

DATE IN <u>4/2/11</u>	SUSPENSE <u>5/26/11</u>	ENGINEER <u>WJ</u>	LOGGED IN <u>4/12/11</u>	TYPE <u>BWD</u>	APP NO. <u>111024</u>	<u>5774</u>
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PT6-W

new note Done

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



COG 229137

Empire STATE SWD #4

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]

29-015-28922
 Eddy
 State

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

RECEIVED OGD
 2011 APR -8 P 1:20

A/g/12/11/6/11

[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.

<u>Mark A. Fairchild</u> Print or Type Name	<u>Mark A. Fairchild</u> Signature	<u>Senior Operations Engineer</u> Title	<u>2/28/2011</u> Date
		<u>MFairchild@Conchoresources.com</u> e-mail Address	

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: _____

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

OPERATOR: **COG Operating, LLC.**

WELL NAME & NUMBER: **Empire State SWD 9 #4** 30-015-389 72

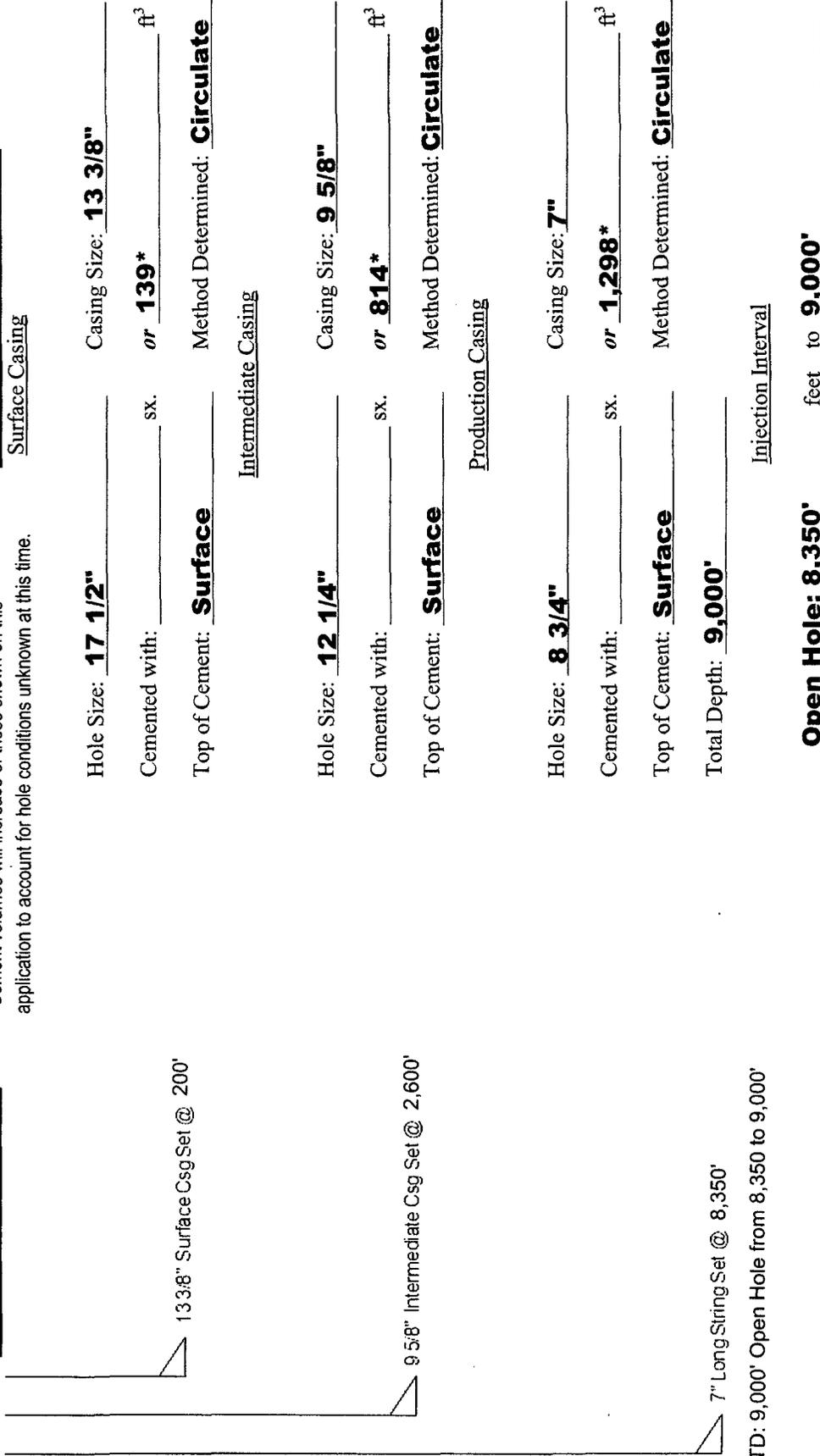
WELL LOCATION: **660 FNL; 540 FEL**

A UNIT LETTER **9** SECTION **17S** TOWNSHIP **29E** RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

*Cement volumes will increase of those shown on this application to account for hole conditions unknown at this time.



Hole Size: **17 1/2"** Casing Size: **13 3/8"**

Cemented with: _____ sx. **or 139*** ft³

Top of Cement: **Surface** Method Determined: **Circulate**

Intermediate Casing

Hole Size: **12 1/4"** Casing Size: **9 5/8"**

Cemented with: _____ sx. **or 814*** ft³

Top of Cement: **Surface** Method Determined: **Circulate**

Production Casing

Hole Size: **8 3/4"** Casing Size: **7"**

Cemented with: _____ sx. **or 1,298*** ft³

Top of Cement: **Surface** Method Determined: **Circulate**

Total Depth: **9,000'**

7" Long String Set @ 8,350'

Injection Interval

Open Hole: 8,350' feet to **9,000'**

(Perforated or Open Hole; indicate which)

