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

PFEIFERTRUST1-8DST1

Date 12-15-16 Sec. 8 Twp. 12S Range 25W County Trego State Kansas Test Approved By Patrick J. Deenihan Diamond Representative Tim Venters Formation Test No. 1 Interval Tested from 3,923 ft. to 3,946 ft. Total Depth 3,946 ft Packer Depth 3,918 ft. Size 6 3/4 in. Packer Depth ft. Size in. Packer Depth 3,923 ft. Size 6 3/4 in. Packer Depth ft. Size in. Depth of Selective Zone Set ft. ft. Recorder Number 5504 Cap. 5,000 pt. Bottom Recorder Depth (Outside) 3,943 ft. Recorder Number 11029 Cap. 5,025 pt.	Company R. L. Investment, LLC	Lease & Well No. Pfeifer Trust No. 1-8			
Date 12-16-16 Sec. 8 Twp 12S Range 25W County Trego State Kansas Tast Approved By Patrick J. Deanlina Diamond Representative Tim Venters	Elevation 2590 KB Formation Lansing "B"			Ticket No. T582	
Time Patrick Deenihan Diamond Representative Time Venters	Date 12-15-16 Sec. 8 Twp. 12S Range		T	17	
Packer Depth	Test Approved By Patrick J. Deenihan [
Packer Depth	Formation Test No. 1 Interval Tested from	3,923 ft. to 3,	,946 ft Total Der	oth 3,946 ft	
Packer Depth					
Depth of Selective Zone Set					
Bottom Recorder Depth (Outside) 3,943 ft. Recorder Number 11029 Cap. 5,025 ft.		_			
Bottom Recorder Depth (Outside) 3,943 ft. Recorder Number 11029 Cap. 5,025 ft.	Top Recorder Depth (Inside) 3,909 ft.	Recorder Num	ber_ 5504	Cap. 5,000 psi.	
Below Straddle Recorder Depth	Bottom Recorder Depth (Outside) 3,943 ft.		11000		
Drilling Contractor STP Drilling, LLC - Rig 1 Drill Collar Length 122 ft I.D. 2 1/4	Below Straddle Recorder Depthft.			Cappsi.	
Mud Type Chemical Viscosity 51 Weight Pipe Length	Drilling Contractor STP Drilling, LLC - Rig 1	Drill Collar Length			
Weight 9.2 Water Loss 7.6 cc. Drill Pipe Length 3.773 ft I.D. 3 1/2	Mud TypeChemicalViscosity51				
Chlorides	Weight 9.2 Water Loss 7.6 cc.		3,773	ft I.D. 3 1/2 in	
Jars: Make	ChloridesP.P.M.				
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	Jars: MakeSterling Serial NumberNot Run				
Main Hole Size	Did Well Flow? No Reversed Out No				
Blow: 1st Open: Weak, 1/4 in. blow increasing to 6 1/4 ins. 1/4 in. blow back during shut-in. 2nd Open: Weak, surface blow increasing to 6 ins. Weak, surface blow back during shut-in. Recovered					
Recovered 60 ft. of muddy water = .295200 bbls. (Grind out: 69%-water; 31%-mud) Recovered 205 ft. of TOTAL FLUID = 1.781330 bbls. Recovered ft. of Recovered ft. of Recovered ft. of Remarks Tool Sample Grind Out: 94%-water; 6%-mud (Chlorides: 46,000 Ppm PH: 6.0 RW: .25 @ 46°) Time Set Packer(s) 10:49 A.M. Time Started off Bottom 1:49 P.M. Maximum Temperature 117° Initial Hydrostatic Pressure. (A) 1915 P.S.I. Initial Flow Period. Minutes 30 (B) 11 P.S.I. to (C) 73 P.S.I. Initial Closed In Period. Minutes 45 (D) 1067 P.S.I. Final Flow Period. Minutes 45 (E) 74 P.S.I to (F) 106 P.S.I. Final Flow Period. Minutes 60 (G) 1008 P.S.I. Final Closed In Period. Minutes 60 (G) 1008 P.S.I.			Ü		
