

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**John Bemis**  
Cabinet Secretary

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey**  
Division Director  
Oil Conservation Division



Administrative Order SWD-1399  
February 21, 2013

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of 19.15.26.8B NMAC, COG Operating LLC, seeks an administrative order to utilize its proposed Magnum Pronto 32 State SWD Well No. 1 (API 30-025-NA) to be located 2300 feet from the North line and 2200 feet from the West line, Unit letter F of Section 32, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico, for produced water disposal purposes.

**THE DIVISION DIRECTOR FINDS THAT:**

The application has been duly filed under the provisions of 19.15.26.8B NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in 19.15.26.8 NMAC have been met and the operator is in compliance with 19.15.5.9 NMAC.

**IT IS THEREFORE ORDERED THAT:**

The applicant, COG Operating LLC, is hereby authorized to utilize its proposed Magnum Pronto 32 State SWD Well No. 1 (API 30-025-NA) to be located 2300 feet from the North line and 2200 feet from the West line, Unit letter F of Section 32, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico, for disposal of oil field produced water (UIC Class II only) into the Devonian, Silurian, and Ordovician through an open hole interval from approximately 13450 feet to 14900 feet through internally coated tubing and a packer set within 100 feet of the permitted interval.

**IT IS FURTHER ORDERED THAT:**

The operator shall take all steps necessary to ensure that the disposed water enters only the approved disposal interval and is not permitted to escape to other formations or onto the surface.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on the well shall be limited to **no more than 2690 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate-Test.

The operator shall notify the supervisor of the Division's district office of the date and time of the installation of disposal equipment and of any MIT test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's district office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Division Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate two years after the effective date of this order if the operator has not commenced injection operations into the subject well. One year after the last date of reported disposal into this well, the Division shall consider the well abandoned, and the authority to dispose will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.



JAMI BAILEY  
Director

JB/wvjj

cc: Oil Conservation Division – Hobbs District Office  
State Land Office – Oil, Gas, and Minerals Division

|                    |          |                 |           |             |                      |
|--------------------|----------|-----------------|-----------|-------------|----------------------|
| DATE IN<br>1/10/13 | SUSPENSE | ENGINEER<br>WVJ | LOGGED IN | TYPE<br>SWD | APP NO.<br>1355 1355 |
|--------------------|----------|-----------------|-----------|-------------|----------------------|

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**

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 \_\_\_\_\_

*MAGNUM Pronto 32 State SWD #1*  
*F/32/19S/32E/LEA*  
*POTASH NO*  
*Raf = Yes*  
*WIPP = NO*

**[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

*Brian Collins*  
 Signature

SENIOR OPERATIONS ENGINEER  
 Title

3 Jan 13  
 Date

bcollins@concho.com  
 e-mail Address



RECEIVED OCD

2013 JAN 10 P 1:42

January 3, 2013

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

13,610' = DEV. TOP  
14,100' = DEV. BOTTOM

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' FWL  
Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Magnum Pronto 32 State SWD #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.

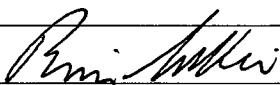
Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

Brian Collins  
Senior Operations Engineer

BC/sw  
Enclosures

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_ ☒ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ ☒ 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 \_\_\_\_\_ ☒ 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: \_\_\_\_\_ 3 Jan 13 \_\_\_\_\_  
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  
MAGNUM PRONTO 32 STATE SWD #1  
2300' FNL, 2200' FWL  
Unit F, Sec 32 T19S R32E  
Lea County, NM

COG Operating, LLC, proposes to drill the captioned well to 14900' for salt water disposal service into the Devonian-Silurian-Ordovician from 13450' to 14900'. An APD will be submitted upon approval of this C-108.