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? X 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 @ 2,425 ; Paddock @ 3,915 ; Blinebry @ 4,400 ; Wolfcamp @ 7,190



ATTACHMENT TO APPLICATION C-108

COG Operating Inc.
Empire State SWD 9 #4
Sec. 9, 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 A/R 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 (NMSLO) and to each leasehold operator within a half mile as required.

COG SENM SWD Well Questionnaires

Date: 3/21/11

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

Note: Answers to questions in this color

What will be the well name?

Empire State SWD 9 #4

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 8,900', this interval anticipated to be open hole.

What will be the average daily volume injected?

10-15,000 BWP

What will be the maximum daily volume injected?

20,000 BWP

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

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 STATE SWD "9"				⁶ Well Number 4			
⁷ OGRID No. 229137		⁸ Operator Name COG OPERATING, LLC.				⁹ Elevation 3582.6			
¹⁰ Surface Location									
UL or lot no. A	Section 9	Township 17 S	Range 29 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 540	East/West line EAST	County 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. 9 LAT. = 32°51'22.84"N LONG. = 104°05'18.39"W NMSP EAST (FT) N = 675361.22 E = 616519.55		SURFACE LOCATION 		NE CORNER SEC. 9 LAT. = 32°51'22.98"N LONG. = 104°04'16.42"W NMSP EAST (FT) N = 675387.22 E = 621806.50	
		EMPIRE STATE SWD "9" #4 ELEV. = 3582.6' LAT. = 32°51'16.42"N (NAD83) LONG. = 104°04'22.77"W NMSP - EAST (FT) N = 674723.61 E = 621266.74			
				SE CORNER SEC. 9 LAT. = 32°50'30.71"N LONG. = 104°04'16.40"W NMSP EAST (FT) N = 670103.43 E = 621821.44	
SW CORNER SEC. 9 LAT. = 32°50'30.54"N LONG. = 104°05'18.02"W NMSP EAST (FT) N = 670074.28 E = 616563.26					

¹⁷ OPERATOR CERTIFICATION
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 unleased 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.

