



**DIAMOND TESTING, LLC**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (620) 653-7550 • (800) 542-7313  
 MOLITORRST1

Company Molitor Oil, Inc. Lease & Well No. Molitor "R"  
 Elevation 1643 KB Formation Swope/Hertha Effective Pay \_\_\_\_\_ Ft. Ticket No. F402  
 Date 8-2-15 Sec. 30 Twp. 29S Range 8W County Kingman State Kansas  
 Test Approved By Max R. Lovely Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3,877 ft. to 3,947 ft. Total Depth 3,947 ft.  
 Packer Depth 3,872 ft. Size 8 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3,877 ft. Size 8 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,860 ft. Recorder Number 5951 Cap. 5,000 psi.  
 Bottom Recorder Depth (Outside) 3,878 ft. Recorder Number 5584 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 in.  
 Mud Type Chemical Viscosity 48 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
 Weight 9.4 Water Loss 9.6 cc. Drill Pipe Length 3,724 ft. I.D. 3 1/2 in.  
 Chlorides 4,000 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Jars: Make Starling Serial Number 5 Anchor Length 37" perf. w/33' drill pipe 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 1/2-XH in.

Blow 1st Open: Strong blow increasing. Off bottom of bucket in 2 mins. 3 in. blow back during shut-in.  
2nd Open: Strong blow increasing. Off bottom of bucket in 2 mins. 11 in. blow back during shut-in.

Recovered 1,350 ft. of gas in pipe  
 Recovered 40 ft. of slightly oil specked mud = 589000 bbls. (Grind out: 1%-oil, 99%-mud)  
 Recovered 190 ft. of mud cut, gassy, oily, water = 2,703,700 bbls. (Grind out: 25%-gas, 30%-oil, 30%-water, 15%-mud)  
 Recovered 120 ft. of oil specked, mud cut water = 590430 bbls. (Grind out: 2%-oil, 80%-water, 18%-mud)  
 Recovered 350 ft. of TOTAL FLUID = 3,803,300 bbls Chlorides: 71,000 Ppm PH: 7.0 RW: 12 @ 70"  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Remarks \_\_\_\_\_

Time Set Packer(s) 11:53 P.M. Time Started off Bottom 3:23 A.M. Maximum Temperature 119°  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1802 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 27 P.S.I. to (C) 99 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 45 (D) 1050 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 45 (E) 99 P.S.I. to (F) 158 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 90 (G) 1069 P.S.I.  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 1802 P.S.I.





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 MOLITORRST2

Company Molitor Oil, Inc. Lease & Well No. Molitor 'R'  
 Elevation 1643 KB Formation Mississippi Effective Pay      Ft. Ticket No. F403  
 Date 8-4-15 Sec. 30 Twp. 29S Range 8W County Kingman State Kansas  
 Test Approved By Max R. Lovely Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 4,208 ft to 4,218 ft Total Depth 4,218 ft  
 Packer Depth 4,203 ft Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Packer Depth 4,208 ft Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,191 ft Recorder Number 5951 Cap 5,000 psi.  
 Bottom Recorder Depth (Outside) 4,209 ft Recorder Number 5584 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 in  
 Mud Type Chemical Viscosity 48 Weight Pipe Length      ft I.D.      in.  
 Weight 9.4 Water Loss 9.8 cc. Drill Pipe Length 4,055 ft I.D. 3 1/2 in.  
 Chlorides 8,500 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in  
 Jars: Make Sterling Serial Number 6 Anchor Length 10 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 1/2-XH in.

Blow 1st Open: Strong blow increasing. Off bottom of bucket in 2 1/4 mins. Gas to surface in 27 mins. No blow back during shut-in.  
 2nd Open: Strong blow increasing. Off bottom of bucket in 5 secs. Gauged gas. No blow back during shut-in. (SEE GAS VOLUME REPORT)

Recovered 80 ft. of drilling mud = 302800 bbls. (Grind out: 100% mud)  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks     

Time Set Packer(s) 4:50 A.M. Time Started off Bottom 8:35 A.M. Maximum Temperature 120'  
 Initial Hydrostatic Pressure..... (A) 2031 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 33 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 649 P.S.I.  
 Final Flow Period..... Minutes 60 (E) 21 P.S.I. to (F) 75 P.S.I.  
 Final Closed In Period..... Minutes 90 (G) 644 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2028 P.S.I.