- V. Map is attached.
- VI. No wells within the ½ mile radius area of review penetrate the proposed injection zone.
- VII.
  - 1. Proposed average daily injection rate = 7500 BWPD  
Proposed maximum daily injection rate = 25000 BWPD
  - 2. Closed system
  - 3. Proposed maximum injection pressure = 2690 psi  
(0.2 psi/ft. x 13450' ft.)
  - 4. Source of injected water will be Bone Spring Sand produced water. No compatibility problems are expected. Analyses of Bone Spring waters from analogous source wells are attached. No water analyses are available for the Devonian-Silurian-Ordovician receiving formation in this area.
- VIII. The injection zone is the Devonian-Silurian-Ordovician dolomite from 13450' to 14900'. Any underground water sources will be shallower than 900' (surface casing setting depth).
- IX. The Devonian-Silurian-Ordovician injection interval will be acidized with approximately 40,000 gals 20% HCl acid.
- X. Well logs, if run, will be filed with the Division. There are no nearby Devonian-Silurian-Ordovician well logs available. A mud log will be run through the proposed injection interval when the well is drilled.
- 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: Magnum Pronto 32 State SWD 1

WELL LOCATION: 2300' FNL 2200' FWL F 32 19s 32e

FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

See Attached Schematic

WELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8" e ± 900'

Cemented with: - sx. or 1250 ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8" e ± 3900'

Cemented with: - sx. or 2450 ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulate

Production Casing

Hole Size: 8 3/4" Casing Size: 7" e ± 13450'

Cemented with: - sx. or 2250 ft<sup>3</sup>

Top of Cement: 3400' Method Determined: Design

Total Depth: ± 14900'

Injection Interval

± 13450' feet to ± 14900'

(Perforated or Open Hole indicate which)

## INJECTION WELL DATA SHEET

Tubing Size: 4 1/2" Lining Material: Duoline 20 / Glassbore

Type of Packer: Nickel plated double grip retrievable

Packer Setting Depth:  $\pm 13400'$

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: Devonian - Silurian - Ordovician

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

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. No

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: Yates TR  $\pm 2500-2800'$ , Delaware  $\pm 4450-7200'$

Bone Spring  $\pm 7400-10,000'$ , Wolfcamp  $\pm 10300-10750'$

Strawn  $\pm 11200 - 11600'$ , Atoka  $\pm 11875 - 12050'$ , Morrow  $\pm 12050 - 12725'$

