

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: **550 West Texas, Ste 100, Midland TX 79701-4287**

CONTACT PARTY: **Mark A. Fairchild**

PHONE: **432-686-3021**

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: **Mark A. Fairchild**

TITLE: **Sr. Operations Engr.**

SIGNATURE: *Mark A. Fairchild*

DATE: **3/3/2010**

E-MAIL ADDRESS: **MFairchild@Conchoresources.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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

Tubing Size: **3 1/2" EUE** Lining Material: **Internally plastic coated**

Type of Packer: **Double grip type, set in neutral**

Packer Setting Depth: **no more than 100' above top perf**

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: **Cisco**

3. Name of Field or Pool (if applicable): **None**

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, none

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

San Andres @ 2,500 ; Paddock @ 3,980 ; Blinebry @ 4,450 ; Wolfcamp @ 7,190



VERITAS 321

ENERGY PARTNERS, LP

ATTACHMENT TO APPLICATION C-108

COG Operating Inc.
Empire Federal SWD 10 #5
Sec. 10, T-17-S, R-29-E
Eddy County, NM

- III. WELL DATA – See attached on reverse side of form as requested.
- V. MAP ATTACHED
- VI. LIST OF WELLS AND DATA ATTACHED. — *NO AOR wells*
- VII. PROPOSED OPERATIONS
 - 1. The injection volume will average 10,000 to 15,000 BWPD while the maximum injection volumes are expected to be 20,000 BWPD.
 - 2. This will be a closed loop system.
 - 3. Proposed average injection pressure: Vacuum
Proposed maximum injection pressure: 1660 psig
 - 4. Analysis attached, only produced water.
 - 5. This well is not yet drilled. COG will swab the formation and recover fluid samples for analysis and reporting to NMOCD. Research disposal zone formation water and attach and chemical analysis.
- VIII. SEE ATTACHED
- IX. SEE ATTACHED
- X. Logging and test data will be run on the well when drilled.

- XI. No fresh water found or recorded by state engineer or OCD.
- XII. The disposal formation will have several thousand feet of overburden on top of it. In these several thousands of feet of impermeable shale and evaporate zones of various thickness exists. These zones will stop any hydraulic communication between geologic strata.
- XIII. Notice (this application) has been sent to the surface owner (BLM) and to each leasehold operator within a half mile as required.

COG SENM SWD Well Questionnaires

Date: 2/28/11

By: Mark A. Fairchild, Office: 432-686-3021

Note: Answers to questions in this color

What will be the well name?

Empire Federal SWD 10 #5

What logs have been/will be run in the well?

Logs will be run as follows: porosity and resistivity

How will you re-enter/drill/convert the well?

The well will be drilled 100% with rotary tools.

How will you test the mechanical integrity of the casing?

A State of New Mexico supervised MIT test to 500 psig will be run on the tubing/casing annulus.

What size tubing do you plan to use?

The tubing will be 3 1/2" Nominal OD.

How will tubing be internally lined?

The tubing will be internally plastic coated.

What type packer will be used?

A nickel plated compression set packer will be utilized.

Where will packer be set?

To within 50 to 100' above casing shoe.

Will there be any other type of casing/tubing seal?

No.

What is the fracture gradient?

Approx 0.75

Will the well be stimulated?

Yes

If yes, how will the well be stimulated?

Large conventional acid job.

Into what perforated intervals will you inject?

Cisco Reef, 8,300 to 8,920'. This interval anticipated to be open hole.

What will be the average daily volume injected?

10-15,000 BWPD

What will be the maximum daily volume injected?

20,000 BWPD

What will be the average injection pressure?

Vacuum

What will be the maximum injection pressure?

1660 psig

Will water be trucked or piped to the well?

Piped

What wells will dispose into it?

Various wells owned exclusively by COG on our SWD water line system

Any non-COG wells?

No outside operated water will be disposed of.

What surface facilities (e.g.; tanks, pumps, filters) will be installed?

4 - 750 Bbl water storage tanks, 1 - 1,000 Bbl Gun Barrel

2 - 500 Bbl steel tanks, 1 - 400 BHP H pump

Do you have an analysis of the produced water you plan to inject?

Yes

Do you have an analysis of the formation water into which you'll inject?

No, these well are on a vacuum and do not produce.

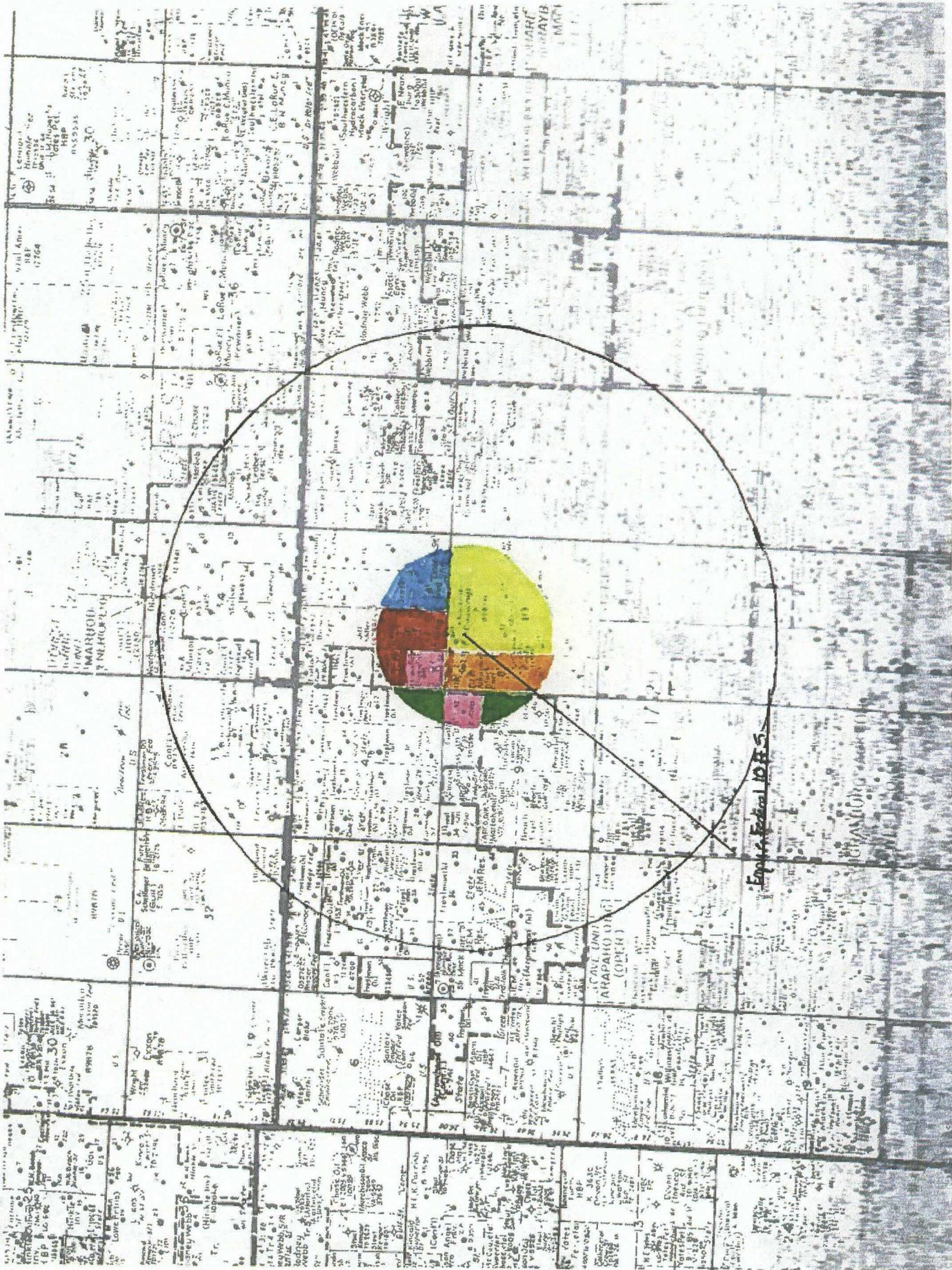
How will the geology prevent migration into fresh water zones (e.g., thickness of shale or salt layers)?

