LOGGED IN ABOVE THIS LINE FOR DIVISION USE ONL

NEW MEXICO OIL CONSERVATION DIVI

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MAND	ATORY FOR ALL AD	MINISTRATIVE APPL	CATIONS FOR EXCE	PTIONS TO DIVISIO	N RULES AND	REGULATIONS
	. WHICH REQU	TRE PROCESSING A	T THE DIVISION LEVE	EL IN SANTA FE		
lication Acronyms:						

App [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] [A] Location - Spacing Unit - Simultaneous Dedication 30-015-1VIV REPOSADO 2 STOROSWORD K/2/265/29E □ NSL □ NSP □ SD Check One Only for [B] or [C] Commingling - Storage - Measurement

DHC CTB PLC PC OLS OLM DEVONIAN

15500 - 18900 OFF Commingling - Storage - Measurement [B] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C]□ WFX □ PMX □ SWD □ IPI □ EOR □ PPR [D] Other: Specify NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] Working, Royalty or Overriding Royalty Interest Owners [B]Offset Operators, Leaseholders or Surface Owner [C]Application is One Which Requires Published Legal Notice [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office For all of the above, Proof of Notification or Publication is Attached, and/or, [E] {F} Waivers are Attached SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF [3] APPLICATION INDICATED ABOVE. **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division. Note: Statement must be completed by an individual with managerial and/or supervisory capacity. **BRIAN COLLINS** Signature Print or Type Name bcollins@concho.com

e-mail Address



RECEIVED OCD

December 12, 2012

New Mexico Oil Conservation Division Attn: William V. Jones 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Application For Authorization To Inject

Reposado 2 State SWD #1

Township 26 South, Range 29 East, N.M.P.M.

Section 2: 2310' FSL & 2310' FWL

Eddy County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the referenced well. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

Please do not hesitate to contact me at (575) 748-6940.should you have any questions.

Sincerely,

Brian Collins

Senior Operations Engineer

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: COG OPERATING LLC
	ADDRESS: 2208 W. Main Street, ARTESIA, NM 88210
	CONTACT PARTY: BRIAN COLLINS PHONE: 575-748-6940
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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.).
*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.
	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: BRIAN COLLINS TITLE: Senior Operations Engineer .
	SIGNATURE: DATE: 12 D
,	E-MAIL ADDRESS:bcollins@concho.com

C-108 Application for Authorization to Inject REPOSADO 2 STATE SWD #1 Unit K, Sec 2 T26S R29E Eddy County, NM

COG Operating, LLC, proposes to drill the captioned well to 16900' for salt water disposal service into the Devonian from 15500' to 16900'. An APD will be submitted upon approval of this C-108.

- V. Map is attached.
- VI. No wells within the ½ mile radius area of review penetrate the proposed injection zone.
- VII. 1. Proposed average daily injection rate = 7500 BWPD Proposed maximum daily injection rate = 25000 BWPD
 - 2. Closed system
 - 3. Proposed maximum injection pressure = 3100 psi (0.2 psi/ft. x 15500' ft.)
 - 4. Source of injected water will be Delaware Sand and Bone Spring produced water. No compatibility problems are expected. Analyses of Delaware and Bone Spring waters from analogous source wells are attached. No water analyses are available for the Devonian receiving formation in this area.
- VIII. The injection zone is the Devonian dolomite from 15500' to 16900'. Any underground water sources will be shallower than 620' (surface casing setting depth).
 - IX. The Devonian injection interval will be acidized with approximately 40,000 gals 20% HCl acid.
 - X. Well logs, if run, will be filed with the Division. There are no nearby Devonian well logs available.
 - XI. There are no fresh water wells shown on the State Engineer website within a mile of the proposed SWD well. There is a stock tank, water analysis attached, located in the SW/4 SE/4 SW/4 Sec 2-26s-29e. There is no electricity at this site and the source of the stock tank water couldn't be determined during a field visit.
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

III.

