



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
bowman3dst2

Company Range Oil Company, Inc. Lease & Well No. Bowman No. 3  
Elevation 1325 KB Formation Middle Simpson Sand Effective Pay \_\_\_\_\_ Ft. Ticket No. T341  
Date 4-27-14 Sec. 4 Twp. 29S Range 3E County Butler State Kansas  
Test Approved By Ken Wallace Diamond Representative Tim Venters

Formation Test No. 2 Interval Tested from 3,120 ft. to 3,162 ft. Total Depth 3,162 ft.  
Packer Depth 3,115 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,120 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,106 ft. Recorder Number 8457 Cap. 10,000 psi.  
Bottom Recorder Depth (Outside) 3,159 ft. Recorder Number 11029 Cap. 5,025 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 315 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 51 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 2,777 ft I.D. 3 in.  
Chlorides 1,000 P.P.M. Test Tool Length 28 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 42 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 3 1/2-XH in.

Blow: 1st Open: Weak, surface blow increasing to 8 ins. No blow back during shut-in.  
2nd Open: Very weak, surface blow increasing to 11 1/4 ins. No blow back during shut-in.

Recovered 2 ft. of clean oil = .016340 bbls.  
Recovered 10 ft. of slightly water & mud cut oil = .081700 bbls. (Grind out: 59%-oil; 12%-water; 29%-mud)  
Recovered 190 ft. of slightly oil & water cut mud = .934800 bbls. (Grind out: 2%-oil; 31%-water; 67%-mud)  
Recovered 125 ft. of slightly oil & heavy mud cut water = .615000 bbls. (Grind out: 1%-oil; 53%-water; 46%-mud) Chlorides: 18,000 Ppm PH: 7.5 RW: .45 @ 70°  
Recovered 327 ft. of TOTAL FLUID = 1.647840 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks Tool Sample Grind Out: Trace-oil; 19%-water; 81%-mud

Time Set Packer(s) 6:17 P.M. Time Started off Bottom 9:17 P.M. Maximum Temperature 104°  
Initial Hydrostatic Pressure.....(A) 1485 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 13 P.S.I. to (C) 72 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 937 P.S.I.  
Final Flow Period.....Minutes 60 (E) 77 P.S.I. to (F) 153 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 925 P.S.I.  
Final Hydrostatic Pressure.....(H) 1484 P.S.I.