**DIAMOND TESTING, LLC**  
 P.O. Box 157  
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 (620) 653-7550 • (800) 642-7313  
 MOLITORRDST3

Company Moltor Oil, Inc. Lease & Well No Moltor "R"  
 Elevation 1543 KB Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No F404  
 Date 8-4-15 Sec 30 Twp 29S Range 8W County Kingman State Kansas  
 Test Approved By Max R. Lovely Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 4,222 ft. to 4,238 ft. Total Depth 4,238 ft.  
 Packer Depth 4,217 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 4,222 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,205 ft. Recorder Number 5951 Cap 5,000 psi.  
 Bottom Recorder Depth (Outside) 4,223 ft. Recorder Number 5584 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 in.  
 Mud Type Chemical Viscosity 48 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
 Weight 9.2 Water Loss 9.6 cc. Drill Pipe Length 4,069 ft. I.D. 3 1/2 in.  
 Chlorides 4,800 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Jars: Make Sterling Serial Number 5 Anchor Length 16 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 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 15 secs. Gas to surface in 8 mins. Bottom of bucket blow back during shut-in.  
2nd Open: Strong blow increasing. Off bottom of bucket in 8 secs. Gauged gas. Bottom of bucket blow back during shut-in. (SEE GAS VOLUME REPORT)

Recovered 920 ft. of clean gassy oil = 13.091600 bbls. (Gravity: 31 @ 60°)  
 Recovered 90 ft. of mud & water cut, gassy oil = .442800 bbls. (Grind out: 40%-gas, 20%-water, 30%-oil, 10%-mud)  
 Recovered 30 ft. of water = .147800 bbls. (Grind out: 100%-water) Chlorides: 99,000 Ppm PH: 7.8 RW: 08 @ 70°  
 Recovered 1,040 ft. of TOTAL FLUID = 13.682200 bbls.  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Remarks \_\_\_\_\_

Time Set Packer(s) 6:50 P.M. Time Started off Bottom 9:50 P.M. Maximum Temperature 119°  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 2022 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 75 P.S.I. to (C) 181 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 45 (D) 654 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 45 (E) 142 P.S.I. to (F) 281 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 60 (G) 654 P.S.I.  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 2018 P.S.I.



**DIAMOND TESTING GENERAL REPORT****Jake Fahrenbruch, Tester**

Cell: (620) 262-0977 / Office: (800) 542-7313

**DIAMOND TESTING****TEST INFORMATION**

Well Name	Molitor "R"
Company Name	Molitor Oil, Inc.
Formation	DST #3, Mississippi, 4222'-4238'
Test Type	Bottom-Hole w/ J&Jnt
Surface Location	Sec 30-29s-8w-Kingman Co.-KS
KB Elevation (31.)	1643.000
Gauge Name	5951
Start Test Date	2015/08/04
Start Test Time	16:55:00
Final Test Date	2015/08/05
Final Test Time	01:15:00
Job Number	F404
Contact	Mark Molitor
Site Contact	Max Lovely

**TEST RESULTS**

Initial flow, BOB in 15 seconds. GTS in 8 minutes. Blowback @ BOB.  
 Final flow, BOB in 5 seconds. Gauged gas. Blowback @ BOB.

