



DIAMOND TESTING, LLC
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (620) 653-7550 • (800) 542-7313
 MADDENB1DST1

Company Range Oil Company, Inc. Lease & Well No. Madden "B" No. 1
 Elevation 1469 KB Formation Viola Effective Pay Ft. Ticket No. T488
 Date 8-13-15 Sec. 31 Twp. 19S Range 6E County Chase State Kansas
 Test Approved By Kenneth C. Wallace Diamond Representative Tim Venters

Formation Test No. 1 Interval Tested from 2,198 ft. to 2,205 ft. Total Depth 2,205 ft.
 Packer Depth 2,193 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Packer Depth 2,198 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,179 ft. Recorder Number 5504 Cap. 5,000 psi.
 Bottom Recorder Depth (Outside) 2,202 ft. Recorder Number 11029 Cap. 5,025 psi.
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor C & G Drilling Company - Rig 1 Drill Collar Length 178 ft. I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 53 Weight Pipe Length ft. I.D. in.
 Weight 9.3 Water Loss 9.2 cc. Drill Pipe Length 1,987 ft. I.D. 3 in.
 Chlorides 1,350 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number 2 Anchor Length 7 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: Very weak, surface blow lasting 7 mins. No blow back during shut-in.
 2nd Open: No blow. No blow back during shut-in.

Recovered 5 ft. of slightly oil cut mud = .024600 bbls. (Grind out: 7%-oil; 93%-mud)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks Tool Sample Grind Out: 4%-oil; 96%-mud

Time Set Packer(s) 10:58 A.M. Time Started off Bottom 12:58 P.M. Maximum Temperature 98°
 Initial Hydrostatic Pressure.....(A) 1072 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 19 P.S.I. to (C) 25 P.S.I.
 Initial Closed In Period.....Minutes 30 (D) 722 P.S.I.
 Final Flow Period.....Minutes 30 (E) 25 P.S.I. to (F) 26 P.S.I.
 Final Closed In Period.....Minutes 30 (G) 717 P.S.I.
 Final Hydrostatic Pressure.....(H) 1065 P.S.I.