WELL DATA

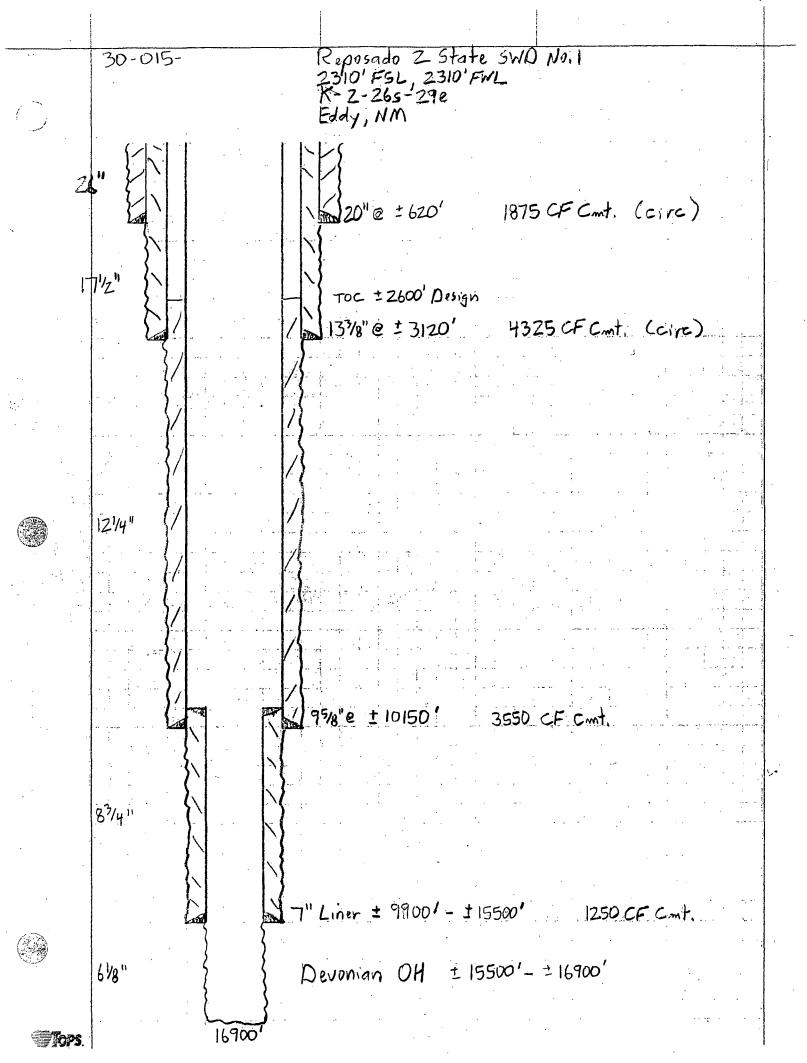
Side 1	INJ	ECTION	WELL DATA SHEET			
OPERATOR: COG OP	erating, LLC		·			· · · · · · · · · · · · · · · · · · ·
WELL NAME & NUMBER:	Reposado 2	State	SWO No. 1			
WELL LOCATION: 2310' FOOTA	FSL, 2310' FWL GELOCATION	UN	K IT LETTER	2 SECTION	26s TOWNSHIP	29e RANGE
<u>WELLBORE SCH</u>					NSTRUCTION DATA	
			Hole Size: 26"	<u> </u>	Casing Size: 20"	2 620'±
See Attached	Schematic		Cemented with:	sx.	or <u>1875</u>	ft ³
		-	Top of Cement: 500	rface	Method Determined	: Degign
				Intermediate	e Casing	
			17/2"		133/8"	e3120'±
· · · · · · · · · · · · · · · · · · ·			Hole Size: 1214"		Casing Size: 97/8"	e 10150'±
•			Cemented with:	sx.	or4325	ft ³
			Sur.	Face 00.		Design
			Top of Cement: 26		Method Determined	: <u>Design</u>
				Production	Casing	•
			Hole Size: 83/4"		Casing Size: 71L	iner ±9900'-=15
			Cemented with:	<u> </u>	or 1250	. ft ³
			Top of Cement: <u>Τορ ο</u>	Fliner	Method Determined	· Design
	•		•	100'		
				Injection I	nterval	
	•		•		•	