Various impervious geological barriers exist between the Cisco and the surface.

Will the system be open or closed?

Closed

- COS
- Cockburn Burney
- Continental Oil
- JEM Resources
- Bill A. Miller
- John Rubin & Son / C.D. Fulton



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name EMPIRE FED. SWD "10"			⁶ Well Number 5
⁷ OGRID No. 229137		⁸ Operator Name COG			⁹ Elevation 3601.4

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	10	17 S	29 E		850	NORTH	2310	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

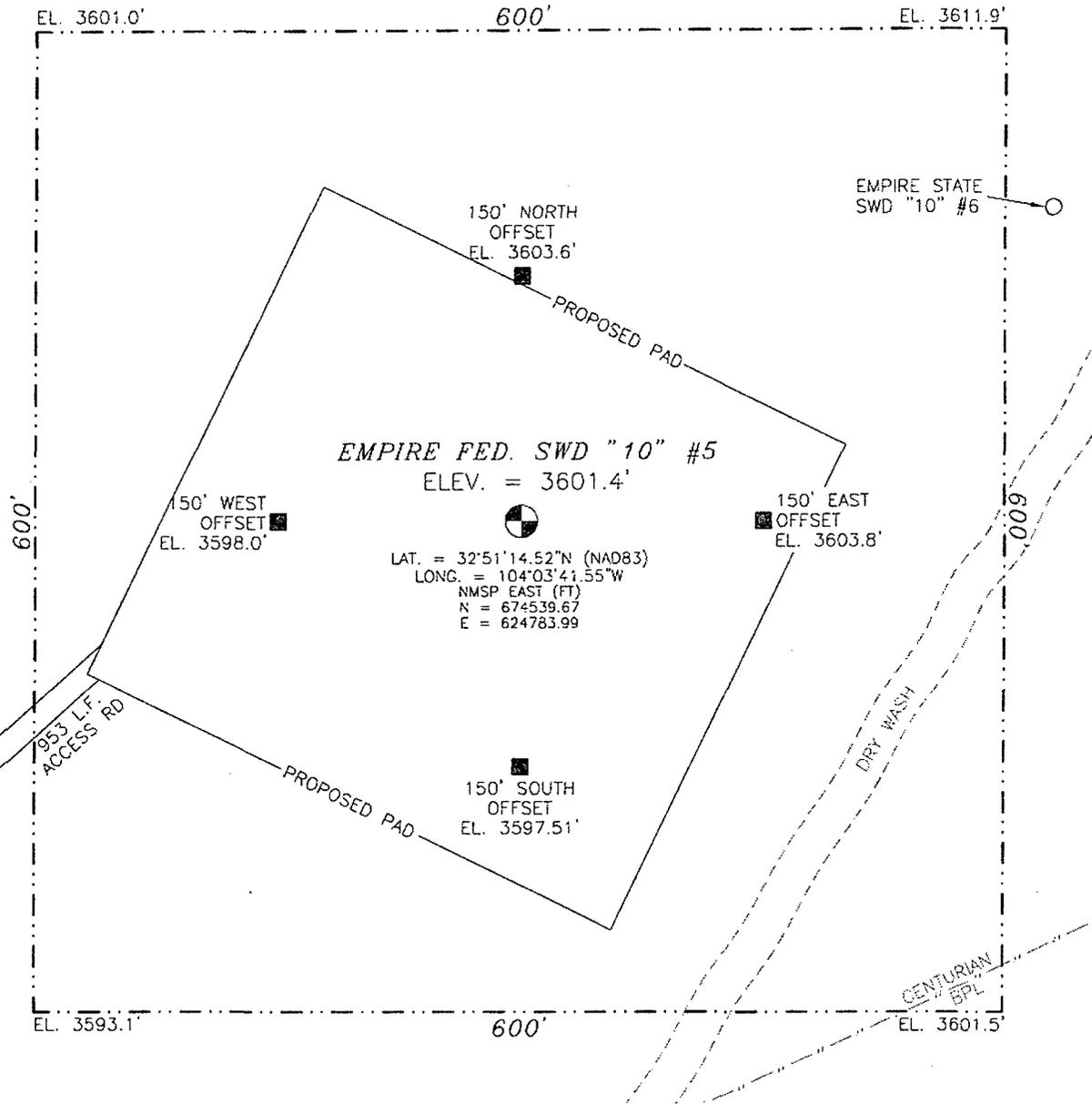
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 10 LAT. = 32°51'22.98"N LONG. = 104°04'16.42"W NMSP EAST (FT) N = 675387.22 E = 621806.50				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>	
EMPIRE FED. SWD "10" #5 ELEV. = 3601.4' LAT. = 32°51'14.52"N (NAD83) LONG. = 104°03'41.55"W NMSP EAST (FT) N = 674539.67 E = 624783.99		NE CORNER SEC. 10 LAT. = 32°51'22.92"N LONG. = 104°03'14.48"W NMSP EAST (FT) N = 675395.23 E = 627091.63		Signature _____ Date _____ Printed Name _____	
SW CORNER SEC. 10 LAT. = 32°50'30.71"N LONG. = 104°04'16.40"W NMSP EAST (FT) N = 670103.43 E = 621821.44		SE CORNER SEC. 10 LAT. = 32°50'30.62"N LONG. = 104°03'14.41"W NMSP EAST (FT) N = 670108.72 E = 627111.49		¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of original surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> NOVEMBER 15, 2010 Date of Survey: 12/19/10 Signature and Seal of Professional Surveyor: <i>William Jaramillo</i> Certificate Number: WILLIAM JARAMILLO, PLS 12797 SURVEY NO. 297	