Recovered 60 ft. of muddy water = .295200 bbls. (Grind out: 69%-water; 31%-mud) Recovered 205 ft. of TOTAL FLUID = 1.781330 bbls. Recovered ft. of Recovered ft. of Recovered ft. of Remarks Tool Sample Grind Out: 94%-water; 6%-mud (Chlorides: 46,000 Ppm PH: 6.0 RW: .25 @ 46°) Time Set Packer(s) 10:49 A.M. Time Started off Bottom 1:49 P.M. Maximum Temperature 117° Initial Hydrostatic Pressure. (A) 1915 P.S.I. Initial Flow Period. Minutes 30 (B) 11 P.S.I. to (C) 73 P.S.I. Initial Closed In Period. Minutes 45 (D) 1067 P.S.I. Final Flow Period. Minutes 45 (E) 74 P.S.I to (F) 106 P.S.I. Final Flow Period. Minutes 60 (G) 1008 P.S.I. Final Closed In Period. Minutes 60 (G) 1008 P.S.I.	Recovered 145 ft. of mud cut water = 1.486130 bbls. (Grind out: 91%	-water; 9%-mud)	c		
Recovered					
Recovered ft. of	Recovered 205 ft. of TOTAL FLUID = 1.781330 bbls.	À		5	
Recovered	Recoveredft. of				
Recovered					
Time Set Packer(s) 10:49 A.M. Time Started off Bottom 1:49 P.M. Maximum Temperature 117° Initial Hydrostatic Pressure					
Initial Hydrostatic Pressure (A) 1915 P.S.I. Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 73 P.S.I. Initial Closed In Period Minutes 45 (D) 1067 P.S.I. Final Flow Period Minutes 45 (E) 74 P.S.I. to (F) 106 P.S.I. Final Closed In Period Minutes 60 (G) 1008 P.S.I.	Remarks_Tool Sample Grind Out: 94%-water; 6%-mud (Chloric	des: 46,000 Ppm PH: 6.0	0 RW: .25 @ 46°)	ANALY CONTRACTOR OF THE PROPERTY OF THE PROPER	
Initial Hydrostatic Pressure (A) 1915 P.S.I. Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 73 P.S.I. Initial Closed In Period Minutes 45 (D) 1067 P.S.I. Final Flow Period Minutes 45 (E) 74 P.S.I. to (F) 106 P.S.I. Final Closed In Period Minutes 60 (G) 1008 P.S.I.					
Initial Hydrostatic Pressure (A) 1915 P.S.I. Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 73 P.S.I. Initial Closed In Period Minutes 45 (D) 1067 P.S.I. Final Flow Period Minutes 45 (E) 74 P.S.I. to (F) 106 P.S.I. Final Closed In Period Minutes 60 (G) 1008 P.S.I.					
Initial Flow Period			Maximum Tempe	rature117°	
Initial Closed In Period					
Initial Closed In Period	(D)_	11 P.S.I.	to (C)	73 P.S.I.	
Final Closed In PeriodMinutes60(G)1008 P.S.I.	(D)_	1067 P.S.I.			
	(L)	⁷⁴ P.S.I	to (F)	106 P.S.I.	
Final Hydrostatic Pressure(H)(H)P.S.I.	(G)_				
	Final Hydrostatic Pressure(H)_	P.S.I.			

