



DIAMOND TESTING, LLC
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STC/Maddenaunit1dst2

Company Range Oil Company, Inc. Lease & Well No. Madden "A" Unit No. 1
Elevation 1458 KB Formation Viola Effective Pay _____ Ft. Ticket No. J3307
Date 10-12-14 Sec. 31 Twp. 19S Range 6E County Chase State Kansas
Test Approved By Kenneth C. Wallace Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 2,180 ft. to 2,192 ft. Total Depth 2,192 ft.
Packer Depth 2,175 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2,180 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,183 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 2,189 ft. Recorder Number 13498 Cap. 6,000 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 46 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.1 Water Loss 8.2 cc. Drill Pipe Length 1,974 ft I.D. 3 in.
Chlorides 1,000 P.P.M. Test Tool Length 26 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 12 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, intermittent, surface blow throughout. No blow back during shut-in.
2nd Open: No blow. Flushed tool but no help. No blow back during shut-in.

Recovered 5 ft. of mud cut oil = .024600 bbls. (Grind out: 60%-oil; 40%-mud)
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 35%-oil; 65%-mud

Time Set Packer(s) 11:00 A.M. Time Started off Bottom 1:00 P.M. Maximum Temperature 91°
Initial Hydrostatic Pressure.....(A) 1045 P.S.I.
Initial Flow Period.....Minutes 30 (B) 14 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 712 P.S.I.
Final Flow Period.....Minutes 30 (E) 17 P.S.I. to (F) 21 P.S.I.
Final Closed In Period.....Minutes 30 (G) 723 P.S.I.
Final Hydrostatic Pressure.....(H) 1033 P.S.I.