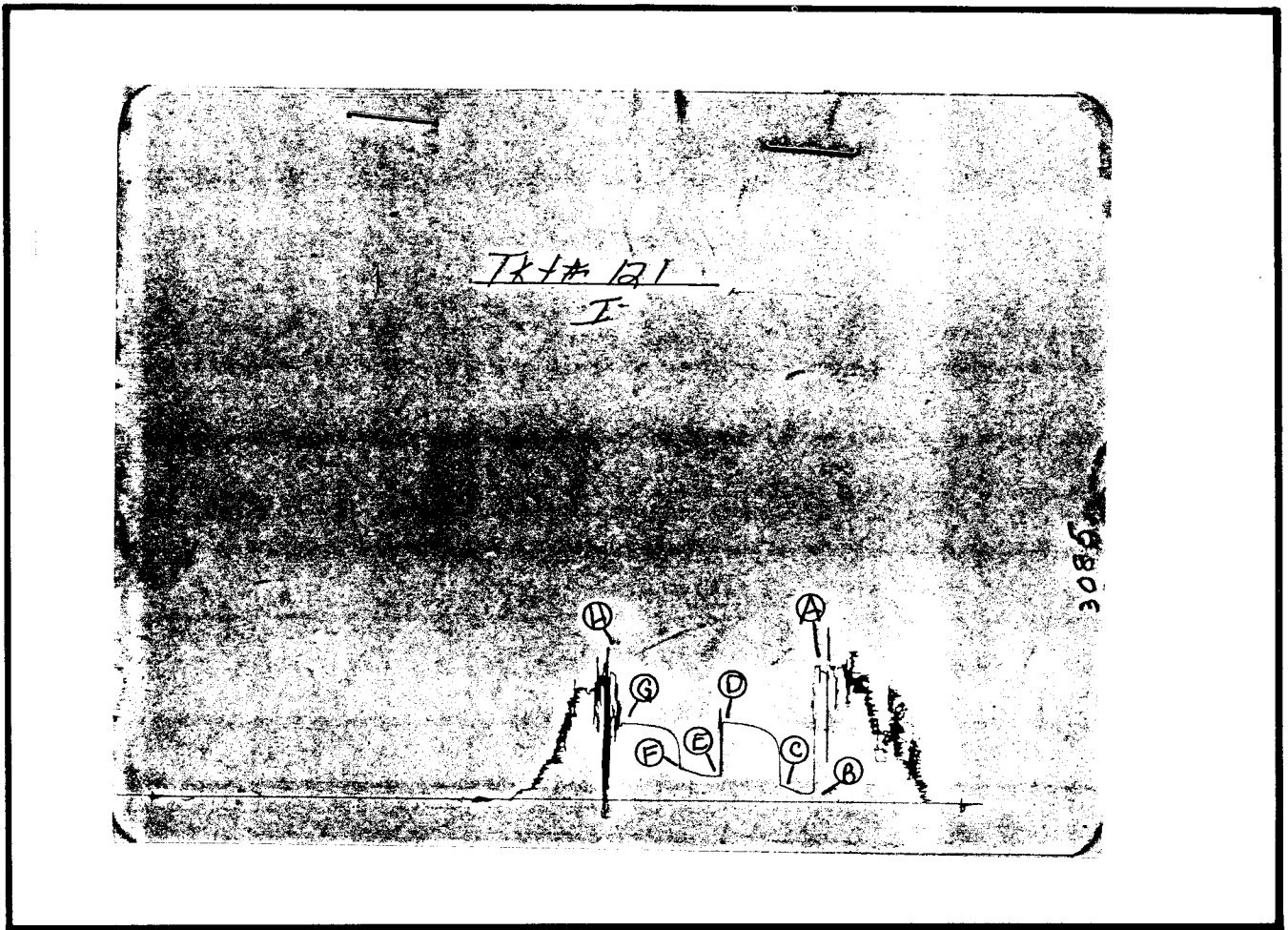
First Flow Pressure  
Breakdown: 6 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

Initial Shut-In  
Breakdown: 15 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: 15 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       | 69     | 0             | 110    | 0             | 163    | 0             | 206    |
| P 2 5       | 50     | 3             | 363    | 5             | 158    | 3             | 392    |
| P 3 10      | 55     | 6             | 414    | 10            | 163    | 6             | 430    |
| P 4 15      | 72     | 9             | 438    | 15            | 167    | 9             | 452    |
| P 5 20      | 88     | 12            | 454    | 20            | 182    | 12            | 464    |
| P 6 25      | 105    | 15            | 469    | 25            | 194    | 15            | 474    |
| P 7 30      | 110    | 18            | 476    | 30            | 206    | 18            | 478    |
| P 8         |        | 21            | 486    |               |        | 21            | 483    |
| P 9         |        | 24            | 493    |               |        | 24            | 488    |
| P10         |        | 27            | 498    |               |        | 27            | 491    |
| P11         |        | 30            | 502    |               |        | 30            | 494    |
| P12         |        | 33            | 505    |               |        | 33            | 496    |
| P13         |        | 36            | 509    |               |        | 36            | 500    |
| P14         |        | 39            | 510    |               |        | 39            | 500    |
| P15         |        | 42            | 511    |               |        | 42            | 500    |
| P16         |        | 45            | 513    |               |        | 45            | 502    |
| P17         |        |               |        |               |        |               |        |
| P18         |        |               |        |               |        |               |        |
| P19         |        |               |        |               |        |               |        |
| P20         |        |               |        |               |        |               |        |



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|--|---------------|----------------|-----|
|  | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 875           | 874            | PSI |
| (B) First Initial Flow Pressure .....  | 60            | 69             | PSI |
| (C) First Final Flow Pressure .....    | 105           | 110            | PSI |
| (D) Initial Closed-in Pressure .....   | 513           | 513            | PSI |
| (E) Second Initial Flow Pressure ..... | 167           | 163            | PSI |
| (F) Second Final Flow Pressure .....   | 215           | 206            | PSI |
| (G) Final Closed-in Pressure .....     | 502           | 502            | PSI |
| (H) Final Hydrostatic Mud .....        | 875           | 825            | PSI |