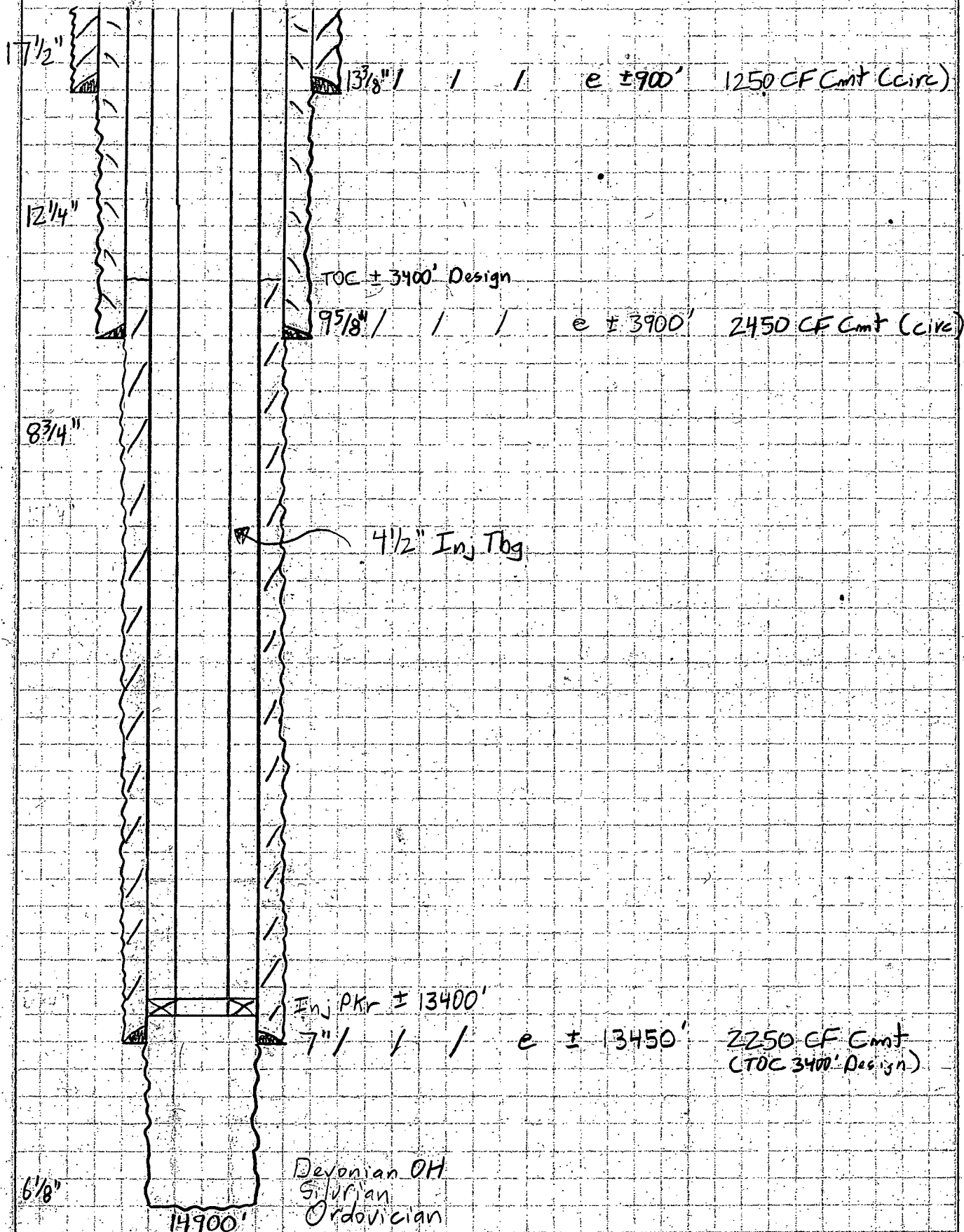
30-025-

Magnum Pronto 32 State SWD 1

2300' FWL 2200' FWL

F-32-195-32e

Lea, NM



**V.**

**MAP**



# **VII.**

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

|   |                        |          |                |           |             |                  |                |           |      |              |           |           |
|---|------------------------|----------|----------------|-----------|-------------|------------------|----------------|-----------|------|--------------|-----------|-----------|
| WATER SAMPLES REPRESENTATIVE OF WATER BEING INJECTED INTO THE PROPOSED SWD WELL |                        |          |                |           |             |                  |                |           |      |              |           |           |
|   |                        |          |                |           |             |                  |                |           |      |              |           |           |
|   |                        |          |                |           |             |                  |                |           |      |              |           |           |
| Bone Spring   |                        |          |                |           |             |                  |                |           |      |              |           |           |
| Lab Test #  | Lease                  | Location | Salesman       | Date Out  | Sample Date | Specific Gravity | Ionic Strength | TDS       | pH   | conductivity | Ca (mg/L) | Mg (mg/L) |
| 2011126701  | Patterson B-52 Federal | 4H       | William D Polk | 9/16/2011 | 8/17/2011   | 1.11             | 2.70           | 166647.70 | 6.50 |              | 8905.26   | 1281.11   |
| 2012103274  | Magnum Pronto State    | 4H       | William D Polk | 2/9/2012  | 2/7/2012    | 1.12             | 2.91           | 176497.81 | 6.56 |              | 9713.70   | 1525.22   |
| 2012103275  | Magnum Pronto State    | 5H       | William D Polk | 2/9/2012  | 2/7/2012    | 1.11             | 2.84           | 173005.58 | 6.45 |              | 9326.68   | 1460.36   |