SECTION 10, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



0 10 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HWY 82 AND CR 214 (BARNAVILLE DRAW RD - CALICHE)
 GO NORTH ON CR 214 1.6 MILES, TURN RIGHT AND GO EAST 836',
 TURN LEFT AND GO NORTH 0.8 MILES TO A ROAD SURVEY, FOLLOW
 FLAGS EAST 434' THEN NORTHEAST 519' TO THE SOUTHWEST PAD
 CORNER FOR THIS LOCATION.

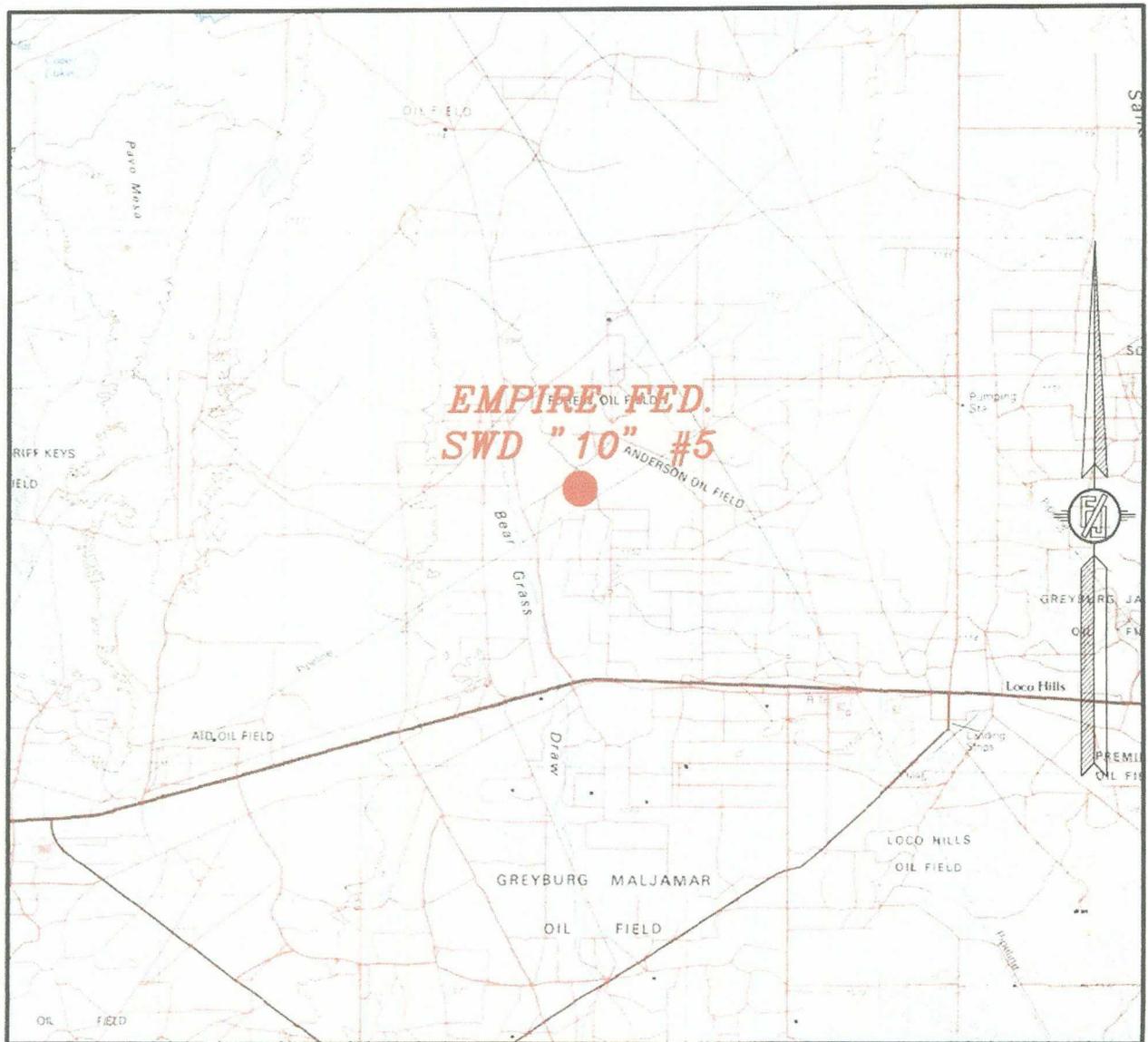
COG OPERATING, LLC
EMPIRE FED. SWD "10" #5
 LOCATED 850 FT. FROM THE NORTH LINE
 AND 2310 FT. FROM THE EAST LINE OF
 SECTION 10, TOWNSHIP 17 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 15, 2010

