



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
MADUN2DST1

Company Range Oil Company, Inc. Lease & Well No. Madden Unit No. 2
Elevation 1470 KB Formation Viola Effective Pay _____ Ft. Ticket No. F294
Date 8-10-14 Sec. 31 Twp. 19S Range 6E County Chase State Kansas
Test Approved By Kenneth C. Wallace Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 2,185 ft. to 2,195 ft. Total Depth 2,195 ft.
Packer Depth 2,180 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2,185 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,163 ft. Recorder Number 5951 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,186 ft. Recorder Number 5584 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor C & G Drilling Company - Rig 1 Drill Collar Length 180 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 53 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.3+ Water Loss 8.0 cc. Drill Pipe Length 1,972 ft I.D. 3 in.
Chlorides 900 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 5 Anchor Length 10 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-FH in.

Blow: 1st Open: Surface blow increasing to 1/4 in. Blow died by end of flow. No blow back during shut-in.

2nd Open: No blow. No blow back during shut-in.

Recovered 2 ft. of clean oil = .009840 bbls. (Grind out: 100%-oil)
Recovered 3 ft. of drilling mud = .014760 bbls. (Grind out: 100%-mud)
Recovered 5 ft. of TOTAL FLUID = .024600 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Tool Sample Grind Out: 60%-oil; 40%-mud

Time Set Packer(s) 1:54 P.M. Time Started off Bottom 3:54 P.M. Maximum Temperature 95°
Initial Hydrostatic Pressure.....(A) 1071 P.S.I.
Initial Flow Period.....Minutes 30 (B) 20 P.S.I. to (C) 21 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 681 P.S.I.
Final Flow Period.....Minutes 30 (E) 23 P.S.I. to (F) 24 P.S.I.
Final Closed In Period.....Minutes 30 (G) 685 P.S.I.
Final Hydrostatic Pressure.....(H) 1072 P.S.I.