

**DIAMOND TESTING, LLC**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (620) 653-7550 • (800) 542-7313  
 NIGHTENGALE2DST1

Company Nor-West Kansas Oil, LLC Lease & Well No. Nightengale No. 2  
 Elevation 3075 KB Formation Lansing "L" Effective Pay      Ft. Ticket No. F201  
 Date 11-16-13 Sec. 22 Twp. 17S Range 34W County Scott State Kansas  
 Test Approved By Sean P. Deenihan Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 4,344 ft. to 4,363 ft. Total Depth 4,363 ft.  
 Packer Depth 4,339 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Packer Depth 4,344 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,322 ft. Recorder Number 0062 Cap. 5,000 psi.  
 Bottom Recorder Depth (Outside) 4,345 ft. Recorder Number 5951 Cap. 5,000 psi.  
 Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

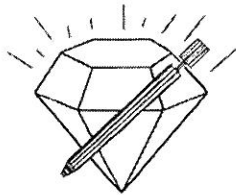
Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 122 ft I.D. 2 1/4 in.  
 Mud Type Chemical Viscosity 50 Weight Pipe Length      ft I.D.      in.  
 Weight 9.3 Water Loss 8.4 cc. Drill Pipe Length 4,189 ft I.D. 3 1/2 in.  
 Chlorides 4,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
 Jars: Make Sterling Serial Number 5 Anchor Length 19 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: Surface blow increasing to 2 ins. No blow back during shut-in.  
 2nd Open: No blow increasing to 1 in. No blow back during shut-in.

Recovered 70 ft. of drilling mud = .344400 bbls. (Grind out: 100%-mud)  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks Tool Sample Grind Out: Less than 1%-oil; More than 99%-mud

Time Set Packer(s) 8:52 P.M. Time Started off Bottom 10:52 P.M. Maximum Temperature 113°  
 Initial Hydrostatic Pressure.....(A) 2140 P.S.I.  
 Initial Flow Period.....Minutes 30 (B) 8 P.S.I. to (C) 36 P.S.I.  
 Initial Closed In Period.....Minutes 30 (D) 1271 P.S.I.  
 Final Flow Period.....Minutes 30 (E) 37 P.S.I. to (F) 61 P.S.I.  
 Final Closed In Period.....Minutes 30 (G) 1270 P.S.I.  
 Final Hydrostatic Pressure.....(H) 2140 P.S.I.



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NIGHTENGALE2DST2

Company Nor-West Kansas Oil, LLC Lease & Well No. Nightengale No. 2  
Elevation 3075 KB Formation Pleasanton Effective Pay      Ft. Ticket No. F202  
Date 11-17-13 Sec. 22 Twp. 17S Range 34W County Scott State Kansas  
Test Approved By Sean P. Deenihan Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 4,395 ft. to 4,430 ft. Total Depth 4,430 ft.  
Packer Depth 4,390 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 4,395 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,373 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 4,396 ft. Recorder Number 5951 Cap. 5,000 psi.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

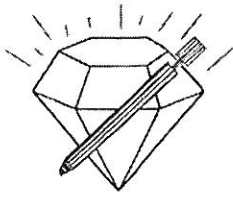
Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 122 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 63 Weight Pipe Length      ft I.D.      in.  
Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 4,240 ft I.D. 3 1/2 in.  
Chlorides 9,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 35 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: Surface blow increasing to 4 3/4 ins. No blow back during shut-in.  
2nd Open: Surface blow increasing to 3 1/2 ins. No blow back during shut-in.

Recovered 40 ft. of drilling mud = .457480 bbls. (Grind out: 100%-mud)  
Recovered 110 ft. of mud cut water with a trace of oil = .541200 bbls. (Grind out: Trace-oil; 85%-water; 15%-mud)  
Recovered 150 ft. of TOTAL FLUID = .998680 bbls.  
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of     

Remarks Tool Sample Grind Out: 1%-oil; 90%-water; 9%-mud (Chlorides: 21,000 Ppm PH: 9.0 RW: .28 @ 60°)

Time Set Packer(s) 11:42 A.M. Time Started off Bottom 2:12 P.M. Maximum Temperature 114°  
Initial Hydrostatic Pressure.....(A) 2169 P.S.I.  
Initial Flow Period.....Minutes 45 (B) 11 P.S.I. to (C) 72 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 1217 P.S.I.  
Final Flow Period.....Minutes 45 (E) 74 P.S.I. to (F) 95 P.S.I.  
Final Closed In Period.....Minutes 30 (G) 1212 P.S.I.  
Final Hydrostatic Pressure.....(H) 2167 P.S.I.



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NIGHTENGALE2DST3

Company Nor-West Kansas Oil, LLC Lease & Well No. Nightengale No. 2  
Elevation 3075 KB Formation Marmaton Effective Pay      Ft. Ticket No. F203  
Date 11-18-13 Sec. 22 Twp. 17S Range 34W County Scott State Kansas  
Test Approved By Sean P. Deenihan Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 4,416 ft. to 4,494 ft. Total Depth 4,494 ft.  
Packer Depth 4,411 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 4,416 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,396 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 4,460 ft. Recorder Number 5951 Cap. 5,000 psi.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

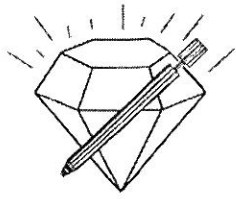
Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 122 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 55 Weight Pipe Length      ft I.D.      in.  
Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 4,261 ft I.D. 3 1/2 in.  
Chlorides 9,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 43' perf. w/ 35' drill pipe 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: Surface blow increasing to 3 1/2 ins. No blow back during shut-in.  
2nd Open: Surface blow increasing to 2 1/2 ins. No blow back during shut-in.

Recovered 135 ft. of slightly mud cut water = .785230 bbls. (Grind out: 95%-water; 5%-mud) Chlorides: 25,000 Ppm PH: 8.0 RW: .25 @ 52°  
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of     

Remarks     

Time Set Packer(s) 6:52 A.M. Time Started off Bottom 8:52 A.M. Maximum Temperature 115°  
Initial Hydrostatic Pressure.....(A) 2166 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 11 P.S.I. to (C) 50 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 1235 P.S.I.  
Final Flow Period.....Minutes 30 (E) 52 P.S.I. to (F) 75 P.S.I.  
Final Closed In Period.....Minutes 30 (G) 1220 P.S.I.  
Final Hydrostatic Pressure.....(H) 2166 P.S.I.



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NIGHTENGALE2DST4

Company Nor-West Kansas Oil, LLC Lease & Well No. Nightengale No. 2  
Elevation 3075 KB Formation Altamont Effective Pay      Ft. Ticket No. F204  
Date 11-18-13 Sec. 22 Twp. 17S Range 34W County Scott State Kansas  
Test Approved By Sean P. Deenihan Diamond Representative Jake Fahrenbruch

Formation Test No. 4 Interval Tested from 4,492 ft. to 4,522 ft. Total Depth 4,522 ft.  
Packer Depth 4,487 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 4,492 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,470 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 4,493 ft. Recorder Number 5951 Cap. 5,000 psi.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

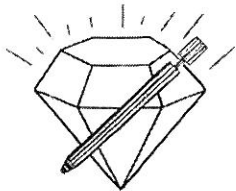
Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 122 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 56 Weight Pipe Length      ft I.D.      in.  
Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 4,337 ft I.D. 3 1/2 in.  
Chlorides 9,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 30 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 blow increasing to 1 in., then decreasing to 1/2 in. No blow back during shut-in.  
2nd Open: No blow. No blow back during shut-in.

Recovered 1 ft. of drilling mud = .004920 bbls.  
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of     

Remarks     

Time Set Packer(s) 7:57 P.M. Time Started off Bottom 9:12 P.M. Maximum Temperature 106°  
Initial Hydrostatic Pressure.....(A) 2222 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 9 P.S.I. to (C) 10 P.S.I.  
Initial Closed In Period.....Minutes 15 (D) 11 P.S.I.  
Final Flow Period.....Minutes 15 (E) 9 P.S.I. to (F) 10 P.S.I.  
Final Closed In Period.....Minutes 15 (G) 12 P.S.I.  
Final Hydrostatic Pressure.....(H) 2220 P.S.I.



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NIGHTENGALE2DST5

Company Nor-West Kansas Oil, LLC Lease & Well No. Nightengale No. 2  
Elevation 3075 KB Formation Johnson Effective Pay      Ft. Ticket No. F205  
Date 11-19-13 Sec. 22 Twp. 17S Range 34W County Scott State Kansas  
Test Approved By Sean P. Deenihan Diamond Representative Jake Fahrenbruch

Formation Test No. 5 Interval Tested from 4,665 ft. to 4,745 ft. Total Depth 4,745 ft.  
Packer Depth 4,660 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 4,665 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 4,643 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 4,669 ft. Recorder Number 5951 Cap. 5,000 psi.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 122 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 56 Weight Pipe Length      ft I.D.      in.  
Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 4,510 ft I.D. 3 1/2 in.  
Chlorides 11,000 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 14' perf. w/ 66' drill pipe 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: Surface blow increasing to 1 in. No blow back during shut-in.  
2nd Open: No blow. No blow back during shut-in.

Recovered 10 ft. of drilling mud = .049200 bbls.  
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of     

Remarks     

Time Set Packer(s) 10:47 P.M. Time Started off Bottom 12:02 A.M. Maximum Temperature 110°  
Initial Hydrostatic Pressure.....(A) 2333 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 19 P.S.I.  
Initial Closed In Period.....Minutes 15 (D) 478 P.S.I.  
Final Flow Period.....Minutes 15 (E) 21 P.S.I. to (F) 23 P.S.I.  
Final Closed In Period.....Minutes 15 (G) 630 P.S.I.  
Final Hydrostatic Pressure.....(H) 2331 P.S.I.