

DATE IN 9/14/12	SUSPENSE	ENGINEER W Jones	LOGGED IN 9/14/12	TYPE SWD	APP NO. PKUR1225155192
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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 Pintail 3 Federal #1

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

SENIOR OPERATIONS ENGINEER  
Title

08/23/12  
Date

bcollins@concho.com  
e-mail Address

Protected  
 9/17/12  
 MacBennett  
 9/24 Proof  
 from BLM  
 RE-SUBMITTED



RECEIVED OCD

2012 DEC 17 P 3: 04

December 13, 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  
Pintail 3 Federal SWD No. 1  
Township 26 South, Range 32 East, N.M.P.M.  
Section 3: 2500' FSL & 1400' FEL  
Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Pintail 3 Federal 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.

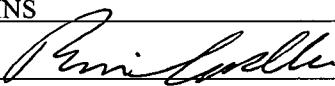
Sincerely,

A handwritten signature in cursive script, appearing to read "Brian Collins".

Brian Collins  
Senior Operations Engineer

BC/bg  
Enclosures

**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:
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: Senior Operations Engineer  
SIGNATURE:  DATE: 12/13/2012  
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  
PINTAIL 3 FEDERAL SWD #1  
Unit J, Sec 3 T26S R32E  
Lea County, NM

COG Operating, LLC, proposes to drill the captioned well to 6600' for salt water disposal service into the Delaware Sand from 5700' to 6420'. An APD will be submitted to the BLM upon approval of this C-108.

- V. Map is attached.
- VI. Two wells within the ½ mile radius area of review penetrate the proposed injection zone. Wellbore schematics are attached.
- VII.
  - 1. Proposed average daily injection rate = 7000 BWPD  
Proposed maximum daily injection rate = 10000 BWPD
  - 2. Closed system
  - 3. Proposed maximum injection pressure = 1140 psi  
(0.2 psi/ft. x 5700 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 5700' to 6420'. Any underground water sources will be shallower than 1000'. There are no water wells near this well.
- IX. The Delaware sand injection interval might be acidized with approximately 20 gal/ft of 7 ½ % HCl acid.
- X. Well logs, if run, will be filed with the Division. A section of the neutron-density porosity log from an analogous well 2500' to the south 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**

## INJECTION WELL DATA SHEET

OPERATOR: COG Operating, LLCWELL NAME & NUMBER: Pintail 3 Federal SWD 1WELL LOCATION: 2500' FSL 1400' FEL J 3 26s 32e  
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATIC

See Attached Schematic

WELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2" Casing Size: 13 3/8" e ± 1000'Cemented with: \_\_\_\_\_ sx. or 1400 ft<sup>3</sup>Top of Cement: Surface Method Determined: DesignIntermediate CasingHole Size: 12 1/4" Casing Size: 9 5/8" e ± 4450'Cemented with: \_\_\_\_\_ sx. or 2800 ft<sup>3</sup>Top of Cement: Surface Method Determined: DesignProduction CasingHole Size: 18 3/4" Casing Size: 8 7/8" e ± 6600'Cemented with: \_\_\_\_\_ sx. or 3600 ft<sup>3</sup>Top of Cement: 3950' Method Determined: DesignTotal Depth: 6600'Injection Interval5700' feet to 6420'

(Perforated or Open Hole; indicate which)

## INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" or 4 1/2" Lining Material: Plastic or Duoline 20

Type of Packer: Nickel plated double grip retrievable

Packer Setting Depth: ±5650'

Other Type of Tubing/Casing Seal (if applicable): N/A

### Additional Data

1. Is this a new well drilled for injection? X Yes \_\_\_\_\_ No

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

2. Name of the Injection Formation: Delaware Sand

3. Name of Field or Pool (if applicable): Jennings

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:

Overlying: Delaware (Upper Bill Canyon) 4407-4580' 1+ mile NW, 1.5+ mile SE

Underlying: Bone Spring 9130'

There are no mudlog shows in the proposed injection interval in nearby wells. The proposed interval is (St. 10-56-00).

30-025-

Pintail 3 Federal SWD 1  
2500' FSL, 1400' FEL  
Unit J, Sec 3-26s-32e  
Lea, NM

17 1/2"

13 3/8" / 54.5 / J55 / BTC @ ± 1000' 1400 CF cmt. (circ)

12 1/4"

3 1/2" or 4 1/2" Inj Tbg

TOC 3950' Design

9 5/8" / 36.40 / J55 / BTC @ ± 4450' 2800 CF cmt. (circ)

8 3/4"

Inj Pkr ± 5650'

Delaware Sand

5700 - 6420'

