LOGGÉD IN

WYJ1235361870

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



ADMINISTRATIVE APPLICATION CHECKLIST

Т	HIS CHECKLIST IS MA	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applie	cation Acronym	
	[NSL-Non-Star [DHC-Dowi [PC-Po	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP	PLICATION - Check Those Which Apply for [A]
[+]	[A]	Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
	[D]	Other: Specify
[2]	NOTIFICAT: [A]	ION REQUIRED TO: - Check Those Which Apply, or □ Does Not Apply 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
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE ATION INDICATED ABOVE.
[4]	CERTIFICA	FION: 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.

e-mail Address

Note: Sta	atement must be completed by all individual with ma		
BRIAN COLLINS	mille.	SENIOR OPERATIONS ENGINEER	6 Sept 12
Print or Type Name	Signature	Title	Date
		hcallins@concha.com	



RECEIVED OCD

2012 NOV -5 P 1: 41

November 1, 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

Corazon 4 State SWD No. 1

Township 21 South, Range 33 East, N.M.P.M.

Section 4: 3800' FNL & 2500' FEL

Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Corazon 4 State SWD No. 1 well as referenced above. 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

BC/sw Enclosures 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.
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: BRIAN COLLINS
	SIGNATURE: DATE: 6 Sept 12
*	E-MAIL ADDRESS: bcollins@concho.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:

C-108 Application for Authorization to Inject CORAZON 4 STATE SWD #1 Unit J, Sec 4 T21S R33E Lea County, NM

COG Operating, LLC, proposes to drill the captioned well to 7250' for salt water disposal service into the Delaware Sand from 5550' to 7175'. 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 = 7000 BWPD
 Proposed maximum daily injection rate = 10000 BWPD
 - 2. Closed system
 - 3. Proposed maximum injection pressure = 1110 psi (0.2 psi/ft. x 5550' ft.)
 - 4. Source of injected water will be Delaware Sand and Bone Spring Sand produced water. No compatibility problems are expected. Analyses of Delaware and Bone Spring waters from analogous source wells are attached.
- VIII. The injection zone is the Delaware Sandstone, a fine-grained sandstone from 5550' to 7175'. Any underground water sources will be shallower than 160' based on well records from nearest fresh water well 2.5 miles southeast in Sec 11 T21S-R33E.
- IX. The Delaware sand injection interval might be acidized with approximately 20 gal/ft of 7 ½ % HCl acid. If necessary, the injection interval may be fraced with up to 300,000 lbs. of sand.
- X. Well logs, if run, will be filed with the Division. A section of the neutron-density porosity log from an analogous well 4200' to the northwest showing the injection interval is attached.
- XI. There are no fresh water wells within a mile of the proposed SWD well.
- 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

(Perforated or Open Hole; indicate which)

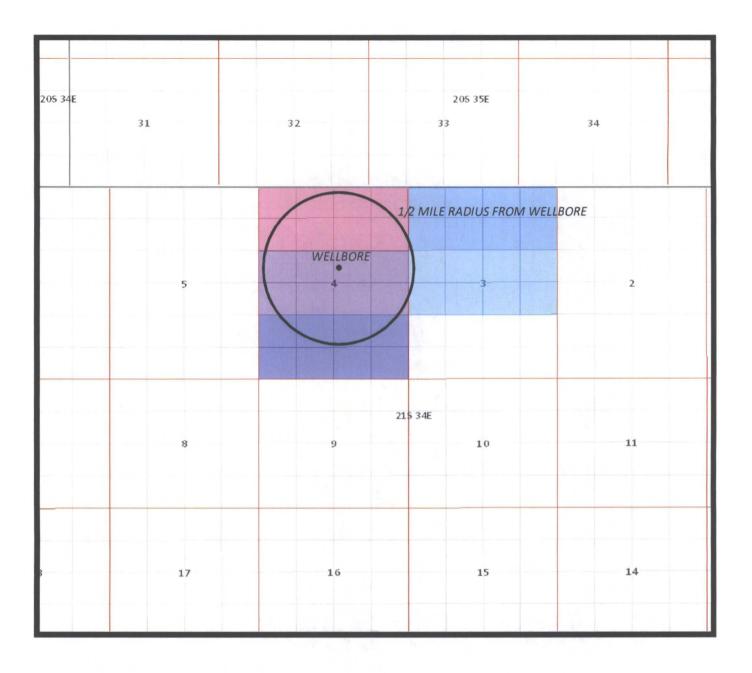
INJECTION WELL DATA SHEET

oing Size: 31/2" or 41/2" Lining Material: IPC / Duoline 20
pe of Packer: Nickel plated double grip retreivable
eker Setting Depth: _ ± 5500'
ner Type of Tubing/Casing Seal (if applicable): N/A
Additional Data
Is this a new well drilled for injection?
If no, for what purpose was the well originally drilled?
·
Name of the Injection Formation: Delaware Sand
Name of Field or Pool (if applicable):
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.
Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Overlying: Yates / Seven Rivers 3700 - 3800'+
Overlying: Yates/Seven Rivers 3700-3800'+ Underlying: Bone Spring +8450'
Morrow ±13750'

