THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

Before Commissioners:

Pat Apple, Chairman Shari Feist Albrecht

Jay Scott Emler

In the matter of the application of Quail Oil) Docket No: 17-CONS-3484-CUIC & Gas, LC to authorize injection of saltwater) into the Arbuckle formation at the Sly 2-6 **CONSERVATION DIVISION**

SWD well, located in the NE NE SE of Section 6, Township 17S, Range 6E in

Morris County, Kansas.

License No. 33185

NOTICE OF FILING OF PRE-FILED TESTIMONY OF WRAY VALENTINE ON BEHALF OF QUAIL OIL & GAS, LC

Quail Oil & Gas, LC hereby provides notice on this 24th day of April 2017 of the filing of the Pre-filed Testimony of Wray Valentine on Behalf of Quail Oil & Gas, LC dated April 20, 2017, a copy of which is attached hereto.

Respectfully submitted,

DEPEW GILLEN RATHBUN & McINTEER, LC 8301 East 21st St. North, Suite 450 Wichita, KS 67206-2936 Office (316) 262-4000 (316) 265-3819 robert@depewgillen.com

By /s/Robert J. Vincze

Robert J. Vincze #14101 Joseph A. Schremmer #25968 Attorneys for Quail Oil & Gas, LC

CERTIFICATE OF SERVICE

I hereby certify that on this 24th day of April 2017, I caused a complete and accurate copy of the foregoing Notice of Filing of the Pre-filed Testimony of Wray Valentine on Behalf of Quail Oil & Gas, LC to be served via U.S. Mail, postage prepaid and properly addressed, to the following:

Robert V. Eye, #10689
Robert V. Eye Law Office, LLC
Suite 1010
4840 Bob Billings Parkway
Lawrence, Kansas 66049
bob@kauffmaneye.com
Attorney for Protestants Elexa Dawson,
Katherine Kelly, Cindy Hoedel,
Regina Compernolle and Karla Jo Grimmett

And delivered electronically to:

Jonathan R. Myers KCC Conservation Division j.myers@kcc.ks.gov

Michael J. Duenes Assistant General Counsel m.duenes@kcc.ks.gov

/s/Robert J. Vincze
Robert J. Vincze #14101

THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

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Docket No: 17-CONS-3484-CUIC

CONSERVATION DIVISION

License No. 33185

PRE-FILED TESTIMONY OF WRAY VALENTINE ON BEHALF OF QUAIL OIL & GAS, LC

- 1 Q. Please state your name, position, employer and office address.
- A. My name is Wray Valentine. I am the Manager of Quail Oil & Gas, LC with a business address of P.O. Box K, Garden City, Kansas 67846.
- 4 Q. Please state your educational background.
- 5 A. I received my high school diploma from Garden City High School, Garden City, Kansas. I
- 6 was awarded my B.S. in Petroleum Engineering from Oklahoma State University in 1989.
- 7 Q. Please summarize your work experience.
- A. 38 years working in all facets of the oil industry, i.e. I have worked as a roustabout and in drilling operations, completions and production. Upon graduation from Oklahoma State
- University, I began my career with Schlumberger as a field engineer primarily in Texas and
- the Mid-Continent. After 5 years with Schlumberger, I worked for Cheyenne Drilling, a
- 12 contract driller, as a drilling manager for the next 12 years. At Cheyenne, I supervised the
- drilling of over 1,000 wells in Kansas and Colorado. Since then I have been a member of
- 14 Quail Oil & Gas, LC. Quail Oil & Gas, LC has drilled over 100 wells in Kansas and also