**TOTAL RECOVERED FLUID: 1040'**

920' Clean Gassy Oil

90' M&amp;WGO

30' Water

40% gas, 30% oil, 20% wtr, 10% mud

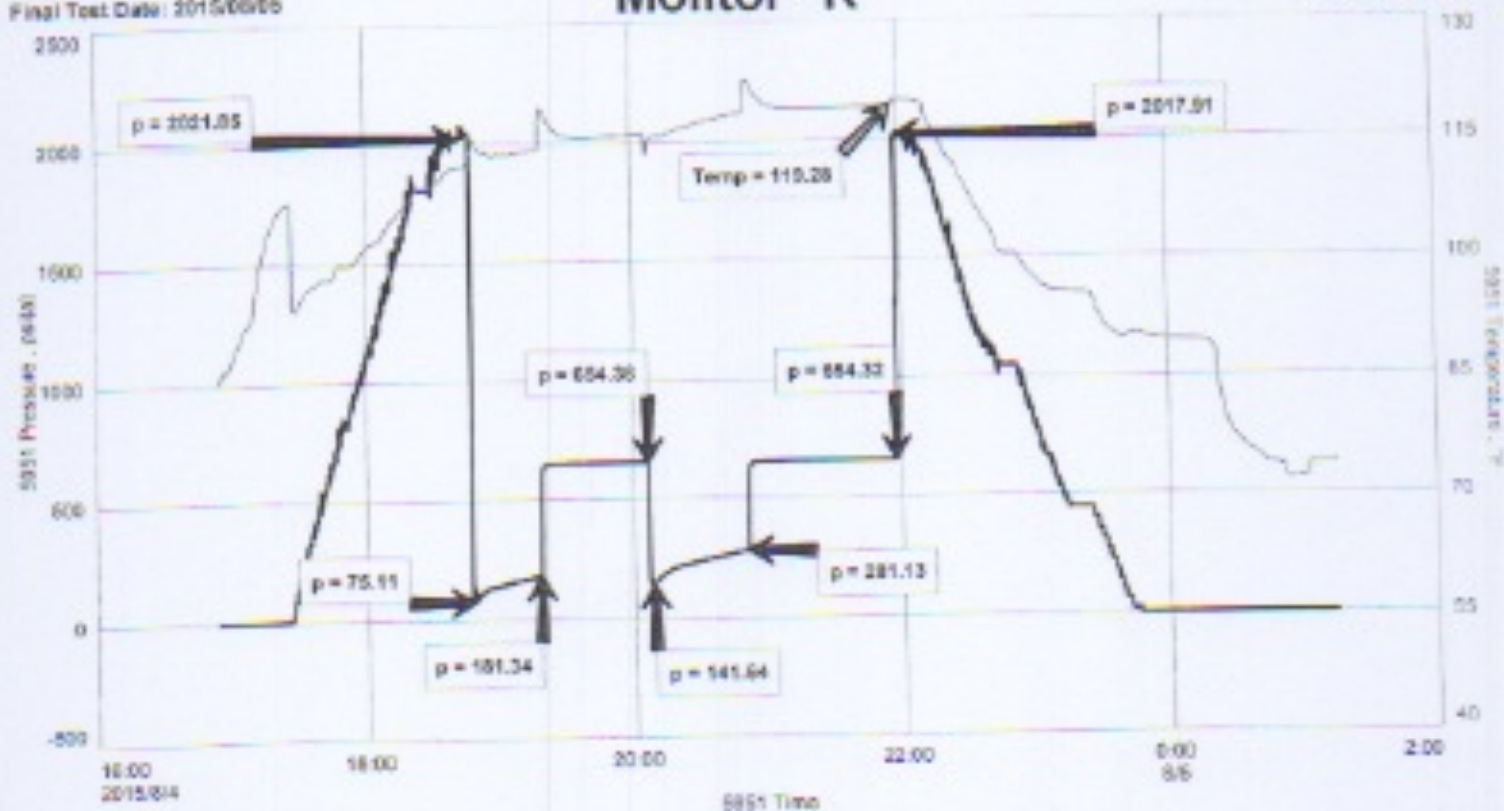
100% wtr

--- Gravity: 31 @ 60F ---

--- Chlorides: 99,000 PPM --- PH: 7.0 --- RW: .08 cfm @ 70 F ---

Molitor Oil, Inc.  
 DST #3 Mississippi 4222'-4238'  
 Start Test Date: 2015/08/04  
 Final Test Date: 2015/08/05

Molitor "R"  
 Formation: DST #3 Mississippi 4222'-4238'  
 Pool: Infield  
 Job Number: F404

**Molitor "R"**





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 MOLITORRST4

Company Molitor Oil, Inc. Lease & Well No. Molitor "R"  
 Elevation 1643 KB Formation Viola Effective Pay \_\_\_\_\_ Ft. Ticket No. F405  
 Date 8-6-15 Sec. 30 Twp. 29S Range 8W County Kingman State Kansas  
 Test Approved By Max R. Lovely Diamond Representative Jake Fahrenbruch

