



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
ENTZ-WED1DST1

Company Range Oil Company, Inc. Lease & Well No. Entz-Wedel No. 1  
Elevation 1440 KB Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No. F192  
Date 11-6-13 Sec. 24 Twp. 22S Range 3E County Marion State Kansas  
Test Approved By Frank S. Mize Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 2,459 ft. to 2,498 ft. Total Depth 2,498 ft.  
Packer Depth 2,454 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 2,459 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 2,437 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 2,463 ft. Recorder Number 5951 Cap. 5,000 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 320 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 50 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 2,106 ft I.D. 3 in.  
Chlorides 1,200 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 39 ft. 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 3 1/2-XH in.

Blow: 1st Open: Weak, 1/2 in. blow increasing to 10 1/2 ins. No blow back during shut-in.  
2nd Open: Surface blow increasing. Off bottom of bucket in 48 1/2 mins. No blow back during shut-in.

Recovered 95 ft. of gas in pipe  
Recovered 45 ft. of free oil = .221400 bbls. (Grind out: 100%-oil) Gravity: 38 @ 45° Corrected gravity: 39.5  
Recovered 78 ft. of gas cut muddy oil = .383760 bbls. (Grind out: 10%-gas; 45%-oil; 45%-mud)  
Recovered 132 ft. of gas cut heavy oil cut mud = .649440 bbls. (Grind out: 10%-gas; 22%-oil; 68%-mud)  
Recovered 255 ft. of TOTAL FLUID = 1.254600 bbls.

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

Time Set Packer(s) 10:08 A.M. Time Started off Bottom 1:08 P.M. Maximum Temperature 100°  
Initial Hydrostatic Pressure.....(A) 1216 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 11 P.S.I. to (C) 60 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 425 P.S.I.  
Final Flow Period.....Minutes 60 (E) 64 P.S.I. to (F) 117 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 423 P.S.I.  
Final Hydrostatic Pressure.....(H) 1215 P.S.I.