| 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) |
|------------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|------------|-----------|------------|-----------|------------|------------|
| 27853.36   | 50627.64  | 1179.02  | 64.08     | 28.77     | 7.78      | 268.77    | 1.28      |             | 134.00      | 0.00       |           | 1150.00    | 103000.00 | 160.00     | 0.00       |
| 30925.66   | 60247.32  | 1260.33  | 67.49     | 46.13     | 1.47      | 312.65    | 1.50      |             | 122.00      | 0.00       |           | 1100.00    | 102100.00 | 150.00     | 0.00       |
| 29675.05   | 57191.80  | 1202.45  | 68.62     | 44.32     | 0.00      | 299.70    | 1.65      |             | 110.00      | 0.00       |           | 1300.00    | 102000.00 | 180.00     | 0.00       |



**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):** 4-6

**Township:** 20S

**Range:** 32E



# *New Mexico Office of the State Engineer*

## **Active & Inactive Points of Diversion**

(with Ownership Information)

---

No PODs found.

**PLSS Search:**

**Section(s):** 28-33

**Township:** 19S

**Range:** 32E



January 3, 2013

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

Re: Legal Notice  
Salt Water Disposal Well  
Magnum Pronto 32 State SWD #1

To Whom It May Concern:

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

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

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

Sincerely,

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

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 Magnum Pronto 32 State SWD No. 1 is located 2300' FNL and 2200' FWL, Sec. 32, Township 19 South, Range 32 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Devonian-Silurian-Ordovician formation at a depth of 13450-14900' at a maximum surface pressure of 2690 psi and a maximum rate of 25,000 BWPD. This well is located approximately 30 miles northeast of Carlsbad. 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  
\_\_\_\_\_, 2013.