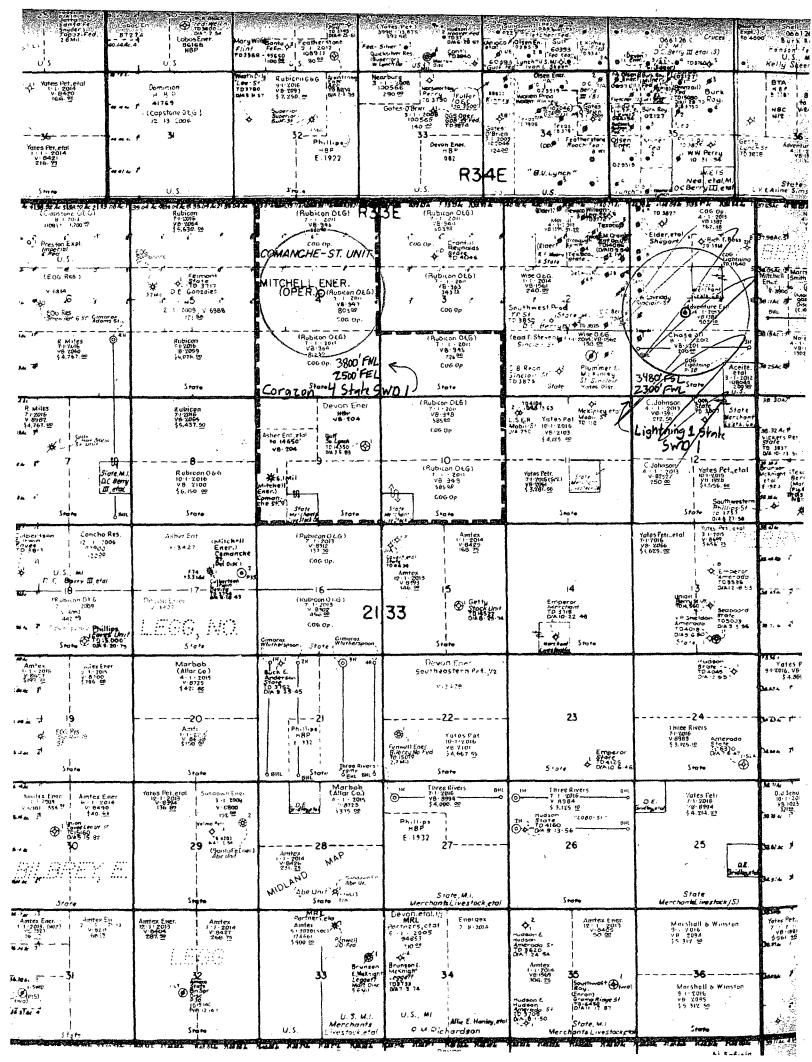
SWD
7910
SWO I
e 1800' t 2500 CF cont, (cire)
/BTC e 5500' + 3500 CF zmt
77754 - 1 1150
1230123 1130 Ct emi
1250 ± 5500 + 3500 CF 2 mt

V.

MAP







CMD : OG5SEC2 ONGARD
VIEW LAND BY ULSTR

12/18/12 08:44:58 OGOWVJ -TQHR

PAGE NO: 1

Sec : 4 Twp : 21S Rng : 33E Cnty1 : Lea

Cnty2 :

Cnty3 :

U Lot/ Qtr		SRF SUB	ACTIVE	Bene		R	EMARKS	
L Trct Qtr	ACREAGE	OWNER	LEASE #		(may	show	restrictions	codes)
		,						
A 1	39.21	ST ST G0	2360 0000	CS	POT			
		R3	2765 0000					
		VB	0946 0000					
A 8	40.00	ST ST G0	2360 0000	CS	POT			
		VB	0946 0000					
A 9	40.00	ST ST G0	2360 0000	CS	POT			
		R3	2788 0000					
		VB	0947 0000					
B 10	40.00	ST ST G0	2360 0000	CS	POT			
		R3	2788 0000					
		VB	0947 0000					
PF01 HELP	PF02 PREV	/ PF03	EXIT P	F04 0	ЭоТо	PF05	PF0	6
PF07 BKWD	PF08 FWD			F10 S		PF11		

CMD : OG5SECT ONGARD
INQUIRE LAND BY SECTION

12/18/12 08:44:58 OGOWVJ -TQHR

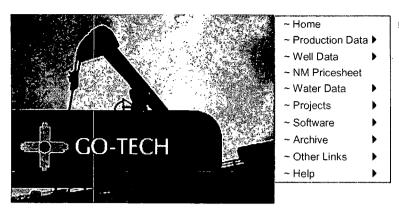
PAGE NO: 1

Sec : 04 Twp : 21S Rng : 33E Section Type : LONG

12 4 5	11 3 6	10 2 7	1 8 9
40.00 39.07 40.00	40.00 39.11 40.00	 /4 0.00 39.17 40.00	39.21 40.00 40.00
CS CS CS	CS CS CS	cs cs	CS CS CS
MULTI	MULTI	MULTI	MULTI
UUR	UUR	UUR	UUR
A			
13	14	15	16
40.00	40.00	40.00	40.00
CS	CS	CS	CS
VB0947 0000	VB0947 0000	VB0947 0000	VB0947 0000
RUBICON OIL AND G	RUBICON OIL AND G	RUBICON OIL AND G	RUBICON OIL AND G
U R 07/01/11	U R 07/01/11	U R 07/01/11	U R 07/01/11
PF01 HELP PF02	PF03 EXIT P	F04 GoTo PF05	PF06
PF07 BKWD PF08 FWI		F10 SDIV PF11	PF12

VII.

Water Analysis Produced and Receiving Formation Water



Water Sample Representative
of Delaware Produced &
Receiving Formation Water

North American Oil and Gas News

Eagleford Energy announces positive results from well drilled on its Murphy Lease

Solimar Energy Limited: Rig onsite for Kreyenhagen field oil production testing

PEMEX
executes go
ahead for
three wells to
use CHMR
system
designed to
safely replace
hydraulic

Ridgeline reports first quarter fiscal year 2013 financial results

fracturing

Source: Oil Voice NYMEX LS Crude 96.68

Navajo WTXI 0

Henry Hub 2.702

Updated: 8/24/2012

State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR

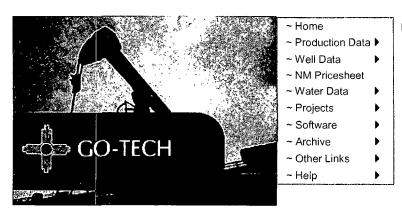
⊕-NM WAIDS					
Ė⊦Data					
Produced Water					
Ground Water					
Conversion Tools					
Ģ⊦Scale					
Scale details					
Stiff					
Oddo					
Probable Mineral Composition					
mix					
-Corrosion					
. È-Theory					
- Uniform					
Galvanic					
Crevice					
····Hydrogen Damage					
EIC					
Erosion					
Equipment					
- Artificial					
Casing and Tubing					
Casing and Tubing					

General Ir	formation Ab	out: Sample 6007		
MEDANO VA STATE				
API	3001526591	Sample Number		
Unit/Section/ Township/Range	F / 16 / 23S / 31E	Field	LOS MEDANOS	
County	Eddy	Formation	DEL	
State	NM	Depth		
Lat/Long	32.30541 , - 103.78522	Sample Source		
TDS (mg/L)		Water Type		
Sample Date (MM/DD/YYYY)	6/15/2000 12:00:00 AM	Analysis Date (MM/DD/YYYY)		
Remarks/Description				
Cation Informa (mg/L)	ation	Anion Information (mg/L)		
Potassium (K)		Sulfate (SO)	125	
Sodium (Na)		Chloride (CI)	109108	
Calcium (Ca)	10960	Carbonate (CO ₃)		

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Magnesium (Mg)	833.1	Bicarbonate (HCO ₃)	537
Barium (Ba)	0	Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H₂S)	0
Strontium (Sr)	·	Carbon Dioxide (CO ₂)	
Iron (Fe)	2.5	Oxygen (O)	

PETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



Water Sample Representative
of Bone Spring Produced
Water

North American Oil and Gas News

Eagleford Energy announces positive results from well drilled on its Murphy Lease

Solimar Energy Limited: Rig onsite for Kreyenhagen field oil production testing

PEMEX
executes go
ahead for
three wells to
use CHMR
system
designed to
safely replace
hydraulic
fracturing

Ridgeline reports first quarter fiscal year 2013 financial results

Source: Oil Voice
 NYMEX LS Crude
 96.68

 Navajo WTXI
 0

 Henry Hub
 2.702

 Updated:
 8/24/2012

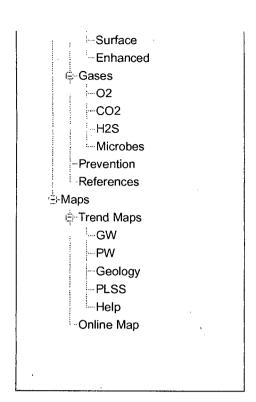
 State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR

	⊕-NM WAIDS					
	ф⊦Data					
	Produced Water					
	Ground Water					
	Conversion Tools					
	⇒Scale					
	Scale details					
	Stiff					
	Oddo					
	Probable Mineral Composition					
	mix					
ļ	. Corrosion					
	† Theory					
İ	Uniform					
ı	Galvanic					
	Crevice					
1	Hydrogen Damage					
	- EIC					
	Erosion					
Ì	Equipment					
	Artificial Casing and Tubing					
	Casing and Tubing					

General Information About: Sample 6681						
THYME APY FEDERAL						
API	3002533529	Sample Number				
Unit/Section/ Township/Range	G / 01 / 23S / 32E	Field	RED TANK			
County	Lea	Formation	B SPG			
State	NM	Depth				
Lat/Long	32.33657 , - 103.62470	Sample Source				
TDS (mg/L)	172896	Water Type				
Sample Date (MM/DD/YYYY)	11/27/2001 12:00:00 AM	Analysis Date (MM/DD/YYYY)				
Remarks/Description						
Cation Informa (mg/L)	Cation Information (mg/L)		mation .)			
Potassium (K)		Sulfate (SO)	1150			
Sodium (Na)		Chloride (Cl)	104976			
Calcium (Ca)	0	Carbonate (CO ₃)				



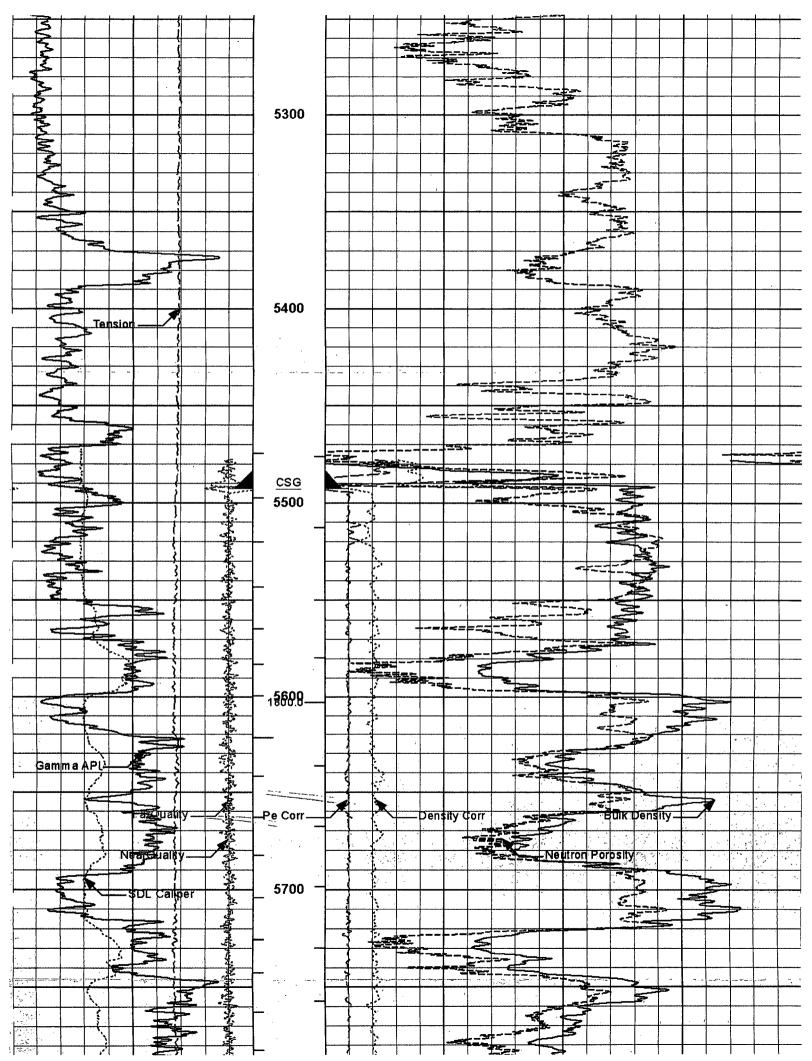
Magnesium (Mg)	2025	Bicarbonate (HCO ₃)	781
Barium (Ba)	0	Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H₂S)	0
Strontium (Sr)		Carbon Dioxide (CO ₂)	
Iron (Fe)	0	Oxygen (O)	

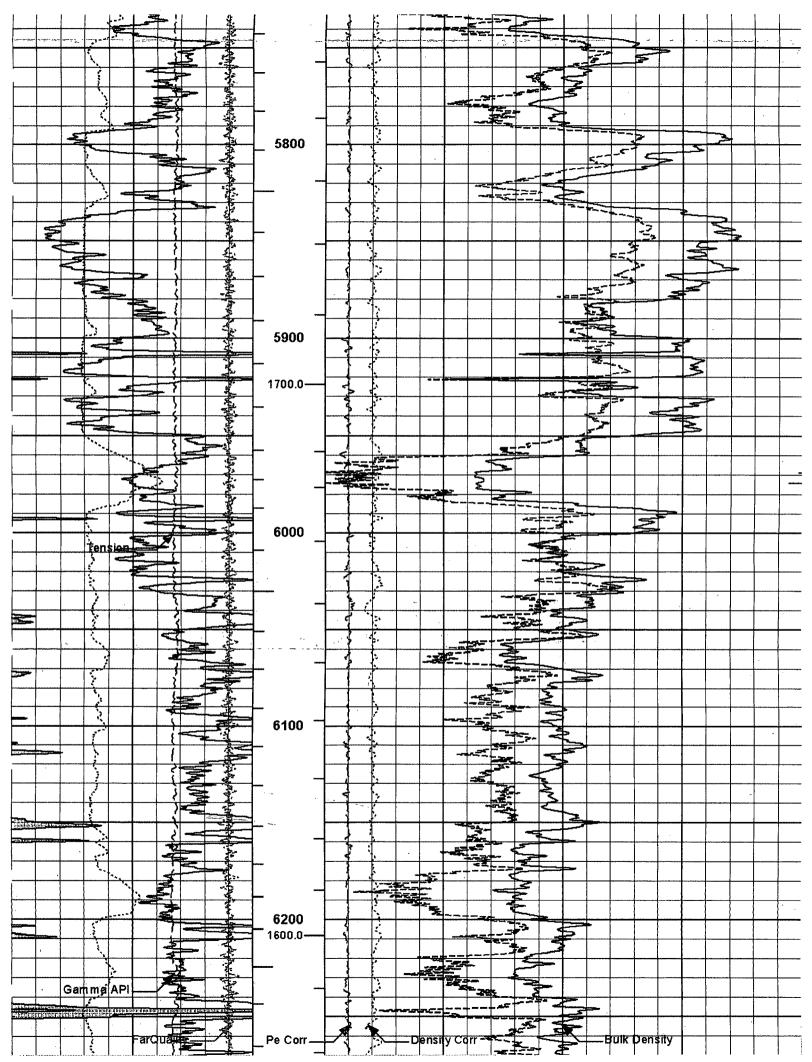
PETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801

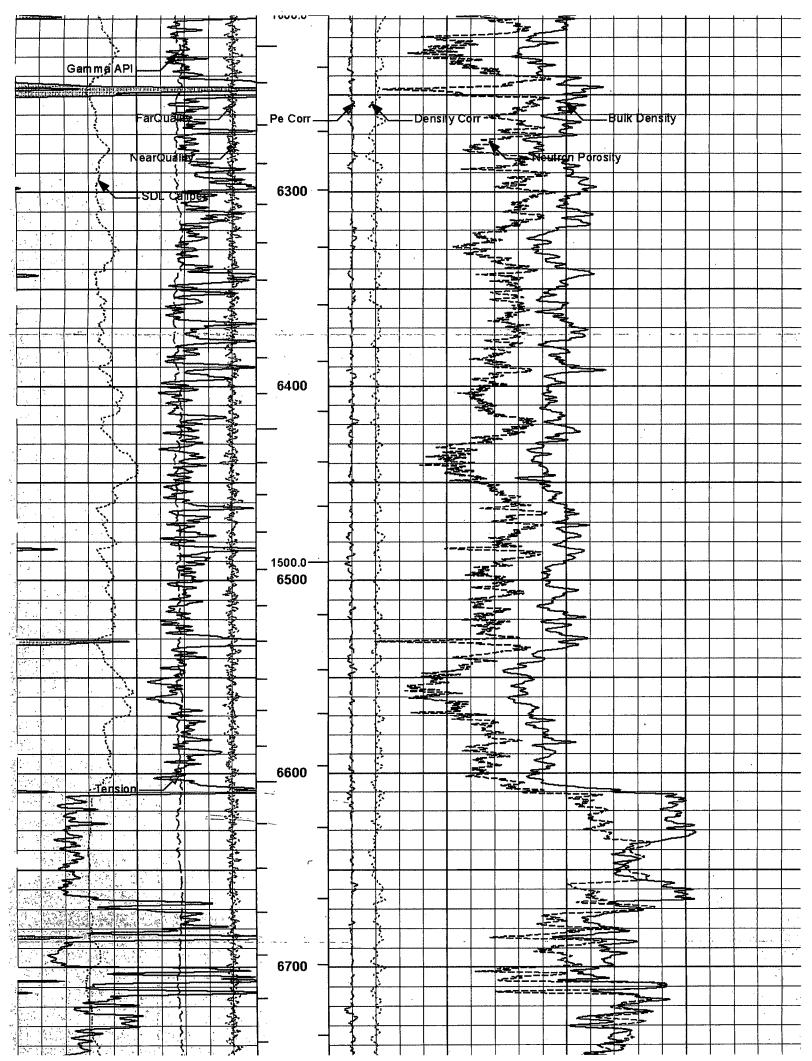
X.

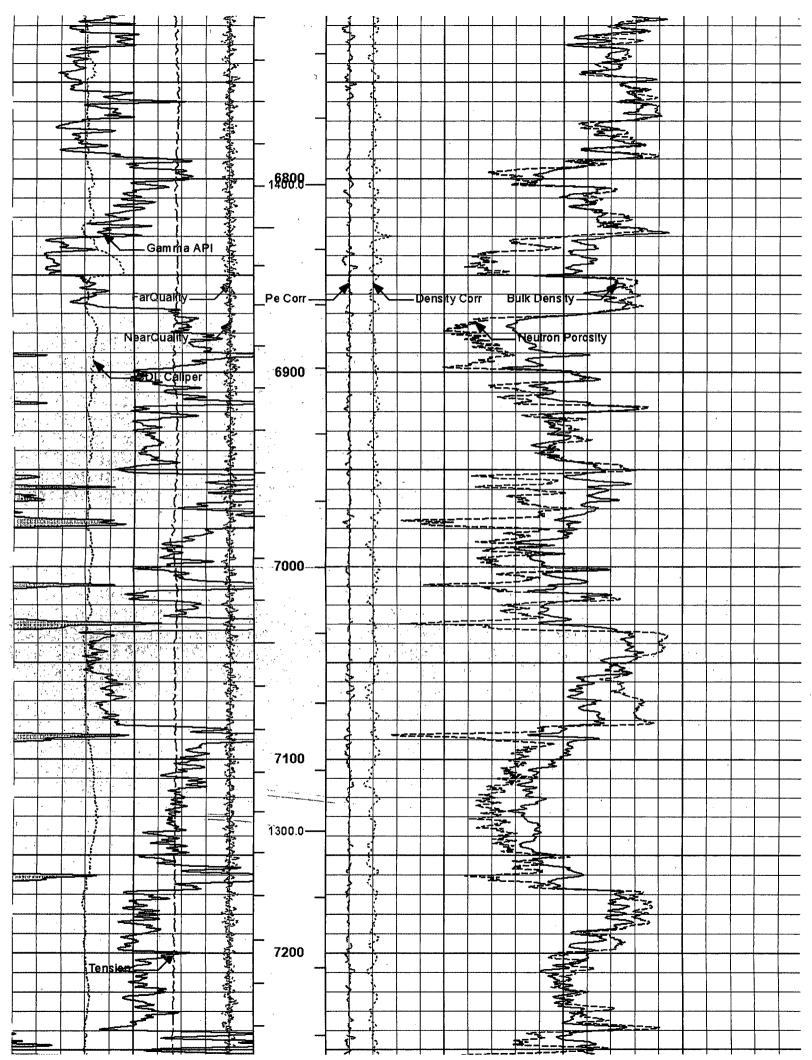
Log Across Proposed Delaware Sand Injection Interval

Will Rectary	R R R R R R R R R R R R R R R R R R R	Casing Ca	Dotte Run No. Depth - Depth - Bottom	COMPANY COG OPERATING, LLC
Time Since Circo	Source of Sampl Source of Sampl Rm @ Meas. Te Rmc @ Meas. T Rmc @ Meas. T Source Rmc.	Casing - Driller Casing - Dorller Casing - Logger Bit Size Type Fluid in Ho Density	Log measured Drilling measur Date Run No. Depth - Driller Depth - Logger Bottom - Logger	and .
	BalalalalaL		Log measured from Drilling measured from Pate Run No. Depth - Driller Depth - Logger Bottom - Logged Interval	Permanent Datus FIELD WILDCAT; BONE SPRING
lation rature Loc ation	mperature emperature	Viscosity	om from Interva	
on	ure ture	S sity		COUNTY LEA .
				COMPANY COGO WELL CORA FIELD WILDO API NO. 30-025-40130 Location 330' FNL AND 330 GL Sect. 4 Twp. GL
60'ht 42: 12:Julii 11'04'42: 156:0' degle 10793700 ,YASIN' ABULA! KEATON WAT	FLOW LINE 0.060 ohmm 0.04 ohmm 0.075 ohmm , MEAS, 0.03 ohmm	9.625 in 9.625 in 5493.0 ft 8.750 in BRINE 9.7 ppg 9.7 ppg	KB KB 12-Jul-11 ONE 11715.00 ft 11712.0 ft	COMPANY WELL FIELD COUNTY API NO. 30-03 Location 330 CGL KB
30 nr 12-Jule11 04:42 156.0 degle @ 1 10793700 H YASIN ABULAHA KEATON WATERS	FLOW LINE 1.060 ohmm 1.075 ohmm 1.075 ohmm MEAS		00 = 11	
42 @ QATER				TON NY COG OPE CORAZON WILDCAT Y LEA 30-025-40130 330' FNL AND 330' FWL Twp. 218
@ 14712 HOBBS	75.00 (75.00 (75.00 (75.00 (5500.0 f		NL A C C
13.712.0.m HOBBS: NM A	75.00 degF 75.00 degF 75.00 degF 75.00 degF MEAS 156.0, degF	0.0 ft		COG COR. WILD WILD 130
Fall A Exp Part 3	9F 9F			OPE OPE
PANIEU.			-	DUAL SPACE SPECTRAL COG OPERATING, LLC CORAZON STATE UNIT 4 No. 4H WILDCAT; BONE SPRING LEA STATE AND 330' FWL Rige. 33E Elev. 3755.0 ft Elev. 3755.0 ft
			21	ON TA
用自河之			21.5 ft above perm. Datum	
			bove	DUAL SPACED NEUTRON SPECTRAL DENSITY G, LLC G, LLC STATE NEW MEXICO Other Services: DLT/MGRD RSCT XRMI Elev. 3755.0 ft Elev: KB.
			perm	EEV 3 SE SE SE SE SE SE SE SE SE SE SE SE SE
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			<u> </u>	
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				6
			3775.5 ft 3755.0 ft	3776.5
			.5 #	n Ón
			Fold here	916
Service Ticket No 83	305229	· · · · · · · · · · · · · · · · · · ·		. PGM Version: WL INSITE R3.2.3 (Build 5)
	HANGEIN MUDITYPE	OR ADDITIONAL SAMP		RESISTIVITY SCALE CHANGES
Date Sample Depth-Driller				Type Log Depth Scale Up Hole Scale Down Hole
Type Fluid in Hole				
Density . Viscosi				
Phi Fluid Lo Source of Sample	oss			RESISTIVITY EQUIPMENT DATA
Rm @ Meas. Temp	@		@ F	Run No. Tool Type & No. Pad Type Tool Pos. Other
	. @		@	
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Rmc.@ Meas. Temp. Source Rmf Rmc Rm @ BH T. Rmf @ BH T Rmc @ BH T GAN Run No. Serial No. Model No. Diameter	@ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	Run No. Serial No. Model No. No. of Cent. Spacing	@ FQUIPMENT STIC Ru: Sei Mo Dia	T DATA
Rmc.@ Meas. Temp. Source Rmf Rmc Rm @ BHT. Rmf @ BHT Rmc @ BHT GAN Run No. Serial No. Model No. Diameter Detector Model No.	@ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	Run No. Serial No. Model No. No. of Cent. Spacing	@ EQUIPMENT STIC Ru Sei Mo Dia Log Sei	T DATA