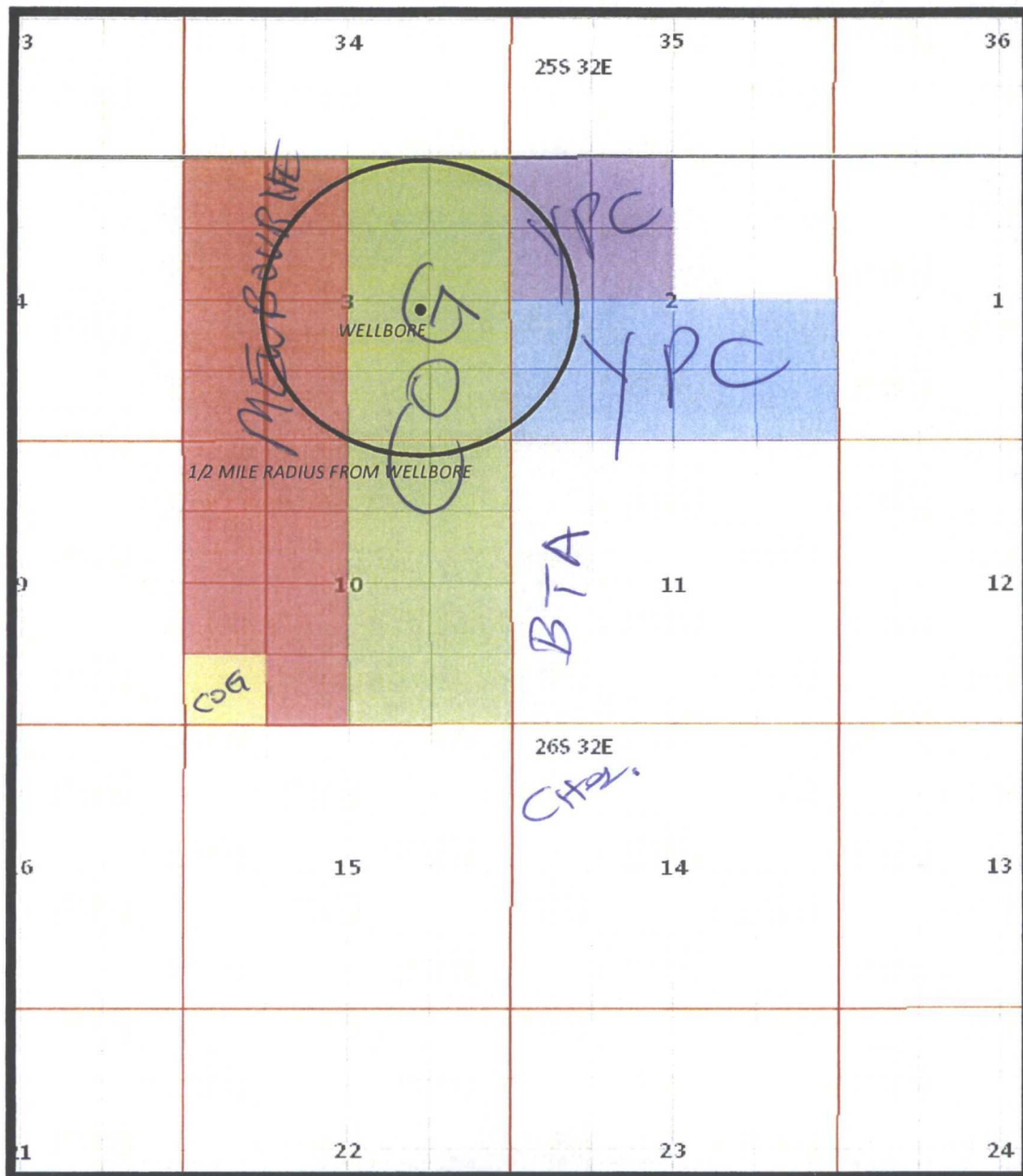
7" / 26 / J55 / LTC @ ± 6600'

6600'