- has drilled wells in Oklahoma, Illinois and Indiana. Approximately 25% of the production
- 2 from these wells in Kansas is from the Arbuckle formation.
- 3 Q. Please generally describe the operations of Quail Oil & Gas, LC.
- 4 A. It is an oil and gas production and exploration company working mainly in Kansas and
- 5 Oklahoma.
- 6 Q. Are you familiar with the Application filed by Quail Oil & Gas, LC with the Kansas
- 7 Corporation Commission ("Commission") to use the Sly 2-6 well as a saltwater disposal
- well in the Arbuckle formation?
- 9 A. Yes. I have attached a copy of the Application to this Testimony as Exhibit A.
- 10 Q. Did you help prepare such Application?
- 11 A. Yes.
- 12 Q. Is the Application complete and made in accordance with the requirements of K.A.R. 82-3-
- 13 401?
- 14 A. Yes.
- 15 Q. What oil and gas experience do you have with the Arbuckle formation in Morris County
- and Central Kansas?
- 17 A. I have knowledge of the lithology and formation characteristics of the Arbuckle formation.
- Q. What are the characteristics of the Sly 2-6 well that make it a good prospect for a disposal
- well?
- 20 A. The formation has good permeability which makes it an ideal formation to dispose of water
- on a vacuum.
- Q. Why does Quail Oil & Gas, LC want to permit the Sly 2-6 well as a disposal well?
- A. To prevent waste by disposing of produced water from the Sager 1-6 and Sly 1-6 wells,
- 24 which are oil wells, at a lower expense than having to haul water by truck from these wells.

- Having a disposal well will thus make these wells more economic and will extend their
- 2 production.
- 3 Q. What wells are within 1/4 mile radius of the proposed injection well, including all
- 4 abandoned, plugged, producing, and other injection wells?
- 5 A. Just the Sly 1-6 and Sager 1-6 wells.
- 6 Q. What type of fluid do you plan to inject into the Arbuckle formation?
- 7 A. Saltwater from the Sly 1-6 and Sager 1-6 wells. The chlorides from the water from these
- wells are approximately 5000 ppm, which is very low for produced saltwater.
- 9 Q. Will the injection of saltwater into the Arbuckle formation at a perforated depth of 2710 to
- 2730 feet, at a maximum injection rate of 5000 bbls/day and at a maximum injection
- pressure of 650 psig, affect the correlative rights of others in the Camp Creek field or any
- of the producing wells within ¼ mile radius of the proposed injection well?
- 13 A. No.
- 14 Q. In your opinion, will fluids introduced into the proposed injection zone be confined to that
- zone?
- 16 A. Yes.
- 17 Q. What is the depth of any fresh or useable water within ½ mile of the proposed injection
- well?
- 19 A. 120 feet from surface, according to the information provided by both the KCC's and
- 20 Kansas Geological Survey's websites.
- 21 Q. Is the Arbuckle formation into which you plan to dispose of saltwater separated from fresh
- and usable water formations by impervious beds?
- 23 A. Yes, many.
- Q. Have you reviewed publically available information on the United States' Geological

- Survey National Earthquake Information Center (NEIC) website?
- 2 A. Yes, on April 13, 2017.
- 3 Q. As of April 13, 2017, did such NEIC website show any earthquakes since 1990 with an
- 4 epicenter in Morris County, Kansas?
- 5 A. No.
- 6 Q. Does Quail Oil & Gas, LC request that the Commission grant its Application for Injection
- 7 Well?
- 8 A. Yes.
- 9 Q. Does this conclude your testimony?
- 10 A. Yes, and I reserve the right to submit rebuttal testimony.

EXHIBIT LIST FOR PRE-FILED TESTIMONY OF WRAY VALENTINE ON BEHALF OF QUAIL OIL & GAS, LC

1. Exhibit A: Application

VERIFICATION

STATE OF OKLAHOMA)
COUNTY OF PAYNE) ss:
I, Wray Valentine, being duly sworn, upon my oath, state that I have read the foregoing Pre-Filed Testimony to which this verification is attached, that I am aware of its contents, and the statements and attached exhibits are true and correct.
Wray Valentine
SUBSCRIBED AND SWORN to before me on this <u>30</u> day of April 2017.
My commission expires: Votary Public

_____17-02-09 09:07:32 Kansas Corporation Commission /s/ Amy L. Green

Kansas Corporation Commission Oil & Gas Conservation Division

APPLICATION FOR INJECTION WELL

Form U-1 July 2014 Form must be Typed Form must be Signed All blanks must be Filled