15500' feet to 16900'

(Perforated of Open Hole) indicate which)

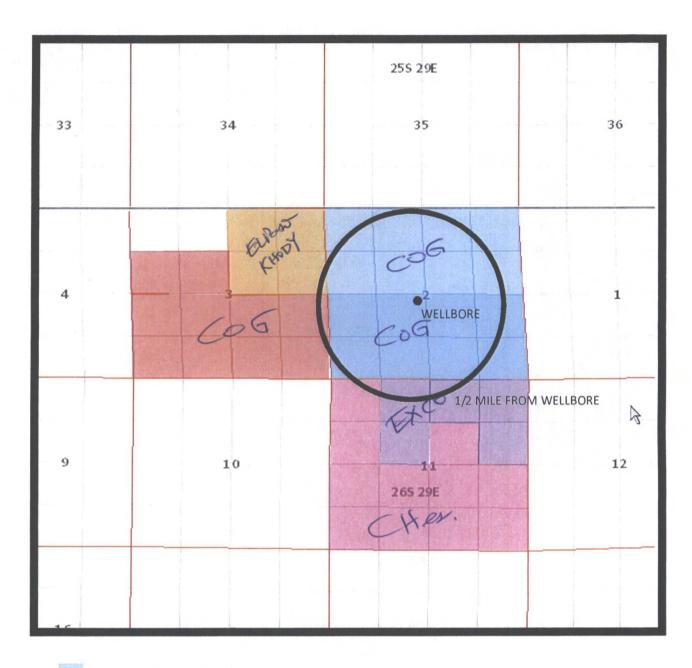
INJECTION WELL DATA SHEET

Tub	ing Size: 4/2" Lining Material: Dvoline 20/CLS 61995bore
Тур	pe of Packer: Nickel plated double grip retrievable
Pac	ker Setting Depth: ± 15450
Oth	er Type of Tubing/Casing Seal (if applicable):
٠	Additional Data
1.	Is this a new well drilled for injection?YesNo
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: Devonian
3.	Name of Field or Pool (if applicable): Brushy Draw, North
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	Underlying: None
	Overlying! Delaware 3175-3294, 4990-6945' Bone Spring 7000.
	Overlying! Delaware 3175-3294', 1990-6945', Bone Spring 7000. Wolfcamp 11379-11449'
	1



V.