600 CF cmt  
(design TOC 3950')

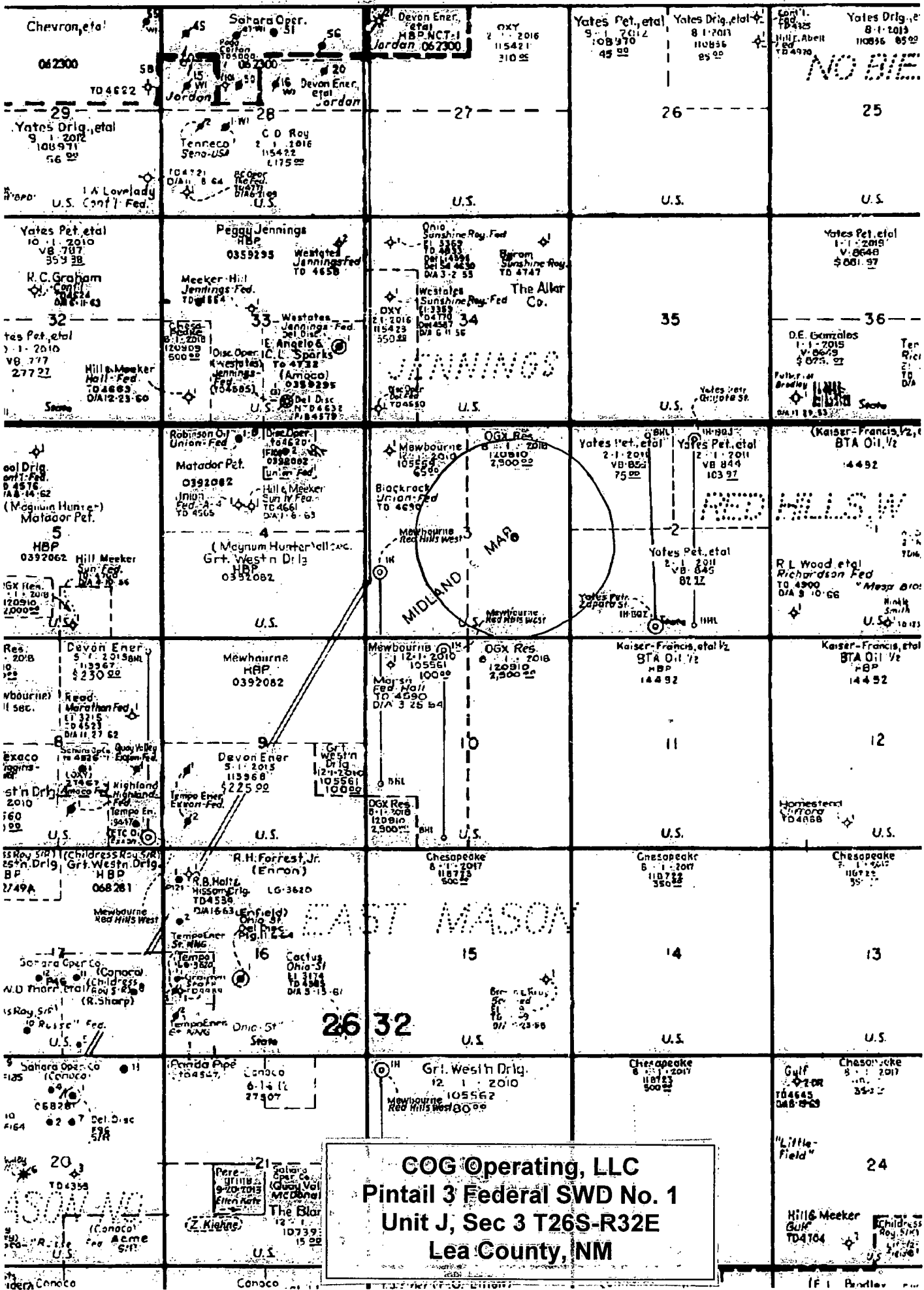
**V.**

**MAP**



- Mewbourne Oil Company
- COG Operating LLC
- COG Operating LLC
- Yates Petroleum Corporation
- Yates Petroleum Corporation

**Pintail 3 Federal SWD No. 1**  
**2500' FSL & 1400' FEL**  
**Section 3; T26s - R32e**  
**Lea County, New Mexico**



COG Operating, LLC  
Pintail 3 Federal SWD No. 1  
Unit J, Sec 3 T26S-R32E  
Lea County, NM

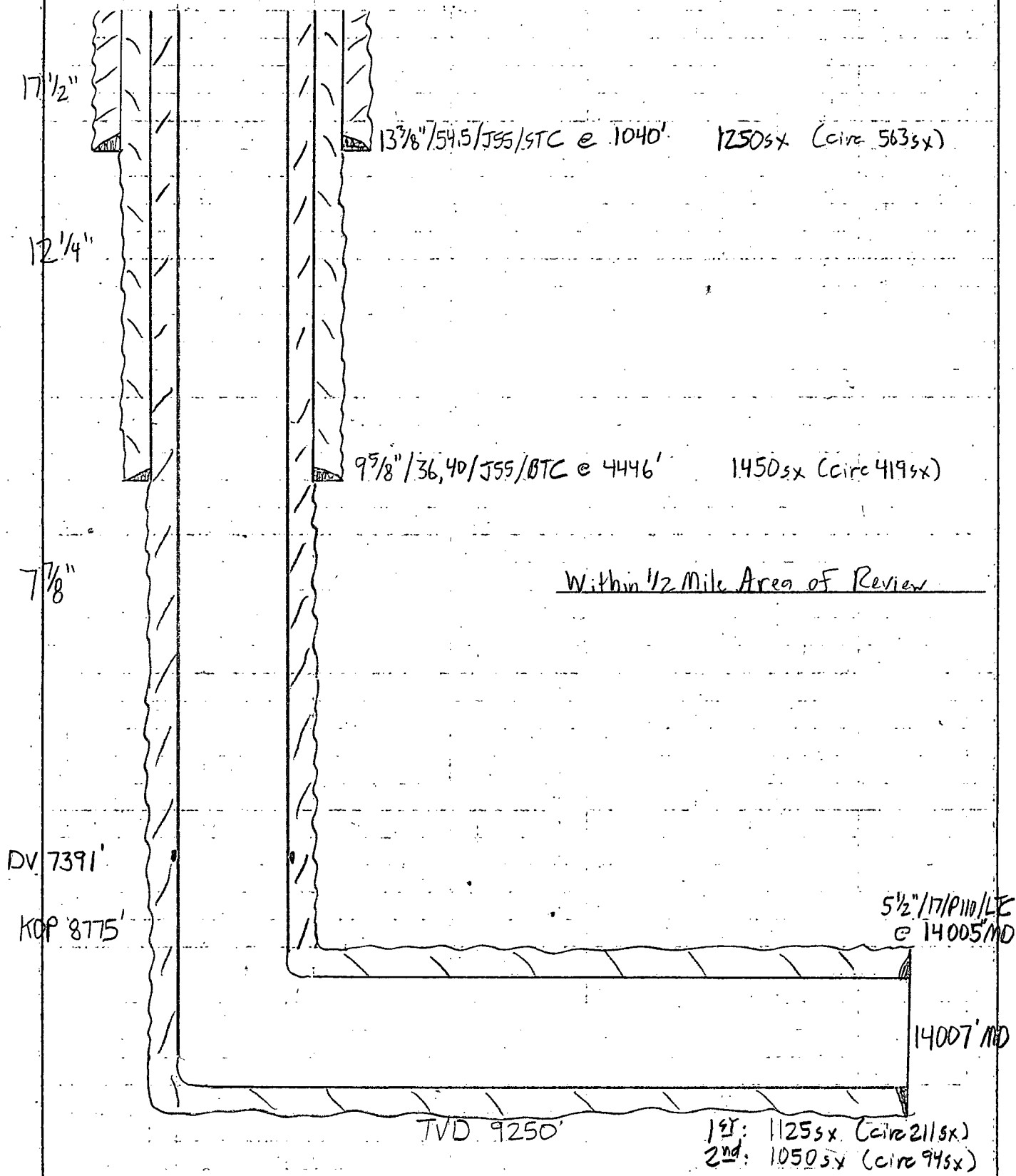
# **VI.**

**Wells Penetrating  
Proposed Disposal  
Interval Within Half  
Mile Area of Review**

30-025-40684

Pintail 3 Federal 1H  
260' FSL, 2290' FEL, Unit O (surface)

