



DIAMOND TESTING, LLC
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MADDENB1DST2

Company Range Oil Company, Inc. Lease & Well No. Madden "B" No. 1
Elevation 1469 KB Formation Viola Effective Pay Ft. Ticket No. T489
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. 2 Interval Tested from 2,201 ft. to 2,215 ft. Total Depth 2,215 ft.
Packer Depth 2,196 ft. Size 6 3/4 in. Packer Depth ft. Size in.
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Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,182 ft. Recorder Number 5504 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,212 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 1,990 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 14 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: Weak, surface blow increasing to 1/2 in. No blow back during shut-in.
2nd Open: Very weak, surface blow increasing to 1/4 in. No blow back during shut-in.

Recovered 5 ft. of slightly mud cut oil = .024600 bbls. (Grind out: 91%-oil; 9%-mud) Gravity: 28
Recovered 30 ft. of oil cut mud = .147600 bbls. (Grind out: 35%-oil; 65%-mud)
Recovered 35 ft. of TOTAL FLUID = .172200 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 52%-oil; 48%-mud

Time Set Packer(s) 9:30 P.M. Time Started off Bottom 12:30 A.M. Maximum Temperature 95°
Initial Hydrostatic Pressure.....(A) 1076 P.S.I.
Initial Flow Period.....Minutes 30 (B) 22 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 745 P.S.I.
Final Flow Period.....Minutes 60 (E) 30 P.S.I. to (F) 41 P.S.I.
Final Closed In Period.....Minutes 60 (G) 766 P.S.I.
Final Hydrostatic Pressure.....(H) 1072 P.S.I.