# 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 10, 2013  
and ending with the issue dated  
January 10, 2013

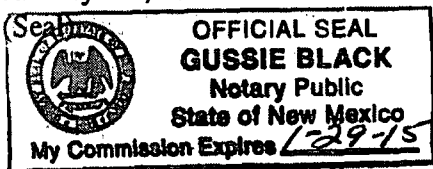
  
PUBLISHER

Sworn and subscribed to before me  
this 10th day of  
January, 2013



Notary Public

My commission expires  
January 29, 2015



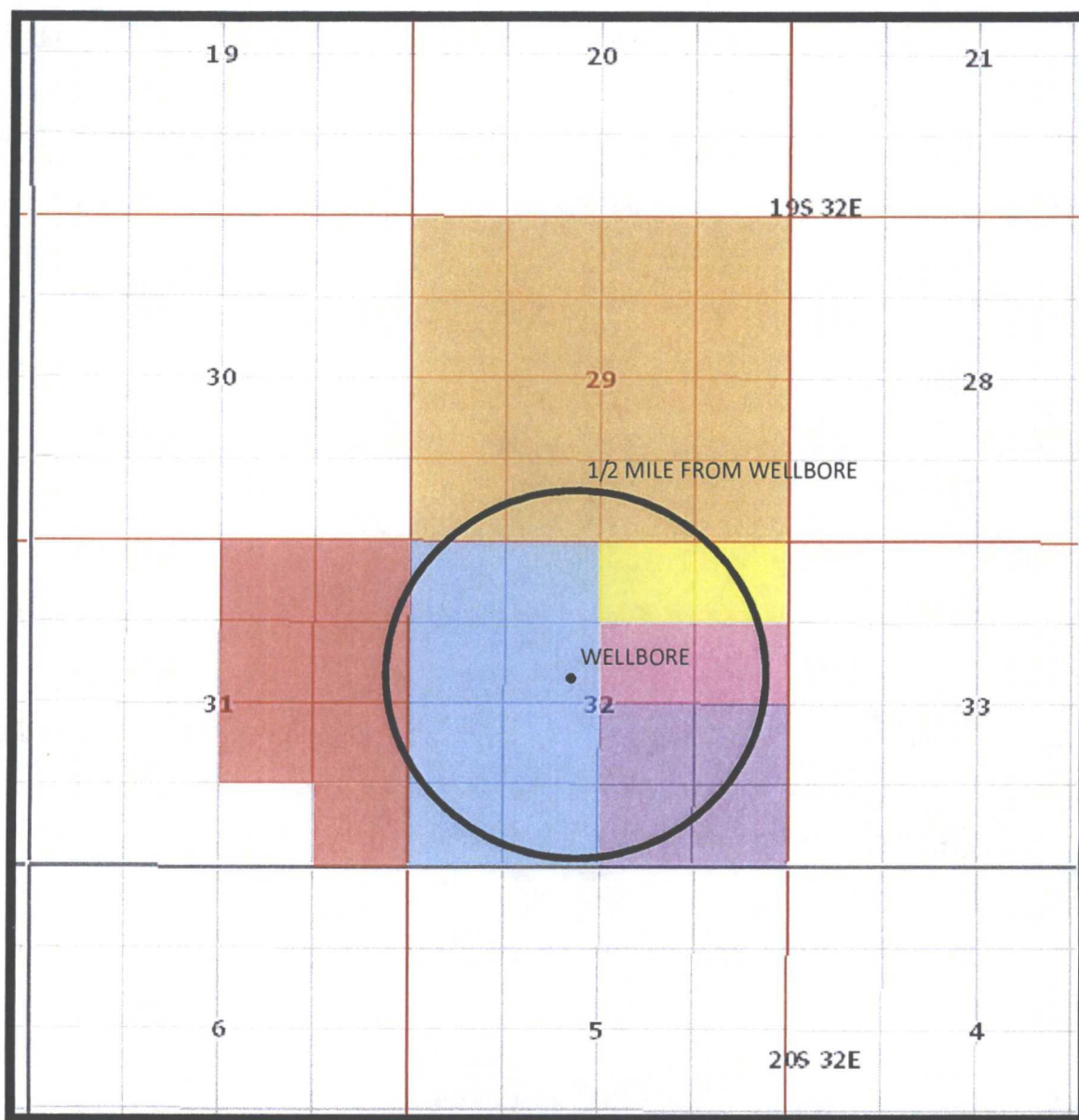
This newspaper is duly qualified to  
publish legal notices or  
advertisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937 and payment of fees for said  
publication has been made.

| LEGAL  | LEGAL |
|--|-------|
| <b>Legal Notice</b><br>January 10, 2013  |       |
| 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 Magnum Pronto 32 State SWD No. 1 is located 2300' FNL and 2200' FWL, Sec. 32, Township 19 South, Range 32 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Devonian-Silurian-Ordovician formation at a depth of 13450-14900' at a maximum surface pressure of 2890 psi and a maximum rate of 25,000 BWPD. This well is located approximately 30 miles northeast of Carlsbad. 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.<br>#27832 |       |

02107967

00107196

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



Magnum Hunter Production, Inc.



Dan Irwin, Kathleen Irwin Schuster  
Wallfem LTD; WK Land Company



COG Operating LLC



COG Operating LLC



Prize Operating Company



COG Operating LLC

*also Cimrex was  
NOTICED*

**Magnum Pronto 32 State SWD No. 1**  
**2300' FNL & 2200' FWL**  
**Section 32; T19s - R32e**  
**Lea County, New Mexico**



January 3, 2013

WK Land Company  
911 Kimbark St  
Longmont, CO 80501

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' 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 an operator or surface owner 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,

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

Brian Collins  
Senior Operations Engineer

BC/sw  
Enclosures





January 3, 2013

Magnum Hunter Production, Co.  
600 N. Marienfeld St, Ste 600  
Midland, TX 79701

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' FWL  
Lea County, New Mexico

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Please do not hesitate to contact us 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/sw  
Enclosures



January 3, 2013

Prize Operating Company  
20 East 5th St., Ste 1400  
Tulsa, OK 74103

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' 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 an operator or surface owner 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,

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

Brian Collins  
Senior Operations Engineer

BC/sw  
Enclosures



January 3, 2013

Cimarex Energy Company  
Attn: Gary Abbott  
1700 Lincoln St., Ste 1800  
Denver, CO 80203

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
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Brian Collins  
Senior Operations Engineer

BC/sw



January 3, 2013

Dan Irwin  
118 N. Grant St  
Hinsdale, IL 60521

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' FWL  
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Senior Operations Engineer

BC/sw  
Enclosures



January 3, 2013

Kathleen Irwin Schuster  
3213 Pepperwood Lane  
Ft. Collins, CO 80525

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' FWL  
Lea County, New Mexico

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Brian Collins  
Senior Operations Engineer

BC/sw  
Enclosures



January 3, 2013

Wallfam Ltd.  
1811 Heritage Blvd., Ste 200  
Midland, TX 79707-9715

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' FWL  
Lea County, New Mexico

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Sincerely,

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Brian Collins  
Senior Operations Engineer

BC/sw  
Enclosures



January 3, 2013

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

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' FWL  
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Brian Collins  
Senior Operations Engineer

BC/sw  
Enclosures



January 3, 2013

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

RE: Application For Authorization To Inject  
Magnum Pronto 32 State SWD #1  
Township 19 South, Range 32 East, N.M.P.M.  
Section 32: 2300' FNL & 2200' FWL  
Lea County, New Mexico

Dear Mr. Kautz:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Magnum Pronto 32 State SWD #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/sw  
Enclosures



**Jones, William V., EMNRD**

---

**From:** Brian Collins <BCollins@concho.com>  
**Sent:** Monday, January 07, 2013 3:12 PM  
**To:** Jones, William V., EMNRD  
**Subject:** COG Devonian Tops/Bases on C108's Soon to be Submitted

Will:

I'm still waiting on Devonian picks from geologists on Apple 5 St SWD 1, Willow 17 St SWD 1 and Reposado 2 St SWD 1. I do, however, have this information on 3 upcoming C108 applications which I'll go ahead and give you. These applications will be filed as Devonian-Silurian-Ordovician.

Corsair 2 State SWD 1 (250' fnl, 800' fel, Sec 2-19s-31e, Eddy Co): Geologist pick for Devonian top = 13,050' and Devonian bottom = 13,540'. I plan to file for interval from 12,900' to 14,350'.

Magnum Pronto 32 State SWD 1 (2300' fnl, 2200' fwl, Sec 32-19s-32e, Lea Co): Geologist pick for Devonian top = 13,610' and Devonian bottom = 14,100'. I plan to file for interval from 13,450' to 14,900'.

North Lusk 32 State SWD 1 (1550' fsl, 1800' fwl, Sec 32-18s-32e, Lea Co): Geologist pick for Devonian top = 13,970' and Devonian bottom = 14,460'. I plan to file for interval from 13,800' to 15,250'.

Thanks.

**Brian Collins**

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



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

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

| SENDER: COMPLETE THIS SECTION  |  | COMPLETE THIS SECTION ON DELIVERY  |  |
|--|--|--|--|
| <ul style="list-style-type: none"> <li>Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul> |  | A. Signature<br>X <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee<br>B. Received by (Printed Name) <i>LeRoy V. L.</i> C. Date of Delivery <i>1-10-13</i><br>D. Is delivery address different from Item 1? <input type="checkbox"/> Yes<br>If YES, enter delivery address below: <input type="checkbox"/> No                   |  |
| 1. Article Addressed to:<br><br>Attn: William V. Jones<br>NM Oil Conservation Division<br>1220 S. St. Francis Drive<br>Santa Fe, NM 87505  |  | 3. Service Type<br><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail<br><input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise<br><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.<br>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes |  |
| 2. Article Number<br>(Transfer from service label) <b>7011 1570 0000 7781 3912</b>   |  | PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540   |  |

