



DIAMOND TESTING, LLC
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FERRELLA1DST1

Company Range Oil Company, Inc. Lease & Well No. Ferrell "A" No. 1
Elevation 1610 KB Formation Mississippi Delta Effective Pay _____ Ft. Ticket No. T399
Date 10-4-14 Sec. 33 Twp. 28S Range 8E County Butler State Kansas
Test Approved By Kenneth C. Wallace Diamond Representative Tim Venters

Formation Test No. 1 Interval Tested from 2,751 ft. to 2,766 ft. Total Depth 2,766 ft.
Packer Depth 2,746 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2,751 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,732 ft. Recorder Number 8457 Cap. 10,000 psi.
Bottom Recorder Depth (Outside) 2,763 ft. Recorder Number 11030 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 49 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 2,540 ft I.D. 3 in.
Chlorides 800 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 2 Anchor Length 15 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 increasing to 1/4 in. No blow back during shut-in.
2nd Open: Weak, surface blow throughout. No blow back during shut-in.

Recovered 1 ft. of clean oil = .004920 bbls.
Recovered 30 ft. of slightly oil cut mud = .147600 bbls. (Grind out: 3%-oil; 97%-mud)
Recovered 31 ft. of TOTAL FLUID = .152520 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 2%-oil; 98%-mud

Time Set Packer(s) 5:52 P.M. Time Started off Bottom 8:52 P.M. Maximum Temperature 109°
Initial Hydrostatic Pressure.....(A) 1321 P.S.I.
Initial Flow Period.....Minutes 30 (B) 4 P.S.I. to (C) 12 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 723 P.S.I.
Final Flow Period.....Minutes 60 (E) 12 P.S.I. to (F) 22 P.S.I.
Final Closed In Period.....Minutes 60 (G) 679 P.S.I.
Final Hydrostatic Pressure.....(H) 1317 P.S.I.