



Company Molitor Oil, Inc. Lease & Well No. Cross No. 4
 Elevation 1571 KB Formation Viola-Simpson Effective Pay Ft. Ticket No. K057
 Date 11-16-13 Sec. 31 Tap. 295 Range 8W County Kingman State Kansas
 Test Approved By Max N. Lovely Diamond Representative Jason McLemore

Formation Test No. 3 Interval Tested from 4,455 ft. to 4,499 ft. Total Depth 4,499 ft.
 Packer Depth 4,451 ft. Size 8 3/4 in. Packer Depth ft. Size in.
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 Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,437 ft. Recorder Number 5513 Cap. 5,000 psi
 Bottom Recorder Depth (Outside) 4,438 ft. Recorder Number 5588 Cap. 5,000 psi
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Hardt Drilling, LLC - Rig 1 Drill Collar Length 120 ft I.D. 2 1/4
 Mud Type Chemical Viscosity 53 Weight Pipe Length ft I.D.
 Weight 8.2 Water Loss 9.0 cc Drill Pipe Length 4,303 ft I.D. 3 1/2
 Chlorides 4,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-FH
 Jars: Make Sterling Serial Number 7 Anchor Length 12' perf. w/31" drill pipe Size 4 1/2-FH
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH

Blow: 1st Open: Good blow increasing. Off bottom of bucket in 7 mins. Blow back increasing to 1 1/8 ins.
 2nd Open: Good blow increasing. Off bottom of bucket in 8 mins. Blow back increasing to 1 in.

Recovered 1,000 ft. of muddy water = 13.113800 bbls. (Grind out: 75% water; 25% mud) Chlorides: 85,000 Ppm PH: 7.0 RW: .30 @ 60'
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks Tool Sample Grind Out: Muddy water w/oil scum

Time Set Packer(s) 10:57 P.M. Time Started off Bottom 2:42 A.M. Maximum Temperature 135°
 Initial Hydrostatic Pressure.....(A) 2115 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 21 P.S.I. to (C) 212 P.S.I.
 Initial Closed In Period.....Minutes 45 (D) 1626 P.S.I.
 Final Flow Period.....Minutes 60 (E) 208 P.S.I. to (F) 452 P.S.I.
 Final Closed In Period.....Minutes 90 (G) 1627 P.S.I.
 Final Hydrostatic Pressure.....(H) 2059 P.S.I.