| SENDER: COMPLETE THIS SECTION  |  | COMPLETE THIS SECTION ON DELIVERY  |  |
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| 1. Article Addressed to:<br><br>New Mexico State Land Office<br>310 Old Santa Fe Trail<br>Santa Fe, NM 87501   |  | 3. Service Type<br><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail<br><input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise<br><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.<br>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes |  |
| 2. Article Number<br>(Transfer from service label) <b>7011 1570 0000 7781 3929</b>   |  | PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540   |  |

| SENDER: COMPLETE THIS SECTION  |  | COMPLETE THIS SECTION ON DELIVERY  |  |
|--|--|--|--|
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| 1. Article Addressed to:<br><br>CIMAREX ENERGY<br>600 N MARIENFELD ST<br>MIDLAND TX 79701  |  | 3. Service Type<br><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail<br><input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise<br><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.<br>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes |  |
| 2. Article Number<br>(Transfer from service label) <b>7011 1570 0000 7781 4797</b>   |  |  |  |

## 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:

DAN IRWIN  
118 N GRANT ST  
HINSDALE IL 60521

2. Article Number

(Transfer from service label)

7011 1570 0000 7781 4070

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Dan Irwin*☐ Agent☐ Addressee

B. Received by (Printed Name)

DAN IRWIN

C. Date of Delivery

01/18/13

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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- 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:

MAGNUM HUNTER PRODUCTION INC  
600 N MARIENFELD ST STE 600  
MIDLAND TX 79701

2. Article Number

(Transfer from service label)

7011 1570 0000 7781 4803

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Donna Russell*☐ Agent☐ Addressee

B. Received by (Printed Name)

Donna Russell

C. Date of Delivery

1-10-13

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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- 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:

Prize Operating Co  
20 E. 5th St, Ste 1400  
Tulsa, OK 74103

2. Article Number

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Brianne Sorellano*☐ Agent☐ Addressee

B. Received by (Printed Name)

Brianne Sorellano

C. Date of Delivery

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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- 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:

KATHLEEN IRWIN SCHUSTER  
3213 PEPPERWOOD LANE  
FT COLLING CO 80525

2. Article Number

(Transfer from service label)

7011 1570 0000 7781 4780

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Kathleen I. Schuster

☐ Agent☒ Addressee

B. Received by (Printed Name)

Kathleen I. Schuster

C. Date of Delivery

1-19

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

2615 OAK DR #28  
LAKEWOOD CO 80215  
2013

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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- 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:

WALLFAM LTD  
1811 HERITAGE BLVD STE 200  
MIDLAND TX 79707-9715

2. Article Number

(Transfer from service label)

7011 1570 0000 7781 4087

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X S. Smith

☐ Agent☐ Addressee

B. Received by (Printed Name)

S. Smith

C. Date of Delivery

1-10-13

D. Is delivery address different from item 1? ☐ YesIf 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

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

1. Article Addressed to:

WK LAND COMPANY  
911 KIMBART ST  
LONGMONT CO 80501

2. Article Number

7011 1570 0000 7781 4094

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Lori Barker

☐ Agent☐ Addressee

B. Received by (Printed Name)

Lori Barker

C. Date of Delivery

1/15

D. Is delivery address different from item 1? ☐ YesIf 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

Injection Permit Checklist: Received 1/10/13 First Email Date: — Final Reply Date: 1/2/13 Final Notice Date: 1/3/13

Issued Permit: Type: WFX/PMX/SWD Number: 1399 Permit Date 2/2/13 (Legacy Permit: —)

# Wells 1 Well Name(s): MAGNUM PRONTO 32 State SWD #1

API Num: 30-025- Spud Date: Not Yet New/Old: N (UIC CI II Primacy March 7, 1982)