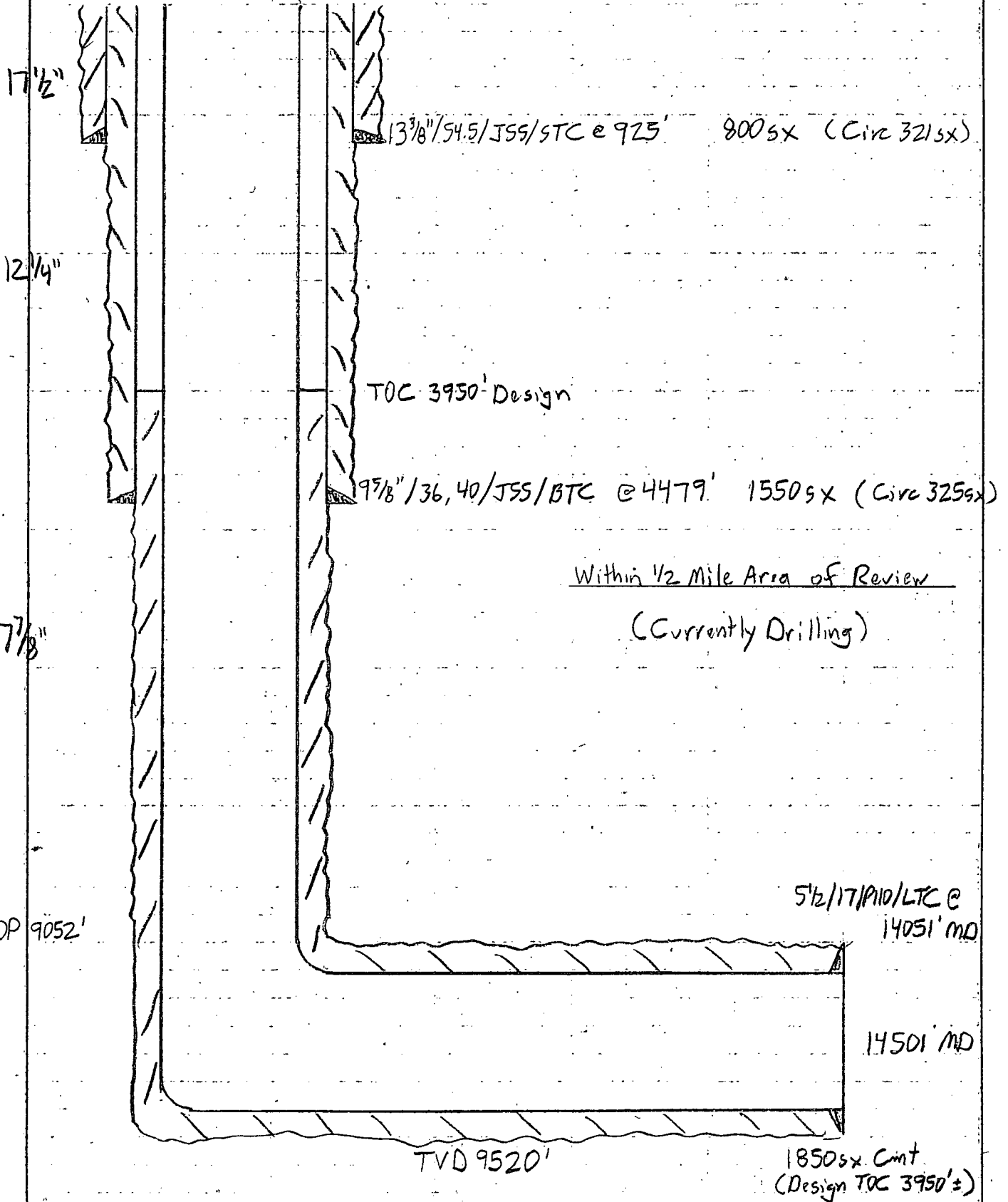
Sec. 3-26s-32e  
Lea., NM



30-025-

Pintail 3 Federal 2H  
330' FSL, 480' FEL, Unit P (surface)

Sec. 3-26s-32e  
Lea, NM



# **VII.**

## **Water Analysis Produced and Receiving Formation Water**

WATER SAMPLE REPRESENTATIVE OF WATER BEING INJECTED INTO THE PROPOSED SWD WELL												
Water is very similar to that of the receiving formation, therefore no compatibility problems are expected.												
Avalon												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2012105497	Gunner	8 Fed 8H		3/12/2012	12/17/2011	1.09	2.20	132205.83	5.90		11390.50	2098.17

Bone Spring Produced Water

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)
37551.69	48017.49	593.89	96.83	39.25	0.00	378.06	2.66		439.00	0.00		1050.00	68100.00	600.00	0.00

# Representative Delaware Produced And Receiving Formation Water

General Information About: Sample 4222			
NORTH EL MAR UNIT 022			
API	3002508278	Sample Number	
Unit/Section/ Township/Range	J / 25 / 26 S / 32 E	Field	EL MAR
County	Lea	Formation	DEL
State	NM	Depth	
Lat/Long	32.01136 / - 103.62579	Sample Source	UNKNOWN
TDS (mg/L)	244815	Water Type	
Sample Date(MM/DD/YYYY)		Analysis Date(MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	220
Sodium (Na)		Chloride (Cl)	153500
Calcium (Ca)		Carbonate (CO <sub>3</sub> )	
Magnesium (Mg)		Bicarbonate (HCO <sub>3</sub> )	88
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H <sub>2</sub> S)	
Strontium (Sr)		Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)		Oxygen (O)	