Signature _____ Date _____
Printed Name _____

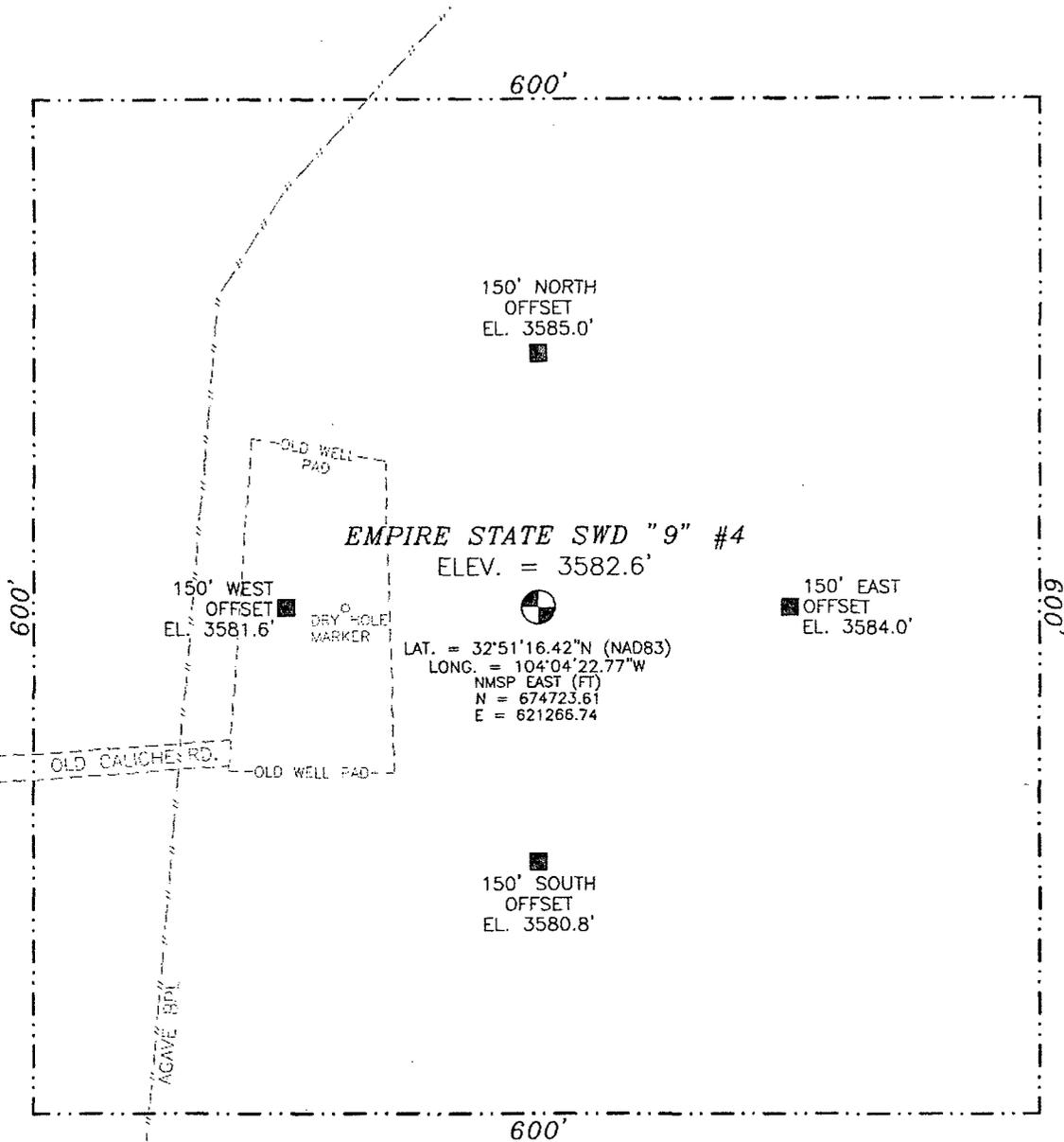
¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

Date of Survey: **OCTOBER 22, 2009**

Signature and Seal of Professional Surveyor:

Certificate Number: **FILMON E. MIRAMILLO, PLS 12797**
SURVEY NO. 295-R1

SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



LAT. = 32°51'16.42"N (NAD83)
 LONG. = 104°04'22.77"W
 NMSP EAST (FT)
 N = 674723.61
 E = 621266.74

0 10 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION
 FROM STATE HWY 82 AND CR 214 (BARNAVILL DRAW) GO NORTH ON
 CR 214 2.4 MILES, LOCATION IS ON RIGHT (EAST) APPROX. 400'