Disposal 🗸		Permit Number: U-324	
Enhanced Recovery: Repress	uring	API Number: 15-127-20597-0	00-00
Waterfloo	od	Well Location	7 ·
Tertiary		NE - NE - SE Sec. 6	Twp. 17 S. R. 6 VE W
Date: 1-5-2017		2205	feet from N / 🗸 S Line of Section
	E = 02/20/07	335	feet from E / W Line of Section
Operator License Number: 33185	Cxp. Uxlasii1	GPS Location: Lat: 38.6010453 (e.g. xx.xxxxx)	64 , Long: 96.801970474 (e.gxxx xxxxx)
Operator: Quail Oil & Gas, LC		Datum: NAD27 NAD83	
Address: PO Box K		Lease Description: SE/4 Sec 6-1	7S-6E
Garden City, KS 67846			
		Lease Name: Sly	Well Number: 2-6 SWD
	'	Field Name: Camp Creek	
Contact Person: Wray Valentine		County: Morris	
Phone: 620-271-0236		Deepest Usable Water	Received
		Formation: Unknown	Received KANSAS CORPORATION COMMISSION
Email: wray@wrayzier.com		Depth to Bottom of Formation: 220	JAN 12 2617
			CONSERVATION DIVISION WICHITA, KS
Check One: Old Well Being Con		Well to be Drilled	
Surface Elevation: 1399 feet	Well Total Depth: 2762 feet	Plug Back Depth: 2762 feet	
Datum of top of injection formation: -128	7 feet (reference mean s	sea level)	
Injection Formation Description:			
Name Arbuckle	top / bottom 2681 , 2762	perf / open hole 4 spf	depth 2710 2730
711000110		at .	2710 to 2730 feet
		at .	to feet
List of Wells/Facilities Supplying Production and distance and distanc	oduced Saltwater or Other Fluids A	Approved by the Conservation Div	vision:
(attach additional sheets if necessary) Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
Quail Oil & Gas, LC	Sager 1-6	W/2 Sec 6-17S-6E	12720594 2300'S 2300'W
Quail Oil & Gas, LC	Sly 1-6	SE/4 Sec 6-17S-6E	12720596 2305'SL 335'EL
3. —————			
Producing Formation	Strata Depth	Total Dissolved S	Solids (if available)
Mississippi	2160 2170 feet		KCC CONSERVATION mg/l
Mississippi	2070 2090	The state of the s	PAID
3	to feet		UAN 1 2 2017 mg/l
Maximum Requested Liquid Injection Rate:	E000		AMT. \$ 260.00
Maximum Requested Gas Injection Rate:	scf / day. Type of Gas		1
Maximum Requested Injection Pressure:	650 psig		EXHIBIT
		-i- CA CA- 220 NO-Eig- V C	i
mail to: K	CC - Conservation Division, 266 N Ma	am ol, ole 220. Wichita, Kansas, 67	/!/*!?!\ ■ ₩ /\

Well Completion

Type:

✓ Tubing & Packer

Packerless

Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size	N/A	8 5/8"	N/A	5 1/2"	2 3/8" Lined
Setting Depth		286'		2762'	2665'
Amount of Cement		190 sks		185 sks	N/A
Top of Cement		Surface		1350'	
Bottom of Cement		286'		2762'	

If Alternate II cementing, complete the following:

Perforations / D.V. Tool at ____

feet, cemented to ______ feet with _____ sx.

Packer: Type AD-1

Tubing: Type 2 3/8" Seal Tite

Annulus Corrosion Inhibitor:

Type Nalco CIW2124

Concentration —

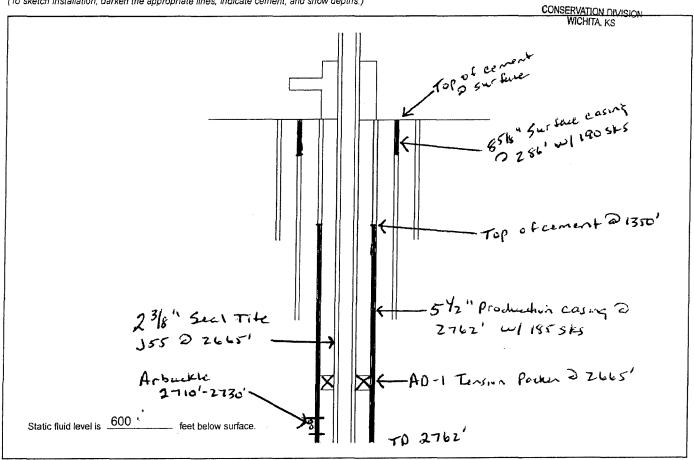
List Logs Enclosed: Cement Bond log

Received KANSAS CORPORATION COMMISSION

Well Sketch

(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)

JAN 12 251/



July 2014 Offset Operators, Unleased Mineral Owners and Landowners acreage (Attach additional sheets if necessary) Name: Legal Description of Leasehold: NO OFFSET OPERATORS WITHIN 1 MILE LEASED MINERAL OWNERS SE/4 Sec 6-17S-6E Doris Sly Marvin Barlow NE/4 Sec 6-17S-6E W/2 Sec 6-17S-6E Tom-Ray Farms, Inc. **UNLEASED MINERAL OWNERS** Schwoeppe Family Limited Partnership Sec 5-17S-6E Barbara Meyers Keys NE/4 Sec 7-17S-6E Sec 8-17S-6E Nancy Landon Kassebaum Received KANSAS CORPORATION COMMISSION JAN 12 2017 I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief. CONSERVATION DIVISION WICHITA, KS Applicant or Duly Authorized Agent _{day of} January Subscribed and sworn before me this 6th MICHELLE FRAZIER Notary Public

Instructions:

1. Fully complete application, including page 4 (plat map) showing subject well and all known oil, gas and input wells, including wells being drilled, inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops.

My Commission Expires:

2. Attach some type of log (drillers log, electric log, etc.).

State of Kansas

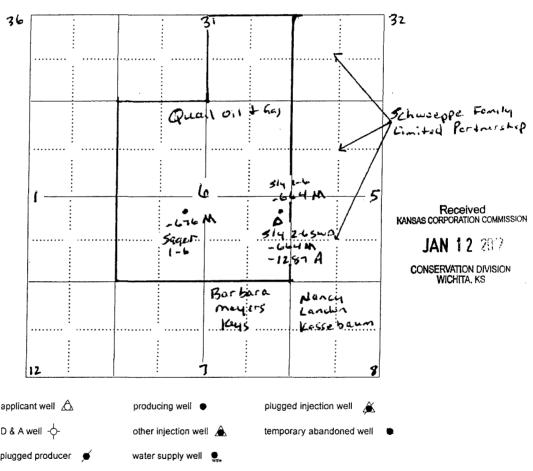
My Commission Expires

- 3. Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (Cement ticket and job log, bond log, etc.)
- 4. Attach Affidavit of Notice.
- 5. Fill in schematic drawing of subsurface facilities including: size, setting depth, amount of cement, measured or calculated tops of cement for each of surface, intermediate (if any) and production casing; size and setting depth of tubing and packer; geological zone of injection showing top and bottom of injection interval.
- 6. The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission. Conservation Division.
- 7. Deliver or mail one (1) copy of the application to the landowner on whose land the injection well is located and to each operator or lessee of record and each unleased mineral rights owner within one-half mile of the applicant well.
- 8. Approval of this application, if granted, is valid only as long as there are no substantial changes in operation set forth in the application. A substantial change requires the approval of a new application. No injection well may be used without prior written authorization.
- 9. All application fees must accompany the application.

Plat and Certificate of Injection Well Location and Surrounding Acreages								
Operator: Quail Oil & Gas, LC	Location of Well: NE NE SE Sec 6-1	17S-6E						
Lease: Sly	2205	feet from N / 🕢 S Line of Section						
Well Number: 2-6 SWD	335	feet from 📝 E / 🗌 W Line of Section						
County: Morris	Sec. 6 Twp. 17	S. R. 6 V East West						

Plat

Show the following information: applicant injection well, all producing wells, inactive wells, plugged wells, and other wells within a one-half mile radius, all lease boundaries, lease operators, unleased mineral rights owners, well numbers, and producing wells producing formation tops.



applicant well		producing well	plugged injection well	
D & A well -	-	other injection well 🛕	temporary abandoned well	•
plugged produ	cer 💉	water supply well		
e undersigned hereby certifies that he / she is sown herein is true, complete and correct to the		•	Valent	, and that all of the information
MICHELLE FRAZIER Notary Public State of Kansas My Commission Expires	Subscribe	ed and sworn before me this 6th	-	2017
		, 55	****	

Affidavit of Notice Served

MICHELLE FRAZIER

Notary Public State of Kansas

My Commission Expires

Anidavit of Notice Served	
Re: Application for: Quail Oil & Gas, LC	
Well Name: Sly 2-6 SWD	Legal Location: 2205' FSL 335' FEL Sec 6-17S-6E
The undersigned hereby certificates that he / she is a duly authorized agent for	or the applicant, and that on the day 6th of January
, a true and correct copy of the application referenced ab	ove was delivered or mailed to the following parties:
Note: A copy of this affidavit must be served as a part of the application.	
Name	Address (Attach additional sheets if necessary)
Doris Sly	1908 400 Rd., Herignton, KS 67449
Marvin Barlow	103 Smith, Burdick, KS 66838
Tom Ray Farms, Inc. Rodney Wilson	PO Box 93, Council Grove, KS 66846
Schwoeppe Family Limited Partnership, Eugene Schwoeppe	2390 Montclair Ave., Cincinnati, OH 45211
Barbara Meyers Keys	1761 S 2800 Rd, Herington, KS 67449
Nancy Landon Kassebaum	2750 Z Ave, Burdick, KS 66838
	Received KANSAS CORPORATION COMMISSION
	JAN 1 2 2017
	CONSERVATION DIVISION WICHITA, KS
I further attest that notice of the filing of this application was published in the Co	puncil Grove Republican , the official county publication
of Morris co	ounty. A copy of the affidavit of this publication is attached.
Signed this 6th day of January , 201	<u>7 </u>

Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address of the protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 30 days of the publication notice of the application.

Subscribed and sworn to before me this 6th day of January

My Commission Expires: ___

12-1-2018

810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561



C nent or Acid Field Report
Ticket No. 3046
Foreman Keyw McCoy
Camp Eureka

Date	Cust. ID#	Lease & Well Num	nber	Section	То	wnship	Range	County	State
11-18-16	1016	Sly #25	WD	6	17)J	6 <i>E</i>	MORRIS	J.'s
Customer		•	Safety	Unit #		Driv	ver	Unit #	Driver
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Mailing Address			KM DG	//2		Steve	07.		
575	INJUSTA	IAL DR RO. BOX K	Sm						
City	i Ciku	State Zip Code 67846							
<u> </u>	Chy	1 1 6/846		<u> </u>					
Job Type Suk	<i>FAC</i> e	Hole Depth <u>-287</u>	12	Slurry Vol. 4/6	B	32	Т	ubing	
Casing Depth	76.94 6	6.4. Hole Size 121/4"		Slurry Vol. 4/2 Slurry Wt. 4/2	18 #		Г	orill Pipe	
Casing Size & M	4 8%" 7	Hole Size 121/4 Cement Left in Casing 1	15	Water Gal/SK				Other	
		Displacement PSI		Bump Plug to				PM	
Remarks: 少	sety Ma	ctung: Rip up to 3% 140 Posmix Coment & Slurry. Disolace c = 8 CAC Slurry	g" Cheszery.	BRUAL O	2002	litical	5/60	BLC TRUSH	wote.
Mixed 190	0 JKS 60	140 POEMIX CEMENT	w/ 3% Cac	6 2% G	.6	1/4 # +1	LSERE,	15% & 14.84	10.01
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							KANSA	8 CORPORATION COMMIS	SION
								JAN 12 2017	***************************************
							CC	NSERVATION DIVISION	1
								WICHITA, KS	

Code	Qty or Units	Description of Product or Services		Unit Price	Total
C /0/	1	Pump Charge		840.00	840-00
2 707	60	Mileage		3.95	237.00
2 203	170 555	60/40 Pozmix Cement		13:75	2422.50
-305	4/90 #	Cácle 3%		.60 #	234.00
306	375#	Gel 2%		. √3 ″	65,00
204	50 #	Flaseac My 1st		2.25 *	112.50
708 A	9.17 Tons	Tow Mileage be miles		1.35	661.77
		THANK YOU		Sak Total	46.32.77
		THE TOWN		Less 5%	242.49
			7.5%	Sales Tax	217.05
Authoriza	ation しかき	CARA Title		Total	4607.33

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561



Coment or Acid Field Report						
Ticket No	3052					
Foreman _	Kevin McCoy					
Camp						

Dat	e (Cust. ID#	Leas	e & Well Number		Section	Township	Range	County	State
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Mallie Address / O/C & O/C & O/C /						//3	Add		teve m).	
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a All	Trans	c plant	Grand Harris	2 mus Rela . Jeb Compl	late K	18 Hours	2000	1 11 672	3, 0-03	<u> </u>
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Code	Qty or	Units	Description of	Product or Servi	ces			Unit P	rice	Total
C 102	/		Pump Charge					1050	1.00	1050.00
C /C7	60		Mileage					1	3.45	237.00
2 201	185	5 5/5	THICK Set	Cement				19.	50 .	3607.50
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208	370	5 * 0 #	Phenoseac -						5 "	462.50
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Authoriz	ation J) (16.1	11 Polls	Title				т.	,	8178.63

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561



_ement or Acid Field Report						
Ticket No.	3052					
Foreman	KEVIN MECOY					
Camp						

							-				
Date	Cust. ID #	Leas	e & Well Number		Section	Tow	ınship	Range	Co	unty	State
11-30-16	1016	5/	# 2 SUD		6	17	S	6E	Mos	CK 15	155
Customer	1.5.9			Safety	Unit#	Ĺ	Driv		Unit #	.,,,	Driver
Qu	RIL 016	\$ GAS LC		Meeting			Alan				
lailing Address					112		<u> Arti</u>		Steve m.		
525	INdustrin	PLDR. P.O.Z	Box K	5m	141		BU &				
744		State	Tin Code	RL							
GARD	en City	1.5	67846								
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asing Dentl	2749.80	8' 6.L. Hale Siz	e 72/8		Slurry Vol Slurry Wt	3.74	,	Г	Orill Pipe		
asing Size	8 WH 51/2 1	5.50 F Cement!	eft in Casing 0		Water Gal/SK	9.0			Other		
isplacemen	166.5 BbC	Displace	ement PSI 800		Bump Plug to	140	0 851	\ F			
											- / -
emarks: \subseteq	196 040	Ermy: 1719	up to 5/2 0	432x19	DREAK CA	KEUT,	ations n # at	CUP PC	1 1 - 1	1275 6	19788.
17/1X est	700 324	THICK SET	Coment w	/ 3	MOLISEAL J.	575 2	× 120	3WO 7 GAZ	- 15 K &	,,,,,	1792,
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I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

PO Box 92 PO Box 92 EUREKA, KS 67045 (620) 583-5561



Ticket No. 3052
Foreman メモルル からしょ

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17-CONS-3484-CUIC



QUAIL OIL & GAS, LC

OIL & GAS PRODUCER

(620) 271-0236 (620) 271-0615 FAX PO Box K

GARDEN CITY, KANSAS 67846

January 6, 2017

KCC- Conservation Division UIC Department 266 N Main St., Ste 220 Wichita, KS 67202-1513

Re: Sly 2-6 SWD Application

Received KANSAS CORPORATION COMMISSION

JAN 12 2017 CONSERVATION DIVISION WICHITA, KS

Dear Sir/Madam:

Please find enclosed the Application for Injection Well and all the necessary paperwork associated with the application. The notice was run in the Council Grove Republican January 6, 2017 and will run again January 16, 2017. The MIT for the well was completed on December 29, 2016 and the local KCC official filed the necessary paperwork.

If there is anything else needed or if you have any questions, please call me at 620-290-1537.

Sincerely,

Quail Oil & Gas, LC

Wuykulf Wray Valentine

Manager

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Jay Scott Emler, Chairman Shari Feist Albrecht, Commissioner Pat Apple, Commissioner

January 13, 2017

WRAY VALENTINE QUAIL OIL & GAS LC P O BOX K GARDEN CITY KS 67846

RE:

Application for Injection Well

D-32,464 Sly #2-6 SWD Sec. 06-17S-06E Morris County

Dear Mr. Valentine:

This letter is to confirm that we received the above referenced application in the KCC-Central Office on January 12, 2017.

Should you have <u>any questions</u> in regards to the application, please do not hesitate to <u>contact Tony Vail</u> at t.vail@kcc.ks.gov or 316-337-6198.

Sincerely,

Cindy Metcalf

UIC/Production Department

Cc:

Tony Vail

file /

Map of Kansas Oil and Gas

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	Oil and Gas										Kansas Ge	ological Survey
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NEW WEIL
CASING MECHANICAL INTEGRITY TEST DOCTET
Disposal Enhanced Recovery: SW NE NE SE, Sec 6, T 17 S, R 6 G
Repressuring 769 Feet from South Section Line
Date injection started Lease 51 / Well = 2
API #15 - 127 - 20597 County MORRIS
Operator: Qual / Elao sum Operator License # 33185 Name & Address 525 Ludustria Drive Contact Person Daron Fatteson
Address 525 Industrial DRIVE Contact Person JARON HOTELSON GARDEN CHUKKLISH Sphone 620 5390464 620-271-02
Max. Auth. Injection Press. psi; Max. Inj. Rate bbl/d; If Dual Completion - Injection above production
Conductor Surface Production Liner Tubing Size Size Size Size
Set at $\frac{236}{5mface}$ $\frac{2757}{1350}$ Set at $\frac{7668}{5m17c}$
" Bottom
Packer type Prike, AD / Tension Size 238 x53" Set at 2665"
Zone of injection grackle it. to ft. 2710-2730 (Peri) or open hole for
Type Mit: Pressure X Radioactive Tracer Survey Temperature Survey
F Time: Start 805 Min. 820 Min. 835 Min.
E Pressures: 305 305 Set up 1 System Pres. during test
D Set up 2 Annular Pres. during test
Set up 3 Fluid loss during test bbls.
Tested: Casing or Casing - Tubing Annulus X JAN 1 7 2017
The bottom of the tested zone is shut in with Packet Williams
Test Date 12-29-16 Using Company Tools Company's Equipment
The operator hereby certifies that the zone between 2665 feet and O feet
was the zone tested Dann Patthson Production Foroman Signature Title
The results were Satisfactory $F255$, Marginal , Not Satisfactory
ate Agent Jesus Spay land Title ECRS Witness: Yes X No
MARKS:
Orgin. Conservation Div.; KIHE/T; Dist. Office;
Computer Update KCC Form U-7 6/8

LEGALS

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION RE: Quail Oil & Gas, LC - Application for permit to authorize the injection of saltwater into the following well located in Morris County, Kansas

NE NE SE Sec 6-Sly 2-6 SWD

TO: All Oil and Gas Producers, Unleased Minerals Interest Owners, Landowners, and all persons whomever con-

You, and each of you, are hereby notified that Quail Oil & Gas, LC has filed an application for permit to authorize the injection of saltwater into the Arbuckle formation at the Sly 2-6 SWD, located in the NE-NE-SE Sec 6-T17S-R6E Morris County, Kansas, with a maximum injection rate of 5000 bbls per day and a maximum injection pressure of 500 psi.

Any person who objects to or protest this application shall be required to file their objections or protests with the Conservation Division of the State Corporation of the State of Kansas within thirty (30) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why the grant of the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and

shall govern themselves accordingly.

Quail Oil & Gas, LC 525 Industrial Drive PO Box K Garden City, KS 67846

620-271-0236

(Published in the Council Grove Republican Jan. 31, 2017)

AFFIDAVIT OF PUBLICATION

State of Kansas, . Morris County

CRAIG A. McNEAL, being first duly sworn, Deposes and says: That he is Publisher of the Council Grove Republican, a daily Newspaper printed in the State of Kansas, and published in and of general circulation in Morris County, Kansas, with a general paid circulation on a daily basis in Morris County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is a daily published at least weekly 50 times a year, has been so published continuously and uninterruptedly in said county and state for a period of more than five years prior to the first publication of said notice; and has been admitted at the post office of Council Grove in said County as second class matter. That the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for one time, the publication thereof being made as aforesaid on the 31st day of January, 2017.

Subscribed and sworn to before me this

CHADELYN L. GARRETT Notary Public - State of Kanses
'y foot Expires / 28/3030