Data obtained from <http://octance.nmt.edu>

**X.**

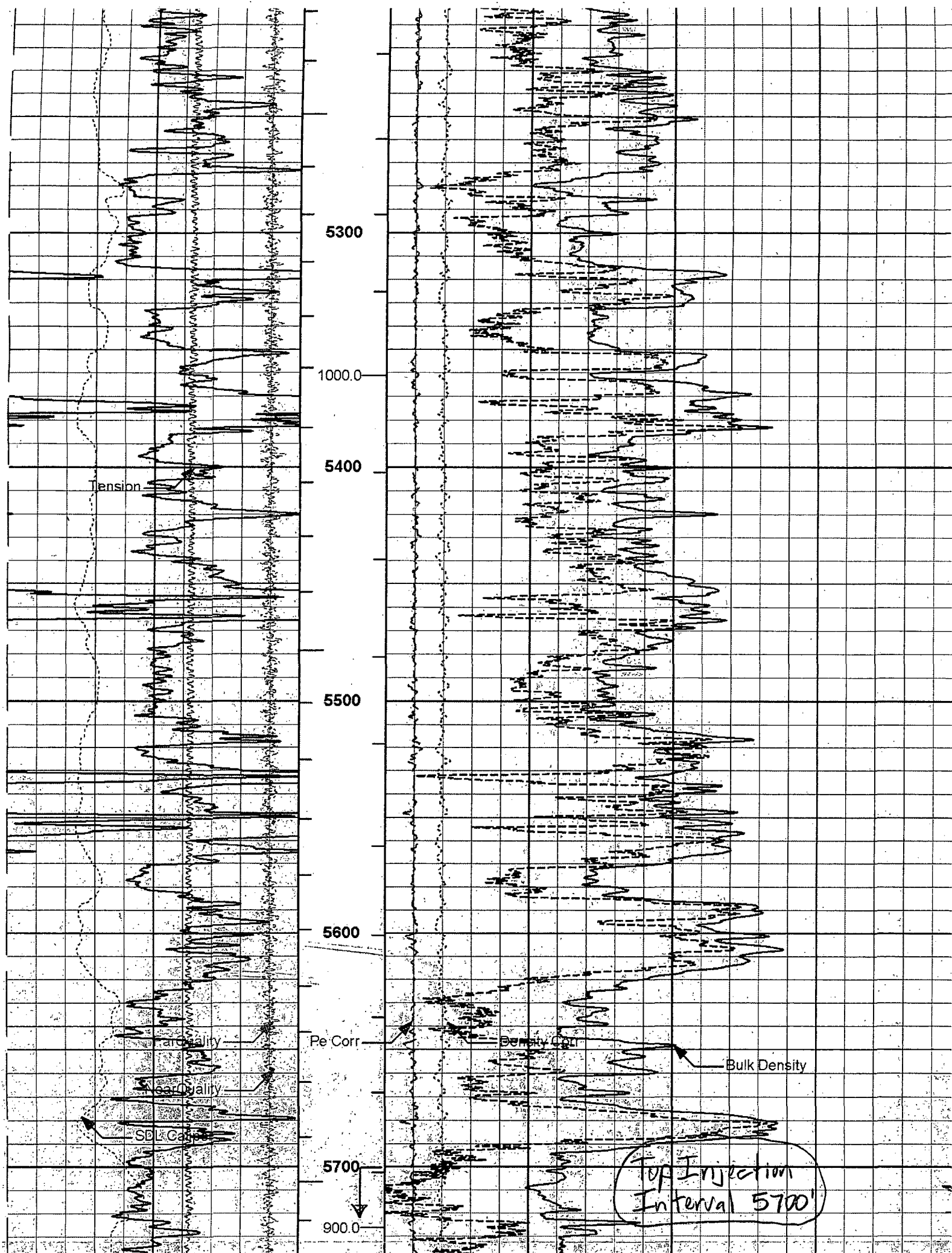
**Log Across Proposed  
Delaware Sand  
Injection Interval**