Formation Test No. 4 Interval Tasted from 4,473 ft. to 4,524 ft. Total Depth 4,524 ft.  
 Packer Depth 4,468 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 4,473 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,456 ft. Recorder Number 5851 Cap. 5,000 psi.  
 Bottom Recorder Depth (Outside) 4,474 ft. Recorder Number 5584 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 in.  
 Mud Type Chemical Viscosity 45 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
 Weight 9.2 Water Loss 9.8 cc Drill Pipe Length 4,320 ft. I.D. 3 1/2 in.  
 Chlorides 5,000 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Jars: Make Sterling Serial Number 5 Anchor Length 17' perf. w/34' drill pipe 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 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 6 mins. No blow back during shut-in.  
 2nd Open: Strong blow increasing. Off bottom of bucket in 4 mins. No gas to surface. Bottom of bucket blow back during shut-in.

Recovered 600 ft. of gas in pipe  
 Recovered 20 ft. of water & oil cut, gassy mud = .284800 bbls. (Grind out: 45%-gas, 10%-oil, 5%-water, 40%-mud)  
 Recovered 186 ft. of oil cut, heavy gas cut, maddy water = 2.846780 bbls. (Grind out: 25%-gas, 13%-oil, 35%-water, 27%-mud)  
 Recovered 124 ft. of slightly gas cut, oil & mud cut water = .647320 bbls. (Grind out: 6%-gas, 10%-oil, 62%-water, 22%-mud)  
 Recovered 330 ft. of TOTAL FLUID = 3.578700 bbls. Chlorides: 62,500 Ppm PH: 7.0 RW: .09 @ 75°  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks \_\_\_\_\_

Time Set Packer(s) 3:57 A.M. Time Started off Bottom 6:57 A.M. Maximum Temperature 128°  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 2205 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 25 P.S.I. to (C) 107 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 45 (D) 1472 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 45 (E) 117 P.S.I. to (F) 165 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 60 (G) 1478 P.S.I.  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 2204 P.S.I.





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 MOLITORRDST5

Company Molitor Oil, Inc. Lease & Well No Molitor "R"  
 Elevation 1643 KB Formation Simpson Effective Pay \_\_\_\_\_ Ft. Ticket No. F405  
 Date 8-7-15 Sec. 30 Twp. 29S Range 8W County Kingman State Kansas  
 Test Approved By Max R. Lovely Diamond Representative Jake Fahrenbruch

Formation Test No. 5 Interval Tested from 4,550 ft. to 4,559 ft. Total Depth 4,559 ft.  
 Packer Depth 4,545 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 4,550 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,533 ft. Recorder Number 5951 Cap. 5,000 psi.  
 Bottom Recorder Depth (Outside) 4,551 ft. Recorder Number 5584 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 in.  
 Mud Type Chemical Viscosity 45 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
 Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 4,397 ft. I.D. 3 1/2 in.  
 Chlorides 6,500 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Jars: Make Sterling Serial Number 5 Anchor Length 9 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 1/2-XH in.

Blow: 1st Open: Weak, surface blow. Died in 10 mins. No blow back during shut-in.  
 2nd Open: No blow. No blow back during shut-in.

Recovered 5 ft. of drilling mud = 024600 bbls.  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Remarks \_\_\_\_\_

Time Set Packer(s) 12:50 A.M. Time Started off Bottom 2:50 A.M. Maximum Temperature 123°  
 Initial Hydrostatic Pressure \_\_\_\_\_ (A) 2210 P.S.I.  
 Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 7 P.S.I. to (C) 11 P.S.I.  
 Initial Closed In Period \_\_\_\_\_ Minutes 30 (D) 42 P.S.I.  
 Final Flow Period \_\_\_\_\_ Minutes 30 (E) 10 P.S.I. to (F) 11 P.S.I.  
 Final Closed In Period \_\_\_\_\_ Minutes 30 (G) 23 P.S.I.  
 Final Hydrostatic Pressure \_\_\_\_\_ (H) 2209 P.S.I.