Confidentiality Requested: Yes No

## KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1267436

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

#### WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Gas D&A ENHR SIGW	Elevation: Ground: Kelly Bushing:
☐ GG ☐ GSW ☐ Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

#### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

### Submitted Electronically

KCC Office Use ONLY				
Confidentiality Requested				
Date:				
Confidential Release Date:				
Wireline Log Received				
Geologist Report Received				
UIC Distribution				
ALT I II III Approved by: Date:				

	Page Two	1267436
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	ical Survey	Yes No	Name	9		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne		tion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD	1		

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					ement Squeeze Record I of Material Used)	Depth			
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	<b>}</b> .	Producing N	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	S.	Gas	Mcf	Wat	ər	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITI	ISPOSITION OF GAS: METHOD OF COMPLE		TION:		PRODUCTION INTER	RVAL:				
Vented Solo	u 🗌 t	Used on Lease		Open Hole	Perf.		Comp.	Commingled		
(If vented, Su	bmit ACC	D-18.)		Other <i>(Specify)</i>		(Submit )	,	(Submit ACO-4)		

Form	ACO1 - Well Completion		
Operator	Prolific Resources LLC		
Well Name	Froetschner 1		
Doc ID	1267436		

All Electric Logs Run

CNL/CDL
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Prolific Resources LLC
Well Name	Froetschner 1
Doc ID	1267436

Tops

Name	Тор	Datum
Anhydrite	1118	+928
Base Anyhydrite	1139	+907
Heebner Shale	3539	-1493
Lansing	3633	-1587
Stark Shale	3856	-1810
Base KC	3923	-1877
Pawnee LS	4021	-1975
Cherokee Sh.	4057	-2011
Miss Osage	4124	-2078
Viola	4161	-2115
Simpson Sh.	4226	-2180
Arbuckle	4276	-2230
Total Depth	4341	-2295



Final Hydrostatic Pressure.....(H)\_

<sup>1941</sup> P.S.I.

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

Page 1 of 2 Pages

STC/Froetschner1dst1

Company Prolific Resources, LLC	Lease & Well No	tschner No. 1	
Elevation 2046 KB Formation Cherokee Sandstone	Effective Pay		Ticket No. J3292
Date <u>9-22-14</u> Sec. <u>11</u> Twp. <u>22S</u> Range	40144	awnee State	Kansas
Pohert T (Poh) Stolalo	Diamond Representative		
Formation Test No1 Interval Tested from	4,054 ft. to 4,0	<sup>80</sup> ft. Total Depth	4,080 <sub>ft</sub>
Packer Depth4,049 ft. Size6 3/4 in.	Packer Depth	ft. Size	
Packer Depth4,054 ft. Size6 3/4 in.		ft. Size	
Depth of Selective Zone Setft.	•		······
Top Recorder Depth (Inside) 4,057 ft.	Recorder Numb	er <u>30046</u> a	o6,000 psi.
Bottom Recorder Depth (Outside) 4,077 ft.	Recorder Numb	40400	o6,000 psi.
Below Straddle Recorder Depthft.	Recorder Numb	er Ca	ppsi.
Drilling Contractor Murfin Drilling Company, Inc Rig 16	Drill Collar Length	30 ft	D 2 1/4 in
Mud Type Chemical Viscosity 52	Weight Pipe Length		Din.
Weight 9.1 Water Loss 8.0 cc.	Drill Pipe Length		D3 1/2 in.
Chlorides 4,300 P.P.M.	Test Tool Length		
Jars: Make <u>Sterling</u> Serial Number <u>1</u>	Anchor Length		
Did Well Flow? No Reversed Out No	Surface Choke Size	4	oke Size 5/8 in.
		- = (2)	Size4 1/2-XH in.
Blow: 1st Open: Strong blow. Gas to surface in 2 mins. Gauged 754 MCF/L	D up to 907 MCF/D at end. No b	ow back during shut-in	
2nd Open: Strong blow. Gas to surface throughout. Gauged 907 MC			
Recovered <sup>1</sup> ft. of <sup>drilling mud = .004920 bbls.</sup>			
Recoveredft. of Recoveredft. of	······································		
Deserved for f	·····	·····	
Recovered ft. of ft. of			
Remarks Tool Sample Grind Out: 100%-mud			
Gas sample taken on 2nd flow.			
Time Set Packer(s) 1:30 P.M. Time Started off Botton	n_ 3:45 P.M. M	laximum Temperatur	e 99°
Initial Hydrostatic Pressure(A)	<sup>1979</sup> P.S.I.	<b>,</b>	
Initial Flow PeriodMinutes15(B)	<sup>188</sup> P.S.I. t	o (C)	196 P.S.I.
Initial Closed In PeriodMinutes 30 (D)	<sup>1297</sup> P.S.I.		
Final Flow PeriodMinutes 30 (E)	<sup>198</sup> P.S.I te	o (F)	<sup>201</sup> P.S.I.
Final Closed In PeriodMinutes 60 (G)	1271 P.S.I.		terre proces



