PMAM1410645588

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE AFFE	ICATION CITEOREIC	<b>7</b>
T	THIS CHECKLIST IS N	IANDATORY FOR ALL ADMINISTRATIVE APPLICAT WHICH REQUIRE PROCESSING AT TH		ULES AND REGULATIONS
Appli	cation Acronym	s:		
	[NSL-Non-Sta	ndard Location] [NSP-Non-Standard P	roration Unit] [SD-Simultaneou	s Dedication]
	[DHC-Dow	nhole Commingling] [CTB-Lease Co	mmingling] [PLC-Pool/Lease (	Commingling]
	[PC-Pc	ool Commingling] [OLS - Off-Lease S	torage] [OLM-Off-Lease Meas	urement]
	_	[WFX-Waterflood Expansion] [PMX-	Pressure Maintenance Expansi	$-S\omega D$
		[SWD-Salt Water Disposal] [IPI-	Injection Pressure Increase]	
	[EOR-Qua	lified Enhanced Oil Recovery Certifica	tion] [PPR-Positive Production	n Responsel
	_	-		RKI Exploration 246289
[1]	TYPE OF A	PPLICATION - Check Those Which A	pply for [A]	RET - M
	[A]	Location - Spacing Unit - Simultaneo	us Dedication	246289
	r1	□ NSL □ NSP □ SD		
				I musuiew Fede
	Chacl	Cone Only for [B] or [C]		-Longview Feder 12 Sus
		·	- <del>4</del>	12545
	[B]	Commingling - Storage - Measuremen		30-015-Pen
		☐ DHC ☐ CTB ☐ PLC ☐	PC OLS OLM	3,
				Poul
	[C]	Injection - Disposal - Pressure Increas		
		☐ WFX ☐ PMX ■ SWD [	] IPI [] EOR [] PPR	-SUD DEVONIA
				Ellerubynica
	[D]	Other: Specify		-Sho, Devonia Ellenbunger 97869
	. ,			
[2]	NOTIFICAT	TION REQUIRED TO: - Check Those	Which Apply, or Does Not A	oply
[]	[A]	Working, Royalty or Overriding		
	لما	Working, Royalty or Overriding	ttoyalty interest owners	
	r <b>D</b> 1	Offset Operators, Leaseholders of	r Surface Owner	
	[B]	Offset Operators, Leasenoiders of	Surface Owner	
	[0]	Auglication is One Which Beguin	es Dublished Legal Notice	
	[C]	Application is One Which Require	les rublished Legal Notice	
	ED.		II DIM - CIO	
	[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissioner	pproval by BLIVI or SLU	
		U.S. Buleau of Land Management - Commissioner	of Public Lands, State Land Office	
	[E]	For all of the above, Proof of Not	ification or Publication is Attach	ed, and/or,
		_		
	[F]	Waivers are Attached		
	. ,			
[3]	SUBMIT AC	CURATE AND COMPLETE INFOR	MATION REQUIRED TO PE	ROCESS THE TYPE
[-]		ATION INDICATED ABOVE.		
	Of Milbie	ATTOM INDICATED ABOVE.		
[4]	CEDTIFICA	TION: I hereby certify that the informa	tion submitted with this applicat	ion for administrative
		and complete to the best of my knowledge		
				on will be taken on this
appli	cation until the re	equired information and notifications are	submitted to the Division.	
	Note	: Statement must be completed by an individu	al with managerial and/or supervisory	capacity.
		$\sim$ $\sim$ $\sim$ $\sim$		
<u>Davi</u>	d Catanach	Lauid Catavach	Agent-RKI Explorat	ion & Production, LLC
	or Type Name	Signature 4/16/14	Title	
	• •	1/4/4		
		4/16/14	drcatanach@netscape.	<u>com</u>
		Date	E-Mail Address	

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

### **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: RKI Exploration & Production, LLC (246289)
	ADDRESS: 210 Park Avenue, Suite 900 Oklahoma City, Oklahoma 73102
	CONTACT PARTY: David Catanach-Agent PHONE: (505) 690-9453
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: David Catanach TITLE: Agent-RKI Exploration & Production, LLC
	SIGNATURE: David Catavad DATE: 4/16/14
	E-MAIL ADDRESS: drcatanach@netscape.com
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth,
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attention: Ms. Jami Bailey, CPG

**Division Director** 

Re: Form C-108

RKI Exploration & Production, LLC Longview Federal 12 SWD No. 5 API No. (Not Yet Assigned) 210' FNL & 1665' FEL, (Unit B) Section 12, T-23S, R-28E, NMPM, Eddy County, New Mexico

Dear Ms. Bailey,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) for the RKI Exploration & Production, LLC ("RKI") Longview Federal 12 SWD No. 5. RKI proposes to drill and utilize this well as a produced water disposal well, injection to occur into the Devonian/ Ellenburger formation through the open-hole interval from approximately 14,000 feet to 14,994 feet. Produced water from the Delaware, Bone Spring, Wolfcamp and Morrow formations originating from RKI operated wells in this area will be injected into the well.

I believe that all the information necessary to approve the application is enclosed. If additional information is needed, please contact me at (505) 690-9453.

Sincerely,

David Catanach-Agent

RKI Exploration & Production, LLC

210 Park Avenue, Suite 900

Oklahoma City, Oklahoma 73102

Xc: OCD-Artesia

### C-108 Application RKI Exploration & Production, LLC Longview Federal 12 SWD No. 5 210' FNL & 1665' FEL (Unit B) Section 12, T-23S, R-28E, NMPM Eddy County, New Mexico

- I. The purpose of the application is to request approval to utilize the proposed Longview Federal 12 SWD No. 5 as a produced water disposal well. This is a new well to be drilled for injection.
- II. RKI Exploration & Production, LLC ("RKI")
   210 Park Avenue, Suite 900
   Oklahoma City, Oklahoma 73102
   Contact Party: David Catanach (505) 690-9453
- III. Injection well data sheet and wellbore schematic diagram showing the proposed wellbore configuration are attached.
- IV. This is not an expansion of an existing project.
- V. Attached is a map that identifies all wells/leases within a 2-mile radius of the proposed water disposal well and a map that identifies the ½ mile "Area of Review" ("AOR").
- VI. A listing of all wells within the AOR, including API No., operator, well name & number, well type and status, well location and total depth are attached. Please note that no well within the AOR penetrates the proposed injection interval. Consequently well construction data and/or plugging diagrams are not required.
- The average injection rate is anticipated to be approximately 45,000 BWPD. The maximum rate will be approximately 50,000 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
  - 2. This will be a closed system.
  - 3. RKI will initially inject water into the subject well at or below a surface injection pressure that is in compliance with the Division's limit of 0.2 psi/ft., or approximately 2,800 psi. If a surface injection pressure above 2,800 psi is necessary, RKI will conduct a step rate injection test to determine the fracture pressure of the Devonian/Ellenburger formation in this area.

- 4. Produced water from the Delaware, Bone Spring, Wolfcamp and Morrow formations originating from RKI operated wells in this area will be injected into the subject well. Attached are Delaware, Bone Spring, Wolfamp and Morrow formation produced water analysis. RKI anticipates no scaling or compatibility issues associated with mixing these fluids.
- 5. The Devonian/Ellenburger formation is not productive within one mile the proposed Longview Federal 12 SWD No. 5. Literature indicates that native formation water in the Devonian/Ellenburger formations in Southeast New Mexico is generally very saline.

