



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
MADDENUNIT1DST2

Company Range Oil Company, Inc. Lease & Well No. Madden Unit No. 1  
Elevation 1469 KB Formation Viola Effective Pay \_\_\_\_\_ Ft. Ticket No. F278  
Date 6-1-14 Sec. 31 Twp. 19S Range 6E County Chase State Kansas  
Test Approved By Ken Wallace Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 2,188 ft. to 2,208 ft. Total Depth 2,208 ft.  
Packer Depth 2,183 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 2,188 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 2,171 ft. Recorder Number 5951 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 2,189 ft. Recorder Number 5584 Cap. 5,000 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor C & G Drilling Company - Rig 2 Drill Collar Length 300 ft. I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 52 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
Weight 8.9 Water Loss 7.8 cc. Drill Pipe Length 1,860 ft. I.D. 3 1/2 in.  
Chlorides 800 P.P.M. Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 20 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 4 1/2-XH in.

Blow: 1st Open: Blow increasing. Off bottom of bucket in 15 mins. No blow back during shut-in.  
2nd Open: Blow increasing. Off bottom of bucket in 25 mins. No blow back during shut-in.

Recovered 400 ft. of clean heavy oil = 3.457600 bbls. (Grind out: 100%-oil) Gravity: 29 @ 60°  
Recovered 60 ft. of oil cut mud = .295200 bbls. (Grind out: 15%-oil; 85%-mud)  
Recovered 460 ft. of TOTAL FLUID = 3.752800 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks Tool Sample Grind Out: 47%-oil; 53%-mud

Time Set Packer(s) 10:55 A.M. Time Started off Bottom 1:55 P.M. Maximum Temperature 94°  
Initial Hydrostatic Pressure.....(A) 1041 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 11 P.S.I. to (C) 115 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 735 P.S.I.  
Final Flow Period.....Minutes 60 (E) 118 P.S.I. to (F) 187 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 729 P.S.I.  
Final Hydrostatic Pressure.....(H) 1041 P.S.I.