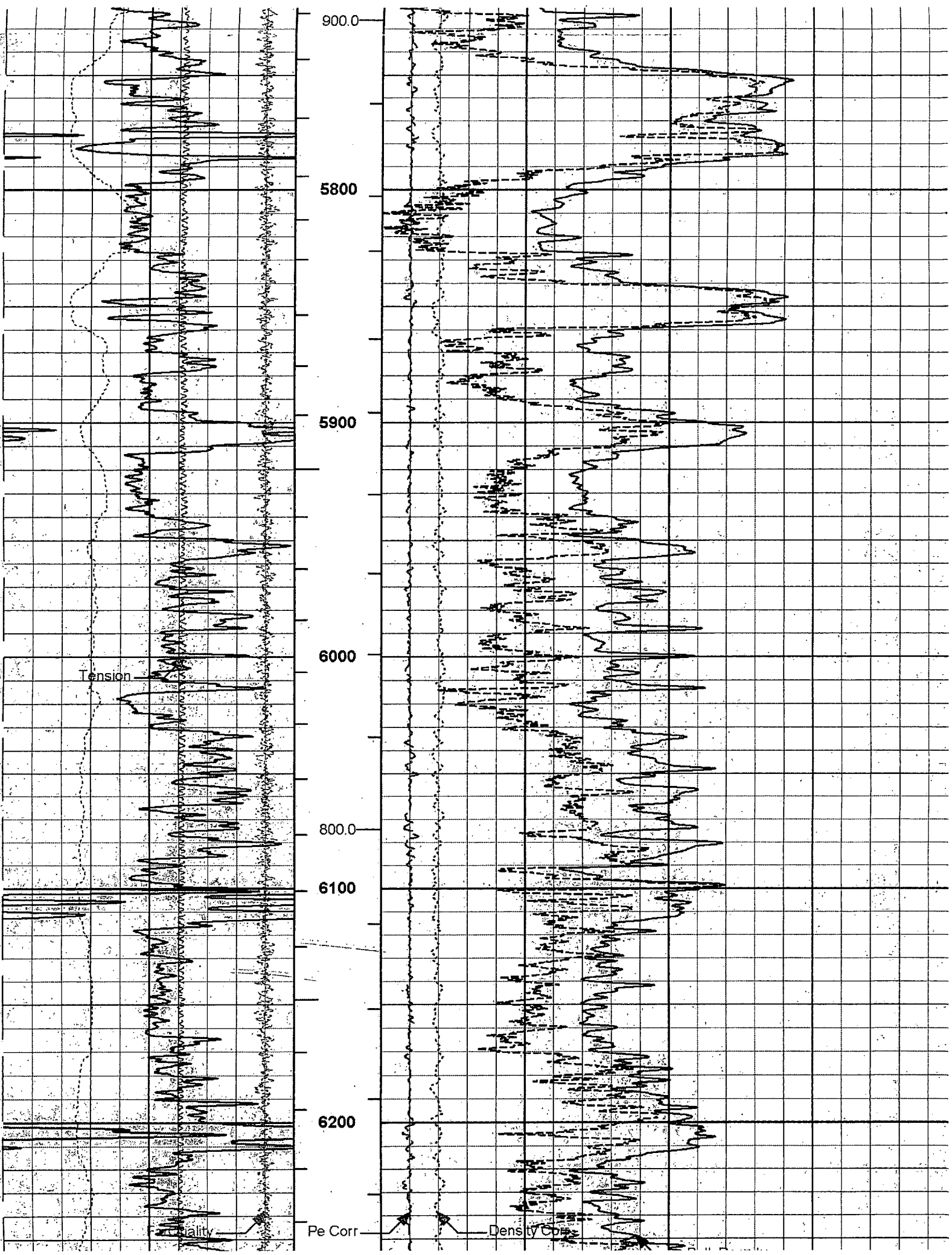
# HALLIBURTON

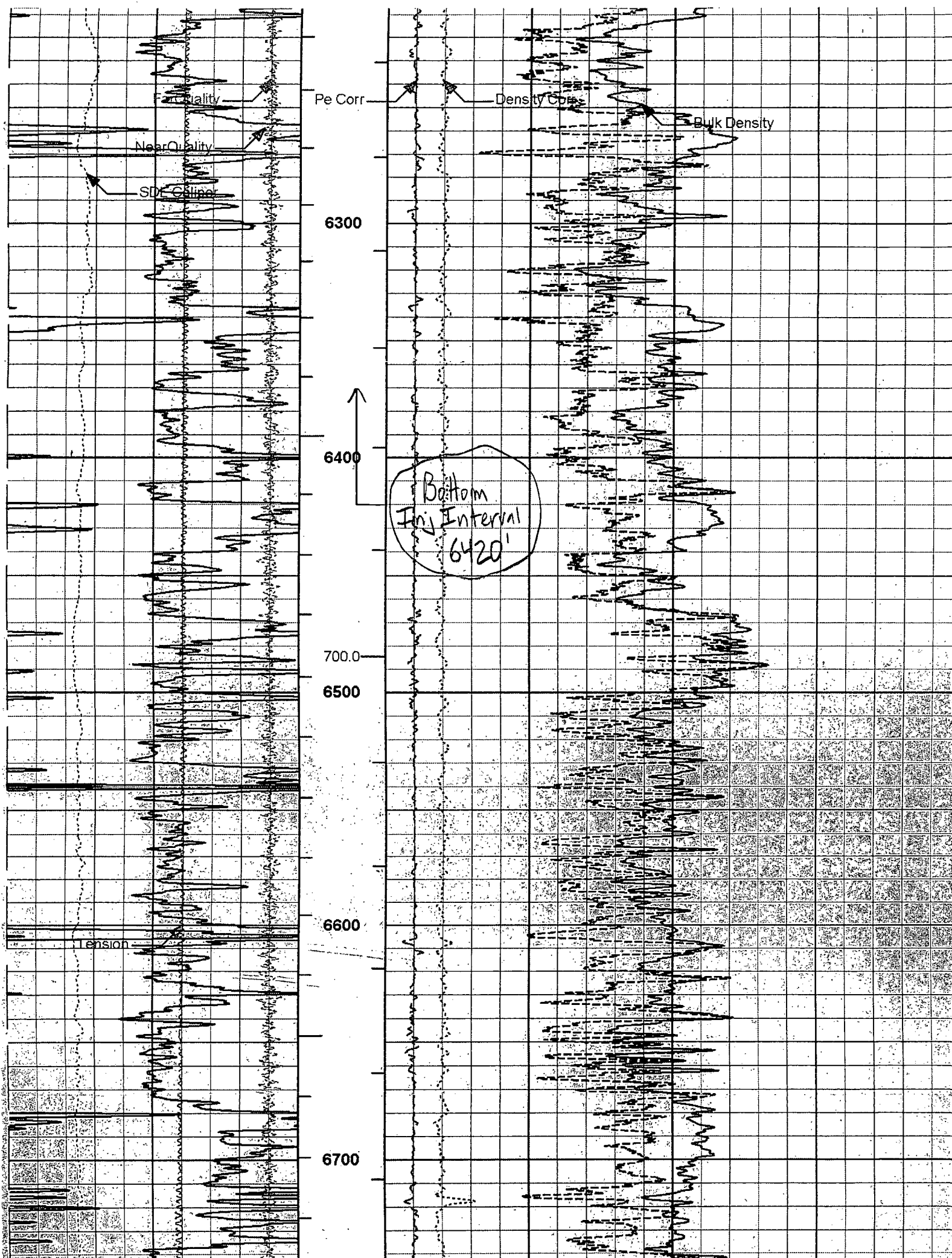
## DUAL SPACED NEUTRON SPECTRAL DENSITY COMP. SPECTRAL GAMMA RAY

COMPANY		COG PRODUCTION LLC	
WELL	BUFFLEHEAD 10 FEDERAL No. 1H	WELL	BUFFLEHEAD 10 FEDERAL No. 1H
FIELD	JENNING-DELAWARE BONE SPRING	FIELD	JENNING-DELAWARE BONE SPRING
COUNTY	LEA	COUNTY	LEA
STATE	NEW MEXICO	STATE	NEW MEXICO
API No. 30-025-40423		Other Services: WSTT XRMI CORING DLL/MGRD	
Location 330' FNL & 1650' E		COG OPERATING LLC <b>RECEIVED</b> FEB 20 2012	
Sect. 10	Twp. 28S	Rge. 32E	ARTESIA WEST
Permanent Datum	GL	Elev. 3258.0' ft	Elev. K.B. 3276.0' ft
Log measured from	KB	18.0 ft above perm. Datum	D.F. 3275.0' ft
Casing measured from	KB		G.L. 3258.0' ft
Date	14-Feb-12		
Run No.	ONE		
Depth - Driller	9900.00 ft		
Depth - Logger	9894.0 ft		
Bottom - Logged Interval	9840 ft		
Top - Logged Interval	190 ft		
Casing - Driller	9.625 in @ 4444.0 ft	@	@
Casing - Logger	4442.0 ft		
Casing Size	7.875 in	@	@
Fluid in Hole	BRINE		
Density	8.8 ppg	28.00 s/qt	
Fluid Loss	9.00 pH		
Source of Sample	FLOWLINE		
Run @ Meas. Temperature	0.090 ohmm @ 75.00 degF	@	@
Run @ Meas. Temperature	0.06 ohmm @ 75.00 degF	@	@
Run @ Meas. Temperature	0.108 ohmm @ 75.00 degF	@	@
Source Rmf	CHART	CHART	
Run @ BHT	0.05 ohmm @ 135.0 degF	@	@
Time Since Circulation	10.0 hr		
Time on Bottom	14-Feb-12 12:50		
Max Rec. Temperature	135.0 degF @ 9894.0 ft	@	@
Equipment	798	HOBBS, NM	
Recorded By	ALEXANDER PRICE		
Processed By	ANDREW MCCARTHY		

Service Ticket No. 9264466		API Serial No. 30-025-40423		PGM Version: WL INSITE R3.4.0 (Build 4)	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE		RESISTIVITY SCALE CHANGES		RESISTIVITY EQUIPMENT DATA	
Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth - Driller					
Type Fluid in Hole					
Density					
Ph					
Source of Sample					
Rmf @ Meas Temp	@	Run No.	Tool Type & No.	Pad Type	Tool Pos.
Rmf @ Meas Temp	@				Other
Rmf @ Meas Temp	@				
Source Rmf	@				
Rmf @ BHT	@				
Rmf @ BHT	@				
Rmf @ BHT	@				
EQUIPMENT DATA		DENSITY		NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	10931261GR	Serial No.	109854025RD	Serial No.	109854025RD
Model No.	G1ET	Model No.	SDT-1	Model No.	DSNT-1
Diameter	3.625 in	Diameter	4.5 in	Diameter	3.625 in
Detector Model No.	T102-A	Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT.	Source Type	Cs137	Source Type	Am241Be
Length	8	Serial No.	5115GW	Serial No.	DSN 314
Distance to Source	24 ft	Strength	1.5 Ci	Strength	15 Ci
LOGGING DATA					







# **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): 33, 34, 35

Township: 25S

Range: 32E

No Freshwater within  
1 mile of proposed SWD.



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

---

No PODs found.

**PLSS Search:**

Section(s): 2, 3, 4, 9, 10, Township: 26S Range: 32E  
11, 14, 15, 16

---

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.

8/22/12 10:29 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**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.**

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

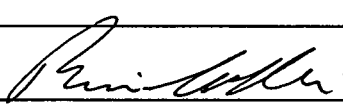
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD		5. Lease Serial No.
2. Name of Operator COG OPERATING, LLC		6. If Indian, Allottee or Tribe Name
