

DATE IN 07/27/2015	SUSPENSE	ENGINEER TAG/WS	LOGGED IN 07/28/15	TYPE SWD	APP NO. PRG1520953398
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

RECEIVED UCD - Engineering Bureau -

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

2015 JUL 27 P 3:03



### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

**[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]**

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] 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] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ 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] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **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  
Print or Type Name

Signature

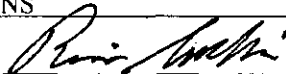
Operations Engineering Advisor  
Title

Date

bcollins@concho.com  
e-mail Address

COG Operating  
 Gold Coast 26 Fed.  
 SWD No. 3  
 30-025-Pending  
 K/S26/24S/32E  
 Dev. / Sil / ord.

**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 West Main St, 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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. 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 TITLE: Operations Engineering Advisor  
SIGNATURE:  DATE: 22 July 2015  
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  
GOLD COAST 26 FEDERAL SWD No. 3  
2560' FSL, 2560' FWL  
Unit K, Sec 26, T24S, R32E  
Lea County, NM

COG Operating, LLC, proposes to drill the captioned well and make it into an open hole Devonian-Silurian-Ordovician SWD well from approximately 17,050' to 19,000'.

- 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 = 17,300 BWPD  
Proposed maximum daily injection rate = 25,000 BWPD
  - 2. Closed system
  - 3. Proposed maximum injection pressure = 3410 psi  
(0.2 psi/ft. x 17050' ft.)
  - 4. Source of injected water will be Delaware Sand, Bone Spring and Wolfcamp produced water. No compatibility problems are expected (we've seen no compatibility issues in other Devonian SWDs that take the same produced water as the proposed SWD well). Analyses of Delaware, Bone Spring and Wolfcamp waters are attached. There are no Devonian-Silurian-Ordovician receiving formation water analyses available in this area.
- VIII. The injection zone is the Devonian-Silurian-Ordovician from 17050' to 19000' which is composed of porous limestone and dolomite. Any underground water sources will be shallower than 728' which is the estimated top of the Rustler Anhydrite.
- IX. The Devonian-Silurian-Ordovician injection interval will be acidized with approximately 40,000 gals of 20% HCl acid.
- X. Well logs will be filed with the Division. A section of a sonic porosity log for the top of the Devonian on the State 29 J #1 located in Section 29-24s-33e is attached. There are no nearby well logs available for the Devonian-Silurian-Ordovician section.
- 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**

## INJECTION WELL DATA SHEET

OPERATOR: COG Operating, LLC

WELL NAME & NUMBER: Gold Coast 26 Federal SWD #3

WELL LOCATION: 2560' FSL 2560' FWL K 26 24s 32e

FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 26" Casing Size: 20" @ ± 750'

Cemented with: - sx. or ± 2000 ft<sup>3</sup>

Top of Cement: Surface Method Determined: Design

Intermediate Casing

Hole Size: 17 1/2" Casing Size: 13 3/8" @ ± 4900'

Cemented with: = sx. or ± 6500 ft<sup>3</sup>

Top of Cement: Surface Method Determined: Design

Top of Cement: ± 4400'

Production Casing

Hole Size: 8 1/2" Casing Size: 7" liner ± 12000-17050'

Cemented with: - sx. or ± 950 ft<sup>3</sup>

Top of Cement: Top of liner Method Determined: Design

Total Depth: 19000'

Injection Interval

17050' feet to 19000'

(Perforated or Open Hole indicate which)

See Attached Schematic

## INJECTION WELL DATA SHEET

Tubing Size: 4 1/2" Lining Material: Fiberglass or Thermoplastic  
Type of Packer: 10K CRA Permanent Prr or 10K nickel plated double grip retrievable  
Packer Setting Depth: ± 17000'  
Other Type of Tubing/Casing Seal (if applicable): N/A

### Additional Data

1. Is this a new well drilled for injection? ☒ Yes ☐ No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

2. Name of the Injection Formation: Devonian / Silurian / Ordovician

3. Name of Field or Pool (if applicable): Double X, Paduca 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: N/A

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: Bell Canyon (Delaware)  $\pm 4950-5000'$ . Sec 12-24s-32c (not productive Sec 26-24s-32e)

Bone Spring  $\pm 9000-11000'$ , Wolfcamp  $\pm 13600'$ , Strawn  $\pm 14200'$   
Morrow  $\pm 15,100'$

30-

Gold Coast 26 Federal SWD #3

2560' FSL, 2560' FWL

K-26-24s-32e

Lea, NM

26"

20" / / /

e ±750' ±2000 CF Cmt

17 1/2"

TOC @ 4400' Design

13 3/8" / / /

@ ±4900' ±6500 CF Cmt

12 1/4"

4 1/2" Inj. Tbg

8 1/2"

9 5/8" / / /

@ ±12,200' ±3500 CF Cmt

Inj Pkr @ ±17000'

7" / / /

Liner @ ±12000' - 17050' ±950 CF Cmt

6 1/8"

Devonian/Silurian/Ordovician  
OH Inj. Interval

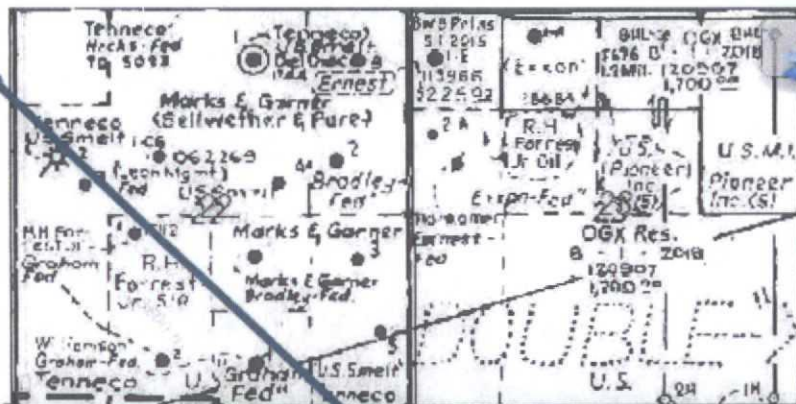
19000'


"Not To Scale"

**V.**

**MAP**

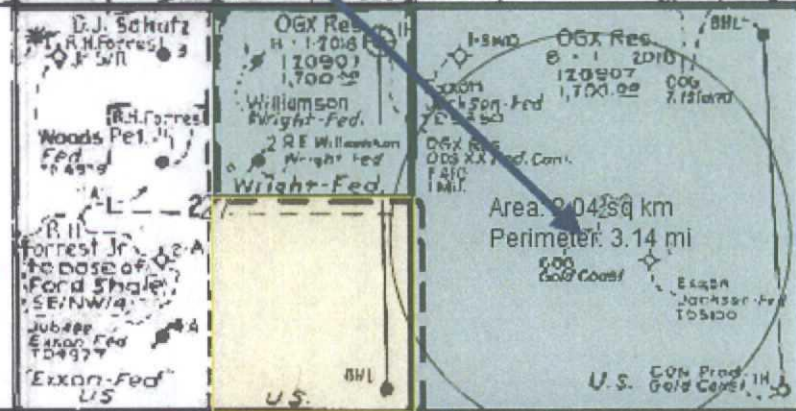
Gold Coast 26 Federal SWD #3  
2560' FSL & 2560' FWL  
SEC. 26: T24S - R32E  
Lea County, NM



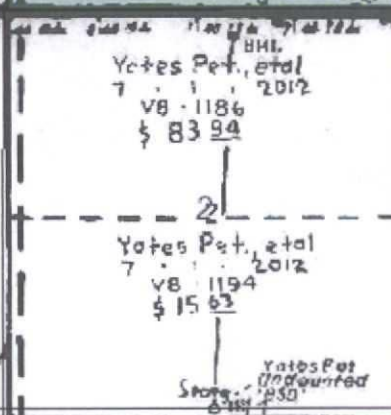
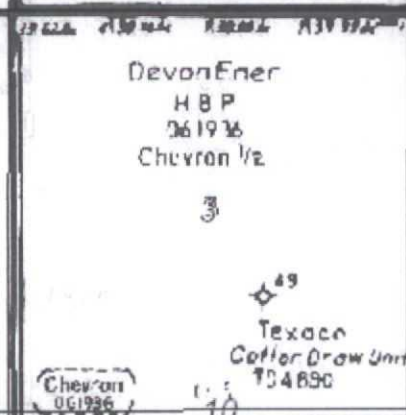
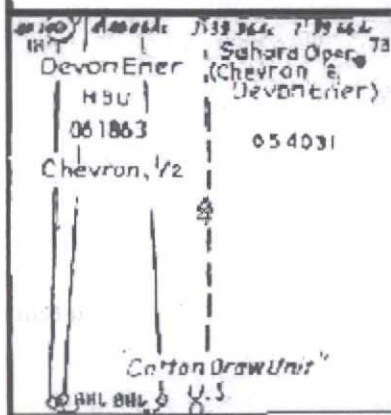
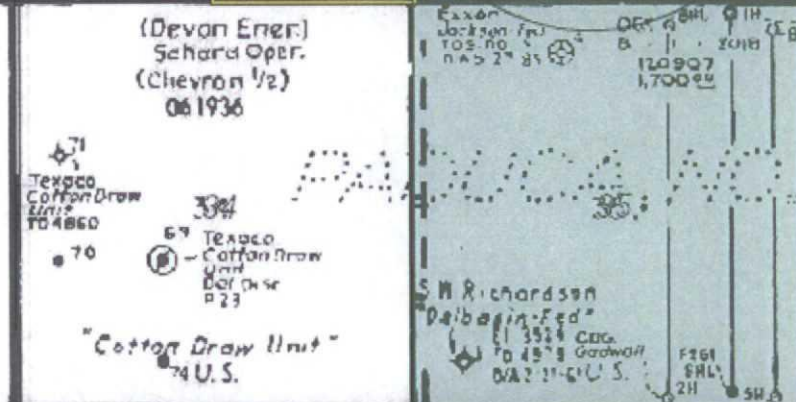
 Chevron USA Inc.  
3310 W Wall St  
Midland, TX 79701

Chevron USA, Inc.  
P.O. Box 2100  
Houston, TX 77252

Devon Energy Production Co., LP  
333 W. Sheridan  
Oklahoma City, Oklahoma 73102



 COG  
2208 West Main Street  
Artesia, NM 88210



# **VII.**

## **Water Analysis Produced Formation Water**

WATER SAMPLES REPRESENTATIVE OF WATER BEING INJECTED INTO THE PROPOSED SWD WELL												
<b>Delaware</b>												
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
2011128362	Sly Hawk State	1	William D Polk	9/28/2011	9/13/2011	1.17	4.06	256802.26	6.50		26180.00	4101.14
<b>Bone Spring</b>												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2012104723	Phantom 18 State	2H	William D Polk	2/29/2012	1/6/2012	1.09	2.23	136209.81	6.52		6156.63	1132.53
<b>Wolfcamp</b>												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2012105892	Augustus 10	1H		3/15/2012	3/8/2012	1.06	1.46	89771.55	6.60		3963.30	639.83
2011128833	Trail Boss 4	4H	William D Polk	9/30/2011	9/21/2011	1.05	1.31	78745.89	7.10		3143.00	406.00

81017.80	66969.32	1342.77	64.22	35.40	4.51	1492.00	24.27		122.00	0.00		450.00	151300.00	250.00	0.00	
83379.63	62970.16	1133.12	38.78	20.06	1.64	905.03	9.33		73.00	0.00		70.00	161300.00	360.00	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)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)	
20530.54	43509.27	957.44	0.00	28.72	0.00	414.86	1.36		159.00	0.00		850.00	83000.00	140.00	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)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)	
13352.51	28320.32	350.70	0.00	17.85	1.77	707.79	0.00		220.00	0.00		950.00	54600.00	60.00	0.00	
10421.23	27950.00	433.00		15.00	2.48	780.00	0.41		366.00	0.00		150.00	45500.00	140.00	0.00	

**X.**

**Sonic Log Across Upper  
Portion of Proposed Devonian  
Injection Interval  
From Well in Area**

**30-025-26158**

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**WILBER**

STATE "2911" J 41

29-5

SERIAL NO.	SEC.	TWP.
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1980' FSL & 1980' FEL

Other Services:  
CME/PTOC  
DIL/MSFL  
CYBERA OOK

Permanent Datum: C.L. Elev.: 3520  
 Log Measured From: K.B. 23.5 ft. Above Perm. Datum  
 Drilling Measured From: K.B.

Rev: KA 1543.5  
DP 1542.5  
CA 1520

Date	12-25-79	1-27-79	4-9-79	4-26-79
Run No.	ONE	TWO	THREE	FOUR
Depth—Driller	5227	12620	16957	17452
Depth—Logger (Schl.)	5230	12616	16947	17445
Strm. Log Interval	5225	12616	16935	17435
Top Log Interval	5000	5228	12612	16906
Casing—Driller	20" @ 637	13 1/8 @ 5227	9 5/8 @ 12620	7" @ 6932
Casing—Logger		5228	12612	16906
Bit Size	17 1/2	12 1/4	8 1/2	6 1/8
Type Fluid in Hole	BRINE	SALT MUD	FRESH GEL	BRINE
Dens. Log	10.1	8.9	14.1	9.8
Fluid Loss	10	9.2	9.5	9.5
Source of Sample	PIT	FLOAM LINE	SHALE STRAKE	PIT
Rm @ Meas. Temp.	0589 @ 52 F	107 @ 58 F	1.59 @ 80 F	044 @ 78 F
Rm @ Meas. Temp.	0589 @ 52 F	095 @ 58 F	1.20 @ 78 F	044 @ 78 F
Rmc @ Meas. Temp.	1.1 @ F	@ F	2.31 @ 80 F	@ F
Source: Rm	Rmc	M	M	M
Rm @ BHT	0297 @ 10 F	042 @ 15 F	.53 @ 250 F	015 @ 57 F
Circulation Stopped	1900	1200	0000	1600
Logger on Bottom	2200	1200	0800	0100
Meas. Rec. Temp.	103 F	159 F	250 F	257 F
Equip. Location	R075 HORNS	R050 MID OH	R050 MID OH	R078 HORNS
Recorded By	PRINCEAS	MILLER	SHELANDER	MCNIGHT
Witnessed By Mr.	THOMAS	EDGET	EDGET	EDGET

**SOLD HERE** The well name, location and borehole reference data were furnished by the customer.

Roll No.	ONE	TWO	THREE	FOUR	SCALE CHANGES				
Service Order No.	59460				Type Log	Depth	Scale Up Hole	Scale Down Hole	
Fluid Level		FULL	FULL	FULL					

CALIBRATION DATA				REMARKS	
GR	BKG CPS	18	SEE CAL	18	RUN ONE, CYCLE SKIPPING DUE TO HOLE SIZE AND WASHOUTS. STANDOFF USED INSTEAD OF CALIPER. CALIPER OMITTED DUE TO HOLE SIZE AND CENTRALIZATION PROBLEMS.
	Source CPS	188	FILM	181	
	Tc Sec				
				Velocity (ft/sec) = 1,000,000	
				Interval/Transit/Time (microseconds per foot)	

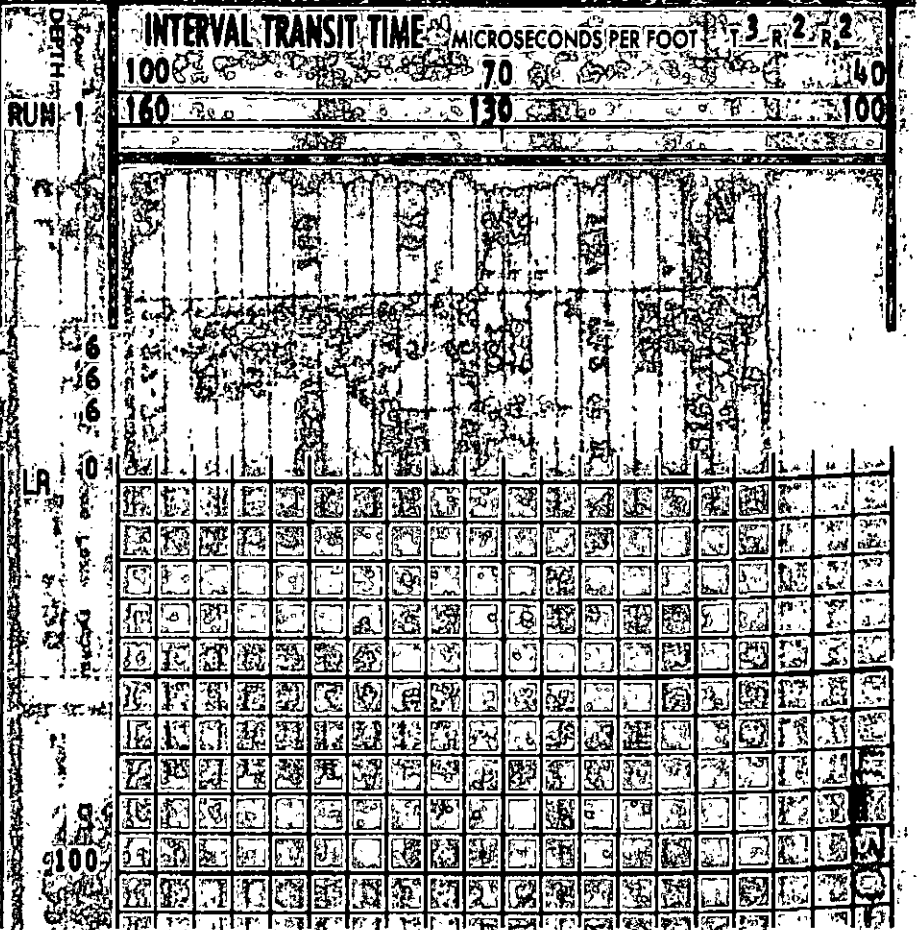
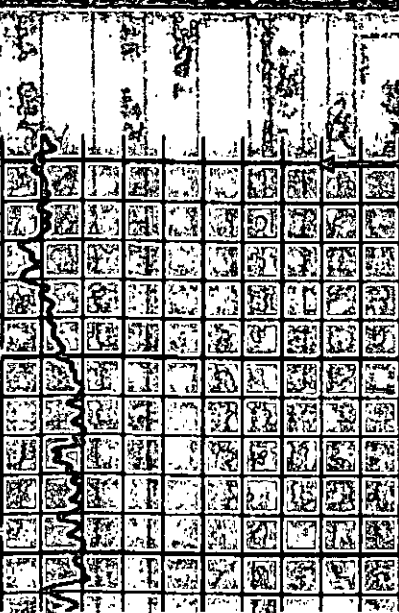
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation; and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions which are incorporated herein by reference.

85485-55502

**GAMMA RAY** YAPIS UNITS

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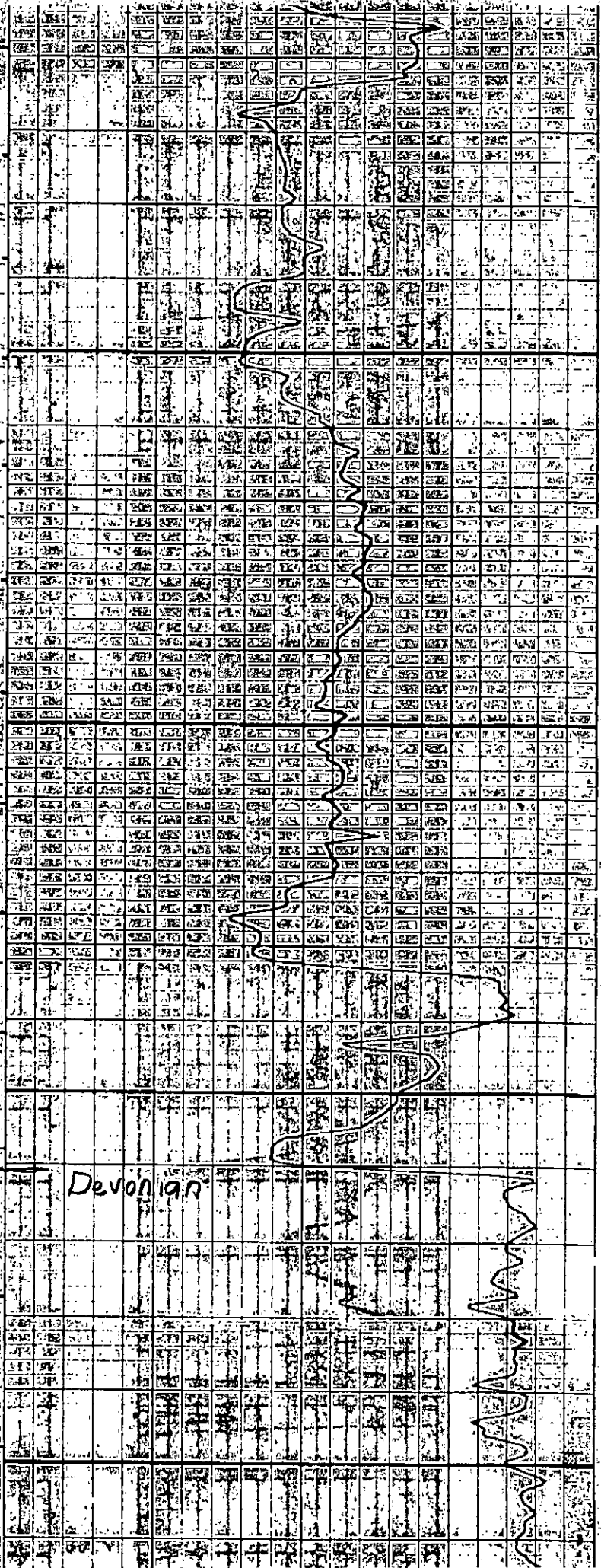
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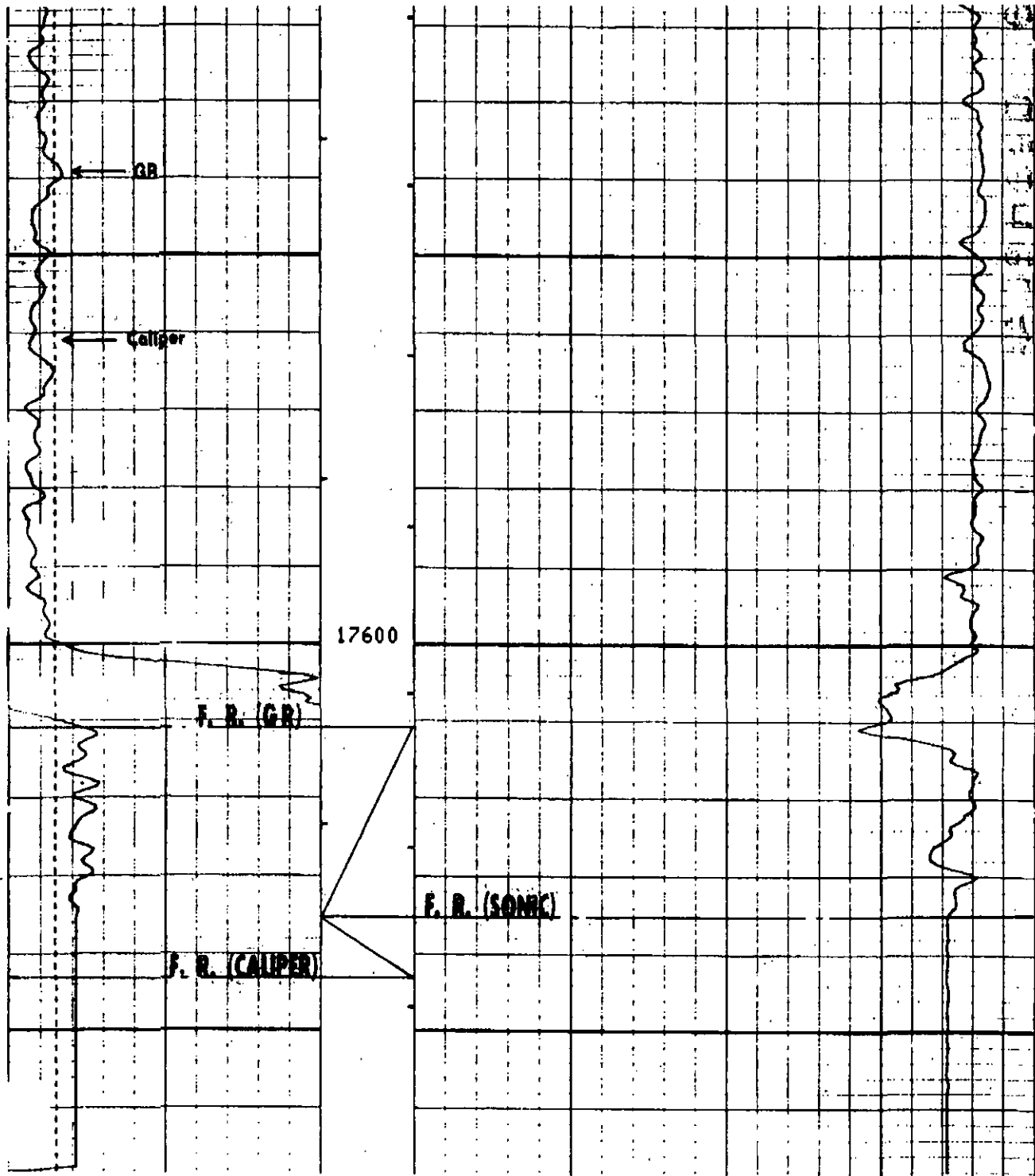




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# **XI.**

## **Fresh Water Sample Analyses**



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*New Mexico Office of the State Engineer*  
**Active & Inactive Points of Diversion**  
(with Ownership Information)

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No PODs found.

**PLSS Search:**

**Section(s):** 22, 23, 24, 25,  
26, 27, 34, 35,  
36  
**Township:** 24S  
**Range:** 32E



July 22, 2015

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

Re: Legal Notice  
Salt Water Disposal Well  
Gold Coast 26 Federal SWD #3

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  
Operations Engineering Advisor

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 Gold Coast 26 Federal SWD No. 3, is located 2560' FSL and 2560' FWL, Section 26, Township 24 South, Range 32 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware, Bone Spring and Wolfcamp formations. The disposal water will be injected into the Devonian-Silurian-Ordovician formation at a depth of 17,050' to 19,000' at a maximum surface pressure of 3410 psi and a maximum rate of 25,000 BWPD. The proposed SWD well is located approximately 27 miles west of Jal. 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-Sun Hobbs, New Mexico  
\_\_\_\_\_, 2015.



July 22, 2015

Chevron USA Inc.  
3310 W Wall St  
Midland, TX 797

RE: Application For Authorization To Inject  
Gold Coast 26 Federal SWD #3  
Township 24 South, Range 32 East, N.M.P.M.  
Section 26: 2560' FSL & 2560' FWL  
Lea 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 the surface owner or an operator within a half mile radius area of review. 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  
Operations Engineering Advisor

BC/sw  
Enclosures

CORPORATE ADDRESS

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701  
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS

Concho West | 2208 West Main Street | Artesia, New Mexico 88210  
PHONE 575.748.6940 | FAX 575.748.6968



July 22, 2015

Chevron USA, Inc.  
P.O. Box 2100  
Houston, TX 77252

**RE: Application For Authorization To Inject  
Gold Coast 26 Federal SWD #3  
Township 24 South, Range 32 East, N.M.P.M.  
Section 26: 2560' FSL & 2560' FWL  
Lea 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 the surface owner or an operator within a half mile radius area of review. Any objections must be submitted in writing to NMOCOD, 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  
Operations Engineering Advisor

BC/sw  
Enclosures

**CORPORATE ADDRESS**

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701  
PHONE 432.683.7443 | FAX 432.683.7441

**LOCAL ADDRESS**

Concho West | 2208 West Main Street | Artesia, New Mexico 88210  
PHONE 575.748.6940 | FAX 575.748.6968



July 22, 2015

Oil Conservation Division  
Attn: Paul Kautz  
1625 North French Dr.  
Hobbs, NM 88240

RE: Application For Authorization To Inject  
Gold Coast 26 Federal SWD #3  
Township 24 South, Range 32 East, N.M.P.M.  
Section 26: 2560' FSL & 2560' FWL  
Lea County, New Mexico

Dear Mr. Kautz:

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.

Our geologic prognosis has the top of the Devonian at 17281'. I'm permitting the injection interval a couple of hundred feet shallower than the prognosis in case the formation tops are different than expected due to the lack of deep well control in this area. We will likely call TD about 1250' to 1500' below the actual top of the Devonian when we drill the well.

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

Sincerely,

Brian Collins  
Operations Engineering Advisor

BC/sw  
Enclosures

CORPORATE ADDRESS

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701  
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS

Concho West | 2208 West Main Street | Artesia, New Mexico 88210  
PHONE 575.748.6940 | FAX 575.748.6968



July 22, 2015

New Mexico Oil Conservation Division  
Attn: Phillip Goetze  
1220 South St. Francis Drive  
Santa Fe, NM 87505

RE: Application For Authorization To Inject  
Gold Coast 26 Federal SWD #3  
Township 24 South, Range 32 East, N.M.P.M.  
Section 26: 2560' FSL & 2560' FWL  
Lea County, New Mexico

Dear Mr. Goetze:

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.

Our geologic prognosis has the top of the Devonian at 17281'. I'm permitting the injection interval a couple of hundred feet shallower than the prognosis in case the formation tops are different than expected due to the lack of deep well control in this area. We will likely call TD about 1250' to 1500' below the actual top of the Devonian when we drill the well.

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

Sincerely,

Brian Collins  
Operations Engineering Advisor

BC/sw  
Enclosures

**CORPORATE ADDRESS**

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701  
PHONE 432.683.7443 | FAX 432.683.7441

**LOCAL ADDRESS**

Concho West | 2208 West Main Street | Artesia, New Mexico 88210  
PHONE 575.748.6940 | FAX 575.748.6968



RECEIVED OCD

2015 JUL 27 P 3: 03

July 22, 2015

New Mexico Oil Conservation Division  
Attn: Phillip Goetze  
1220 South St. Francis Drive  
Santa Fe, NM 87505

RE: Application For Authorization To Inject  
Gold Coast 26 Federal SWD #3  
Township 24 South, Range 32 East, N.M.P.M.  
Section 26: 2560' FSL & 2560' FWL  
Lea County, New Mexico

Dear Mr. Goetze:

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

Sincerely,

Brian Collins  
Operations Engineering Advisor

BC/sw  
Enclosures

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, 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  
July 28, 2015  
and ending with the issue dated  
July 28, 2015.



Publisher

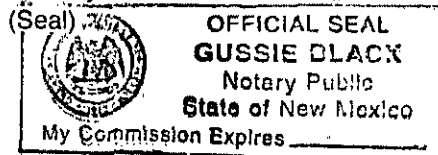
Sworn and subscribed to before me this  
28th day of July 2015.



Business Manager

My commission expires  
January 29, 2019

(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

**LEGAL NOTICE**  
July 28, 2015

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 Gold Coast 28 Federal SWD No. 3, is located 2580' FSL and 2580' FWL, Section 26, Township 24 South, Range 32 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware, Bone Spring and Wolfcamp formations. The disposal water will be injected into the Devonian-Silurian-Ordovician formation at a depth of 17,050' to 19,000' at a maximum surface pressure of 3410 psi and a maximum rate of 25,000 BWP/D. The proposed SWD well is located approximately 27 miles west of Jalisco. 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. #30222

67112034

00160240

BRIAN COLLINS  
COG OPERATING LLC  
2208 W. MAIN ST.  
ARTESIA, NM 88210

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
NMNM

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator  
COG Operating LLC

3a. Address  
2208 W Main Street  
Artesia, NM 88210

3b. Phone No. (include area code)  
575-748-6940

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2560' FSL & 2560' FWL, Section 26, T24S, R32E, N.M.P.M.

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.  
Gold Coast 26 Federal SWD #3

9. API Well No.

10. Field and Pool or Exploratory Area  
SWD; Double X, Padvca North

11. County or Parish, State  
Lea County, New Mexico

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other SWD Inject request
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

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 the surface owner or an operator within a half mile radius area of review. 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.

14. I hereby certify that the foregoing is true and correct, Name (Printed/Typed)

Brian Collins

Title Operations Engineering Advisor

Signature

Date 07/22/2015

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13* - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

## NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

**ROUTINE USES:** Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

**EFFECT OF NOT PROVIDING THE INFORMATION:** Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

7013 3020 0000 8748 8744

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)  
For delivery information visit our website at [www.usps.com](http://www.usps.com)  
**OFFICIAL USE**

New Mexico Oil Conservation Division  
Attn: Phillip Goetze  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
Gold Coast 26 Federal SWD #3

(End)  
Res  
(End)

Total Postage & Fees \$

Sent To  
Street, Apt. No.,  
or PO Box No.  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7013 3020 0000 8748 8782

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)  
For delivery information visit our website at [www.usps.com](http://www.usps.com)  
**OFFICIAL USE**

Postage \$

Devon Energy Production Co., LP  
333 W. Sheridan  
Oklahoma City, Oklahoma 73102  
Gold Coast 26 Federal SWD #3

F  
(End)  
Res  
(End)

Total

Sent To  
Street, Apt. No.,  
or PO Box No.  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

13 3020 0000 8748 8751

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)  
For delivery information visit our website at [www.usps.com](http://www.usps.com)  
**OFFICIAL USE**

Postage \$

BLM  
620 E Greene St.  
Carlsbad, NM 88220  
Gold Coast 26 Federal SWD #3

Res  
(Endorse  
Restrict  
(Endorse

Total f

Sent To

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Devon Energy Production Co., LP  
333 W. Sheridan  
Oklahoma City, Oklahoma 73102  
Gold Coast 26 Federal SWD #3

## 2. Article Number

(Transfer from service label)

7013 3020 0000 8748 8782

PS Form 3811, July 2013

Domestic Return Receipt

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

New Mexico Oil Conservation Division  
Attn: Phillip Goetze  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
Gold Coast 26 Federal SWD #3

## 2. Article Number

(Transfer from service label)

7013 3020 0000 8748 8744

PS Form 3811, July 2013

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

*David Carrillo* ☐ Agent ☒ Addressee

## B. Received by (Printed Name)

## C. Date of Delivery

JUL 27 2015

## D. Is delivery address different from item 1?

☒ YesIf YES, enter delivery address below: ☐ No

## 3. Service Type

- ☐ Certified Mail® ☐ Priority Mail Express™  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ Collect on Delivery

## 4. Restricted Delivery? (Extra Fee)

☐ Yes

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

*Barbara* ☐ Agent ☒ Addressee

## B. Received by (Printed Name)

## C. Date of Delivery

JUL 27 2015

## D. Is delivery address different from item 1?

☐ YesIf YES, enter delivery address below: ☐ No

## 3. Service Type

- ☐ Certified Mail® ☐ Priority Mail Express™  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ Collect on Delivery

## 4. Restricted Delivery? (Extra Fee)

☐ Yes

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

BLM  
620 E Greene St  
Carlsbad, NM 88220  
Gold Coast 26 Federal SWD #3

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

*David Carrillo* ☐ Agent ☒ Addressee

## B. Received by (Printed Name)

## C. Date of Delivery

150 J Street

7/27/15

## D. Is delivery address different from item 1?

☐ Yes  
If YES, enter delivery address below: ☐ No

## 3. Service Type

- ☐ Certified Mail® ☐ Priority Mail Express™  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ Collect on Delivery

## 4. Restricted Delivery? (Extra Fee)

☐ Yes

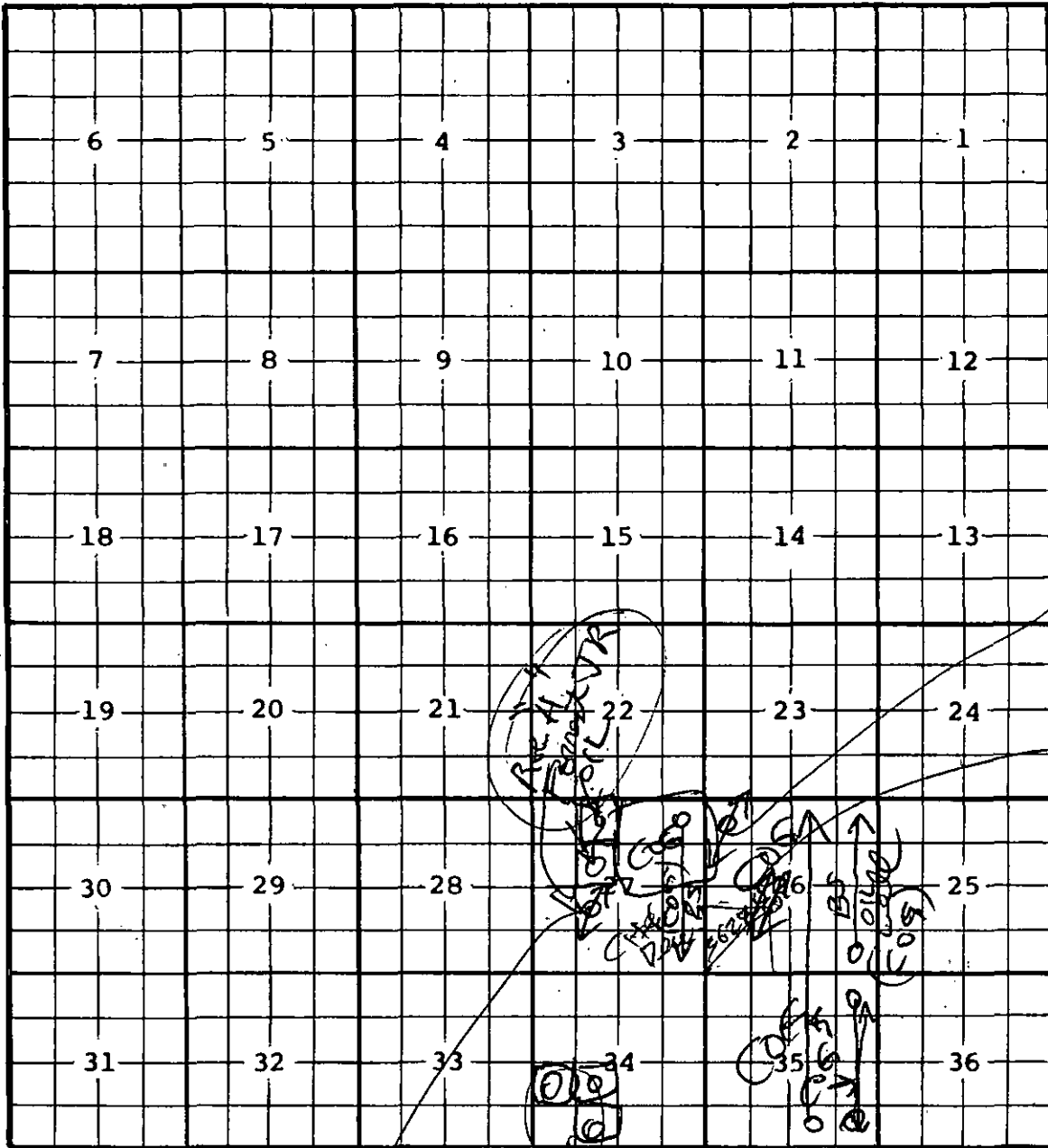
## 2. Article Number

(Transfer from service label)

7013 3020 0000 8748 8751

PS Form 3811, July 2013

Domestic Return Receipt

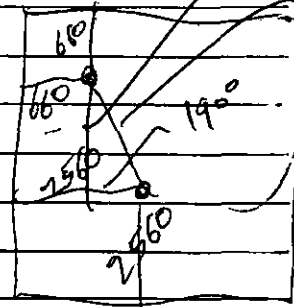


(color)  
ACTIVE  
Swd;  
Bell-chay

- SWD-1391  
 Ball-Chap  
~~Not~~  
 Drilled  
 HCT  
 in jet.

OLD TIME SWAMP

Shura



424600  
2802  
10K

## Jones, William V, EMNRD

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**From:** Jones, William V, EMNRD  
**Sent:** Wednesday, August 12, 2015 9:55 AM  
**To:** 'Brian Collins'  
**Cc:** Goetze, Phillip, EMNRD; McMillan, Michael, EMNRD  
**Subject:** SWD application for the proposed Gold Coast 26 Federal SWD Well No. 3 30-025-pending) 2560FSL/2560FWL K-26-24S-32E-Lea Devonian open hole

Hello Brian,  
I hope all is well with you?

**Notice:**

The tract map showed that possibly Devon owns a portion of the SE4 of Sec 27 ? If this is true, would you send them a notice?

Also send one to the BLM as surface and mineral owner – I know the AFE will go to the CFO but they have asked us to ensure a copy of the C-108 gets to them also.

Send me the proof of notices with the date they were mailed and the actual newspaper Ad.

**Productivity:**

You sent a sonic log of offsetting Devonian – do your geologists expect any sort of trap for this Devonian? Or chance of production? At those depths you may hit some CO2?

**Offsetting Disposal:**

I couldn't help but notice that Concho has already obtained an SWD permit and already drilled a new well for Delaware cased hole disposal in this same Q-Q and there are other Delaware SWD's in this area operated by Yates and Robert H Forrest Jr. Oil LLC. You must feel the need for much more disposal to be spending this sort of money for a new Devonian well?

Thanks for this,

Will Jones



**William V. Jones, P.E., District IV Supervisor**  
Oil Conservation Division <http://www.emnrd.state.nm.us/ocd/>  
1220 South St. Francis Drive, Santa Fe, NM 87505  
P: 505.476.3477 C: 505.419.1995

## Jones, William V, EMNRD

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**From:** Brian Collins <BCollins@concho.com>  
**Sent:** Wednesday, August 12, 2015 11:20 AM  
**To:** Jones, William V, EMNRD  
**Cc:** Goetze, Phillip, EMNRD; McMillan, Michael, EMNRD  
**Subject:** RE: SWD application for the proposed Gold Coast 26 Federal SWD Well No. 3 30-025-pending) 2560FSL/2560FWL K-26-24S-32E-Lea Devonian open hole

Will:

Here's answers to some of your questions. Other answers will follow.

Notice: We sent notice to Devon and BLM. BLM has us send C108 package to them via sundry notice. Marissa Villa is sending you the mailing receipts.

Productivity: We don't expect hydrocarbons to be present in the Devonian. I'm checking with our geologist concerning any potential structural closure and will let you know what he says.

Offsetting Disposal: The Gold Coast 26 Federal #1 just went into service as a Delaware disposal well. We have so much development going on in this area that we are going to need more SWD wells and a large water gathering system to connect them. The new proposed SWD's will be deep Devonian disposal wells. Our water gathering system will connect the Gold Coast 26 Fed SWD 1 (Delaware), Macho Nacho 7 St SWD 1 (Delaware), Eata Fajita 8 St SWD 1 (Delaware), proposed Macho Nacho 7 St SWD 2 (Devonian), proposed Gold Coast 26 Fed SWD 3 (Devonian) and soon-to-be-proposed King Tut 30 Fed SWD 1.

So far we continue to be fairly busy—hope oil prices don't fall with additional oil produced by Iran... Thanks.

### Brian Collins

Operations Engineering Advisor  
NM Basin Team

COG OPERATING LLC  
2208 W. Main Street  
Artesia, New Mexico 88210-3720  
Phone # 575.748.6924  
Email: [bcollins@concho.com](mailto:bcollins@concho.com)



*- Need Newspaper NOTICE 7/28*  
*- Release 8/14/15*

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**From:** Jones, William V, EMNRD [mailto:WilliamV.Jones@state.nm.us]  
**Sent:** Wednesday, August 12, 2015 9:55 AM  
**To:** Brian Collins  
**Cc:** Goetze, Phillip, EMNRD; McMillan, Michael, EMNRD  
**Subject:** SWD application for the proposed Gold Coast 26 Federal SWD Well No. 3 30-025-pending) 2560FSL/2560FWL K-26-24S-32E-Lea Devonian open hole



C-108 Review Checklist: Received \_\_\_\_\_ Add. Request: \_\_\_\_\_ Reply Date: \_\_\_\_\_ Suspended: \_\_\_\_\_ [Ver 14]

PERMIT TYPE: WFX / PMX / SWD Number: 1566 Permit Date: 8/14/15 Legacy Permits/Orders: \_\_\_\_\_

Well No. \_\_\_\_\_ Well Name(s): GOLD COAST 26 Federal SWD well no. 3

API: 30-0 25- Pad Spud Date: Nov 2014 New or Old: \_\_\_\_\_ (UIC Class II Primacy 03/07/1982)

Footages 2560 FSL/2560 FWL Lot \_\_\_\_\_ or Unit K Sec 26 Tsp 24S Rge 32E County LEA

General Location: \_\_\_\_\_ Pool: \_\_\_\_\_ Pool No.: \_\_\_\_\_

BLM 100K Map: \_\_\_\_\_ Operator: COG O'Leary LLC OGRID: 229137 Contact: Brian Collins

COMPLIANCE RULE 5.9: Total Wells: 3825 Inactive: 0 Fincl Assur: OK Compl. Order? \_\_\_\_\_ IS 5.9 OK? ✓ Date: 8/12/15

WELL FILE REVIEWED 0 Current Status: NOT Permitted

WELL DIAGRAMS: NEW: Proposed ✓ or RE-ENTER: Before Conv. 0 After Conv. 0 Logs in Imaging: Will be Filed

Planned Rehab Work to Well: Drill / Equip / Dispose

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <u>✓</u> or Existing _____ Surface	<u>26-20</u>	<u>750</u>	Stage Tool	<u>200 CF</u>	<u>Surf</u>
Planned <u>✓</u> or Existing _____ Interm/Prod	<u>17 1/2-13 3/8</u>	<u>1575-1900</u>		<u>6500 CF</u>	<u>Surf.</u>
Planned <u>✓</u> or Existing _____ Interm/Prod	<u>12 1/4-9 7/8</u>	<u>12200</u>		<u>3500 CF</u>	<u>± 4400'</u>
Planned <u>✓</u> or Existing _____ Prod Liner	<u>8 1/2-7"</u>	<u>12000-17050'</u>		<u>950 CF</u>	<u>Top of Liner</u>
Planned <u>✓</u> or Existing _____ Liner					
Planned <u>✓</u> or Existing <u>OH/PERF</u>	<u>6 1/8"</u>	<u>17050-19000</u>	Inj Length <u>1950</u>	Completion/Operation Details:	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	<u>17050</u>	<u>DEV SIL</u>	
Proposed Inj Interval BOTTOM:	<u>19000</u>	<u>U.ORD</u>	
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Drilled TD: P8TD  
 NEW TD: 1900 NEW P8TD: \_\_\_\_\_  
 NEW Open Hole ✓ or NEW Perfs 0  
 Tubing Size 4 1/2 in. Inter Coated? \_\_\_\_\_  
 Proposed Packer Depth \_\_\_\_\_ ft  
 Min. Packer Depth \_\_\_\_\_ (100-ft limit)  
 Proposed Max. Surface Press. \_\_\_\_\_ psi  
 Admin. Inj. Press. 3410 (0.2 psi per ft)

#### AOR: Hydrologic and Geologic Information

POTASH: B-111 P 0 Noticed? \_\_\_\_\_ BLM Sec Ord 0 WIPP 0 Noticed? \_\_\_\_\_ SALT/SALADO T: \_\_\_\_\_ B: CHIEF HOUSE

FRESH WATER: Aquifer \_\_\_\_\_ Max Depth 728 HYDRO AFFIRM STATEMENT By Qualified Person 0

NMOSE Basin: CAPTAIN REEF thru 0 adj 0 NA 0 No. Wells within 1-Mile Radius? 0 FW Analysis 0

Disposal Fluid: Formation Source(s) P2/B5/UC Analysis? ✓ On Lease 0 Operator Only 0 or Commercial 0

Disposal Int: Inject Rate (Avg/Max BWPD): \_\_\_\_\_ Protectable Waters? \_\_\_\_\_ Source: \_\_\_\_\_ System: Closed 0 or Open 0

HC Potential: Producing Interval? NO Formerly Producing? NO Method: Logs/DST/P&A/Other \_\_\_\_\_ 2-Mile Radius Pool Map 0

AOR Wells: 1/2-M Radius Map? ✓ Well List? ✓ Total No. Wells Penetrating Interval: 0 Horizontals? 0

Penetrating Wells: No. Active Wells 0 Num Repairs? 0 on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells: No. P&A Wells 0 Num Repairs? 0 on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

NOTICE: Newspaper Date 7/22/15 Mineral Owner BLM Surface Owner BLM N. Date 7/22/15

RULE 26.7(A): Identified Tracts? ✓ Affected Persons: CHEVRON/DEVON N. Date 7/22/15

Permit Conditions: Issues: (NO ELLEB Buggy)

DEV STRUCTURE

over 2