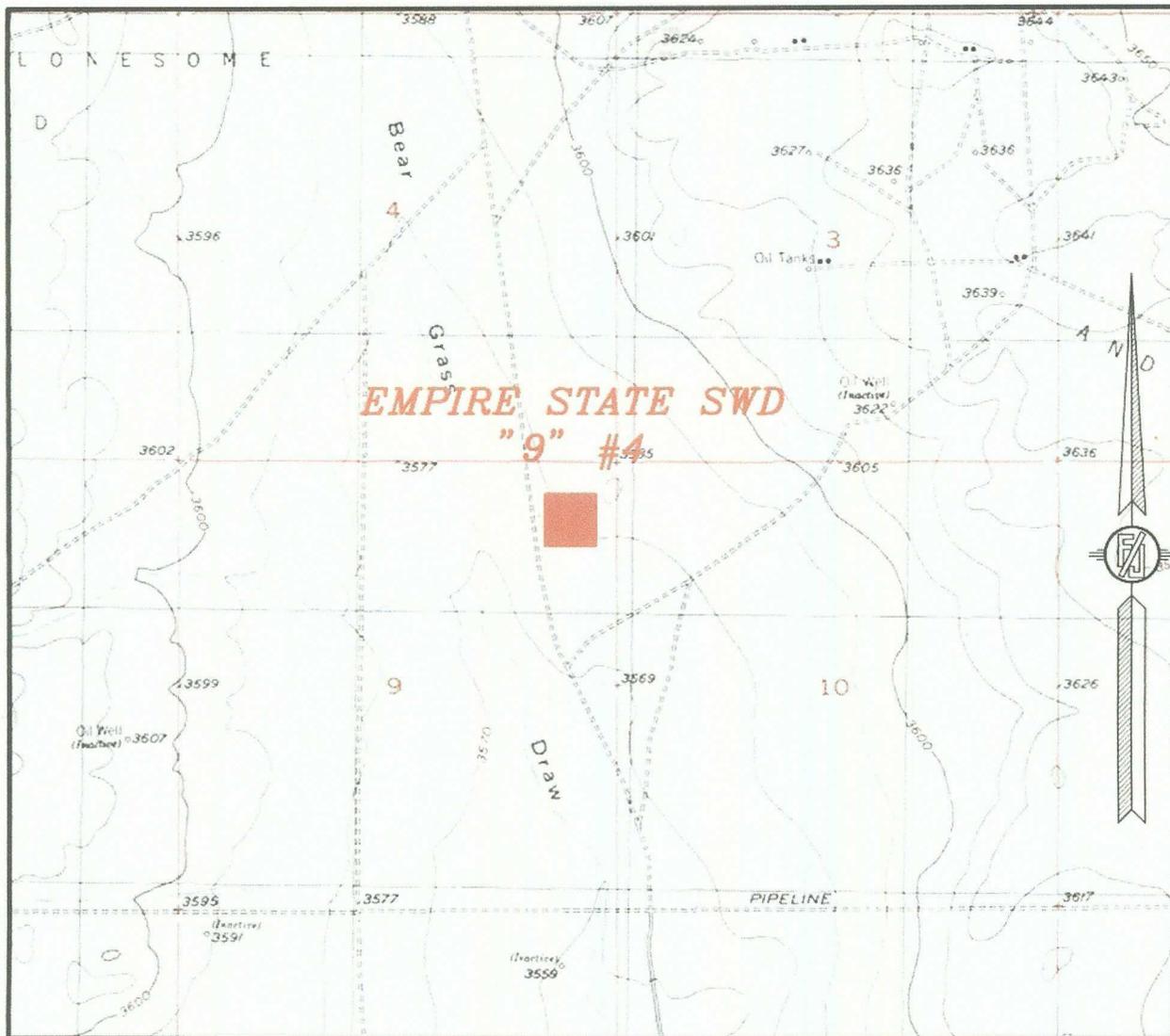
COG OPERATING, LLC
EMPIRE STATE SWD "9" #4
 LOCATED 660 FT. FROM THE NORTH LINE
 AND 540 FT. FROM THE EAST LINE OF
 SECTION 9, TOWNSHIP 17 SOUTH,
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 29, 2010