3a. Address 2208 W. MAIN STREET, ARTESIA, NM 88210	3b. Phone No. (include area code) 575-748-6940	7. If Unit of CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 3 T28S R32E, 2500' FSL & 1400' FEL, UNIT LETTER J		8. Well Name and No. Pintail 3 Federal SWD #1
		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State LEA COUNTY, NM

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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	DRILL SWD
	<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 recomplate 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 recompletion 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.)

SUBMITTED FOR C-108 COPY ATTACHED

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) BRIAN COLLINS		Title Sr. Operations Engr.
Signature 		Date 13 Dec 2012

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

Approved by	Title SENIOR OPERATIONS ENG.	Date 12/13/2012
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)



December 13, 2012

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

Re: Legal Notice  
Salt Water Disposal Well  
Pintail 3 Federal 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,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins  
Senior Operations Engineer

BC/bg  
Enclosures

**HOBBS NEWS-SUN**  
**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 Pintail 3 Federal #1 SWD is located 2500' FSL & 1400' FEL, Section 3, Township 26 South, Range 32 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 5700' to 6420' at a maximum surface pressure of 1140 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 28 miles west of Jal. 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 Hobbs News-Sun, Hobbs, New Mexico  
\_\_\_\_\_, 2012.



December 13, 2012

Oil Conservation Division  
Attn: Paul Kautz  
1625 N French Drive  
Hobbs, NM 88240

RE: Application For Authorization To Inject  
Pintail 3 Federal SWD No. 1  
Township 26 South, Range 32 East, N.M.P.M.  
Section 3: 2500' FSL & 1400' FEL  
Lea County, New Mexico

Dear Mr. Inge:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Pintail 3 Federal 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,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins  
Senior Operations Engineer

BC/bg  
Enclosures



December 13, 2012

Mewbourne Oil Company  
P O Box 7698  
Tyler, TX 75711

Re: Application to Inject  
Pintail 3 Federal SWD No. 1  
Township 26 South, Range 32 East, N.M.P.M.  
Section 3: 2500' FSL & 1400' FEL  
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 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.

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Brian Collins  
Senior Operations Engineer

BC/bg  
Enclosures



December 13, 2012

Yates Petroleum Corporation  
105 S. Fourth Street  
Artesia, NM 88210

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Township 26 South, Range 32 East, N.M.P.M.  
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Brian Collins  
Senior Operations Engineer

BC/bg  
Enclosures

**Jones, William V., EMNRD**

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**From:** Jones, William V., EMNRD  
**Sent:** Friday, December 28, 2012 2:08 PM  
**To:** 'Bobbie Goodloe'  
**Cc:** Ezeanyim, Richard, EMNRD; Brian Collins  
**Subject:** Disposal application from COG Operating, LLC: Pintail 3 Federal SWD #1 30-025-NA  
Delaware perms from 5700 to 6420 feet

Bobbie,

This one was previously advertised, but then the interval was revised.