MAP



COG Production LLC

COG Production LLC

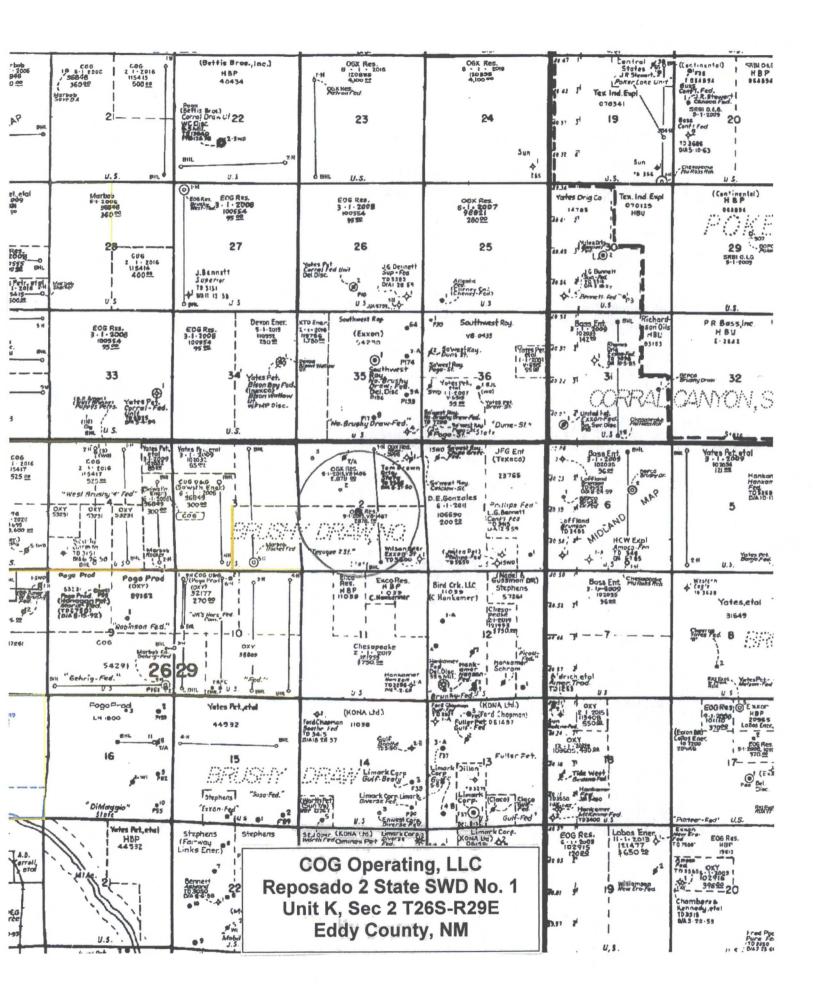
COG Operating LLC

El Paso Natural Gea Co.
Khody Land & Minerals

Exco Resources Inc.

Chesapeake Exploration LP

Resposado 2 State SWD No. 1 2310' FSL & 2310' FWL Section 2; T26s - R29e Eddy county, New Mexico



VII.

Water Analysis Produced and Receiving Formation Water

-												, ,
WATER SAMP	LES REPRESENTATIVE OF W	ATER BEING INJEC	TED INTO THE	PROPOSEI	SWD WELL							
Bone Spring	,											<u> </u>
Lab Test #	Lease	Location	Salesman	Date Out	-Sample Date	Specific Gravity	Ionic Strength	TDS	рΗ	conductivity	Ca (mg/L)	Mg (mg/L)
2011 125629	Jr's Horz Federal Com	6Н	William D Polk	8/31/2011	8/21/2011	1.13	3.33	202535.81	6.50		4200.00	770.00
⊡Delaware												
Lab Test #	Lease	Location	Salesman	Date Out,	Sample Date	Specific Gravity	lonic Strength	TDS	рΗ	conductivity	Ca (mg/L)	Mg (mg/L)
2012103128	Gehrig	Fed #2	William D Polk	2/15/2012	1/10/2012	1.16	4.00	251245.24	6:47		25915.00	3525.76

3

• 1

				•											
					•						•				
TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba.(mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	CI (mg/L)	CO2 (mg/L)	H2S (mg/L
	67287.00			7.68	2.69	425.00°	0,44		1647.00	0.00		1000.00	126000.00	580.00	0.00
	,														
TH (CaCO3)	Na.(mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr_(mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	CI (mg/L)	CO2 (mg/L)	H2S (mg/L
81017.80				35.40	4.51	1492.00			122.00	0.00		450.00	151300.00		0.00

**

. .

XI.

Fresh Water Sample Analyses

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

COMPANY:	Cog					R	EPORT	W12-226			
LEASE:	Stock Tar	ık				D.	ATE	Novem	nber 30, 2012	_	
,	SE/4 SW/4 SW/4 2-26s-29e					D	ISTRICT	Hobbs			
								•		_	
							•				
SUBMITTED BY	<u>Bria</u>	n Collins:	No electricity I	nere, no r	ecord of FW	well State	Engineer here	, unsure c	f source.	_	
TANK		•									
SAMPLE											
O/ (IVII EE			4		<u> </u>		•	-			
Sample Temp.	70	°F		°F		°F		°F		°F	
RESISTIVITY	3.41	<u> </u>		_	_			_		_	
SPECIFIC GR.	1.002	_	-	-				_		_	
рН	8.25	- ·		-				_		_	
CALCIUM	250	— mpl		- mpl		— mpl		mpl		— mpl	
MAGNESIUM	300	— mpl		mpl	-	mpl		mpl		mpl	
CHLORIDE	2010	— mpl		- mpl		mpl		mpl		mpl	
SULFATES	<400	— mpl		mpl		mpl	· · · · · · · · · · · · · · · · · · ·	mpl		mpl	
BICARBONATES	122	mpl		- mpl		mpl		mpl		mpl	
SOLUBLE IRON	0	 mpl		_ mpl		mpl	-	_ _mpl		_ mpl	
KCL		_		 -				_		_	
Sodium		mpl		mpl		mpl		mpl		mpl	
TDS		mpl		mpl		mpl		mpl		_mpl	
OIL GRAVITY	@	60 °F	@	60 °F	@	0 60 °F	@	60 °F	@	60 °F	
REMARKS		····									
			•								
	•	•								~	