SURVEY NO. 295 - R1

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

SECTION 9, 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

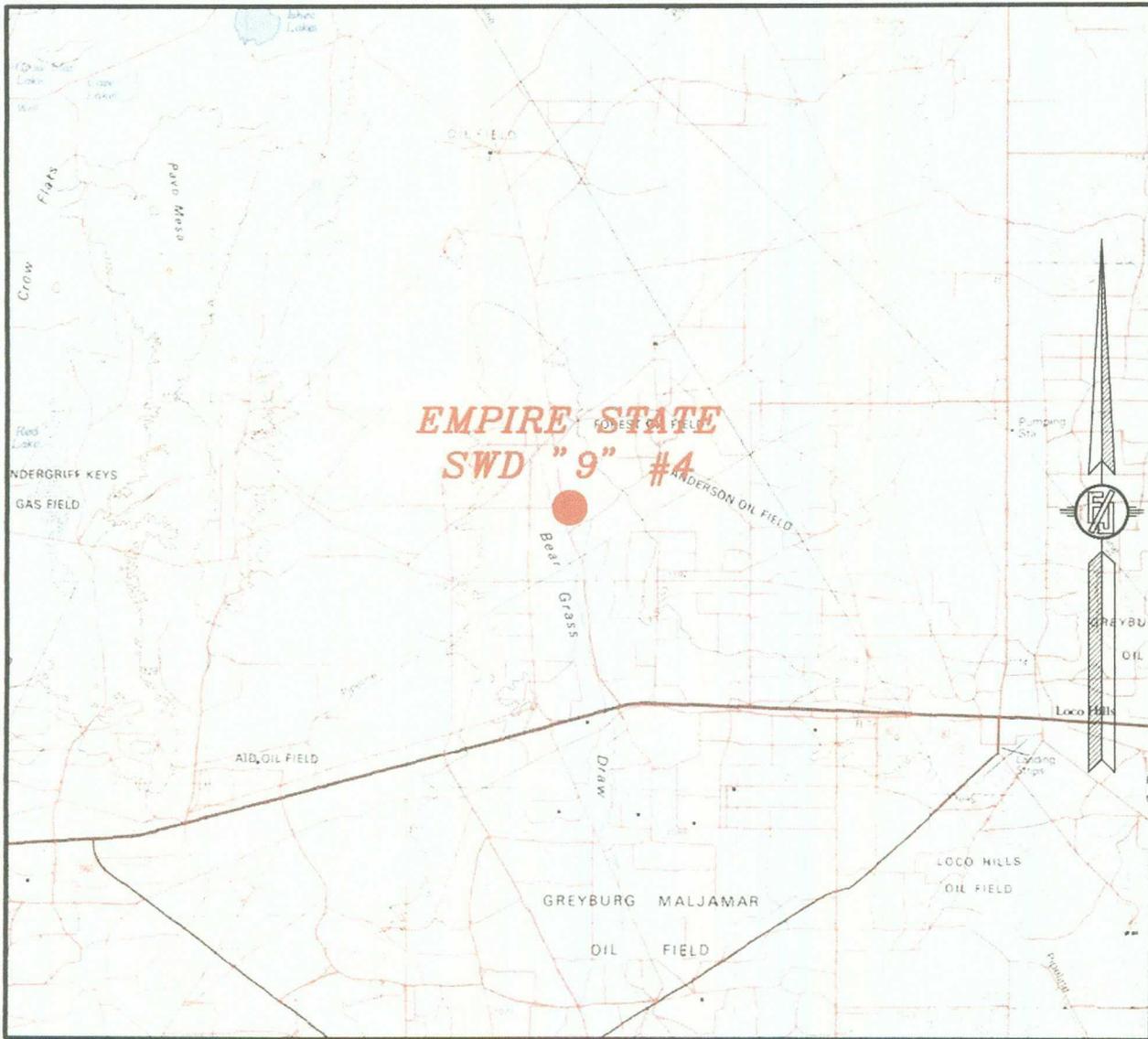
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 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 29, 2010

SURVEY NO. 295 - R1

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 887-5830

SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

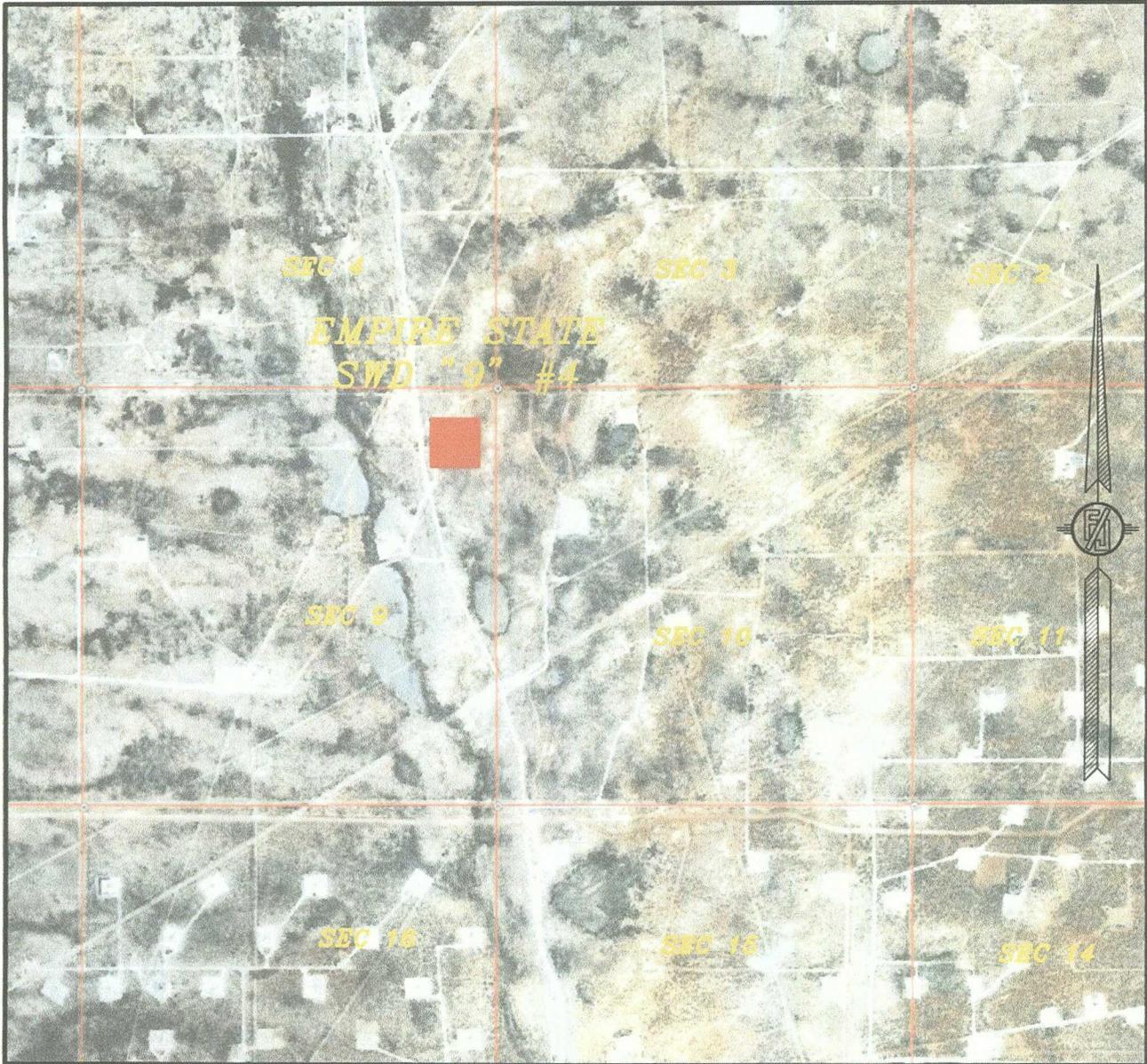
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EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 29, 2010