Final Flow Period......Minutes\_

Final Closed In Period......Minutes

Final Hydrostatic Pressure.....(H)

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

Page 1 of 2 Pages

STC/Froetschner1dst2

Company Prolific Resources, LLC	Lease & Well NoFroetschner	No. 1
Elevation 2046 KB Formation Mississippi Osage Chert	Effective Pay	
Date <u>9-23-14</u> Sec. <u>11</u> Twp. <u>22S</u> Range		Management of the second s
T ( Pohert T (Poh) Stolalo	Diamond Representative	
Formation Test No2 Interval Tested from	4,104 ft. to 4,140 ft.	Total Depth 4,140 ft
Packer Depth <sup>4,099</sup> ft. Size <sup>6</sup> <sup>3/4</sup> in.		ft. Sizein.
Packer Depth4,104 ft. Size6 3/4 in.		ft. Sizein.
Depth of Selective Zone Setft.		
Top Recorder Depth (Inside) 4,107 ft.	Recorder Number	30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 4,137 ft.	Recorder Number	<u>13498</u> Cap. <u>6,000</u> psi.
Below Straddle Recorder Depthft.	Recorder Number	
Drilling Contractor Murfin Drilling Company, Inc Rig 16	Drill Collar Length	<u>30 ft</u> I.D. 2 1/4 in
Mud TypeChemical Viscosity52	Weight Pipe Length	<u> </u>
Weight 9.1 Water Loss 8.0 cc.	Drill Pipe Length	4,048 ft I.D. 3 1/2 in.
ChloridesP.P.M.	Test Tool Length	26 ft Tool Size 3 1/2-IF in
Jars: Make Sterling Serial Number 1	Anchor Length	36 ft. Size 4 1/2-FH in.
Did Well Flow? <u>No</u> Reversed Out <u>No</u>	Surface Choke Size <u>1</u> 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: Fair, 5 in. blow. No blow back during shut-in.		
2nd Open: Weak, 3 1/2 in. blow. No blow back during shut-in.	······	
Recoveredft. of slightly gas cut drilling mud w/a few oil specks =	.289900 bbls. (Grind out: 5%-gas; 95%-m	ud)
Recoveredft. of		
Recoveredft. of		······································
Recoveredft. of		
Recoveredft. of		
Recoveredft. of		
Remarks Tool Sample Grind Out: 100%-mud		
Time Set Packer(s) 5:30 A.M. Time Started off Bottor	n_ 9:30 A.M. Maximur	n Temperature 109°
Initial Hydrostatic Pressure(A)	2004 P.S.I.	r
Initial Flow PeriodMinutes 30 (B)	28 P.S.I. to (C)	25 P.S.I.
Initial Closed In PeriodMinutes60(D)	<sup>103</sup> P.S.I.	

60

90

(E)\_

(G)\_

102 P.S.I.

1976 P.S.I.

24 P.S.I to (F)\_\_\_\_ 29 <sub>P.S.I.</sub>



#### **DIAMOND TESTING, LLC** P.O. Box 157 HOISINGTON, KANSAS 67544

Page 1 of 2 Pages

(620) 653-7550 • (800) 542-7313 STC/Froetschner1dst3

Company   Prolific Resources, LLC   Lease & Well No.   Froetschner No. 1     Elevation   2046 KB   Formation Viola   Effective Pay  Ft.   Ticket No.   J3294     Date   9-23-14   Sec.   11   Twp.   22S   Range   18W   County   Pawnee   State   Kansas     Test Approved By   Robert T. (Bob) Stolzle   Diamond Representative   John C. Riedl     Formation Test No.   3   Interval Tested from   4,141 ft. to   4,180 ft.   Total Depth   4,180 ft     Packer Depth   4,136 ft.   Size   6 3/4 in.   Packer Depth  ft.   Size  in.     Packer Depth   4,141 ft.   Size   6 3/4 in.   Packer Depth  ft.   Size  in.     Depth of Selective Zone Set   ft.
Date   9-23-14   Sec.   11   Twp.   22S   Range   18W   County   Pawnee   State   Kansas     Test Approved By   Robert T. (Bob) Stolzle   Diamond Representative   John C. Riedl     Formation Test No.   3   Interval Tested from   4,141 ft. to   4,180 ft.   Total Depth   4,180 ft     Packer Depth   4,136 ft.   Size   6 3/4 in.   Packer Depth
Test Approved By   Robert T. (Bob) Stolzle   Diamond Representative   John C. Riedl     Formation Test No.   3   Interval Tested from   4,141 ft. to   4,180 ft.     Packer Depth   4,136 ft.   Size   6 3/4 in.   Packer Depth  ft.     Packer Depth   4,141 ft.   Size   6 3/4 in.   Packer Depth  ft.   Size     Packer Depth   4,141 ft.   Size   6 3/4 in.   Packer Depth  ft.   Size  in.     Packer Depth   4,141 ft.   Size   6 3/4 in.   Packer Depth  ft.   Size  in.     Depth of Selective Zone Set
Packer Depth   4,136 ft.   Size   6 3/4 in.   Packer Depth   ft.   Size   in.     Packer Depth   4,141 ft.   Size   6 3/4 in.   Packer Depth   ft.   Size   in.     Depth of Selective Zone Set
Packer Depth   4,136 ft.   Size   6 3/4 in.   Packer Depth   ft.   Size   in.     Packer Depth   4,141 ft.   Size   6 3/4 in.   Packer Depth   ft.   Size   in.     Depth of Selective Zone Set
Packer Depth   4,141 ft.   Size   6 3/4 in.   Packer Depth   ft.   Size   in.     Depth of Selective Zone Set
Depth of Selective Zone Setft.
i. Recorder Number Cap. psi.
Below Straddle Recorder Depthft. Recorder Number Cappsi.
Drilling Contractor Murfin Drilling Company, Inc Rig 16 Drill Collar Length 30 ft I.D. 2 1/4 in
Mud Type Chemical Viscosity 49 Weight Pipe Length ——ft I.Din.
Weight     9.1     Water Loss     9.2     cc.     Drill Pipe Length     4,085 ft     I.D.     3 1/2 in.
Chlorides5,000 P.P.M. Test Tool Length26 ft Tool Size3 1/2-IF in
Jars: Make <u>Sterling</u> Serial Number <u>1</u> Anchor Length <u>39</u> ft. Size <u>4 1/2-FH</u> in.
Did Well Flow? No Reversed Out No Surface Choke Size <sup>1</sup> in. Bottom Choke Size <sup>5/8</sup> in.
Main Hole Size7 7/8 in. Tool Joint Size4 1/2-XH in.
Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 5 mins. Weak blow back during shut-in.
2nd Open: Strong blow increasing. Off bottom of bucket in 17 mins. No blow back during shut-in.
Recovered <sup>560</sup> ft. of <sup>gas in pipe</sup>
Recovered 50 ft. of gas & oil cut watery mud = .711500 bbls. (Grind out: 15%-gas; 5%-oil; 80%-mud)
Recovered 60 ft. of mud cut water = .574500 bbls. (Grind out: 80%-water; 20%-mud) Chlorides: 65,000 Ppm
Recovered 110 ft. of TOTAL FLUID = 1.286000 bbis.
Recoveredft. of
Recovered ft. of
Remarks_Tool Sample Grind Out: 100%-water
Time Set Packer(s) 6:40 P.M. Time Started off Bottom 10:40 P.M. Maximum Temperature 116°
Initial Hydrostatic Pressure
Initial Flow PeriodMinutes(R)
Initial Closed In PeriodMinutes60 (D)1140 P.S.I.
Final Flow PeriodMinutes 60 (E) 43 P.S.I to (F) 71 P.S.I.

(G)

90

Final Closed In Period......Minutes\_

Final Hydrostatic Pressure.....(H)\_

1129 P.S.I.

<sup>1984</sup> P.S.I.

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- L GREAT BEND
- KS US
  - 67530
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- o ATTN:

S I T STATE JOB DESCRIPTION Cement-New Well Casing/Pi JOB CONTACT B

DARRELL	WILLINGER
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	ent-New Well Casing/Pi	09/18/2014							
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A-Con Blend Comm			200.00	EA		13.86		2,772.01	
Common Cement	Un		200.00			12.32		2,464.00	
Celloflake			100.00			2.85		284.90	
Calcium Chloride			940.00			0.81		759.9	
"Top Rubber Cmt P	lua. 8 5/8"""		1.00			173.25		173	
"Baffle Plate Alum.			1.00			130.90		130	
"Centralizer, 8 5/8"			3.00			69.30		207	
"Unit Mileage Chg			45.00			3.27		147	
Heavy Equipment N			90.00	MI		5.39		485	
"Proppant & Bulk D	el. Chgs., per ton mil		846.00	EA		1.69		1,433	
Depth Charge; 501	-1000'		1.00	EA		924.00		924	
Blending & Mixing \$	Service Charge		400.00	BAG		1.08		431	
Plug Container Util.	Chg.	. *	1.00	EA		192.50		192.	
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L GREAT BEND		. I	STATE	SCRIPTION	KS	ell Casing/Pi
KSUS 675	30	T E	JOB DE		Cement-New W	err casing/Pr
o ATTN:	DARRELL WILLINGER	-				

JOB #	EQUIPMENT #	PURCHASE	ORDER NO.		TER	MS	DUE 1	DATE
40770443	19843				Net - 3	0 days	10/29,	2014
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171811260A Cem	ent-New Well Casing/Pi	09/25/2014						
Cement 4 1/2" Long	gstring							
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AA2 Cement			175.00	EA		13.09		2,290.75
60/40 POZ			50.00	EA		9.24		462.00
Celloflake			44.00	EA		2.85		125.36
C-41P			42.00	EA		3.08		129.36
Salt			797.00	EA		0.38		306.84
Cement Friction Red	lucer		50.00			4.62		231.00
C-44			165.00	EA		3.97		654.31
FLA-322			83.00	EA		5.77		479.32
Gilsonite			875.00	EA		0.52		451.41
Claymax KCL Subst			7.00			26.95		188.65
	& Baffle, 4 1/2"" (Blu		1.00			284.90		284.9
"Auto Fill Float Sho	ē 8.		1.00	EA		254.10		254.1
"Turbolizer, 4 1/2""			10.00	EA		65.45		654.5
4 1/2" Basket(Blue)	ā		1.00			207.90		207.9
"Unit Mileage Chg (			80.00	MI		3.27		261.8
Heavy Equipment M			160.00			5.39		862.4
······	el. Chgs., per ton mil		832.00			1.69		1,409.4
Depth Charge; 400			1.00	0.000		1,940.40		1,940.4
Blending & Mixing S			225.00			1.08		242.5
Plug Container Util.			1.00	44444121222		192.50		192.5
"Service Supervisor	r, first 8 hrs on loc.		1.00	EA		134.75		134.7
* * * <sup>100</sup>								н ж. п
10 <sup>19-1001</sup> •0.10.00 <sup>19</sup>								a <sup>1</sup>
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