SURVEY NO. 297

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 297-5810

SECTION 10, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

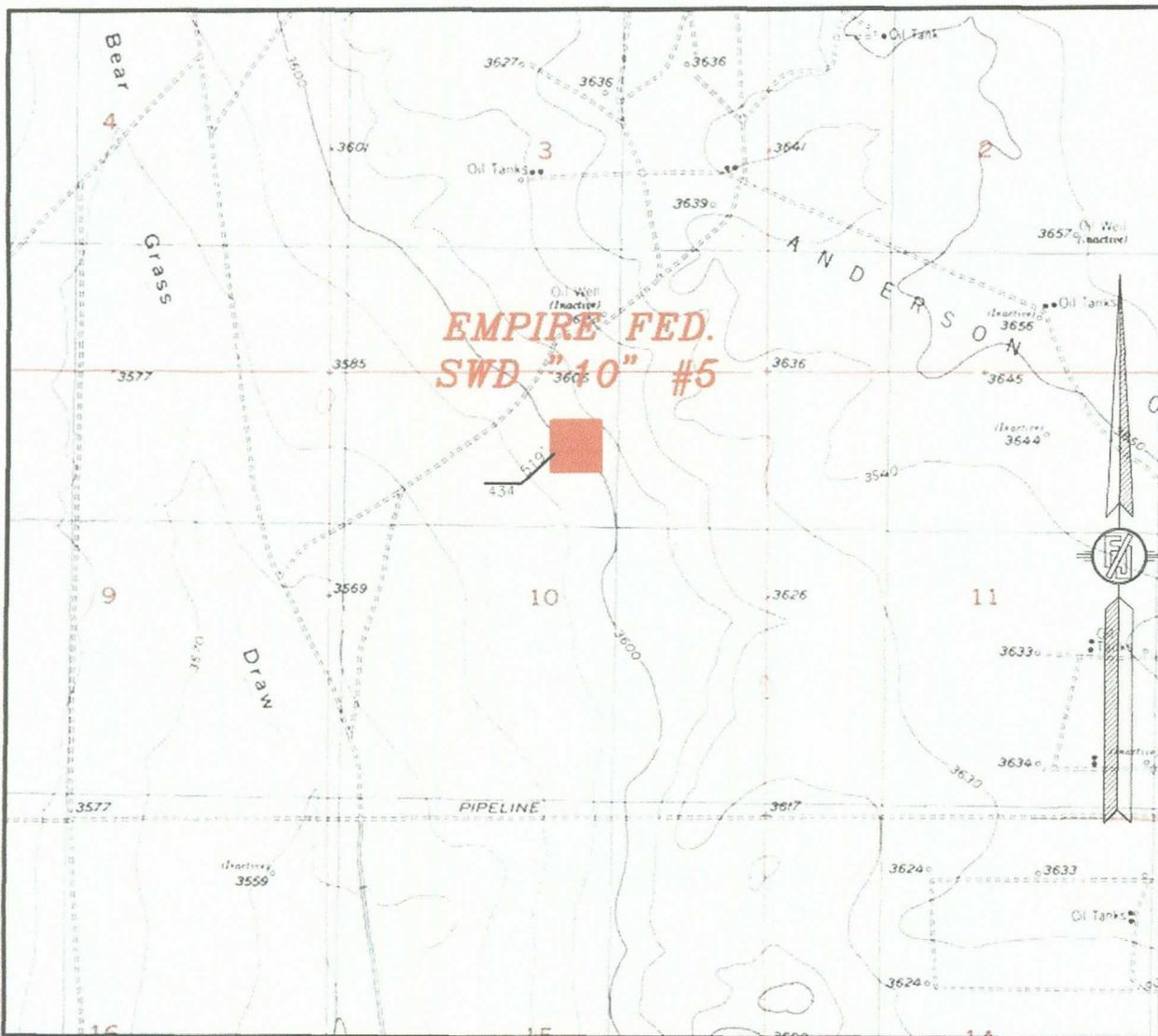
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EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 15, 2010

SURVEY NO. 297

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 897-5850

SECTION 10, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
 RED LAKE SE.

NOT TO SCALE

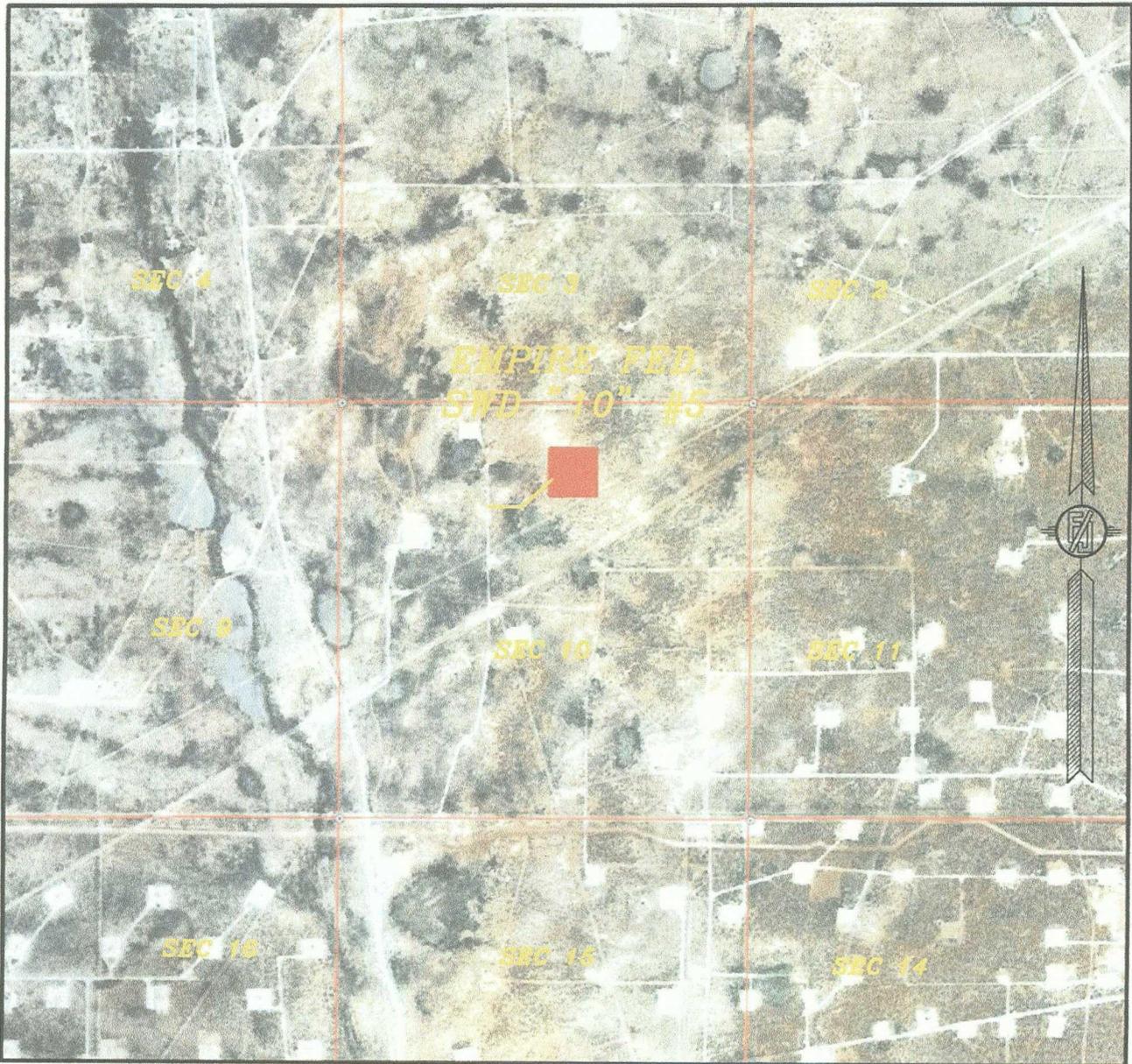
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 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 15, 2010

SURVEY NO. 297

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 887-5830 CARLSBAD, NEW MEXICO

SECTION 10, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG. 2009

COG OPERATING, LLC
EMPIRE FED. SWD "10" #5
LOCATED 850 FT. FROM THE NORTH LINE
AND 2310 FT. FROM THE EAST LINE OF
SECTION 10, TOWNSHIP 17 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 15, 2010

SURVEY NO. 297

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

Empire Federal 10 #5

Wells within area of review that penetrate proposed disposal interval:

None

Wells within area of review that do not penetrate proposed disposal interval:

API #: 3001520165 Well_Name: DODD FEDERAL UNIT # 006

Location: H-10-17.0S-29E , 1980 FNL, 660 FEL Lat:32.8510122304 Long:-104.056227876

Operator Name: MARBOB ENERGY CORP [Operator and Lessee Info] County: Eddy

Land Type: Federal Well Type: Injection Spud Date: Plug Date:4/12/2006

Elevation GL: Depth TVD:

Pools associated:

API #: 3001520080 Well_Name: M DODD B # 026

Location: I-10-17.0S-29E , 1980 FSL, 660 FEL Lat:32.8473568075 Long:-104.056224178

Operator Name: MARBOB ENERGY CORP [Operator and Lessee Info] County: Eddy

Land Type: Federal Well Type: Oil Spud Date: Plug Date:5/6/2002 1

Elevation GL: Depth TVD:

Pools associated:

API #: 3001520162 Well_Name: DODD FEDERAL UNIT # 007

Location: J-10-17.0S-29E , 1980 FSL, 1980 FEL Lat:32.847360478 Long:-104.060542849

Operator Name: MARBOB ENERGY CORP [Operator and Lessee Info] County: Eddy

Land Type: Federal Well Type: Injection Spud Date: Plug Date:10/12/2006

Elevation GL: Depth TVD:

Pools associated:

API #: 3001520164 Well_Name: M DODD B # 029A

Location: G-10-17.0S-29E , 1980 FNL, 1980 FEL Lat:32.8510148977 Long:-104.060546545

Operator Name: MARBOB ENERGY CORP [Operator and Lessee Info] County: Eddy

Land Type: Federal Well Type: Oil Spud Date: Plug Date:4/5/1995 1

Elevation GL: 3603 Depth TVD:

Pools associated:

API #: 3001502944 **Well_Name:** M DODD B # 013
Location: K-10-17.0S-29E , 1980 FSL, 1650 FWL **Lat:**32.8473650177 **Long:**-104.065884385
Operator Name: MARBOB ENERGY CORP [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: Federal **Well Type:** Oil **Spud Date:** **Plug Date:**2/5/2003 1
Elevation GL: **Depth TVD:**
Pools associated:

API #: 3001502943 **Well_Name:** M DODD B # 012
Location: F-10-17.0S-29E , 1980 FNL, 1980 FWL **Lat:**32.8510175294 **Long:**-104.064807712
Operator Name: MARBOB ENERGY CORP [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: Federal **Well Type:** Oil **Spud Date:** **Plug Date:**4/25/2000
Elevation GL: 3593 **Depth TVD:**
Pools associated:

API #: 3001502939 **Well_Name:** COCKBURN FEATHERSTON **Property Number.:** 001
Location: E-10-17.0S-29E , 1980 FNL, 660 FWL **Lat:**32.8510202476 **Long:**-104.06912638
Operator Name: COCKBURN BARNEY **County:** Eddy
Land Type: Unknown **Well Type:** Oil **Spud Date:**1/1/1900 1 **Plug Date:**1/1/1900 1
Elevation GL: 0 **Depth TVD:** 0

API #: 3001502938 **Well_Name:** FEATHERSTONE # 001Y
Location: E-10-17.0S-29E , 1880 FNL, 660 FWL **Lat:**32.8512951051 **Long:**-104.069126609
Operator Name: ALAMO PERMIAN RESOURCES, LLC [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: Federal **Well Type:** Oil **Spud Date:** **Plug Date:**
Elevation GL: **Depth TVD:**
Pools associated:

API #: 3001502936 **Well_Name:** COCKBURN FEATHERSTON **Property Number.:** 002
Location: D-10-17.0S-29E , 660 FNL, 660 FWL **Lat:**32.8546483655 **Long:**-104.069129353
Operator Name: COCKBURN BARNEY **County:** Eddy
Land Type: Unknown **Well Type:** Oil **Spud Date:**1/1/1900 1 **Plug Date:**1/1/1900 1
Elevation GL: 0 **Depth TVD:** 0

API #: 3001502937 **Well_Name:** FEATHERSTONE # 002Y
Location: D-10-17.0S-29E , 690 FNL, 690 FWL **Lat:**32.8545658476 **Long:**-104.069031135
Operator Name: ALAMO PERMIAN RESOURCES, LLC [Operator and Lessee Info] **County:** Eddy
Land Type: Federal **Well Type:** Oil **Spud Date:** **Plug Date:**
Elevation GL: **Depth TVD:**
Pools associated:

API #: 3001525705 **Well_Name:** DODD FEDERAL UNIT # 001
Location: C-10-17.0S-29E , 330 FNL, 1650 FWL **Lat:**32.8555533688 **Long:**-104.065891083
Operator Name: COG OPERATING LLC [Operator and Lessee Info] **County:** Eddy
Land Type: Federal **Well Type:** Oil **Spud Date:** **Plug Date:**
Elevation GL: **Depth TVD:** 4675
Pools associated:

API #: 3001502942 **Well_Name:** M DODD B **Property Number.:** 010
Location: C-10-17.0S-29E , 660 FNL, 1980 FWL **Lat:**32.8546456474 **Long:**-104.064810685
Operator Name: MARBOB ENERGY CORP **County:** Eddy
Land Type: Unknown **Well Type:** Oil **Spud Date:**1/1/1900 1 **Plug Date:**1/1/1900 1
Elevation GL: 0 **Depth TVD:** 0

API #: 3001502878 **Well_Name:** STATE **Property Number.:** 001
Location: O-3-17.0S-29E , 660 FSL, 1980 FEL **Lat:**32.8582711292 **Long:**-104.060553527
Operator Name: JOHN DUBLIN & SON **County:** Eddy
Land Type: State **Well Type:** Oil **Spud Date:**1/1/1900 1 **Plug Date:**1/1/1900 1
Elevation GL: 0 **Depth TVD:** 0

API #: 3001521976 **Well_Name:** DUBLIN STATE # 004
Location: O-3-17.0S-29E , 990 FSL, 1650 FEL **Lat:**32.8591775141 **Long:**-104.059473942
Operator Name: C O FULTON [Operator and Lessee Info] **County:** Eddy
Land Type: State **Well Type:** Oil **Spud Date:** **Plug Date:**
Elevation GL: **Depth TVD:**
Pools associated:



New Mexico Office of the State Engineer
Point of Diversion by Location
(with Owner Information)

POD Search:

POD Basin: Roswell Artesian

PLSS Search:

Section(s): 10

Township: 17S

Range: 29E

No PODs found.

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Kathy McCarroll, being first duly sworn,
on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

March 16, 2011
Legal Notice
March 1, 2011
COG Operating LLC is applying to drill the Empire Federal SWD 10 #5 as a water disposal well. The well is located at 850' FNL & 2310' FEL, Sec. 10, T. 17 S., R. 29 E., Eddy County, NM. The well will dispose of water produced from oil and gas wells into the Cisco Reef zone at a depth of 8300' to 8920' at a maximum rate of 20,000 barrels of water per day and at a maximum pressure of 1,660 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, within 15 days. Additional information can be obtained by contacting Iye Orr, Veritas 321 Energy Partners, LP, P.O. Box 173, Midland, TX; phone number is (432) 349-4729.

March 16 2011

That the cost of publication is **\$44.09** and that payment thereof has been made and will be assessed as court costs.

Kathy McCarroll

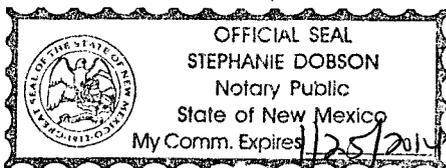
Subscribed and sworn to before me this

16th day of March, 2011

Stephanie Dobson

My commission Expires on 1/25/2014

Notary Public





April 3, 2011

Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Empire Federal SWD 10 #5
Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,920')
Location: 850' FNL & 2310' FEL Sec 10, T17S, R29E
Eddy County, NM
Approximate Location: 3-5 miles East of Artesia, NM
Applicant Name: COG Operating LLC (432) 685-4340
Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Tye Orr
Consulting Landman
(432) 349-4729

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

MIDLAND TX VILLAGE STA 79704
Postmark
APR 5 2011
USPS

Sent To
BLM
Street, Apt. No.,
or PO Box No. 620 E. Greene St.
City, State, ZIP+4 Carlsbad NM 88220

PS Form 3800, August 2006

2007 2560 0003 3682 2317
LTER 299E E000 0952 2002



April 3, 2011

C O Fulton
Louis Fulton
P.O. Box 1176
Artesia, NM 88210

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Empire Federal SWD 10 #5
Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,920')
Location: 850' FNL & 2310' FEL Sec 10, T17S, R29E
Eddy County, NM
Approximate Location: 3-5 miles East of Artesia, NM
Applicant Name: COG Operating LLC (432) 685-4340
Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Tye Orr
Consulting Landman
(432) 349-4729

4912 299E E000 0952 2002

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Street, Apt. No., or PO Box No. <u>PO Box 1176</u>	
City, State, ZIP+4 <u>Artesia, NM 88210</u>	
PS Form 3800, August 2005 See Reverse for Instructions	





April 3, 2011

Alamo Permian Resources, LLC
415 W. Wall Suite 1715
Midland, TX 79701

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Empire Federal SWD 10 #5

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,920')

Location: 850' FNL & 2310' FEL Sec 10, T17S, R29E

Eddy County, NM

Approximate Location: 3-5 miles East of Artesia, NM

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Tye Orr
Consulting Landman
(432) 349-4729

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Postmark: APR 3 2011
MIDLAND TX VILLAGE STA 79704
USPS

Sent To	Alamo Permian Resources, LLC
Street, Apt. No., or PO Box No.	415 W. Wall Suite 1715
City, State, ZIP+4	Midland, TX 79701



April 3, 2011

Bill L. Miller
P.O. Box 3396
Evergreen, CO 80437

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

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Please call me if you have any questions.

Sincerely,


Tye Orr
Consulting Landman
(432) 349-4729

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Sent To: Bill L. Miller	
Street, Apt. No., or PO Box No. P.O. Box 3369	
City, State, ZIP+4 Evergreen CO 80437	

PS Form 3800, August 2006 See Reverse for Instructions



April 3, 2011

Three Rivers Operating Company LLC
1122 South Capital of Texas Hwy, Suite 325
Austin, TX 78746

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Empire Federal SWD 10 #5
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Location: 850' FNL & 2310' FEL Sec 10, T17S, R29E
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Please call me if you have any questions.