Would you 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.

I believe that would be all I need on this one,

Thank You!

Will Jones

# 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

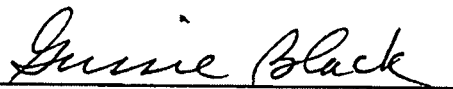
of 1 issue(s).

Beginning with the issue dated  
January 25, 2013

and ending with the issue dated  
January 25, 2013

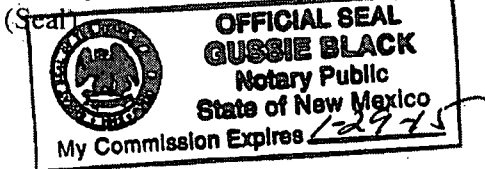
  
PUBLISHER

Sworn and subscribed to before me  
this 28th day of  
January, 2013



Notary Public

My commission expires  
January 29, 2015



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  
publication has been made.

LEGAL	LEGAL
<b>Legal Notice</b> January 25, 2013	
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 Pintail 3 Federal #1 SWD is located 2500' FSL & 1400' FEL, Section 3, Township 26 South, Range 32 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 5700' to 6420' at a maximum surface pressure of 1140 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 28 miles west of Jal. 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. #27862	

02107967

00107954

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

## 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:

ATTN WILLIAM V JONES  
NM OIL CONSERVATION DIVISION  
1220 S ST FRANCIS DR  
SANTA FE NM 87505

2. Article Number

(Transfer from service label)

7011 1570 0000 7781 3844

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

Heather Miller

C. Date of Delivery

12/17/12

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

DEC 17 2012

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

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:

MEWBOURNE OIL COMPANY  
P O BOX 7698  
TYLER TX 75711-7698

2. Article Number

(Transfer from service label)

7011 1570 0000 7781 3868

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

Bruce Bevers

C. Date of Delivery

12-19-12

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

## SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Upates Petroleum, Corp  
105 S. Fourth St  
Artesia, NM 88210

2. Article Number

(Transfer from service label)

7011 1570 0000 7781 3851

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

Cinderwool

C. Date of Delivery

12-17-12

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

## **Jones, William V., EMNRD**

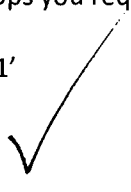
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**From:** Brian Collins <BCollins@concho.com>  
**Sent:** Thursday, February 07, 2013 10:32 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Bobbie Goodloe  
**Subject:** COG Pintail 3 Fed SWD 1 Delaware Tops

Will:

Here's the Delaware tops you requested for the Pintail 3 Fed SWD 1 in Sec 3-26s-32e:

Delaware (Lamar) 4571'  
Bell Canyon 4599'  
Cherry Canyon 5573'  
Brushy Canyon 6961'  
Bone Spring 8730'



Let me know if you need anything else. Take care.

### **Brian Collins**

Senior Operations Engineer  
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)



**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.

Loss Notice 1/25/13

Injection Permit Checklist (11/15/2010)

WFX \_\_\_\_\_ PMX \_\_\_\_\_ SWD 1396 Permit Date 2/11/12 UIC Qtr (O/N/D)

# Wells 1 Well Name(s): ~~BUTTERHEAD~~ 3 Federal SWD #1

API Num: 30-025-NA Spud Date: N-T Y & New/Old: N (UIC primacy March 7, 1982)

Footages 2500 1400 TSL FEL Unit 3 Sec 10 Tsp 265 Rge 32E County LEA

General Location: JUST SE of Jennings; Delancey Pool (Lithic or Ball C)

Operator: COG OPERATING LLC Contact BRIAN COLLINS

OGRID: 229137 RULE 5.9 Compliance (Wells) 9/27/55 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed None Current Status: NOT Permitted

Planned Work to Well: DILL/ESP/DISPOSE

Diagrams: Before Conversion \_\_\_\_\_ After Conversion ☒ Elogs in Imaging File: NOT Spud yet

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
New ___ Existing ___ Surface	17 1/2 - 13 3/8	1000'	—	1400 CF	surf
New ___ Existing ___ Interm	12 1/4 - 9 5/8	4750'		2800 CF	surf
New ___ Existing ___ LongSt	8 3/4 - 7"	6600'		600 CF	3950' Plan
New ___ Existing ___ Liner					
New ___ Existing ___ OpenHole					

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	4594 4549	Loman Ball C.	<input checked="" type="checkbox"/>
Injection TOP:	5700'	Chang C.	Max. PSI 1140
Injection BOTTOM:	6428'	Chang C.	Open Hole Perfs <input checked="" type="checkbox"/> Tubing Size 3 1/2" 200' Packer Depth 5640'
Formation(s) Below	5573 8738	Chang C. Ball C.	<input checked="" type="checkbox"/>

Capitan Reef? (Perash? Noticed?) (WIPP? Noticed?) Salado Top/Bot (2200) Cliff House?

Fresh Water: Depths: <1000' Formation \_\_\_\_\_ Wells? NO Analysis? Affirmative Statement ☒

Disposal Fluid Analysis? Sources: Dal/B.S.

Disposal Interval: Analysis? Production Potential/Testing: NO AND LOG SIFRMS on CFFS at well

Notice: Newspaper Data 1/25/13 Surface Owner BDM Mineral Owner(s) Receipt

RULE 26.7(A) Affected Persons: ~~Butterhead~~ / ~~Butterhead~~ / ~~Butterhead~~ (12/19/12)

AOR: Maps? ☒ Well List? ☒ Producing in Interval? NO Wellbore Diagrams? ☒

.....Active Wells 2 Repairs? Which Wells? —

.....P&A Wells 0 Repairs? Which Wells? —

Issues: Request Sent Reply: