



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 0845  
 TIME OFF: 1535

**DRILL-STEM TEST TICKET**  
 FILE: LRTTPLZNRST1-22DST1

Company L.D. DRILLING, INC. Lease & Well No. LORETTA POLZIN TRUST #1-22  
 Contractor PETROMARK DRILLING, LLC-RIG 2 Charge to L.D. DRILLING, INC.  
 Elevation 1916 GL Formation \_\_\_\_\_ L/KC A-G Effective Pay \_\_\_\_\_ Ft. Ticket No. M564  
 Date 10/19/2013 Sec. 22 Twp. \_\_\_\_\_ 18 S Range \_\_\_\_\_ 14 W County BARTON State KANSAS  
 Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3174 ft. to 3255 ft. Total Depth 3255 ft.  
 Packer Depth 3169 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.  
 Packer Depth 3174 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3161 ft. Recorder Number 0063 Cap. 6,000 P.S.I.  
 Bottom Recorder Depth (Outside) 3252 ft. Recorder Number 6884 Cap. 6,275 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 53 Drill Collar Length 117 ft. I.D. 2 1/4 in.  
 Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 2,600 P.P.M. Drill Pipe Length 3030 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number SFTY JT Test Tool Length 27 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 81 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 63'DP, 18' PERF Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB, INC. TO 7" (NO BB)  
 2nd Open: GSB, BOB 45 MIN (NO BB)

Recovered 185 ft. of GIP  
 Recovered 155 ft. of WGOCM 10% GAS, 12% STICKY OIL, 7% WTR, 71% MUD  
 Recovered 155 ft. of TOTAL FLUID (38' DP, 117' DC)

|  |           |
|--|-----------|
| Recovered _____ ft. of CHLOR: 12,000 PPM       | Price Job |
| Recovered _____ ft. of RW: .40 @ 85 DEG        |           |
| Recovered _____ ft. of PH: 7.0                 |           |
| Remarks: _____                                 |           |
| TOOL SAMPLE: 2% GAS, 23% OIL, 16% WTR, 59% MUD | Total     |

Time Set Packer(s) 10:45 A.M. A.M. P.M. Time Started Off Bottom 1:45 P.M. A.M. P.M. Maximum Temperature 101°F

Initial Hydrostatic Pressure..... (A) 1528 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 52 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 879 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 59 P.S.I. to (F) 78 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 865 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1500 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# DIAMOND TESTING

## Pressure Survey Report

### General Information

|                  |                              |                |                     |
|------------------|------------------------------|----------------|---------------------|
| Company Name     | L.D. DRILLING, INC.          | Job Number     | M564                |
| Well Name        | LORETTA POLZIN TRUST #1-22   | Representative | MIKE COCHRAN        |
| Unique Well ID   | DST#1 3174-3255 L/KC A-G     | Well Operator  | L.D. DRILLING, INC. |
| Surface Location | SEC.22-18S-14W BARTON CO.KS. | Report Date    | 2013/10/19          |
| Field            | WILDCAT                      | Prepared By    | MIKE COCHRAN        |
| Well Type        | Vertical                     | Qualified By   | KIM SHOEMAKER       |
|                  |                              | Test Unit      | NO. 1               |

### Test Information

|                     |                          |                 |          |
|---------------------|--------------------------|-----------------|----------|
| Test Type           | CONVENTIONAL             |                 |          |
| Formation           | DST#1 3174-3255 L/KC A-G |                 |          |
| Test Purpose (AEUB) | Initial Test             |                 |          |
| Start Test Date     | 2013/10/19               | Start Test Time | 08:45:00 |
| Final Test Date     | 2013/10/19               | Final Test Time | 15:35:00 |
|                     |                          | Well Fluid Type | 01 Oil   |
| Gauge Name          | 0063                     |                 |          |
| Gauge Serial Number |                          |                 |          |

### Test Results

Remarks RECOVERED:  
185' GIP  
155' WGOCM 10% GAS, 12% STICKY OIL, 7% WTR, 71% MUD  
155' TOTAL FLUID

CHLOR: 12,000 PPM  
PH:7.0  
RW: .40 @ 85 DEG

TOOL SAMPLE: 2% GAS, 23% OIL, 16% WTR, 59% MUD