ANALYST: S. Brailsford

MPL = Milligrams per litter

Resitivity measured in: Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management: it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 1, 2, 3, 10, 11, Township: 26S Range: 29E

12

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, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 34, 35, 36

Township: 25S

Range: 29E

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, usability, or suitability for any particular purpose of the data.



Oil Conservation Division Attn: Richard Inge 811 South 1st St. Artesia, NM 88210

RE: Application For Authorization To Inject

Reposado 2 State SWD #1

Township 26 South, Range 29 East, N.M.P.M.

Section 2: 2310' FSL & 2310' FWL

Eddy County, New Mexico

Dear Mr. Inge:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the referenced well. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

Brian Collins

Senior Operations Engineer



New Mexico State Land Office 310 Old Santa Fe Trail, Santa Fe, NM 87501

Re: Application to Inject

Reposado 2 State SWD #1

Township 26 South, Range 29 East, N.M.P.M.

Section 2: 2310' FSL & 2310' FWL

Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins

Senior Operations Engineer

BC/bg

Enclosures



EXCO Resources, Inc 12377 Merit Dr., Suite 1700 Dallas, TX 75251

RE: Application For Authorization To Inject

Reposado 2 State SWD #1

Township 26 South, Range 29 East, N.M.P.M.

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Sincerely,

Brian Collins

Senior Operations Engineer



Khody Land & Minerals Company 800 Brazos, Suite 400 Austiin, TX 78701

RE: Application For Authorization To Inject

Reposado 2 State SWD #1

Township 26 South, Range 29 East, N.M.P.M.

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Sincerely,

Brian Collins

Senior Operations Engineer



Chesapeake Exploration LP 6100 North Western Avenue Oklahoma City, OK 73118

RE: Application For Authorization To Inject

Reposado 2 State SWD #1

Township 26 South, Range 29 East, N.M.P.M.

Section 2: 2310' FSL & 2310' FWL

Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

Brian Collins

Senior Operations Engineer



Artesia Daily Press P. O. Box 190 Artesia, NM 88211-0190

Re: Legal Notice

Salt Water Disposal Well Reposado 2 State SWD #1

.To Whom It May Concern:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

Please run this notice and return the proof of notice to the undersigned at:

COG Operating LLC, 2208 W. Main St., Artesia, NM 88210

Sincerely,

Brian Collins

Senior Operations Engineer

fulle.

ARTESIA DAILY PRESS LEGAL NOTICES

COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210 has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Reposado 2 State SWD No. 1 is located 2310' FSL & 2310' FWL, Section 2, Township 26 South, Range 29 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Devonian formation at a depth of 15500' to 16900' at a maximum surface pressure of 3100 psi and a maximum rate of 25,000 BWPD. The proposed SWD well is located approximately 17 miles southeast of Loving. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210, or call 575-748-6940.

Published in the	Artesia Daily Press,	Artesia, New Mexico
	2012.	

From:

Bobbie Goodloe < BGoodloe@concho.com>

Sent:

Monday, January 14, 2013 3:43 PM

To:

Jones, William V., EMNRD

Cc:

Brian Collins

Subject:

Reposado 2 State SWD #1

Attachments:

Affadavit and Proof of Delivery-Reposado 2 SWD #1.pdf

Will,

Please review the attachment containing the affidavit of publication along with the Proof of Delivery receipts for the Reposado 2 State SWD #1 well. Let us know if you have any further questions. Thank you!

Thank you, Bobbie

Bobbie Goodloe

Administrative Assistant/Completions - NM Basin COG OPERATING LLC 2208 W Main St Artesia, New Mexico 88210-3720 575.748.6954

ℬCONCHO

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

Affidavit of Publication

NO. 22411						
STATE OF NEW MEXICO						
County of Eddy:						
Danny Scott / lanny L/Carl						
being duly swork, says that he is the Publisher						
of the Artesia Daily Press, a daily newspaper of general						
circulation, published in English at Artesia, said county						
and state, and that the hereto attached						
Legal Notice						
was published in a regular and entire issue of the said						
Artesia Daily Press, a daily newspaper duly qualified						
for that purpose within the meaning of Chapter 167 of						
the 1937 Session Laws of the state of New Mexico for						
1 Consecutive weeks/days on the same						
day as follows:						
First Publication December 18, 2012						
Second Publication						
Third Publication						
Fourth Publication						
Fifth Publication						
Subscribed and sworn to before me this						
18th day of December 2012						
OFFICIAL SEAL Latisha Romine NOTARY PUBLIC-STATE OF NEW MEXICO My commission expires: 5122015						
nationa Komine						

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

COG Operating LLC,2208 W. Main Street, Artesia, NM 88210 has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Reposado 2 State SWD No. I is located 2310' FSL & 2310' FWL, Section 2, Township 26 South, Range 29 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Devonian formation at a depth of 15500' to 16900' at a maximum surface pressure of 3100 psi and a maximum rate of 25,000 BWPD. The proposed SWD well is located approximately 17 miles southeast of Loving. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within fifteen (15) days of this notice. Any Interested party with questions or comments may contact Brian Collins at COG Operating LLC,2208 W. Main Street, Artesia, NM 88210, or call 575-

748-6940.

Published In the Artesia Daliy Press, Artesia, N.M., Dec. 18, 2012. Legal No 22411.

SENDER: COMPLETE THIS SECT	(\$14) 19 (\$1) (\$1) (\$1)	a principal and principal and the	ECTION ON DELIV	
Complete items 1, 2, and 3. Also item 4 if Restricted Delivery is de Print your name and address on the complete items.	sired. the reverse	A Signature X Weather	Relent	☐ Agent ☐ Addressee
so that we can return the card to Attach this card to the back of the or on the front if space permits.	you. e mailpiece,	B. Received by (Prin	R Krut	. Date of Delivery
1. Article Addressed to:		D. is delivery address	different from item :	1? ☐ Yes
The same of the sa			DEC 1 4 2012	
ATTN WILLIAM V J NM OIL CONSERVATION	NOISIVID V		× 2012	K 2
1220 S ST FRANCI SANTA FE NM 87		3. Septice Type 'Y Certified Mali Registered Insured Mali	☐ Express Mail ☐ Return Receip ☐ C.O.D.	t for Merchandise
		4. Restricted Delivery	····	☐ Yes
Article Number (Transfer from service label)	7011 15	70 0000 77	9J 3950	
PS Form 3811, February 2004	Domestic Retu	ırn Recelpt	no. militaria de la compania del compania del compania de la compania del la compania de la comp	102595-02-M-1540
SENDER: COMPLETE THIS SEC	TION	COMPLETE THIS S	ECTION ON DELIV	ERY!
Complete items 1, 2, and 3. Also item 4 if Restricted Delivery is de	complete	A. Signature////		
Print your name and address on so that we can return the card to	the reverse	x V	Δ	☐ Agent ☐ Addressed
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e constant of the con-