XI.

Fresh Water Sample Analyses



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 31-36

Township: 20S

Range: 34E

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.



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 3-5

Township: 21S

Range: 33E

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.



November 1, 2012

Hobbs News-Sun P.O. Box 850 Hobbs, NM 88240

Re:

Legal Notice

Salt Water Disposal Well Corazon 4 State SWD No. 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

BC/sw Enclosures

HOBBS NEWS-SUN LEGAL NOTICES

COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico, 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 Corazon 4 State SWD No. 1 is located 3800' FNL and 2500' FEL, Sec. 4, Township 21 South, Range 33 East, Lea 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 Delaware formation at a depth of 5550' to 7175' at a maximum surface pressure of 1110 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 25 miles west of Eunice. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, 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, New Mexico 88210, or call 575-748-6940.

Published	in the	Hobbs	News-S	un I	Hobbs,	New	Mexico
		, 20	12.				



RECEIVED OCD

2017 DEC 13 P 1: 35

December 7, 2012

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

Re:

Affidavit of Publication/Certified Return Receipts

Corazon 4 State SWD No. 1

Township 21 South, Range 33 East, N.M.P.M.

Section 4: 3800' FNL & 2500' FEL

Lea County, New Mexico

Dear Mr. Jones:

Enclosed, per your request, please find one copy of the affidavit of publication and on copy of the certified return receipts from each party that was notified. Please note the Certified Mailers were sent out on November 1, 2012.

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

Affidavit of Publication

State of New Mexico, County of Lea.

I. JUDY HANNA **PUBLISHER**

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 1 issue(s). Beginning with the issue dated November 10, 2012 and ending with the issue dated November 10, 2012

PUBLISHER

Sworn and subscribed to before me this 12th day of November, 2012

Notary Public

My commission expires January 29, 2015



OFFICIAL SEAL **GUSSIE BLACK Notary Public** State of New Mexico My Commission Expires 1-291

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL

LEGAL

LEGAL NOTICES November 10, 2012

COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico, 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 Corazon 4 State SWD No. 1 is located 3800' FNL and 2500' FEL, Sec. 4. Township 21 South, Range 33 East, Lea 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 Delaware formation at a depth of 5550' to 7175' at a maximum surface pressure of 1110 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 25 miles west of Eunice. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, 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, New Mexico 88210, or call 575-748-6940. #27700

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COG OPERATING LLC FASKEN CENTER, TOWER II 550 W. TEXAS AVE., STE 1300 MIDLAND, TX 79701

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Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Tuesday, December 18, 2012 9:24 AM

To:

'Brian Collins'

Cc:

Kautz, Paul, EMNRD; Warnell, Terry G. (twarnell@slo.state.nm.us)

Subject:

Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA

Delaware Perforations

Hello Brian,

This well is just west of the Lightning – could I assume the same Delaware formation tops? (Delaware/Cherry C. at approx. 5580 and Brushy C. at 6740 feet.)
These wells penetrate the Potash and the Reef, I know there is a protective string, but would you also ask your Geo if the Castille is present and if so, at what depths?

Also, as before please send proof of notice (Copy of the C-108) to;

The State Land Office as the surface owner and

The nearest Potash Lessee or certify that there is no Lessee within 1 mile or so.

Thank You Sir

Will Jones

Jones, William V., EMNRD

From:

Brian Collins < BCollins@concho.com>

Sent:

Tuesday, December 18, 2012 11:16 AM

To:

Jones, William V., EMNRD

Subject:

FW: Disposal application from COG Operating LLC: Corazon 4 State SWD #1.30-025-NA

Delaware Perforations

Will:

There are no potash leases near the Corazon 4 St SWD 1. The letter to the SLO will be mailed today. I'll let you know on the geological questions. Thanks. --Brian

From: Rand French

Sent: Tuesday, December 18, 2012 12:02 PM

To: Brian Collins

Subject: Re: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Brian. There is not any potash leased within the Corazon Unit

From: Brian Collins

Sent: Tuesday, December 18, 2012 11:21 AM **To**: Pat Welch; Bobbie Goodloe; Rand French

Subject: FW: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Pat: Would you guys check on the Delaware tops and Castille (if present) per Will Jones' request shown below?

Bobbie: Would you prepare SLO notification letter?

Rand: Is the Corazon close to any leased potash? If so, do you know who we would need to notify?

Thank you all. --Brian

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

Sent: Tuesday, December 18, 2012 10:24 AM

To: Brian Collins

Cc: Kautz, Paul, EMNRD; Warnell, Terry G.

Subject: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Hello Brian,

This well is just west of the Lightning – could I assume the same Delaware formation tops? (Delaware/Cherry C. at approx. 5580 and Brushy C. at 6740 feet.)

These wells penetrate the Potash and the Reef, I know there is a protective string, but would you also ask your Geo if the Castille is present and if so, at what depths?

Also, as before please send proof of notice (Copy of the C-108) to;

The State Land Office as the surface owner and

From: Brian Collins [mailto:BCollins@concho.com]
Sent: Tuesday, December 18, 2012 1:45 PM

To: Jones, William V., EMNRD

Subject: FW: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Will:

The geological information is shown below. Let me know if you need anything else. Thanks. --Brian

From: David DaGian

Sent: Tuesday, December 18, 2012 2:25 PM

To: Brian Collins **Cc:** Pat Welch

Subject: FW: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Brian,

We do not pick the Castile formation in this area. We are within the Reef and the Castile anhydrite section sits out in front of the reef which is further SW into the Basin.

The shallow tops for this location are:

Rustler: 1713' Top of Salt: 1824' Base of Salt: 3562' Yates: 3722'

1ates. 3/22

Seven Rivers: 3866' Capitan (Reef): 4011'

Delaware(Cherry Canyon): 5556'

Brushy Canyon: 6660'

Thanks,

David DaGian

Geologist – New Mexico Basin Team COG OPERATING LLC One Concho Center 600 W. Illinois Avenue Midland, TX 79701

Office: 432-221-0415 Cell: 432-488-9133 ddagian@concho.com

SCONCHO

From: Pat Welch

Sent: Tuesday, December 18, 2012 11:27 AM

To: David DaGian

Subject: FW: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Tuesday, December 18, 2012 3:51 PM

To:

'Brian Collins'

Subject:

RE: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA

Delaware Perforations

Brian

Thanks for the detail.

That's all I need - Thank You!

From: Brian Collins [mailto:BCollins@concho.com] **Sent:** Tuesday, December 18, 2012 2:24 PM

To: Jones, William V., EMNRD

Subject: RE: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Will:

It looks like the main reef porosity is from 4011' to 5033'. There appears to be low porosity (tight) rock from 5033-5160', good porosity stringer 5160-5200', low porosity 5200-5225', moderate porosity 5225-5310', low porosity 5310-5435', three moderate to good porosity stingers 5435-5483' and low porosity 5483-5576' (Delaware). The Delaware 5576-5960' is composed of good porosity sands interbedded in low porosity dolomites. The massive Delaware Sand really starts at 5960'.

I'm not planning to frac the well unless necessary for injectivity. If we do have to frac, I feel like there will be adequate frac barriers due to the many low porosity intervals from the top of the Delaware to the base of the high porosity portion of the reef. Having said that, I have no problem with running an injection profile and I have no problem with moving the uppermost perforated zone further down hole, say the top perf at 5720', to gain more distance from the reef.

Let me know if you need more info or want me to scan the small-scale cased-hole porosity log across this interval to you. Thanks.

Brian

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

Sent: Tuesday, December 18, 2012 2:55 PM

To: Brian Collins

Subject: RE: Disposal application from COG Operating LLC: Corazon 4 State SWD #1 30-025-NA Delaware Perforations

Brian,

Since the Reef is on top of the Delaware in this area, is there any chance the disposal waters would break up into the reef?

Will there be any stress barriers to stop that?

... especially if you frac these wells.

Do we need to run a one-time injection survey to make sure?

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