VIII. Geologic Formation:

Devonian/Ellenburger

Estimated Top:

13,969'

Thickness: Lithology: 1025'
Dolostone and Limestone

USDW's:

According to data obtained from the New Mexico State Engineer, there are numerous fresh water wells location within a one-mile radius of the Longview Federal 12 SWD No. 5. This data indicates that the average depth to fresh water in

top 100' of Ellenburger

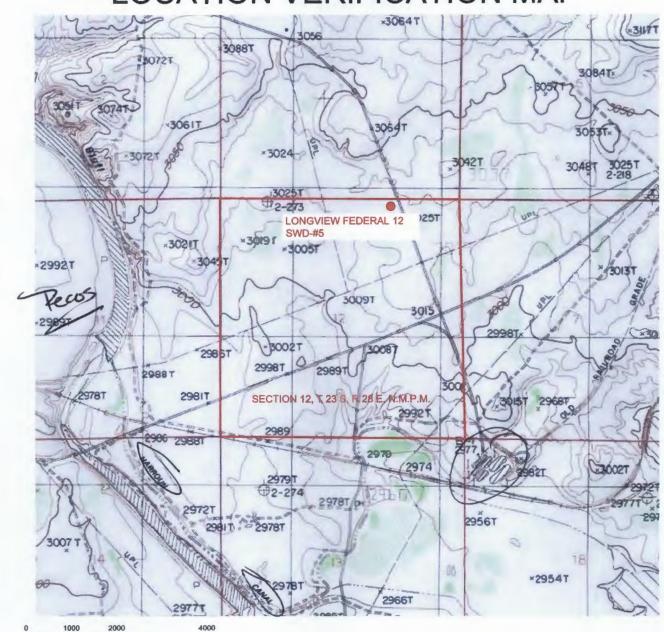
this area is 28 feet.

IX. If necessary, the well will be stimulated with 10,000 gallons of 15% HCl

X. Logs will be filed subsequent to the completion of drilling operations.

- XI. RKI is in the process of obtaining water samples from one or more fresh water wells located within one mile of the Longview Federal 12 SWD No. 5. This water analysis will be forwarded to the Division once obtained.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.

### LOCATION VERIFICATION MAP



GRAPHIC SCALE 1" = 2000'

SECTION 12, T 23 S, R 28 E, N.M.P.M.

COUNTY: EDDY

STATE: NM

DESCRIPTION: 210' FNL & 1665' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: LONGVIEW FEDERAL 12 SWD #5



**DRIVING DIRECTIONS:** 

FROM THE INTERSECTION OF STATE HIGHWAY 31 AND COUNTY ROAD 605, GO NORTH 0.3 MILE TO A POINT WHERE LOCATION IS 196 FEET WEST.



WTC, INC. 405 S.W. 1st. STREET ANDREWS, TEXAS 79714 (432) 523-2181

**RKI** EXPLORATION & PRODUCTION

JOB No.: WTC49578

DISTRICT I
1623N Frankl Dr. Hobbs, NM 88240
Phone (575) 393-0161 Fax (575) 393-0720
DISTRICT II
811 \$ Fact St., Anesia, NM 88210
Phone: (575) 748-1239 Fax: (575) 748-9720
DISTRICT III
1009 Rio Brato, Rd., Arace, NM 87440
Phone (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
2120 \$. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

,	API Number			Pool Code			Pool Name						
Property C	ode		<u> </u>		Property Name		······································	Well Nu	mber				
				LONG	VIEW FEDERA	DERAL 12 SWD #5							
OGRID 1	√o.				Operator Name			Elevati	ion				
24628	19			RKI EXPL	ORATION & F	PRODUCTION	302	3024'					
					Surface Loca	tion							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Fast/West line	County				
В	12	23 S	28 E		210	NORTH	1665	EAST	EDDY				
			Bott	om Hole I	ocation If Diff	erent From Surfac	e						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
							i I						
Dedicated Acres	Joint or	Infill	Consolidated Co	le Orde	r No.								

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

			OPERATOR CERTIFICATION
NW COR SEC 12 NMSP-E (NAD 83) N (Y) = 482924.8' E (X) = 629059.3'	LONGVIEW FEDERAL 12 SWD #5 SHL  NMSP-E (NAD 83)  N (Y) = 482772.1'  E (X) = 632757.4'  LAT. = 32°19'36.71"N  LONG. = 104°02'14.51"W  NMSP-E (NAD 27)  N (Y) = 482712.4"	1665'  NE COR SEC 12  NMSP-E (NAD 83)  N (Y) = 463007.7'  E (X) = 634422.4'	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
	E (X) = 591574.7 LAT.= 32.3267442°N LONG.= 104.0368704°W	E 590603.83 N 3577074.24	Signature Date  Print Name  E-mail Address
4			SURVEYORS CERTIFICATION  I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that he same is true and correct to the best of my belief.  January 10, 2014  Date of Survey  Signature and Scal of Professional Surveyor.  MEX.
SW COR SEC 12 NMSP-E (NAD 83) N (Y) = 477666.7 E (X) = 629017.7		SE COR SEC 12 NMSP-E (NAD 83) N (Y) = 477677.9' E (X) = 634407.8'	Job No.: WTC49578  JAMES E. TOMPKINS 14729  Certificate Number

### INJECTION WELL DATA SHEET

OPERATOR:

OPERATOR: R	RKI Exploration & Production, LLC		
WELL NAME & NUMBER:	BER: Longview Federal 12 SWD No. 5		
WELL LOCATION:	210' FNL & 1665' FEL FOOTAGE LOCATION	B 12	23 South 28 East TOWNSHIP DANGE
	rootage bocation		IOWINSHIF
WELLB	WELLBORE SCHEMATIC	WELL CONST	WELL CONSTRUCTION DATA (Proposed)
		Surfac	Surface Casing
See Atta	See Attached Wellbore Schematic	Hole Size: 26"	Casing Size: 20" @ 1000'
		Cemented with: 1767 Sx.	orft³
		Top of Cement: Surface	Method Determined: Circulate
		Intermed Intermed	Intermediate Casing Casing Size: 13 3/8" @ 3,500
		Cemented with: 2108 Sx.	or
		Top of Cement: Surface	Method Determined: Circulate
		Product	Production Casing
		Hole Size: 12 1/4" 1st Stage-1436 Sx. Cemented with: 2nd Stage-544 Sx.	Casing Size: 9 5/8" @ 14,000' Sx. (Stage Tool @ 5,500') R. or
		Top of Cement: 3,200'	Method Determined: CBL
		Total Depth: 14,994' (Estimated)	d) PBTD:

Devonian/Ellenburger: 14,000'-14,994' Open Hole 874"

Injection Interval

## INJECTION WELL DATA SHEET

Tubir	Tubing Size:	5 ½" 17# N-80	Lining Material:	Internally Plastic Coated
Type	Type of Packer:	Arrowset IX Packer or S	Arrowset IX Packer or Similar Type Injection Packer	er
Packe	Packer Setting Depth:_		13,900' or within 100' of the open-hole injection interval	ıterval
Other	. Type of Tubi	Casing	None	
	:	Addi	Additional Data	
_;	Is this a new well	v well drilled for injection:	XYes	No
	If no	If no, for what purpose was the well originally drilled:_	ginally drilled:	
2.	Name of the	Name of the Injection Formation: Devonian	Devonian/Ellenburger	
3.	Name of Fie	eld or Pool (if applicable): There a	re no OCD designated Dev	Name of Field or Pool (if applicable): There are no OCD designated Devonian/Ellenburger pools in Section 12.
4.	Has the well ever i.e. sacks of cemen	Has the well ever been perforated in any other zi.e. sacks of cement or plug(s) used.	zone(s)? List all such perf	been perforated in any other zone(s)? List all such perforated intervals and give plugging detant or plug(s) used.
	None	a		
5.	Give the name and in this area:		es underlying or overlying	depths of any oil or gas zones underlying or overlying the proposed injection zone
	East Herrad	East Herradura Bend-Delaware Pool is present in Section 12 at a depth of approximately 6,200'-6,400'.	in Section 12 at a depth of	approximately 6,200'-6,400'.
	East Loving	East Loving-Brushy Canyon Pool is also present in Section 12 at a depth of approximately 5,500'.	nt in Section 12 at a depth	of approximately 5,500°.