Sincerely,

Tye Orr
Consulting Landman
(432) 349-4729

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SENT TO
Three Rivers Operating Co.
Street, Apt. No. or PO Box No. 1122 S. Capital of TX Hwy, Suite 325
City, State, ZIP+4 Austin, TX 78746

PS Form 3800, August 2006 See Reverse for Instructions



April 3, 2011

Cockburn Barney
P.O. Box 105
Artesia, NM 88210

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Location: 850' FNL & 2310' FEL Sec 10, T17S, R29E
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Applicant Name: COG Operating LLC (432) 685-4340
Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Tye Orr
Consulting Landman
(432) 349-4729

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Total Postage & Fees	\$

MIDLAND TX VILLAGE STA 79704
APR 10 2011
Postmark Here

Sent To	<i>Cockburn Barney</i>
Street, Apt. No., or PO Box No.	<i>P.O. Box 105</i>
City, State, ZIP+4	<i>Artesia, NM 88210</i>

PS Form 3800, August 2008 See Reverse for Instructions



April 3, 2011

ConocoPhillips Company
 Patsy L. Clugston
 3401 E. 30th Street
 Farmington, NM 87402

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Tye Orr
 Consulting Landman
 (432) 349-4729

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Total Postage & Fees	\$

Sent To	ConocoPhillips Co.
Street, Apt. No., or PO Box No.	3401 E. 30th St.
City, State, ZIP+4	Farmington, NM 87402

PS Form 3800, August 2010 See Reverse for Instructions



April 3, 2011

Continental Oil Co.
Box 427
Artesia, NM 88210

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Empire Federal SWD 10 #5

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,920')

Location: 850' FNL & 2310' FEL Sec 10, T17S, R29E

Eddy County, NM

Approximate Location: 3-5 miles East of Artesia, NM

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Tye Orr
Consulting Landman
(432) 349-4729

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MAY 10 2011
VILLAGE STA 1970E
USPS

Sent To: Continental Oil Co.
Street, Apt. No.,
or PO Box No.: Box 427
City, State, Zip+4: Artesia, NM 88210

PS Form 3800, August 2006 See Reverse for Instructions



April 3, 2011

JEM Resources
Box 648
Artesia, NM 88210

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Eddy County, NM
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Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

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Please call me if you have any questions.

Sincerely,

Tye Orr
Consulting Landman
(432) 349-4729

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Total Postage & Fees	\$

Postmark Here
MAY 10 2011
MIDLAND TX VILLAGE ST 79704 USPS

Sent To: JEM Resources
Street, Apt. No. or PO Box No.: Box 648
City, State, ZIP+4: Artesia, NM 88210

US Form 3800, August 2006 See Reverse for Instructions

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, April 18, 2011 11:23 AM
To: 'Mark Fairchild'; 'Tye Orr'
Cc: Brooks, David K., EMNRD; Ezeanyim, Richard, EMNRD
Subject: SWD applications

Hello Mark and Tye:

I have received your hardcopies in the mail of 6 SWD applications. These were logged in and assigned to me to review. I glanced through them and see a couple things that you are probably aware of.

- 5/1/11
PENDING
- a. It seems that the State of New Mexico owns the surface of all but one of these – that one is a federal surface. Since State leases should be faster than Federal leases to generate approved APD's, please let me know when the API numbers will be coming for these? Which ones will come first? The SWD permits are site specific as are API numbers – we like to have API numbers before releasing SWD permits. If the proposed well moves location after we issue an SWD, the disposal permit is no longer valid.
 - b. The Maljamar SWD 30 #2 application has a blurry newspaper notice – please mail another copy.
 - c. The cement top data for surrounding wells – active or P&Aed is not there.
 - d. The wellbore diagrams of P&Aed wells within the ½ mile AOR not there. You could also send diagrams of the non-plugged wells to show cement coverage – your option.
 - e. It appears that owners were researched and notice was provided. We ask all applicants for SWD to tell us exactly which tracts of lands are owned by the parties that were noticed. One way to show that to us is to send a SecTspRge map with the ½ mile circle drawn around the proposed SWD site. On that map, outline all the tracts of common ownership. Reference these tracts in a separate page listing the owner or owners of each specific tract. Since the work has already been done to determine whom to notice, you should have this information.

Thank You,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Mark Fairchild [MFairchild@conchoresources.com]
Sent: Thursday, April 21, 2011 9:13 AM
To: Jones, William V., EMNRD
Cc: Noel Olivas; Robyn Odom; Kelly Holly; Sammie Hodges; Tye Orr
Subject: COG SENM SWD Drilling Applications, Additional Data
Attachments: Maljamar SWD 30 #2.xls; Arnold Federal Com #1.xls; Big Tank 33 Fed Com #1.xls; COG SENM SWD Drilling NMOCD Additional Well Data.docx; Conoco 8 State Com #1.xls; Full Tank 33 Fed Com #1.xls

Will, attached please find:

1. A document with all of our proposed new drills by name with the well data for any well within $\frac{1}{2}$ mile that penetrates the zones applied for disposal.
2. A complete wellbore diagram of with cement tops of the wells from one above that penetrate the applied for disposal horizon.
3. Please let me know if this completes our SWD Drilling Application requirements.

Thanks

M.A. Fairchild
COG OPERATING LLC
Office: 432-686-3021
Cell: 432-230-7170



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.

Jones, William V., EMNRD

From: wingram@blm.gov
Sent: Tuesday, April 26, 2011 7:08 AM
To: Jones, William V., EMNRD
Cc: Mark Fairchild; Ezeanyim, Richard, EMNRD
Subject: RE: State Empire SWD permits

Will,

The BLM will require that the operator run logs and possible DST and provide an evaluation to verify that there is no production in paying quantities from the zones proposed for injection.

This is to protect potential Federal minerals from contamination.

Thanks,
Wesley W. Ingram
Supervisory Petroleum Engineer
Bureau of Land Management
575-234-5982
wesley.ingram@nm.blm.gov

"Jones, William
V., EMNRD"
<William.V.Jones@
state.nm.us>

04/25/2011 01:24
PM

To
Mark Fairchild
<MFairchild@conchoresources.com>
cc
"Wesley Ingram@blm.gov"
<Wesley Ingram@blm.gov>, "Ezeanyim,
Richard, EMNRD"
<richard.ezeanyim@state.nm.us>
Subject
RE: State Empire SWD permits

Hello Mark:

I just got back in the office and noticed a phone call from Wesley with the BLM in Carlsbad. He is concerned they received COG APD's for SWD wells without receiving the New Mexico C-108's (SWD application permit form).

You may have already taken care of this?

Regards,

Jones, William V., EMNRD

From: Tye Orr [tyeorr@yahoo.com]
Sent: Wednesday, May 11, 2011 2:22 PM
To: Jones, William V., EMNRD
Subject: Re: Empire Federal SWD 10 #5 SWD Application
Attachments: Cockburn Notice Receipt.jpeg; JEM Notice Receipt.jpeg; Continental Oil Notice Receipt.jpeg; ConocoPhillips Notice Receipt.jpeg; Miller Notice Receipt.jpeg; Three Rivers Notice Receipt.jpeg

Will,

Attached are the remaining proof of notice documents for the subject well to complete the SWD application per your request. Please let me know if you have any other questions. Thanks.