Footages 2300 FUL/2200 FWT Lot — Unit F 32 Tsp 19S Rge 32E County LEA

General Location or Pool Area: 30 mi NE of Corbado / Lusk

Operator: COG OPERATING LLC Contact BRIAN COLLINS

OGRID: 229137 RULE 5.9 Compliance (Wells) 8755 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed None Current Status: NOT Permitted

Planned Work to Well: Permit / Drill / Equip / Complet

Diagrams: Before Conversion — After Conversion — Are Elogs in Imaging?: NOT Yet

| Well Details:   | Sizes<br>Hole.....Pipe | Setting<br>Depths       | Stage<br>Tool | Cement<br>Sx or Cf | Cement Top and<br>Determination Method |
|---|------------------------|-------------------------|---------------|--------------------|--|
| Planned <input checked="" type="checkbox"/> or Existing <u>—</u> Surface  | <u>17 1/2 - 13 3/8</u> | <u>900'</u>             |               | <u>1250 CF</u>     | <u>CIRC</u>                            |
| Planned <input checked="" type="checkbox"/> or Existing <u>—</u> Interm   | <u>12 1/4 - 9 5/8</u>  | <u>3900'</u>            |               | <u>2450 CF</u>     | <u>CIRC</u>                            |
| Planned <input checked="" type="checkbox"/> or Existing <u>—</u> LongSt   | <u>8 3/4 - 7</u>       | <u>213450</u>           |               | <u>2250 CF</u>     | <u>23400'</u>                          |
| Planned <input type="checkbox"/> or Existing <u>—</u> Liner               |                        |                         |               |                    |  |
| Planned <input checked="" type="checkbox"/> or Existing <u>—</u> OpenHole |                        | <u>13450 - 14900 TD</u> |               |                    |  |

Depths/Formations:

|                           | Depths, Ft.   | Formation      | Tops?                               |
|---------------------------|---------------|----------------|-------------------------------------|
| Above                     |               |                |                                     |
| Above                     | <u>13610</u>  | <u>Dev</u>     | <input checked="" type="checkbox"/> |
| Proposed Interval TOP:    | <u>13450'</u> | <u>Dev SIL</u> |                                     |
| Proposed Interval BOTTOM: | <u>14900'</u> | <u>ORD</u>     |                                     |
| Below                     | <u>14100</u>  | <u>SIL</u>     | <input checked="" type="checkbox"/> |
| Below                     |               |                |                                     |

|                          |   |                |
|--------------------------|---|----------------|
| Max. PSI <u>2690'</u>    | Open Hole <input checked="" type="checkbox"/> | Perfs <u>—</u> |
| Tubing Size <u>4 1/2</u> | Packer Depth <u>13400'</u>                    |                |

Capitan Reef? (In — thru —), Rotash? — Noticed? — (WIPP? — Noticed? —) Salado Top — Bot — Cliff House? —

Fresh Water: MaxDepth: 2900' FW Formation — Wells? NO Analysis? — Affirmative Statement ☒

Disposal Fluid: Formation Source(s) Bona SPRING On Lease — Only from Operator ☒ or Commercial —

Disposal Interval: Protectable Waters? — H/C Potential: Log — Mudlog — /DST — /Tested — /Depleted — Other —

Notice: Newspaper Date 1/10/13 Mineral Owner — Surface Owner SLO N. Date 1/3/13

RULE 26.7(A) Identified Tracts? — Affected Persons: CIMOREX / PRIN / M.H. / PIP / etc N. Date 1/3/13

AOR: Maps? ☒ Well List? ☒ Producing in Interval? NO Formerly Produced in Interval? NO

Penetrating.....No. Active Wells 0 Num Repairs? 0 on which well(s)? —

Penetrating.....No. P&Aed Wells 0 Num Repairs? 0 on which well(s)? —

Diagrams? —

Permit Conditions:

Issues:

Issues:

Issues: