



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
UMMELBROTHERSTRUST4DST1

Company Richlan Drilling Lease & Well No. Ummel Brothers Trust No. 4  
Elevation 2274 KB Formation Fort Scott Effective Pay \_\_\_\_\_ Ft. Ticket No. T283  
Date 11-17-13 Sec. 24 Twp. 18S Range 24W County Ness State Kansas  
Test Approved By Robert A. (Bob) Schreiber Diamond Representative \_\_\_\_\_ Tim Venters

Formation Test No. 1 Interval Tested from 4,177 ft. to 4,228 ft. Total Depth 4,228 ft.  
Packer Depth 4,172 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 4,177 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,158 ft. Recorder Number 8457 Cap. 10,000 psi.  
Bottom Recorder Depth (Outside) 4,225 ft. Recorder Number 11030 Cap. 5,025 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 8 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 68 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 4,144 ft I.D. 3 1/2 in.  
Chlorides 3,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 2 Anchor Length 19' perf. w/32' drill pipe Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow increasing to 1/2 in. No blow back during shut-in.

2nd Open: Weak, surface blow throughout. No blow back during shut-in.

Recovered 5 ft. of mud = .071150 bbls.

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: Spotty-oil; 100%-mud

Time Set Packer(s) 8:18 P.M. Time Started off Bottom 9:50 P.M. Maximum Temperature 108°  
Initial Hydrostatic Pressure.....(A) 2026 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 5 P.S.I. to (C) 8 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 150 P.S.I.  
Final Flow Period.....Minutes 17 (E) 9 P.S.I. to (F) 9 P.S.I.  
Final Closed In Period.....Minutes 15 (G) 24 P.S.I.  
Final Hydrostatic Pressure.....(H) 2025 P.S.I.

# DIAMOND TESTING

## General Information Report

### General Information

Company Name	RICHLAN DRILLING & GENERAL PARTNERS	Representative	TIM VENTERS
Contact	RICK SCHREIBER	Well Operator	RICHLAN DRILLING & GENERAL PAR.
Well Name	UMMEL BROTHERS TRUST #4	Report Date	2013/11/18
Unique Well ID	DST #1, FT. SCOTT, 4177-4228	Prepared By	TIM VENTERS
Surface Location	SEC 24-18S-24W, NESS CO. KS.	Qualified By	BOB SCHREIBER
Field	MINER		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #1, FT. SCOTT, 4177-4228		
Well Fluid Type	01 Oil		
Start Test Date	2013/11/17	Start Test Time	17:40:00
Final Test Date	2013/11/17	Final Test Time	23:55:00

### Test Recovery:

RECOVERED: 5' MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD

RICHLAN DRILLING & GENERAL PARTNERS  
DST #1, FT. SCOTT, 4177-4228  
Start Test Date: 2013/11/17  
Final Test Date: 2013/11/17

UMMEL BROTHERS TRUST #4  
Formation: DST #1, FT. SCOTT, 4177-4228  
Pool: MINER  
Job Number: T283

# UMMEL BROTHERS TRUST #4