Tye Orr

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, May 23, 2011 9:34 AM
To: 'Tye Orr'; 'Mark Fairchild'
Cc: Ezeanyim, Richard, EMNRD; 'Wesley_Ingram@blm.gov'
Subject: Empire Federal SWD 10 #5 SWD Application

Hello Mark and Tye:

I have the Empire State SWD "9" Well No. 4 ready to release on Thursday if no protests arrive.

The Empire State SWD "8" Well No. 1 is pending a reply from you as to how to handle the offsetting uncemented well – the latest provided notice of May 10, means it could not be released prior to Thursday.

If you have any changes to your rig schedule, let me know.

Last week Mark you said the Empire Federal SWD 10 Well No. 5 would be the first of the Federal wells to drill, so I intended to evaluate it today.

The first thing I see is a discrepancy on the reported location of the proposed well in the C-108 versus the mapped location versus the location on the acreage dedication plat – they are all different.

Since there is no API number, I cannot check Division records to determine which is correct and SWD applications are specific to one location.

Please look at this application and let me know the exact spot the well will be drilled.

The mapped location is what Tye used to determine whom to provide notice.

If this results in any change in who needs to be noticed, please send any new copies of certified receipts.

Hope your week goes good.

Will Jones

New Mexico

Oil Conservation Division

[Images](#) [Contacts](#)

Jones, William V., EMNRD

From: Tye Orr [tyeorr@yahoo.com]
Sent: Friday, May 27, 2011 1:51 PM
To: Jones, William V., EMNRD
Cc: Mark Fairchild
Subject: Fw: RE: Empire Federal SWD 10 #5 SWD Application
Attachments: Area of Review Plat2.jpeg

Will,

Attached is a corrected area of review plat in regards to the subject SWD well location applied for. These didn't appear to be any change in notifications so we should be good. Please let me know if you need anything else. Thanks.

Tye Orr
Consulting Landman

--- On Wed, 5/25/11, Mark Fairchild <MFairchild@conchoresources.com> wrote:

From: Mark Fairchild <MFairchild@conchoresources.com>
Subject: RE: Empire Federal SWD 10 #5 SWD Application
To: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
Cc: "Tye Orr" <tyeorr@yahoo.com>
Date: Wednesday, May 25, 2011, 3:04 PM

1. *Yes sir, drawn incorrectly.*
2. *Tye is correcting and will send.*
3. *Does not appear to effect any notices.*
4. *These wells have been much harder to get permitted for some reason.*

M.A. Fairchild

COG OPERATING LLC

Office: 432-686-3021

Cell: 432-230-7170



Inactive Well List

Total Well Count: 2870 Inactive Well Count: 6

Printed On: Sunday, May 29 2011

District	API	Well	ULSTR	OCD Unit	OGRID	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	TA Exp Date
2	30-015-02692	E HI LONESOME FEDERAL #006	D-13-16S-29E	D	229137	COG OPERATING LLC	F	O	02/2010			
2	30-015-34278	FPR STATE #001 #001	P-36-19S-29E	P	229137	COG OPERATING LLC	S	O	11/2009	MORROW		
2	30-015-10334	SINCLAIR PARKE #001	F-22-17S-30E	F	229137	COG OPERATING LLC	F	O	02/2010			
2	30-015-23938	SOUTH SHUGART DEEP #001	3-4 -19S-31E	C	229137	COG OPERATING LLC	F	G	03/2009			
2	30-015-03789	TYLER FEDERAL #002	O-35-17S-29E	O	229137	COG OPERATING LLC	F	O	09/2009			
1	30-025-38079	WEST PEARL 36 STATE #001	F-36-19S-34E	F	229137	COG OPERATING LLC	S	G	11/2007	Morrow		

WHERE Ogrid:229137, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15, Excludes Wells Under ACOI, Excludes Wells in Approved TA Period.

(5/27 Lost Request assumed)

Injection Permit Checklist (07/9/2010)

WFX _____ PMX _____ SWD 1283 Permit Date 5/29/11 UIC Qtr (A/M/J)

Wells 1 Well Name(s): EMPIRE FalsWD 10#5

API Num: 30-015-NA Spud Date: New New/Old: N (UIC primacy March 7, 1982)

Footages 850 FWL / 2310 FEL Unit Sec 10 Tsp 17S Rge 29E County EDDY

General Location: N. of Reef

Operator: COG OPERATING, LLC Contact Mark Fairchild

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

Well File Reviewed _____ Current Status: Planned well

Planned Work to Well:

Diagrams: Before Conversion _____ After Conversion _____ Elogs in Imaging File: Will LOG & Test & Revis

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
	Hole.....	Pipe				
New <input checked="" type="checkbox"/> Existing ___ Surface	1 1/2	3 1/8	200		139 CF	CIRC
New <input checked="" type="checkbox"/> Existing ___ Interm	12 1/4	9 5/8	2600		814 CF	CIRC
New <input checked="" type="checkbox"/> Existing ___ LongSt	8 3/4	7"	8350		1298 CF	CIRC
New ___ Existing ___ Liner						
New <input checked="" type="checkbox"/> Existing ___ OpenHole			8350-9000			

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above			
Injection TOP:	8350	Circ Reef	Max. PSI 1670 OpenHole <input checked="" type="checkbox"/> Perfs
Injection BOTTOM:	9000/8920	" "	Tubing Size 3 1/2" Packer Depth
Formation(s) Below			

Capitan Reef? ~~_____~~ (Potash? ~~Noticed?~~) [WIPP? ~~Noticed?~~] Salado Top/Bot _____ Giff House? _____

Fresh Water: Depths: ~~_____~~ No NE Formation _____ Wells? _____ Analysis? _____ Affirmative Statement

Disposal Fluid Analysis? Sources: ~~_____~~ Yes etc

Disposal Interval: Analysis? _____ Production Potential/Testing: Will Test

Notice: Newspaper Date 3/16/11 Surface Owner BLM Mineral Owner(s) _____

RULE 26.7(A) Affected Persons: CO Fulton / ALAMO / BILL MUIR (3 RIVERS / COCKBURN / CORONADO)

AOR: Map? Well List? Active Wells Producing in Interval? Repairs _____ Which Wells? _____

.....P&A Wells Diagrams? Repairs _____ Which Wells? _____

Questions: Will Swab Request Sent _____ Reply: _____