TESTER: TIM VENTERS CELL # 620-388-6333

General Information

Company Name R. L. INVESTMENT, LLC Contact RANDALL PFEIFER Job Number Well Name PFEIFER TRUST #1-8 Representative

T582 **TIM VENTERS**

Unique Well ID

DST #1, LANSING "B", 3923-3946 Well Operator R. L. INVESTMENT, LLC

Surface Location

SEC 8-12S-25W, TREGO CO. KS. Report Date

2016/12/15 **TIM VENTERS**

Well License Number

Prepared By WILDCAT

Field

Well Type

Vertical

Test Information

Test Type

CONVENTIONAL

Formation Well Fluid Type **DST #1, LANSING "B", 3923-3946**

01 Oil

Test Purpose

Initial Test

Start Test Date

2016/12/15 Start Test Time

07:09:00

Final Test Date

2016/12/15 Final Test Time

16:21:00

Gauge Name

5504

Test Results

RECOVERED: 145' MCW, 91% WATER, 9% MUD 60' MW, 69% WATER, 31% MUD

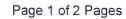
205' TOTAL FLUID

TOOL SAMPLE: 94% WATER, 6% MUD

CHLORIDES: 46,000 ppm

PH: 6.0

RW: .25 @ 46 deg.





P.O. Box 157 HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313 PFEIFERTRUST1-8DST2

Company R. L. Investment, LLC	_Lease & Well No. Pfeifer Tru	st No. 1-8
Elevation 2590 KB Formation Lansing "D"	_ Effective Pay	Ft. Ticket NoT583
Date12-16-16 Sec8Twp12SRange	25W County Trego	State Kansas
Test Approved By Patrick J. Deenihan Di	amond Representative	Tim Venters
Formation Test No. 2 Interval Tested from	3,947 ft. to 3,970 ft.	Total Depth3,970 ft
Packer Depth3,942 ft. Size6 3/4 in.		 ft. Sizein.
Packer Depth3,947 ft. Size6 3/4 in.		 ft. Sizein.
Depth of Selective Zone Setft.		
Top Recorder Depth (Inside) 3,935 ft.	Recorder Number	5504 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,967 ft.	Recorder Number	11029
Below Straddle Recorder Depthft.	Recorder Number	psi.
Drilling Contractor STP Drilling, LLC - Rig 1	Drill Collar Length	122 _{ft} I.D. 2 1/4 _{in.}
Mud Type Chemical Viscosity 51		ft I.Din.
Weight 9.2 Water Loss 7.6 cc.	Drill Pipe Length	3,799 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	23 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No	Surface Choke Size1i	n. Bottom Choke Size5/8_in.
	Main Hole Size7 7/8	n. Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: Good, 1 in. blow increasing. Off bottom of bucket in 6 mins. 2nd Open: Good, 1 in. blow increasing. Off bottom of bucket in 7 1/2 m		in.
Recovered95 ft. of muddy water = 1.351850 bbls. (Grind out: 56%-w	vater; 44%-mud)	
Recovered125 ft. of muddy water = 1.778750 bbls. (Grind out: 67%-w		
Recovered815 ft. of slightly mud cut water = 10.461630 bbls. (Grind of	out: 98%-water; 2%-mud)	
Recovered 1,035 ft. of TOTAL FLUID = 13.592230 bbls.		
Recoveredft. of		
Recoveredft. of	1	
Remarks Tool Sample Grind Out: 100%-water (Chlorides: 67,00	00 Ppm PH: 5.5 RW: .15 @ 5	6°)
Time Set Packer(s)4:41 A.M.	n7:41 A.M Maxii	mum Temperature 125°
Initial Hydrostatic Pressure(A)	1934 P.S.I.	
Initial Flow PeriodMinutes 30 (B)	31 P.S.I. to (C)	262 _{P.S.I.}
Initial Closed In PeriodMinutes45(D)_	1209 P.S.I.	<u>—</u>
Final Flow PeriodMinutes 45 (E)	270 P.S.I to (F)	496 P.S.I.
Final Closed In PeriodMinutes 60 (G)	P.S.I.	5.0
Final Hydrostatic Pressure(H)_	1929 P.S.I.	

TESTER: TIM VENTERS CELL # 620-388-6333

General Information

Company Name R. L. INVESTMENT, LLC Contact RANDALL PFEIFER Job Number Well Name PFEIFER TRUST #1-8 Representative

T583

Unique Well ID

DST #2, LANSING "D", 3947-3970 Well Operator R. L. INVESTMENT, LLC

TIM VENTERS

Surface Location

SEC 8-12S-25W, TREGO CO. KS. Report Date

2016/12/16 **TIM VENTERS**

Well License Number

Prepared By WILDCAT

Field

Well Type

Vertical

Test Information

Test Type Formation

CONVENTIONAL

DST #2, LANSING "D", 3947-3970

01 Oil

Well Fluid Type **Test Purpose**

Initial Test

Start Test Date

2016/12/16 Start Test Time

00:46:00

Final Test Date

2016/12/16 Final Test Time

10:57:00

Gauge Name

5504

Test Results

95' MW, 56% WATER, 44% MUD 125' MW, 67% WATER, 33% MUD 815' SMCW, 98% WATER, 2% MUD

1035' TOTAL FLUID

TOOL SAMPLE: 100% WATER

CHLORIDES: 67,000 ppm

PH: 5.5

RW: .15 @ 56 deg.

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

PFEIFERTRUST1-8DST3

Company R. L. Investment, LLC	Lease & Well No. Pfeifer	Lease & Well No. Pfeifer Trust No. 1-8		
Elevation 2590 KB Formation Lansing "H" & "I"	Effective Pay		t No. T584	
Date12-19-16 Sec8Twp12SRange	05141		Kansas	
Test Approved ByPatrick J. Deenihan	Diamond Representative	T: \(\(\frac{1}{2}\)		
Formation Test No3 Interval Tested from	4,034 ft. to 4,08	⁰ ft. Total Depth_	4,080 ft	
Packer Depthft. Size6 3/4 in.			•	
Packer Depth 4,034 ft. Size 6 3/4 in.		ft. Size		
Depth of Selective Zone Setft.			· · · · · · · · · · · · · · · · · · ·	
Top Recorder Depth (Inside) 4,022 ft.	Recorder Numbe	r5504_ Cap	5,000 _{psi.}	
Bottom Recorder Depth (Outside)ft.	Recorder Numbe	r11029 Cap	5,025 _{psi.}	
Below Straddle Recorder Depthft.	Recorder Numbe		psi.	
Drilling Contractor STP Drilling, LLC - Rig 1	Drill Collar Length	122 ft I.D.	2 1/4 in.	
Mud Type Chemical Viscosity 42	Weight Pipe Length			
Weight 9.4 Water Loss 8.3 cc			3 1/2 in.	
ChloridesP.P.M.	Test Tool Length	26 ft Tool S	size 3 1/2-IF in.	
Jars: Make Sterling Serial Number Not Run	Anchor Length	46_ft. Size_	4 1/2-FH in.*	
Did Well Flow? No Reversed Out No	Surface Choke Size			
	Main Hole Size7		4 1/2-XH in.	
Blow: 1st Open: Weak, surface blow increasing to 6 ins. No blow back du 2nd Open: Weak, surface blow increasing to 10 ins. Weak, surface		T.		
Recovered 420 ft. of gas in pipe				
Recovered 10 ft. of slightly gas cut oil = .142300 bbls. (Grind out:	1%-gas; 99%-oil) Gravity: 40 @ 60°			
Recovered 75 ft. of slightly gas cut, oil cut mud = .490030 bbls. (0	Grind out: 2%-gas; 13%-oil; 85%-muc	i)		
Recovered ft. of slightly gas & water cut, oil cut mud = .295200	bbls. (Grind out: 1%-gas; 21%-oil; 5	%-water; 73%-mud)	The second secon	
Recovered 145 ft. of TOTAL FLUID = .927530 bbls.				
Recoveredft. of		V		
Remarks_Tool Sample Grind Out: 35%-oil; 18%-water; 47%-	mud (Chlorides: 22,000 Ppm	PH: 7.0 RW: .40 @ 50°)	
Time Set Packer(s) 5:25 P.M. Time Started off Bott	om 8:25 P.M.		112°	
Time Set Packer(s) 5.25 P.IVI. Time Started off Bott Initial Hydrostatic Pressure		laximum Temperature	112	
Initial Flow PeriodMinutes 30 (B		73	P.S.I.	
Initial Closed In PeriodMinutes 45 (D		o (C)73	P.S.I.	
Final Flow PeriodMinutes 45 (E		(F)76	S_P.S.I.	
Final Closed In PeriodMinutes 60 (G		, (1)	_г.ә.і.	
Final Hydrostatic Pressure(H	1000			
•				

TESTER: TIM VENTERS CELL # 620-388-6333

General Information

Company Name R. L. INVESTMENT, LLC Contact RANDALL PFEIFER Job Number **Well Name** PFEIFER TRUST #1-8 Representative

TIM VENTERS

Unique Well ID

DST #3, LANSING "H&I", 4034-4080 Well Operator R. L. INVESTMENT, LLC

Surface Location

SEC 8-12S-25W, TREGO CO. KS. Report Date

Prepared By

2016/12/19 **TIM VENTERS**

Well License Number

WILDCAT

Field

Well Type

Vertical

Test Information

Test Type Formation Well Fluid Type CONVENTIONAL

DST #3, LANSING "H&I", 4034-4080

01 Oil

Test Purpose

Initial Test

Start Test Date **Final Test Date** 2016/12/19 Start Test Time

14:26:00

2016/12/19 Final Test Time

23:39:00

Gauge Name

5504

Test Results

RECOVERED: 420' GAS IN PIPE

10' SGCO, 1% GAS, 99% OIL, GRAVITY: 40 75' SGC,OCM, 2% GAS, 13% OIL, 85% MUD

60' SG&WC,OCM, 1% GAS, 21% OIL, 5% WATER, 73% MUD

145' TOTAL FLUID

TOOL SAMPLE: 35% OIL, 18% WATER, 47% MUD

CHLORIDES: 22,000 ppm

PH: 7.0

RW: .40 @ 50 deg.