### **Proposed Wellbore Configuration**

**RKI Exploration & Production, LLC** Longview Federal 12 SWD No. 5 API No. N/A 210' FNL & 1665' FEL (Unit B) Section 12, T-23 South, R-28 East, NMPM **Eddy County, New Mexico** 

26" Hole; Set 20" 94# J-55 Csg @ 1,000'

Cement w/1767 Sx.

Circulate cement to surface.

TOC @ 3,200'

17 1/2" Hole; Set 13 3/8" 68# J-55 Csg @ 3,500'

Cement w/2108 Sx.

Circulate cement to surface.

**Stage Tool @ 5,500'** 

.5 1/2" 17# N-80 IPC tubing to be set in an Arrowset IX or similar type injection packer @ 13,900'

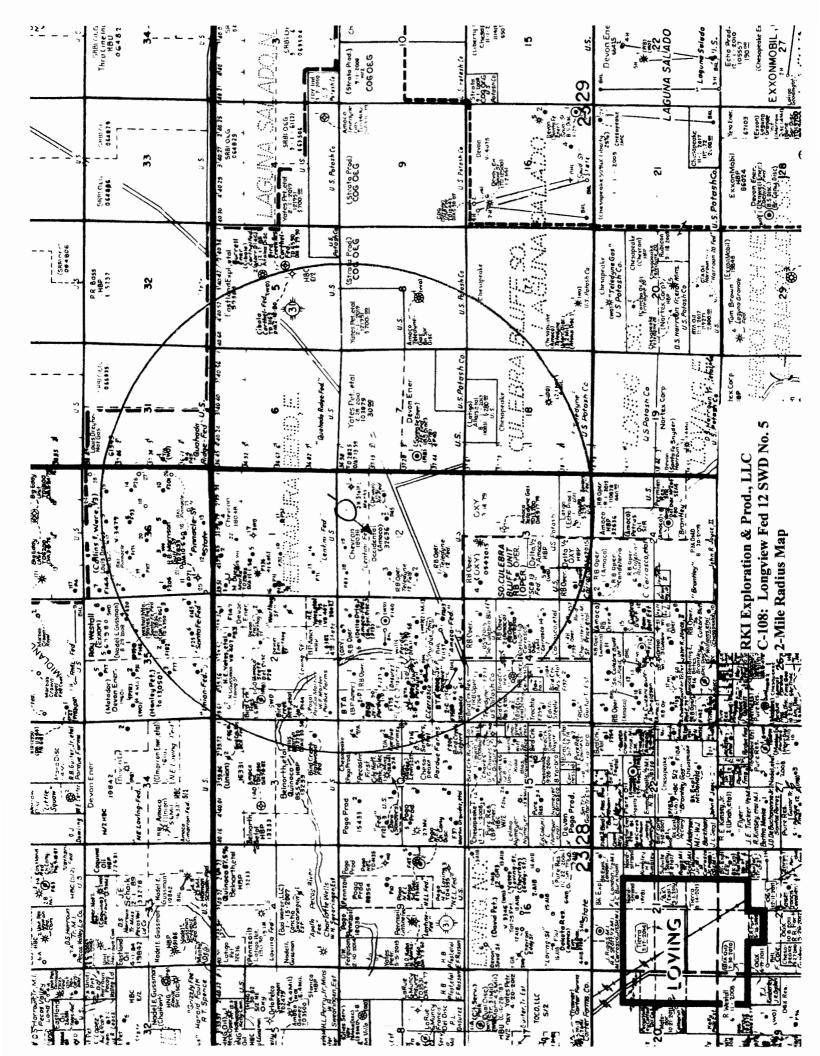
12 1/4" Hole; Set 9 5/8" 53.5# HCP-110 Csg. @ 14,000' 2 Stage cement job. 1st Stage: 1,436 Sx. 2nd Stage: 544 Sx. Stage Tool @ 5,500'. Proposed TOC @ 3,200'

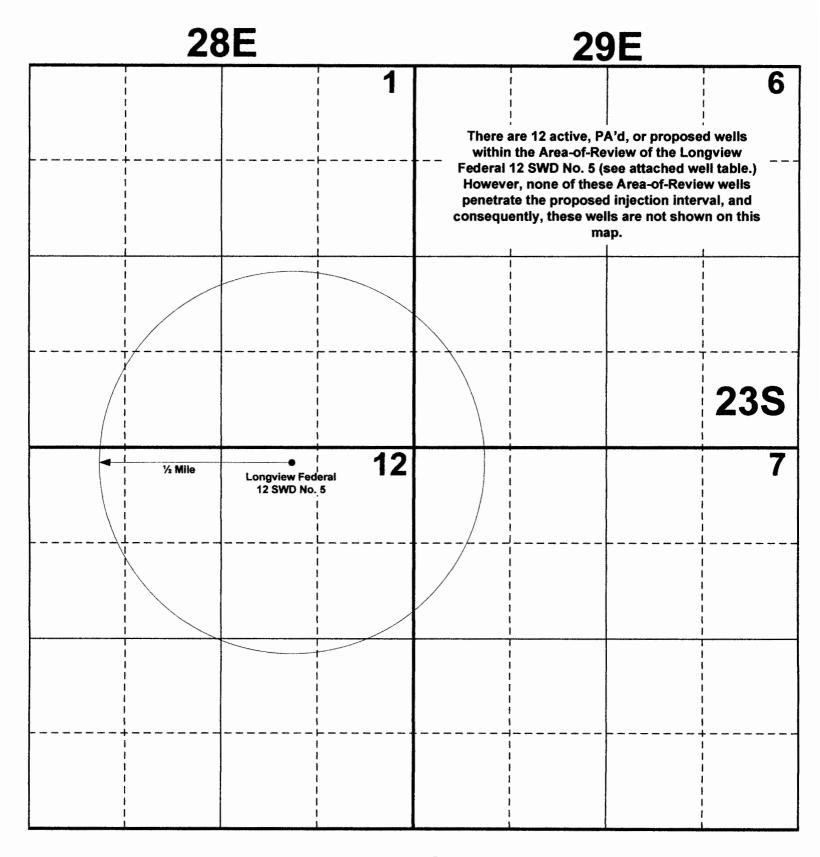
834" Proposed Devonian/Ellenburger

TD: 14,994'

Open-Hole Injection Interval: 14,000'-14,994' (Estimated)

