



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
HOBBS#2-24DST#1

Company R. L. Investment, LLC Lease & Well No. Hobbs No. 2-24
Elevation 2460 KB Formation Lansing "A" & "B" Effective Pay Ft. Ticket No. P0147
Date 11-30-16 Sec. 24 Twp. 10S Range 25W County Graham State Kansas
Test Approved By Patrick J. Deenihan Diamond Representative Michael Carroll

Formation Test No. 1 Interval Tested from 3,771 ft. to 3,816 ft. Total Depth 3,816 ft.
Packer Depth 3,765 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,771 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,758 ft. Recorder Number 5950 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,808 ft. Recorder Number 0230 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor STP Drilling, LLC - Rig 1 Drill Collar Length 122 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 49 Weight Pipe Length ft I.D. in.
Weight 9.2 Water Loss 7.6 cc. Drill Pipe Length 3,623 ft I.D. 3 1/2 in.
Chlorides 1,500 P.P.M. Test Tool Length 26 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 14' perf. w/31' 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: Tool slid 10 ft. to bottom. 1 in. blow. Bled off. Weak, surface blow increasing to 1 1/4 ins. in 30 mins. No blow back during shut-in.
2nd Open: No blow increasing to 1 1/4 ins. in 45 mins. No blow back during shut-in.

Recovered 127 ft. of mud = .671390 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: 100%-mud w/oil specks >1% oil

Time Set Packer(s) 9:38 P.M. Time Started off Bottom 12:38 A.M. Maximum Temperature 110°
Initial Hydrostatic Pressure.....(A) 1821 P.S.I.
Initial Flow Period.....Minutes 30 (B) 43 P.S.I. to (C) 63 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 908 P.S.I.
Final Flow Period.....Minutes 45 (E) 64 P.S.I. to (F) 77 P.S.I.
Final Closed In Period.....Minutes 60 (G) 903 P.S.I.
Final Hydrostatic Pressure.....(H) 1814 P.S.I.



Hoisington, Kansas

Michael Carroll
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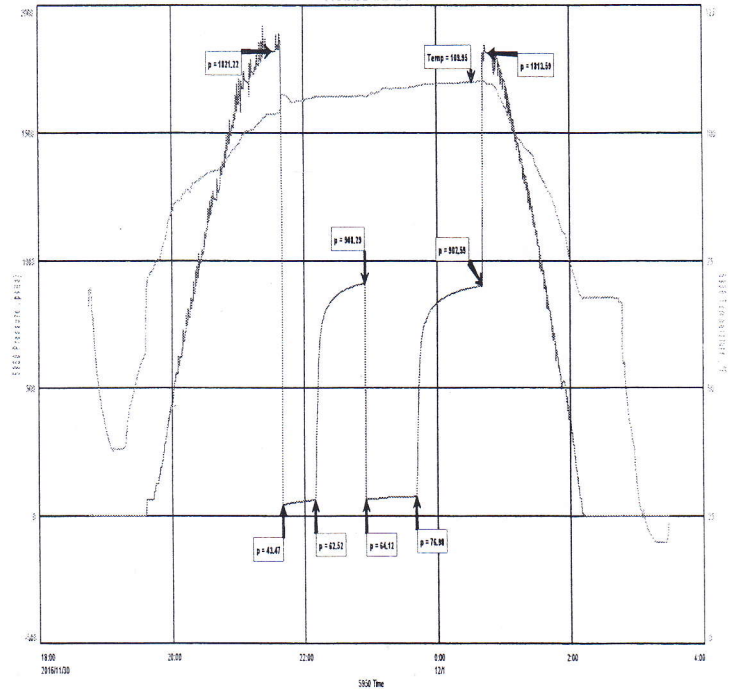
General Information

Company Name R. L. Investment, LLC

Contact	Randall Pfeifer
Well Name	Hobbs #2-24
Unique Well ID	Dst #1 Lans "A&B" 3771-3816'
Surface Location	Sec 24-10s-25w Graham County
Field	Martha Washington East
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	R. L. Investment, LLC

Formation	Dst #1 Lans "A&B" 3771-3816'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2016/11/30
Start Test Time	18:45:00
Final Test Time	03:30:00
Job Number	P0147
Report Date	2016/11/30
Prepared By	Michael Carroll

Hobbs #2-24



TEST RECOVERY

Remarks Recovery: 127' Mud 100% M
 127' Total Fluid
 Tool Sample: 100% M With Oil Specks >1% Oil



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HOBBS#2-24DST#2

Company R. L. Investment, LLC Lease & Well No. Hobbs No. 2-24
Elevation 2460 KB Formation Lansing "D" Effective Pay _____ Ft. Ticket No. P0148
Date 12-1-16 Sec. 24 Twp. 10S Range 25W County Graham State Kansas
Test Approved By Patrick J. Deenihan Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 3,815 ft. to 3,836 ft. Total Depth 3,836 ft.
Packer Depth 3,809 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,815 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,802 ft. Recorder Number 5950 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,819 ft. Recorder Number 0230 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor STP Drilling, LLC - Rig 1 Drill Collar Length 122 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 48 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.3 Water Loss 7.6 cc. Drill Pipe Length 3,667 ft I.D. 3 1/2 in.
Chlorides 2,500 P.P.M. Test Tool Length 26 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 21 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 increasing to 1 1/2 ins. in 30 mins. No blow back during shut-in.

2nd Open: No blow increasing to 1/2 in. in 45 mins. No blow back during shut-in.

Recovered 65 ft. of muddy water = .319800 bbls. (Grind out: 65%-water; 35%-mud) Chlorides: 34,000 Ppm PH: 7.0 RW: .30 @ 55°

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 53%-water; 47%-mud w/a few oil specks

Time Set Packer(s) 4:06 P.M. Time Started off Bottom 7:06 P.M. Maximum Temperature 109°
Initial Hydrostatic Pressure.....(A) 1849 P.S.I.
Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 611 P.S.I.
Final Flow Period.....Minutes 45 (E) 34 P.S.I. to (F) 44 P.S.I.
Final Closed In Period.....Minutes 60 (G) 462 P.S.I.
Final Hydrostatic Pressure.....(H) 1841 P.S.I.



Hoisington, Kansas

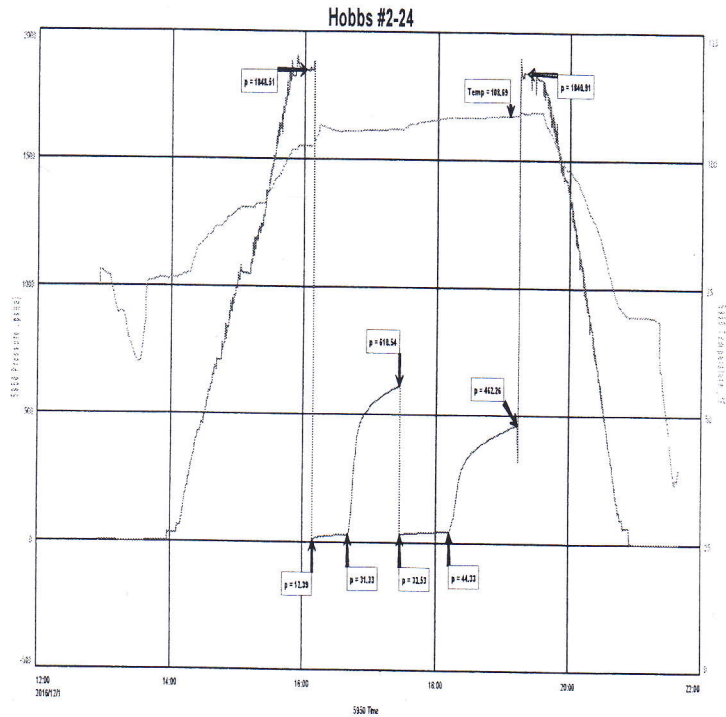
Michael Carroll
 620-617-0368
 carroll.dtlc@gmail.com

General Information

Company Name R. L. Investment, LLC

Contact	Randall Pfeifer
Well Name	Hobbs #2-24
Unique Well ID	Dst #2 Lans "D" 3815-3836'
Surface Location	Sec 24-10s-25w Graham County
Field	Martha Washington East
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	R. L. Investment, LLC

Formation	Dst #2 Lans "D" 3815-3836'
Well Fluid Type	06 Water
Test Purpose	Initial Test
Start Test Date	2016/12/01
Start Test Time	12:55:00
Final Test Time	21:40:00
Job Number	P0148
Report Date	2016/12/01
Prepared By	Michael Carroll



TEST RECOVERY

Remarks Recovery: 65' MW 65% W 35% M
 65' Total Fluid
 Tool Sample: 53% W 47% M With A Few Oil Specks
 Chlorides: 34,000 PPM
 PH: 7
 RW: .3 @ 55 Degrees



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 HOBBS#2-24DST#3

Company R. L. Investment, LLC Lease & Well No. Hobbs No. 2-24
 Elevation 2460 KB Formation Lansing/Kansas City "H" Effective Pay Ft. Ticket No. P0149
 Date 12-2-16 Sec. 24 Twp. 10S Range 25W County Graham State Kansas
 Test Approved By Patrick J. Deenihan Diamond Representative Michael Carroll

Formation Test No. 3 Interval Tested from 3,893 ft. to 3,920 ft. Total Depth 3,920 ft.
 Packer Depth 3,887 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Packer Depth 3,893 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,880 ft. Recorder Number 5950 Cap. 5,000 psi.
 Bottom Recorder Depth (Outside) 3,897 ft. Recorder Number 0230 Cap. 5,000 psi.
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor STP Drilling, LLC - Rig 1 Drill Collar Length 122 ft. I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 53 Weight Pipe Length ft. I.D. in.
 Weight 9.2 Water Loss 7.6 cc. Drill Pipe Length 3,745 ft. I.D. 3 1/2 in.
 Chlorides 2,500 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 27 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 increasing to 1/2 in. in 30 mins. No blow back during shut-in.

2nd Open: No blow. No build. No blow back during shut-in.

Recovered 5 ft. of mud = .024600 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: 100%-mud

Time Set Packer(s) 8:20 P.M. Time Started off Bottom 11:20 P.M. Maximum Temperature 111°
 Initial Hydrostatic Pressure.....(A) 1881 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 14 P.S.I.
 Initial Closed In Period.....Minutes 45 (D) 767 P.S.I.
 Final Flow Period.....Minutes 45 (E) 14 P.S.I. to (F) 17 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 798 P.S.I.
 Final Hydrostatic Pressure.....(H) 1864 P.S.I.



Hoisington, Kansas

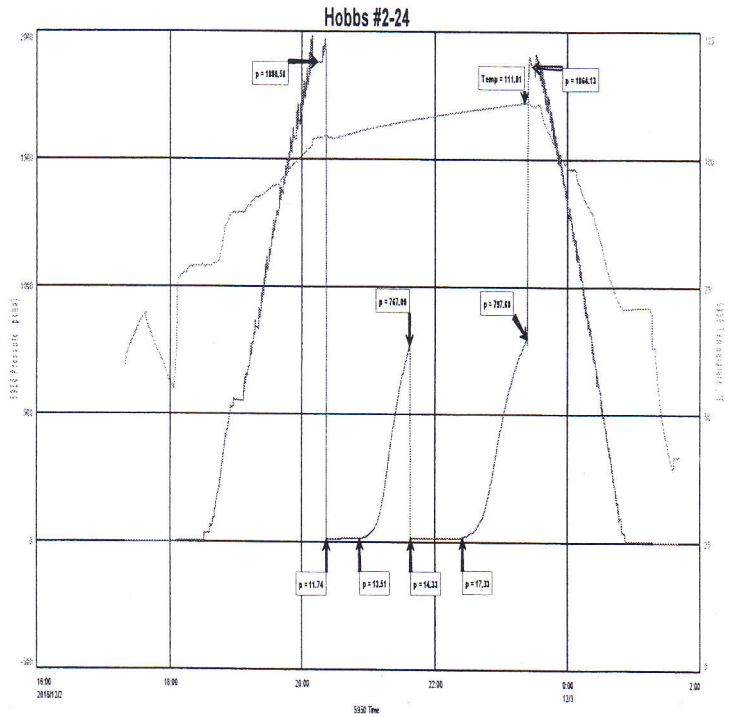
Michael Carroll
 620-617-0368
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General Information

Company Name R. L. Investment, LLC

Contact	Randall Pfeifer
Well Name	Hobbs #2-24
Unique Well ID	Dst #3 Lans/KC "H" 3893-3920'
Surface Location	Sec 24-10s-25w Graham County
Field	Martha Washington East
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	R. L. Investment, LLC

Formation	Dst #3 Lans/KC "H" 3893-3920'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2016/12/02
Start Test Time	17:20:00
Final Test Time	01:40:00
Job Number	P0149
Report Date	2016/12/02
Prepared By	Michael Carroll



TEST RECOVERY

Remarks Recovery: 5' Mud 100% M
 5' Total Fluid
 Tool Sample: 100% M



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HOBBS#2-24DST#4

Company R. L. Investment, LLC Lease & Well No. Hobbs No. 2-24
Elevation 2460 KB Formation Lansing/Kansas City "J" & "K" Effective Pay _____ Ft. Ticket No. P0150
Date 12-3-16 Sec. 24 Twp. 10S Range 25W County Graham State Kansas
Test Approved By Patrick J. Deenihan Diamond Representative Michael Carroll

Formation Test No. 4 Interval Tested from 3,943 ft. to 3,984 ft. Total Depth 3,984 ft.
Packer Depth 3,937 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,943 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,930 ft. Recorder Number 5950 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,947 ft. Recorder Number 0230 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor STP Drilling, LLC - Rig 1 Drill Collar Length 122 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 52 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 3,795 ft I.D. 3 1/2 in.
Chlorides 2,500 P.P.M. Test Tool Length 26 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 41 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: 1/2 in. blow increasing. Off bottom of bucket in 9 mins. 50 secs. 2 in. blow back during shut-in.
2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 45 secs. 8 1/2 in. blow back during shut-in.

Recovered 818 ft. of gas in pipe
Recovered 194 ft. of clean oil = 2.760620 bbls. (Grind out: 100%-oil) Gravity: 32 @ 60°
Recovered 122 ft. of gas cut oily mud = .600240 bbls. (Grind out: 12%-gas; 43%-oil; 45%-mud)
Recovered 316 ft. of TOTAL FLUID = 3.360860 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Tool Sample Grind Out: 72%-oil; 28%-mud

Time Set Packer(s) 4:47 P.M. Time Started off Bottom 7:47 P.M. Maximum Temperature 121°
Initial Hydrostatic Pressure.....(A) 1923 P.S.I.
Initial Flow Period.....Minutes 30 (B) 21 P.S.I. to (C) 77 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 1170 P.S.I.
Final Flow Period.....Minutes 45 (E) 88 P.S.I. to (F) 126 P.S.I.
Final Closed In Period.....Minutes 60 (G) 1093 P.S.I.
Final Hydrostatic Pressure.....(H) 1903 P.S.I.



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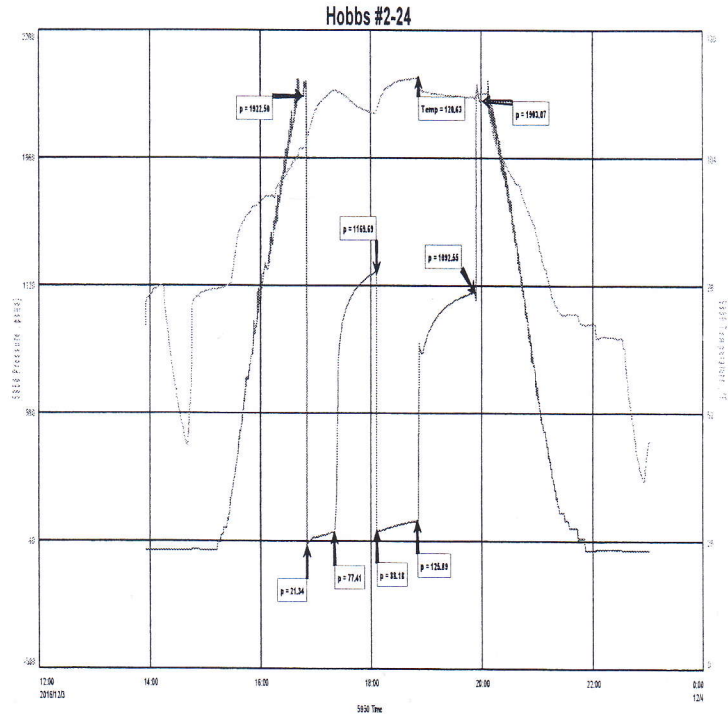
Hoisington, Kansas

General Information

Company Name R. L. Investment, LLC

Contact	Randall Pfeifer
Well Name	Hobbs #2-24
Unique Well ID	Dst #4 Lans/KC "J&K" 3943-3984'
Surface Location	Sec 24-10s-25w Graham County
Field	Martha Washington East
Well Type	Vertical
Test Type	Drill Stem Test
Well Operator	R. L. Investment, LLC

Formation	Dst #4 Lans/KC "J&K" 3943-3984'
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Start Test Date	2016/12/03
Start Test Time	13:55:00
Final Test Time	23:00:00
Job Number	P0150
Report Date	2016/12/03
Prepared By	Michael Carroll



TEST RECOVERY

Remarks Recovery:	818'	Gas In Pipe
	194'	Clean Oil Gravity: 32 @ 60 Degrees
	122'	GCOM 12% G 43% O 45% M
	316'	Total Fluid
Tool Sample:	72% O	28% M