P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313 PFEIFERTRUST1-8DST4

Company R. L. Investment, LLC Lease & Well No. Pfeifer Trust No. 1-8 Formation Lansing "J" 2590 KB Effective Pay T585 -- Ft. Ticket No. 12S 25W Trego Sec. Kansas Range County State Patrick J. Deenihan Test Approved By Tim Venters Diamond Representative 4,089 ft. to 4,106 ft 4,106 ft Formation Test No. Interval Tested from Total Depth 6 3/4 in. 4,084 ft. Packer Depth Size -- ft. Size Packer Depth -- in. 6 3/4 in. 4,089 ft. Packer Depth -- ft. Size Packer Depth Size -- in. Depth of Selective Zone Set ft. 4,077 ft 5504 5,000 psi. Top Recorder Depth (Inside) Recorder Number Cap. 4,103 ft 11029 5,025 psi. Bottom Recorder Depth (Outside) Recorder Number Cap. Below Straddle Recorder Depth Recorder Number Cap. psi. Drilling Contractor STP Drilling, LLC - Rig 1 122 ft I.D._ 2 1/4 in Drill Collar Length Chemical 54 ⁻⁻ft I.D.____ Mud Type Viscosity Weight Pipe Length 9.4 7.6 3,939 ft I.D. 3 1/2 in Weight Water Loss CC. Drill Pipe Length _____ 3.500 Chlorides P.P.M. ²⁶ ft Tool Size ^{3 1/2-IF} in Test Tool Length Sterling Not Run 4 1/2-FH in 19 ft. Size Jars: Make Serial Number Anchor Length No 1 in. Did Well Flow? 5/8 in. Reversed Out Surface Choke Size Bottom Choke Size 7 7/8 in. 4 1/2-XH in. Main Hole Size Tool Joint Size Blow: 1st Open: Weak, surface blow increasing to 3/4 in. No blow back during shut-in. 2nd Open: Weak, surface blow throughout. No blow back during shut-in. 5 ft of drilling mud = .024600 bbls. Recovered ft. of Recovered ft. of Recovered ft. of _____ Recovered Recovered ft. of Recovered ft. of Remarks Tool Sample Grind Out: Specks-oil; 100%-drilling mud Time Set Packer(s) 11:21 A.M. 2:06 P.M. 110° Time Started off Bottom Maximum Temperature 1983 P.S.I. Initial Hydrostatic Pressure....(A) ⁹ P.S.I. to (C) ¹¹ P.S.I. Initial Flow Period......Minutes (B) 248 P.S.I. 45 Initial Closed In Period......Minutes (D) 45 ¹³ P.S.I to (F)____ 13 P.S.I. Final Flow Period......Minutes 51 P.S.I. Final Closed In Period......Minutes (G) 1976 P.S.I. Final Hydrostatic Pressure....(H)

TESTER: TIM VENTERS CELL # 620-388-6333

General Information

Company Name R. L. INVESTMENT, LLC Contact RANDALL PFEIFER Job Number Well Name PFEIFER TRUST #1-8 Representative

TIM VENTERS

Unique Well ID

DST #4, LANSING "J", 4089-4106 Well Operator R. L. INVESTMENT, LLC

Surface Location

SEC 8-12S-25W, TREGO CO. KS. Report Date

2016/12/20

Well License Number

WILDCAT

Prepared By

TIM VENTERS

Well Type

Vertical

Test Information

Test Type Formation CONVENTIONAL

DST #4, LANSING "J", 4089-4106

01 Oil

Well Fluid Type **Test Purpose**

Initial Test

Start Test Date

2016/12/20 Start Test Time

08:45:00

Final Test Date

2016/12/20 Final Test Time

16:19:00

Gauge Name

5504

Test Results

RECOVERED: 5' DRILLING MUD

TOOL SAMPLE: SPECKS OIL, 100% DRILLING MUD