open-hole diameter





Form C-108
RKI Exploration & Production, LLC
Longview Federal 12 SWD No. 5

1/2 Mile Area of Review Map

### RKI EXPLORATION & PRODUCTION, LLC AREA OF REVIEW WELL LIST LONGVIEW FEDERAL 12 SWD NO. 5

	_									_	-				_			_		_		,850'	Н
	_	_	-			_	-	_		_	_			_	_		_	-				Not Yet Drilled. Proposed MD: 14,440' Proposed TVD: 7,850'	Н
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AND THE PROPERTY OF THE PARTY.	_	$\vdash$	Well Never Drilled.	_	Well Never Drilled.	_	_		-	Well Never Drilled. Cancelled APD	Well Never Drilled. Cancelled APD	Well Never Drilled. Cancelled APD	Well Never Drilled.	L		Not Yet Drilled. Proposed TD-9,200		-	Well file indicates well never drilled	MD: 12,745'; TVD: 6,179'	-	ed. Pr	Н
	_		ever D		ever D			-	_	ever D	ever D	ever D	ever D	_		et Dri	MD: 14,000' TVD:	L	le indi	2,745		t Orlie	Ц
		6,390	Well N	6,350'	Well N	3,200'	2,882	6,382	6,371	Well N	Well N	Well N	Well N	6,538	7,750'	Not.	MD: 1		Well fi	MD: 1		Not Ye	
				-																			П
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4		238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238
SEC. II	Г	-	1	1	-	1	12	12	12	12	12	12	12	12	12	12	12	-	9	1	8		8
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		2160	890,	1750	2310	,066	,099	,066	2050	2310	,066	,066	,066	1980	,082	2060	2010'	2332	,099	330,	2076	330,	N 2310'
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	L	2310	2310'	,066	1040	.066	990	380,	330,	330,	330,	1980	1980	2030	260	540	832.	348	.099	.099	783,	1650'	1980
		Active	Q	Active	2	Active	PA	Active	Active	S	Q	Q	QN	Active	Active	NAD	Active	표	Q	Active	BHL	NYD	踞
	L	۵	۵	۵	a.	SWD	Day	۵	۵	۵	۵	۵	۵	۵	۵.	a.	۵.		а.	<u>a</u>		a	
	L	11	12	14	16	17	-	18	19	50	21	-	+	2	14	12	15H		٠	Ŧ		ZH.	Ш
LEASE NAME		Lentini 1 Federal	Lentini 1 Federal	Lentini 1 Federal	Lentini 1 Federal	Lentini 1 Federal	Covert & Johnson	Lentini 12 Federal	Lentini 12 Federal	Lentini 12 Federal	Lentini 12 Federal	H F 12 Federal	H F 12 Federal	H F 12 Federal	Longview 12 Federal	Longview 12 Federal	Longview 12 Federal		Pokenhope	Culebra BLV Fed Com		Culebra BLV Fed Com	
OPSERTOR		Chevron USA, Inc.	Chevron USA, Inc.	Chevron USA, Inc.	Chevron USA, Inc.	Chevron USA, Inc.	Deane Stoltz	Chevron USA, Inc.	Chevron USA, Inc.	Chevron USA, Inc.	Chevron USA, Inc.	Devon SFS Operating, Inc.	Devon Energy Production Co.	Endurance Resources, LLC	RKI Exploration & Prod., LLC	RKI Exploration & Prod., LLC	RKI Exploration & Prod., LLC		Ammex Petroleum Corp.	Yates Petroleum Corp.		Yates Petroleum Corp.	
AN ILLEBER		30-015-27571	30-015-27572	30-015-28229	30-0-15-28473	30-015-28474	30-015-02484	30-015-28437	30-015-28447	30-015-28448	30-015-28449	30-015-28555	30-015-28685	30-015-28927	30-015-39159	30-015-39240	30-015-41092		30-015-24570	30-015-37615		30-015-39422	



2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	WadeCo	Specialties,	HC
Company.		Specialities,	

Well Number: Santa Fe Fed 4 WH Sample Temp: 70

Lease: RKI Date Sampled: 3/18/2014
Location: WC20874 Sampled by: Wade Havens

Lab Ref #: 14-apr-h14284 Analyzed by: GR

K=1,289.47 ppm

			Dissolved (	Gases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfid	e (H2S)				.00 🖊	16.00	.00
Carbon Dioxide	(CO2)				60.00	22.00	2.73
Dissolved Oxyge	n (O2)		NOT ANA	LYZED			
			Cations				
Calcium	(Ca++	)		25,	342.08	20.10	1,260.80
Magnesium	(Mg++	)		1,	698.24	12.20	139.20
Sodium	(Na+)			52,	917.44	23.00	2,300.76
Barium	(Ba++	)	NOT ANAL	YZED			
Manganese	(Mn+)				7.87	27.50	.29
Strontium	(Sr++)		NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=	)			.00	30.00	.00
BiCarbonate	(HCO3	-)			122.20	61.10	2.00
Sulfate	(SO4=	•			940.00	48.80	19.26
Chloride	(CI-)	•		130,	543.44	35.50	3,677.28
Total Iron	(Fe)				4.19	18.60	.23
Total Dissolved				211.	635.46		.23
Total Hardness a	s CaCO3			•	317.98		
Conductivity MIC	CROMHOS/CM			•	20,000		
рН	6.180			Specific Gra	vity 60/60	) F.	1.147
CaSO4 Solubility	@ 80 F.	8.	44MEq/L,	CaSo4 scale	is likely		
CaCO3 Scale Index							
70.0	1.164	100.0	1.764	130.0	3.28	1	
80.0	1.294	110.0	2.214	140.0	3.284	4	
90.0	1.764	120.0	2.214	150.0	3.284	1	

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	WadeCo S	pecialt	ies, LLC				
Well Number: Lease: Location: Date Run: Lab Ref #:	Pinnacle State RKI WC20910 4/8/2014 14-apr-h1422			:	Sample Temp: Date Sampled: Sampled by: Employee #: Analyzed by:	70 3/30/2 Wade I GR	014 Havens
K=1,033.30 pp	•				, ,		
			Dissolved C	Gases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulf Carbon Dioxide					5.00 170.00	16.00 22.00	.31 7.73
Dissolved Oxy	• •		NOT ANA	LYZED	170.00	22.00	7.73
			Cations				
Calcium	(Ca+	+)	Canons		9,945.48	20.10	494.80
Magnesium	(Mg+	-			1,459.12	12.20	119.60
Sodium	(Na+	)			51,717.70	23.00	2,248.60
Barium	(Ba+	+)	NOT ANAL	YZED			
Manganese	(Mn+	•			1.35	27.50	.05
Strontium	(Sr+-	-)	NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3	•			.00	30.00	.00
BiCarbonate	(HCO	-			1,955.20	61.10	32.00
Sulfate	(SO4:	=)			180.00	48.80	3.69
Chloride	(CI-)			:	100,110.00	35.50	2,820.00
Total Iron Total Dissolved Total Hardness Conductivity M	s as CaCO3	М		:	6.9 165,550.75 30,846.09 202,000	18.60	.37
рН	6.660			Specific	Gravity 60/60	) F.	1.115
CaSO4 Solubilit	ty @ 80 F.	23.	81MEq/L,	CaSO4 so	cale is unlikely		
CaCO3 Scale Ind	'ex						
70.0	1.662	100.0	2.012	130.0	2.64	2	
80.0	1.762	110.0	2.322	140.0	2.64	2	
90.0	2.012	120.0	2.322	150.0	3.01	2	

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	NadeCo Sp	ecialtie	es, LLC				
Lease: For Location: V	ongview Deep RKI VC20907 I/8/2014	Fed 31-3	31	] ?	Sample Temp: Date Sampled: Sampled by: Employee #:	70 3/30/20 Wade H	
	.4-apr-h14274				Analyzed by:	GR	
		1	Dissolved C	Gases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	-				5.00	16.00	.31
Carbon Dioxide	(CO2)				300.00	22.00	13.64
Dissolved Oxyge	n (O2)		NOT ANA	LYZED			
			Cations				
Calcium	(Ca++)				5,427.00	20.10	270.00
Magnesium	(Mg++)	)			1,127.28	12.20	92.40
Sodium	(Na+)				35,916.64	23.00	1,561.59
Barium	(Ba++)		NOT ANAI	YZED			
Manganese	(Mn+)				3.59	27.50	.13
Strontium	(Sr++)		NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)				.00	30.00	.00
BiCarbonate	(HCO3-	•			1,026.48	61.10	16.80
Sulfate	(SO4=)				88.00	48.80	1.80
Chloride	(CI-)				67,273.92	35.50	1,895.04
Total Iron	(Fe)				58.7	18.60	3.16
Total Dissolved S	• •			1	111,226.61		
Total Hardness a	as CaCO3				18,189.35		
Conductivity MIC	CROMHOS/CM				152,700		
рН	6.890			Specific	Gravity 60/60	) F.	1.077
CaSO4 Solubility	@ 80 F.	36.3	5MEq/L,	CaSO4 so	cale is unlikely		
CaCO3 Scale Index	•						
70.0	.949	100.0	1.249	130.0	1.839	9	
80.0	1.039	110.0	1.519	140.0	1.839	9	
					1.00.		

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	WadeCo S	pecialtic	es, LLC				
Well Number: Lease: Location: Date Run:	Longview Dec RKI WC20908 4/8/2014		1		Sample Temp: Date Sampled: Sampled by: Employee #:	70 3/30/20 Wade H GR	
Lab Ref #: K=101.49 ppm	14-apr-h1427	72			Analyzed by:	GK	
		j	Dissolved (	Jases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulf	ide (H2S)	)			5.00	16.00	.31
Carbon Dioxid	e (CO2)	)			150.00	22.00	6.82
Dissolved Oxy	gen (O2)		NOT ANA	LYZED			
			Cations				
Calcium	(Ca+	+)			1,608.00	20.10	80.00
Magnesium	(Mg+	+)			517.28	12.20	42.40
Sodium	(Na+	)			18,971.44	23.00	824.85
Barium	(Ba+	+)	NOT ANAL	YZED			
Manganese	(Mn+	)			2.55	27.50	.09
Strontium	(Sr+-	+)	NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3	=)			.00	30.00	.00
BiCarbonate	(HCO	3-)			611.00	61.10	10.00
Sulfate	(SO4:	=)			.00	48.80	.00
Chloride	(CI-)				33,036.30	35.50	930.60
Total Iron Total Dissolved Total Hardness Conductivity M	s as CaCO3	M		(	54,903.06 6,140.85 84,500	18.60	.08
рH	6.810			Specific	c Gravity 60/60	) F.	1.038
CaSO4 Solubilit	ty @ 80 F.	53.4	8MEq/L,	CaSO4 s	scale is unlikely		
CaCO3 Scale Ind	ex						
70.0	035	100.0	.285	130.0	.90	5	
80.0	.085	110.0	.545	140.0			
90.0	.285	120.0	.545	150.0			
50.0	.203	120.0	.545	150.0	1.23	-	

RKI Exploration & Prod., LLC C-108: Longview Fed 12 SWD No. 5 Morrow Produced Water



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		ıb-	Q	Q Q	1					Denth	Deoth	Water
POD Number		sin Coun				Tws	Rng	x	Y	-	-	Column
C 00315	(	C ED	3 1	1 3	11	23S	28E	587973	3575995*	100	45	55
C 00512	(	C ED	4 '	1 1	11	238	28E	588188	3576775	175	15	160
C 00512 CLW198323	0	ED	4 1	1 1	11	238	28E	588167	3576806*	100		
C 00512 EXPL	0	ED		1	11	23S	28E	588272	3576703*	200	16	184
C 00512 S	C	C ED	4 1	1 1	11	23S	28E	588167	3576806*	100		
C 00608	C	C ED	3 3	3 1	11	238	28E	587970	3576401*	200		
C 03469 POD1	C	C ED	3 4	1 3	11	238	28E	588374	3575538	68	38	30
C 03469 POD2	C	C ED	3 4	1 3	11	23S	28E	588382	3575506	48		
C 03469 POD3	C	C ED	3 4	1 3	11	23\$	28E	588381	3575538	47		

Average Depth to Water: 28 feet

Minimum Depth: 15 feet

Maximum Depth: 45 feet

### **Record Count: 9**

PLSS Search:

Gerusians (Str. 1, 2, 11, 12 - Germantiaga 23S - Germantiaga 23E

RKI Exploration & Prod., LLC C-108: Longview Fed 12 SWD No. 5 State Engineer Fresh Water Wells

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

### Form C-108 Affirmative Statement RKI Exploration & Production, LLC Longview Federal 12 SWD No. 5 Section 12, T-23 South, R-28 East, NMPM, Eddy County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

David Catanach

Agent for RKI Exploration & Production, LLC

Date

4/16/14

### <u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

TO: (SEE ATTACHED OWNERSHIP/NOTICE LIST)

Re: RKI Exploration & Production, LLC

Form C-108 (Application for Authorization to Inject)

Longview Federal 12 SWD No. 5

API No. N/A

210' FNL & 1665' FEL, Unit B, Section 12, T-23S, R-28E, NMPM,

Eddy County, New Mexico

### Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the RKI Exploration & Production, LLC Longview Federal 12 SWD No. 5. You are being provided a copy of the application as an offset operator/leaseholder, offset interest owner or the owner of the land on which the well is located. RKI Exploration & Production, LLC proposes to drill the Longview Federal 12 SWD No. 5 and utilize the well as a produced water disposal well, injection to occur into the Devonian/Ellenburger formation through the open-hole interval from approximately 14,000 feet to 14,994 feet.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact Mr. Cody Reid, Landman, RKI Exploration & Production, LLC at (405) 996-5767 or myself at (505) 690-9453.

Sincerely.

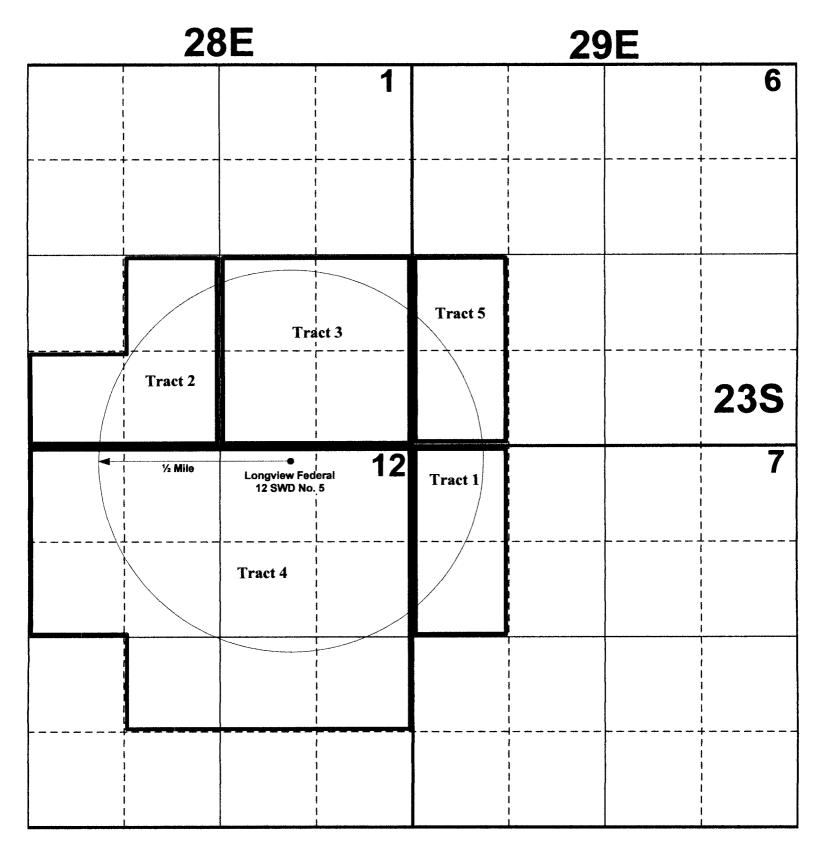
David Catanach-Agent

RKI Exploration & Production, LLC

210 Park Avenue, Suite 900

Oklahoma City, Oklahoma 73102

**Enclosure** 



Form C-108
RKI Exploration & Production, LLC
Longview Federal 12 SWD No. 5
1/2 Mile Notice Area-Tract Identification

### RKI Exploration & Prod., LLC Longview Federal 12 SWD # 5 Tract 1 Ownership Sec. 7: W/2 NW/4

ABO Petroleum Corporation 105 S. Fourth St Artesia, NM 88210 Yates Petroleum Corporation 105 S. Fourth St Artesia, NM 88210 Myco Industries Inc. P.O. Box 840 Artesia, NM 88211

Oxy Y-1 Company fka Yates Drilling Company P.O. Box 27570 Houston, TX 77227 Westall Oil & Gas LLC P.O. Box 4 Loco Hills, NM 88255 Mark L. Shidler 1010 Lamar, Suite 500 Houston, TX 77002

Tract 2 Ownership Sec. 1: NE/4 SW/ 4 & S/2 SW/4

Chevron USA Inc. P.O. Box 2100 1400 Smith Houston, TX 77002

Tract 3 Ownership Sec. 1: SE/4

Khody Land & Mineral Company 3817 NW Expressway, Suite 950 Oklahoma City, OK 73112 Chevron USA Inc. P.O. Box 2100 1400 Smith Houston, TX 77002

Tract 4 Ownership Sec 12: N/2, NE/4 SW/4 & N/2 SE/4

Occidental Permian P.O. Box 4294 Houston, TX 77210-4294 Chevron USA Inc. P.O. Box 2100 1400 Smith Houston, TX 77002 Khody Land & Mineral Company 3817 NW Expressway, Suite 950 Oklahoma City, OK 73112

Tritex Energy A, LP, 15455 Dallas Pkwy, Suite 600 Addison, TX 75243 Range Operating 100 Throckmorton St, Suite 1200 Fort Worth, TX 76102 Page 1 Mark L. Shidler 1010 Lamar, Suite 500 Houston, TX 77002

### RKI Exploration & Prod., LLC Longview Federal 12 SWD # 5 Tract 4 Ownership (Cont.)

Westall Oil & Gas LLC P.O. Box 4 Loco Hills, NM 88255 Devon Energy Production Co., LP 20 N Broadway, Suite 1500 Oklahoma City, OK 73102-8260 Endurance Resources, LLC 15455 Dallas Parkway, Suite 600 Addison, Texas 75234

Tract 5 Ownership Sec. 6: W/2 SW/4

Khody Land & Mineral Company 3817 NW Expressway, Suite 950 Oklahoma City, OK 73112 Chevron USA Inc. 1400 Smith Houston, TX 77002

> Surface Owner at the Wellsite of the Longview Federal 12 SWD No. 5

Bureau of Land Management 620 E. Greene Street Carlsbad, New Mexico 88220

### Form C-108 RKI Exploration & Production, LLC Longview Federal 12 SWD No. 5 Section 12, T-23 South, R-28 East, NMPM, Eddy County, New Mexico

The following-described legal notice will be published in the:

Artesia Daily Press 503 W. Main Street Artesia, New Mexico 88210-2067

The Affidavit of Publication will be forwarded to the Division upon receipt by RKI Exploration & Production, LLC

### LEGAL NOTICE

RKI Exploration & Production, LLC, 210 Park Avenue, Suite 900, Oklahoma City, Oklahoma 73102 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to utilize its Longview Federal 12 SWD No. 5 (API No. N/A) to be drilled 210 feet from the North line and 1665 feet from the East line (Unit B) of Section 12, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico as a produced water disposal well in the Devonian/Ellenburger formation. Injection is to occur through the open-hole interval from approximately 14,000 feet to 14,994 feet.

Produced water from the Delaware, Bone Spring, Wolfcamp and Morrow formations originating from RKI Exploration & Production, LLC operated wells in this area will be injected into the Longview Federal 12 SWD No. 5 at average and maximum rates of 45,000 and 50,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 2,800 psi, which is in compliance with Division regulations. The maximum surface injection pressure will be determined by a step rate injection test.

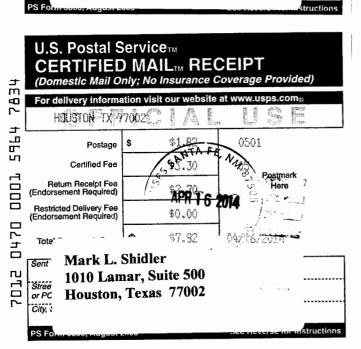
Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Mr. David Catanach Agent-RKI Exploration & Production, LLC at (505) 690-9453.



or P

City,



Yates Drilling Company

Houston, Texas 77227

P.O. Box 27570

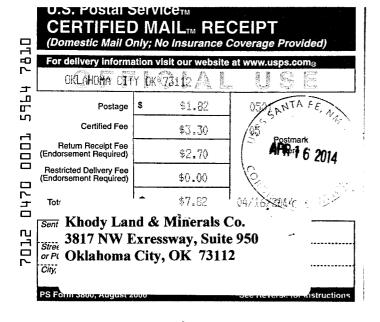
Stree

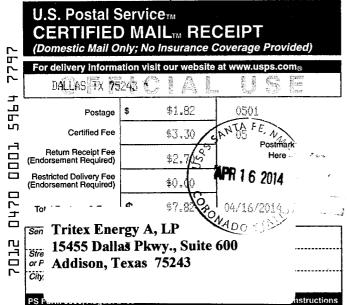
or PO

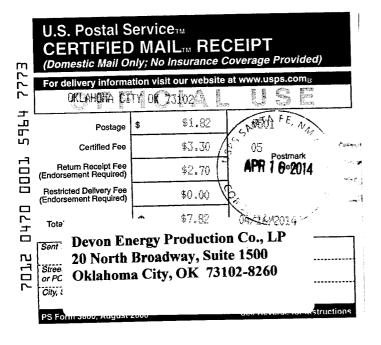
City, &



Artesia, New Mexico 88211









U.S. Postal ServiceTM





U.S. Postal Service™

Heturn Receipt Fee (Endorsement Required)  Restricted Delivery Fee (Endorsement Required)  Tc  \$7.20  04/16/2014			
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47	Tc	\$7.	04/16/2014-/
	Ser Bureau of	Land Managen	ent TATIO
7015	620 E. Gre		
	PS Form 5800, August 2		instructions

.

### **Affidavit of Publication**

	1	No.	22932				
State of No	ew Mexico						
County of	Eddy:		1				
Danny S	Scott / A	anny	L/ca-				
being duly	sworn, sayes t	hat he is the	Publisher				
of the Arte	esia Daily Press	s, a daily newspa	aper of General				
circulation	n, published in	English at Artes	ia, said county				
and state,	and that the her	reto attached					
	Legal	Notice					
was publi	shed in a regul	ar and entire iss	ue of the said				
Artesia D	aily Press, a da	ily newspaper d	uly qualified				
for that p	urpose within tl	ne meaning of C	hapter 167 of				
the 1937	Session Laws	of the state of N	ew Mexico for				
1	Consecutive	e weeks/day on	the same				
day as fo	llows:						
First Publication April 16, 2014							
Second F	Publication						
Third Publication							
Fourth P	ublication						
Fifth Pul	blication						
Sixth Pu	blication						
Subscrib	oed ans sworn b	efore me this					
16th	day of	April	2014				
	Latisha NOTARY	Flomine	EM WEXICO 5112[2015				
6	Latie	tra R	omire				

Latisha Romine

Notary Public, Eddy County, New Mexico

### Copy of Publication:

### LEGAL NOTICE

RKI Exploration & Production, LLC, 210 Park Avenue, Suite 900, Oklahoma City, Oklahoma 73102 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to utilize its Longview Federal 12 SWD No. 5 (API No. N/A) to be drilled 210 feet from the North line and 1665 feet from the East line (Unit B) of Section 12, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico as a produced water disposal well in the Devonian/Ellenburger formation. Injection is to occur through the open-hole interval from approximately 14,000 feet

Produced water from the Delaware, Bone Spring, Wolfcamp and Morrow formations originating from RKI Exploration & Production, LLC operated wells in this area will be injected into the Longview Federal 12 SWD No. 5 at average and maximum rates of 45,000 and 50,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 2,800 psi, which is in compliance with Division regulations. The maximum surface injection pressure will be determined by a step rate injection test. Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Mr. David Catanach Agent-RKI Exploration & Production, LLC at (505) 690-9453.

Published in the Artesia Daily Press, Artesia, N.M., April 16 2014 Legal No 22932.

C-108 Review Checklist: Bossius	04/16/WAdd Bogues	06/23/11	Oly24/	Suspended: [Ver 13]
PERMIT TYPE: WFX / PMX/ SWD Numbe	r: 1489 Permi	t Date: OG/2	Legacy Permits	s/Orders: JA
5 longer F	Solvat iz Sul	n	114 CPMAMIN	10645588]
Well No. Well Name(s): Log View 1	CARACI 12 CO			
PERMIT TYPE: WFX / PMX (SWD) Number: 1489 Permit Date: 0/24/ Logacy Permits Orders: MA  Well No. 5 Well Name(s): Locatine: Februal 12 SWD  API: 30-015 Teachins: Sput Date: TBD New or Old: Medicate 12 SWD (Inc Class II Primacy 03/07/1982)  Foolages 210 FNL 1665 FEL Lot or Unit 8 Sec 12 Tsp. 233 Rge 28 E County Eduly  General Location: 2.5 miles NE of Lorina. Pool SwD: December 3: North 100K Map: Loft-bad Operator: RKT Exploration: Pool No.  BLM 100K Map: Loft-bad Operator: RKT Exploration: Pool No.  BLM 100K Map: Loft-bad Operator: RKT Exploration: Pool No.  COMPLIANCE RULE 5.9: Total Wells: 3762 Inactive: 5 Find Assur. Off Compl. Order: No. 18.5.9 0K/120 Date: 0/24/ Mell FILE REVIEWED (V Current Status: No. APD) API  WELL FILE REVIEWED (V Current Status: No. APD) API  Planned Rehab Work to Well: North Now 100 Date: No. 148 of Completion Completion Details: Stress (in) Setting Dorthole Physe Depths (V) Details: Depths (V) Details: Depths (V) Depths (V) Details: Depths (V) Details: Depths (V) Depths (V) Details: Depths (V) Depths (				
·				,
A ( !				· t
BLM 100K Map: Carls bod Operator: RKI Exp	cration [ Rod. 1	LCOGRID:	246 289 Contact	: D. Catanach
COMPLIANCE RULE 5.9: Total Wells: 376 Inactive: 5	Fincl Assur: 6	Compl. C	order? <u>No</u> is 5.	9 OK? Date: 06/24/
WELL FILE REVIEWED Current Status: No APD/A	PI [	previous!	5.9 Tencomplian	ce-suspended 17
WELL DIAGRAMS: NEW: Proposed Or RE-ENTER: Befo	re Conv. O After Co	onv. C Log	gs in Imaging:	esed CBL/110
1/				
I Well Construction Details:	Setting Depths (10)	OF CLAR		•
		Stage Tool		Cir. to surface
PERMIT TYPE: WFX / PMX: SWD Number: 1489 Permit Date: C424 Legacy Permits/Orders: JAA  Well No. 5 Well Name(s): Locquic Federal 12 SWD  New or Old: Med (UIC Class II Primacy 0307/1882)  Footages 210 FNL 1665 FEL Lot - or Unit 8 Sec 12 Tsp 233 Rge 28E County Eddy  General Location: 2.5 Miles NE of Loching Pool SWD: Devotion Siturion Pool No:  BLM 100K Map: Cat-bod Operator: RKI Exploration 1 Red. LiLogrid. 246 289 Contact: D. Catanach  COMPLIANCE RULE 5.9: Total Wells: 37La Inactive. 5 Fincl Assur. Olf. Compl. Order. No. 18 5.9 0K/190 Detection 1 Red. LiLogrid. 246 289 Contact: D. Catanach  COMPLIANCE RULE 5.9: Total Wells: 37La Inactive. 5 Fincl Assur. Olf. Compl. Order. No. 18 5.9 0K/190 Detection 1 Red. LiLogrid. 246 289 Contact: D. Catanach  COMPLIANCE RULE 5.9: Total Wells: 37La Inactive. 5 Fincl Assur. Olf. Compl. Order. No. 18 5.9 0K/190 Detection 1 Red. Lilogrid. 246 289 Contact: D. Catanach  COMPLIANCE RULE 5.9: Total Wells: 37La Inactive. 5 Fincl Assur. Olf. Compl. Order. No. 18 5.9 0K/190 Detection 1 Red. Lilogrid. 1				
Well Construction Detailis:  Planned Rehab Work to Well:  Borrebole / Plan Detailis:  Planned Rehab Work to Well:  Well Construction				
Planned_or Existing Prod/Liner			- o 1 1480	
Planned_or ExistingLiner				
Planned Vor Existing OH) PERF (374 ) 140	∞ to 14994		Completion/	Operation Details:
Injection Stratigraphic Units: Depths (ft)	· · · · · · · · · · · · · · · · · · ·	······································	Drilled TD	PBTD
Adjacent Unit: Litho. Struc. Por.		Lista	NEW TD 14994	NEW PBTD
	lississippied Ls			
	<u> </u>	<b>y</b>	Tubing Size 5/2	in. Inter Coated?
	· · · · · · · · · · · · · · · · · · ·			
	Ellenburge	10E-121/	Proposed May Surfa	2800 psi
	nation		•	1 den
POTASH: B-111-P Noticed? NA BLM Sec Ord NA	VIPP NAticed2	VA SALT/S	ALADO TA 100 B	CLIFE HOUSE NA
ERECH WATER Aquitor PELOS allevial / Pers January	May Dont 85 to	270 UVDBO	AEEIDM STATEMEN	T By Qualified Baroon
MACON Project Codeshad control west	Cylax Deptil	nrono,	AFFINITION	A by OCO
NMOSE Basin: CAPITAN REEF: INTU	adjo NAG I	no. weiis wii الم <i>أ</i> يماً	femations	PVV Analysis ()
1	•			
Disposal Int: Inject Rate (Avg/Max BWPD): 4500/500	Protectable Water	s? <b>UNC</b> Sol	urce:Sy	stem: Closed or Open
HC Potential: Producing Interval? No Formerly Producing	? <b>N</b> O_Method: Log	s/DST/P&A/0	Other [VA]	2-Mile Radius Pool Map
AOR Wells: 1/2-M Radius Map? Yes Well List? Yes	Total No. Wells Po	enetrating Inte	erval: 🤌 Ho	orizontals?
Penetrating Wells: No. Active Wells Pum Repairs?	on which well(s)?_			Diagrams? <b>NA</b>
Penetrating Wells: No. P&A Wells $\phi$ Num Repairs? $\phi$	on which well(s)?			
NOTICE: Newspaper Date 04/10/14 Mineral Own		_ Surface Ov	yner BUM	Ch. die N. Date 04 16 14
RULE 26.7(A): Identified Tracts? Yes Affected Persons:	Yates Enduran		-1/Myco/ Modily	Land /Oly Pate 04/16/14
Permit Conditions: Issues: Ellenburger in in	tenal; unknow	un HCP	otential; unkno	un WQ: applaces
Add Permit Cond: limit to 100 of Ellenburger:	modina with	Solini	to Calculate	at it
formation pilks	0		O	3



### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON** Governor Joanna Prukop

Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

### **GEOLOGICAL TOPS**

Nadel & Gussman Permian, LLC Julius #1 Unit G, Sec. 6, T-23-S R-28-E 1500' FNL & 1650' FEL (G.L.-3030'; K.B.-3049') Eddy Co., N.M. 30-015-32532

### Geological Tops per/Bryan G. Arrant-OCD

Salado	408'
Base of Salt	2147'
Lamar	2387'
<b>Delaware Sands</b>	2449'
<b>Bone Spring</b>	6186'
1 <sup>st</sup> Bone Spring Sand	6872'
2 <sup>nd</sup> Bone Spring Sand	7686'
3 <sup>rd</sup> Bone Spring Sand	8956'
Wolfcamp	9265'
Atoka	11018'
'datum'	11382'
Morrow	11620'
Barnett	124/28'

G/13/235/28E

Barnett: 13,160
(clau. 2989)



## Active & Inactive Points of Diversion New Mexico Office of the State Engineer

(with Ownership Information)

1-mile radius

No PODs found.

POD Search:

POD Basin: Carlsbad

UTMNAD83 Radius Search (in meters):

Easting (X): 590603.83

Northing (Y): 3577074.24

Radius: 1609



## New Mexico Office of the State Engineer

# Active & Inactive Points of Diversion 2-mile reduce

(with Ownership Information)
(R=POD has been replaced

					(K=POD has been replaced and no longer serves this file,	iced is file, (quarters are 1=NW 2=NE 3=SW 4≖SE)	4=SE)		
		(acre ft per annum)	(		C=the file is closed)	(quarters are smallest to largest)	(NAD83 UTM in meters)	(6	
	Sub					000		i i	
C 02702	Dasin US	Dasin Ose Diversion Owner C 0 IMC KA	, WILL	County POD Number ED C 02702	Code Grant	Tws Rng 23S 28E	590715 3575108*	Distance 1969	
C 02703	ပ	0 IMC	0 IMC KALIUM	ED <u>C 02703</u>		2 13 23S 28E	590715 3575108*	1969	
C 01216	û	EXP 0 U.S	0 U.S. BORAX & CHEM. CORP.	ED C 01216		Shallow 4 1 1 13 23S 28E	589801 3575205*	2034	
C 00791	Σ	MIN 0 MIS	0 MISSISSIPPI CHEMICAL COMPANY	ED C 00791		1 3 1 13 23S 28E	589603 3574999*	2303	
C 01212	ω	EXP 0 U.S	0 U.S. BORAX & CHEM. CORP.	ED C 01212		1 3 1 13 23S 28E	589603 3574999*	2303	
C 01293	Û	EXP 0 U.S.	0 U.S. BORAX & CHEM. CORP.	ED C 01293		1 3 1 13 23S 28E	589603 3574999*	2303	
C 01256	Δì	EXP 0 U.S.	0 U.S. BORAX & CHEM. CORP.	ED C 01256		3 2 2 14 23S 28E	589196 3575199*	2344	
C 00512	C R	IRR 322.8 ANT	322.8 ANTONIO C. & GLORIA G. ONSUREZ	ED C 00512		Shallow 4 1 1 1 1 23S 28E	588188 3576775	2434	
C 03536	S R	PRO 0 GLE SEF	O GLENN'S WATER WELL SERVICE	ED C 00512		Shallow 4 1 1 1 1 23S 28E	588188 3576775 🛶	2434	
C 00512	C	IRR 322.8 ANT ONS	322.8 ANTONIO C. & GLORIA G. ONSUREZ	ED C 00512 S		Shallow 4 1 1 1 1 23S 28E	588167 3576806*	2451	
C 01257	Õ	EXP 0 U.S.	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01257</u>		4 1 2 14 23S 28E	588990 3575194*	2477	
C 00484 ETAL	R	IRR 7250.075 CIT	7250.075 CITY OF CARLSBAD	ED C 00484		1 4 2 14 23S 28E	589198 3574994*	2510	
C 01214	Δ	EXP 0 U.S.	0 U.S. BORAX & CHEM. CORP.	ED C 01214		Shallow 1 2 3 13 23S 28E	590010 3574597*	2547	
C 00484 ETAL	ĸ	IRR 7250.075 CIT	7250.075 CITY OF CARLSBAD	ED C 00484 S-3		4 4 2 14 23S 28E	589398 3574794*	2579	
				ED C 00484 S-5		4 4 2 14 23S 28E	589398 3574794*	2579	
C 01967	C DOM		3 RAE COLEMAN	ED <u>C 01967</u>		Shallow 2 3 13 23S 28E	590111 3574498* 👟	2622	
C 01450	C PUB		0 GARDNER BRIDGE CO.	ED C 01450		2 2 1 14 23S 28E	588585 3575389*	2629	
C 02804	MOM	ON O IMC	0	ED C 02804		2 1 08 23S 29E	593262 3576905*	2663	

<sup>\*</sup>UTM location was derived from PLSS - see Help

6/23/14 1:48 PM

	4=SE)	(NAD83 UTM in meters)
	quarters are 1=NW 2=NE 3=SW	(quarters are smallest to largest)
(R=POD has been replaced	and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)	C=the file is closed)

•		Distance	2663	2674	2674	2674	2701	2706	2707	2708	2718	2719	2769	2797	2843	2860	3071	3139
(NAD83 UTM in meters)		<b>&gt;</b>	3576905*	3574593* 🦫	3574593* 🦫	3574593* 🧽	3575538 🍨	3574397* 🦫	3575538 🍫	3575004	3576401* 🦤	3575506 🦫	3575290* 🦫	3574393* 👟	3575995* 🐔	3574393*	3574670*	3573991*
(NAD83 U		×	593262	589606	589606	909689	588381	590210	588373	588857	587970	588382	588486	589806	587973	589606	588692	590012
(quarters are smallest to largest)	999	Source 6416 4 Sec Tws Rng	2 1 08 23S 29E	Shallow 1 1 3 13 23S 28E	1 1 3 13 23S 28E	Shallow 1 1 3 13 23S 28E	3 4 3 11 23S 28E	Shallow 4 2 3 13 23S 28E	Shallow 3 4 3 11 23S 28E	Shallow 3 1 2 14 23S 28E	3 3 1 11 23S 28E	3 4 3 11 23S 28E	2 1 14 23S 28E	4 1 3 13 23S 28E	Shallow 3 1 3 11 23S 28E	3 1 3 13 23S 28E	14 23S 28E	3 4 3 13 23S 28E
C=the file is closed)		Code Grant																
		County POD Number	ED C 02805	ED C 01217	ED C 01255	ED C 01217	ED C 03469 POD3	ED C 01215	ED C 03469 POD1	ED C 03460 POD1	ED C 00608	ED C 03469 POD2	ED C 02928	ED C 01213	ED C 00315	ED C 01258	ED C 01446	ED C 01218
(acre ft per annum)		basin Use Diversion Owner	0 IMC	150 INTREPID MINING NM LLC US RANK NATIONAL ASSOCIATION	0 U.S. BORAX & CHEM. CORP.	4639.5 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	0 BTA OIL PRODUCERS, LLC	0 U.S. BORAX & CHEM.	0 BTA OIL PRODUCERS, LLC	0 HUNGRY HORSE, LLC	0 JOSE AREVALO	0 BTA OIL PRODUCERS, LLC	0 NEW MEXICO STATE HIGHWAY	0 U.S. BORAX & CHEM. CORP.	0 JOSE AREVALO	0 US BORAX & CHEM. CORP.	0 HM STATE HWY DEPT.	0 U.S. BORAX & CHEM, CORP.
(acre	Sub	basin Use Di	MOM	COM	EX	Q N	C POL	EXP	C POL	C EXP	C DOM	C POL	C PUB	EX	C IRR	EXP	C PUB	EXP
		WR File Nbr	C 02805	C 01217	C 01255	SP 00302	C 03469	C 01215	C 03469	C 03460	C 00608	C 03469	C 02928	C 01213	C 00315	C 01258	C 01446	C 01218

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Page 2 of 3

ACTIVE & INACTIVE POINTS OF DIVERSION

<sup>\*</sup>UTM location was derived from PLSS - see Help

Record Count: 34

POD Search: POD Basin: Carlsbad

UTMNAD83 Radius Search (in meters):

Northing (Y): 3577074.24 Easting (X): 590603.83

Radius: 3218

Sorted by: Distance