From: Sent: To: Cc: Subject:	Jones, William V., EMNRD Friday, December 28, 2012 5:19 PM 'Bobbie Goodloe'; Brian Collins Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD Disposal applications from COG Operating, LLC: proposed Reposado 2 State SWD #1, Apple 5 State SWD #1, and Willow 17 State SWD #1 all in Eddy County. (Devonian open holes)
Hello Bobbie and Brian,	
These SWD applications lo	ok OK, and the only things I seem to be missing or would ask about:
Would you ask the Geolog	ist to estimate the top of Devonian and base of Devonian in each of these wells?
numbers) with dates of ma For the Reposado 2 State S For the Willow 17 State SV There are no producing we with "Operators of Record Therefore the certified not the rights to the Devonian owners. Would you check Landman could call David found that Land people sp	opy of the latest actual newspaper notice and the certified matter receipts (or receipt ailing to the affected parties. SWD #1 it appeared that El Paso may not have been noticed? VD #1 it appeared that Delta and Devon may not have been noticed? ells in the AOR of a proposed SWD well, so in this case there are no dedicated spacing units at Devonian depths. tices should be going out to the Lessees of Devonian oil and gas rights or whomever controls minerals within the AOR. If no lessees, then notices should be sent to mineral with your favorite Landman to verify this is happening? If there are any gray areas, the COG Brooks (our Landman/Attorney) at 505-476-3450 to ensure all is well in this regard. I have leak best to other land people and I may not understand the conversation!
There are several SWD properties with the second vacation (we believe on Jacobs).	permits for COG and others drafted and waiting for the Director to sign when she returns from inuary 3 rd).
Thank You!	
Will Jones	

From:

Brian Collins < BCollins@concho.com>

Sent:

Wednesday, January 02, 2013 10:31 AM

To:

Jones, William V., EMNRD

Cc:

Dean Chumbley; Bobbie Goodloe

Subject:

RE: Disposal applications from COG Operating, LLC: proposed Reposado 2 State SWD #

1, Apple 5 State SWD #1, and Willow 17 State SWD #1 all in Eddy County. (Devonian

open holes)

Will:

Here's some answers to your notification questions:

Apple 5 State SWD 1: We've notified all the necessary lessees of record. COG operates all the wells that have been drilled within the AOR.

Willow 17 State SWD 1: We will notify Delta Drilling/Devon as lessees of record/mineral owners ASAP—our mistake. Devon owns Delta Drilling's surface and minerals in this area so the notice will be sent to Devon. COG operates all the wells that have been drilled within the AOR.

Reposado 2 State SWD 1: We didn't notify El Paso Natural Gas, but will send out notice ASAP—our mistake. Our notification list was for the lessees of record within the AOR.

If you still have notification questions, let me know and I'll have Dean Chumbley visit with you. Thanks for your patience.

Brian

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Friday, December 28, 2012 6:19 PM

To: Bobbie Goodloe; Brian Collins

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD

Subject: Disposal applications from COG Operating, LLC: proposed Reposado 2 State SWD #1, Apple 5 State SWD #1,

and Willow 17 State SWD #1 all in Eddy County. (Devonian open holes)

Hello Bobbie and Brian.

These SWD applications look OK, and the only things I seem to be missing or would ask about:

Would you ask the Geologist to estimate the top of Devonian and base of Devonian in each of these wells?

And please send to me a copy of the latest actual newspaper notice and the certified mailer receipts (or receipt numbers) with dates of mailing to the affected parties.

For the Reposado 2 State SWD #1 it appeared that El Paso may not have been noticed?

For the Willow 17 State SWD #1 it appeared that Delta and Devon may not have been noticed?

There are no producing wells in the AOR of a proposed SWD well, so in this case there are no dedicated spacing units with "Operators of Record" at Devonian depths.

Therefore the certified notices should be going out to the Lessees of Devonian oil and gas rights or whomever controls the rights to the Devonian minerals within the AOR. If no lessees, then notices should be sent to mineral

From:

Brian Collins <BCollins@concho.com>

Sent:

Wednesday, January 02, 2013 7:35 AM

To:

Jones, William V., EMNRD

Subject:

RE: Disposal applications from COG Operating, LLC: proposed Reposado 2 State SWD #

1, Apple 5 State SWD #1, and Willow 17 State SWD #1 all in Eddy County. (Devonian

open holes)

Will:

We'll get you some answers ASAP. I've got the estimated top of the Devonian from our geologists, but not the base. Due to geologic uncertainty on the tops and presence of good dolomite, I've filed for disposal intervals approx. 150' high to the estimated top of the Devonian and for gross injection interval thicknesses in the 1200' range. We'll actually set casing into the top of the Devonian (covering the Woodford shale) when we drill these wells. I'll visit with the geologists about estimated Devonian thicknesses. Thanks. --Brian

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Friday, December 28, 2012 6:19 PM

To: Bobbie Goodloe; Brian Collins

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD

Subject: Disposal applications from COG Operating, LLC: proposed Reposado 2 State SWD #1, Apple 5 State SWD #1,

and Willow 17 State SWD #1 all in Eddy County. (Devonian open holes)

Hello Bobbie and Brian,

These SWD applications look OK, and the only things I seem to be missing or would ask about:

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And please send to me a copy of the latest actual newspaper notice and the certified mailer receipts (or receipt numbers) with dates of mailing to the affected parties.

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Therefore the certified notices should be going out to the Lessees of Devonian oil and gas rights or whomever controls the rights to the Devonian minerals within the AOR. If no lessees, then notices should be sent to mineral owners. Would you check with your favorite Landman to verify this is happening? If there are any gray areas, the COG Landman could call David Brooks (our Landman/Attorney) at 505-476-3450 to ensure all is well in this regard. I have found that Land people speak best to other land people and I may not understand the conversation!

I may only be here on Monday of next week – so HAPPY NEW YEAR!

....There are several SWD permits for COG and others drafted and waiting for the Director to sign when she returns from vacation (we believe on January 3rd).

From:

Brian Collins < BCollins@concho.com>

Sent:

Tuesday, January 08, 2013 2:58 PM

To:

Jones, William V., EMNRD

Subject:

COG Devonian-Silurian-Ordovician SWD Applications--Remaining Requested Devonian

Tops/Bases

Will:

Here's the rest of the Devonian tops/bases you requested. Our geologist noted that the tops are approximate and the bases are very approximate due to the lack of well control. When the wells are drilled and actually penetrate the Devonian, we'll set 7" to the top of the Devonian and drill the rest of the way as an open hole disposal interval. Thanks.

Reposado 2 State SWD 1 (2-26s-29e): Geologist pick for Devonian top = 15654' and base = 16,143'

C108 application interval = 15,500-16,900'

Willow 17 State SWD 1 (17-25s-28e): Geologist pick for Devonian top = 14,323' and base = 14,723' C108 application interval = 14,000-15,300'

Apple 5 State SWD 1 (5-26s-28e): Geologist pick for Devonian top = 14,279' and base = 14,679' C108 application interval = 14,100-15,400'

Brian Collins

Senior Operations Engineer - NM Basin COG OPERATING LLC 2208 W Main St Artesia, New Mexico 88210-3720 575.748.6924 W 432-254-5870 C

≫CONCHO

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	# Wells 1 Well Name(s): Reposator 2 STATE SWD # 1 API Num: 30-0 15- NA Spud Date: Not Yet New/Old: N (UIC primacy March 7, 1982)						
	Footages 23 10 FSL 2310 FWL Unit K Sec 2 Tsp 265 Rge 29 E County FATEDDY						
	General Location: NW of Ral BLUFF RES,						
	Operator: COG OPERATING LLC			Contact BRIAN COLLINS			
	OGRID: 2291.37 RULE 5.9 Compliance (Wells) 927			(Finan Assur) ≥ (IS 5.9 OK?			
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A)	Disposal Interval: Analysis?	Production Potenti	al/Testing: NO Sur. 12/12/13	Part Pa	al or Tasta		
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(3)	RULE 26.7(A) Affected Persons: EXCOLUTE LEGAL KHO DY						
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