



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: 4-31DRRLDST1

TIME ON: 1735 (11/2)  
TIME OFF: 0200 (11/3)

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL  
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.  
Elevation 2645 KB Formation TORONTO/LANSING A Effective Pay \_\_\_\_\_ Ft. Ticket No. M800  
Date 11/2/2015 Sec. 31 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 29 W County GOVE State KANSAS  
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3647 ft. to 3700 ft. Total Depth 3700 ft.

Packer Depth 3642 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3647 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 3629 ft. Recorder Number 0063 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3649 ft. Recorder Number 5448 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth 3697 ft. Recorder Number 6448 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 51 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 8.8 Water Loss 6.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,000 P.P.M. Drill Pipe Length 3615 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 53 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (32" DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WSB, INCREASED TO 9" (NO BB)

2nd Open: VWSB, INCREASED TO 8" (NO BB)

Recovered -2 ft. of CO 100% OIL GRAVITY: 34.0 @ 60°

Recovered 172 ft. of VSOSGWM 30% WTR, 70% MUD W/ A VERY THIN SCUM OF OIL, SOME GASSY BUBBLES

Recovered 48 ft. of VSOSMW 95% WTR, 5% MUD W/ A FEW SPECKS OF OIL

Recovered 222 ft. of TOTAL FLUID

Recovered \_\_\_\_\_ ft. of RW: .40 @ 46 DEG Price Job \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of PH: 7.0 Other Charges \_\_\_\_\_

Remarks: CHLOR: 45,000 PPM Insurance \_\_\_\_\_

TOOL SAMPLE: 3% GAS, 53% WTR, 44% MUD W/ A VERY THIN SCUM OF OIL Total \_\_\_\_\_

Time Set Packer(s) 8:30 P.M. A.M. P.M. Time Started Off Bottom 11:30 P.M. A.M. P.M. Maximum Temperature 124°F

Initial Hydrostatic Pressure..... (A) 1749 P.S.I.

Initial Flow Period..... Minutes 30 (B) 40 P.S.I. to (C) 86 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 966 P.S.I.

Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 136 P.S.I.

Final Closed In Period..... Minutes 60 (G) 948 P.S.I.

Final Hydrostatic Pressure..... (H) 1727 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	#4-31 DARREL	Job Number	M800
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3647-3700 TORONTO/LANSING A	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/03
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3647-3700 TORONTO/LANSING A		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/02	Start Test Time	17:35:00
Final Test Date	2015/11/03	Final Test Time	02:00:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

### Test Results

Remarks RECOVERED:  
~2' CO 100% OIL  
172' VSOSGWM 30% WTR, 70% MUD W/ A VERY THIN SCUM OF OIL, SOME GASSY BUBBLES  
48' VSOSMW 95% WTR, 5% MUD W/ A FEW SPECKS OF OIL  
222' TOTAL FLUID

GRAVITY: 34.0 @ 60 DEG

CHLOR: 45,000 PPM  
PH:7.0  
RW: .40 @ 46 DEG.

TOOL SAMPLE: 3% GAS, 53% WTR, 44% MUD W/ A VERY THIN SCUM OF OIL

#4-31 DARREL  
DST#1 3647-3700 TORONTO/LANSING A  
Start Test Date: 2015/11/02  
Final Test Date: 2015/11/03

#4-31 DARREL  
Formation: DST#1 3647-3700 TORONTO/LANSING A  
Pool: WILDCAT  
Job Number: M800

# #4-31 DARREL