SURVEY NO. 295 - R1

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 887-5830

SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



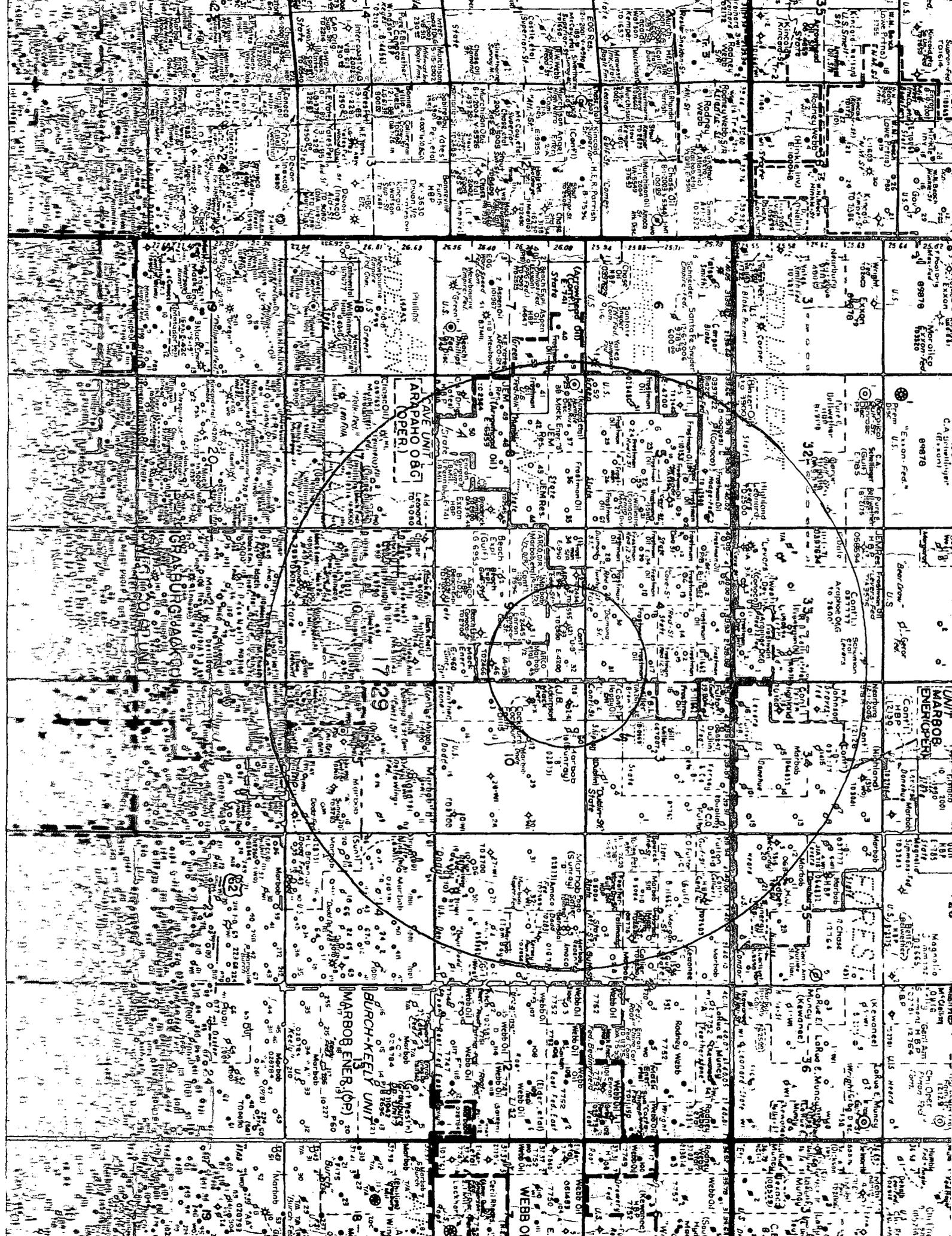
NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG, 2009

COG OPERATING, LLC
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AND 540 FT. FROM THE EAST LINE OF
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RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 29, 2010

SURVEY NO. 295 - R1

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 897-5530



Map showing land ownership details including owner names, acreage, and unit designations. Key units include:

- UNIT 1 (MARBOR ENR) - 100 Acres
- UNIT 2 (MARBOR ENR) - 100 Acres
- UNIT 3 (MARBOR ENR) - 100 Acres
- UNIT 4 (MARBOR ENR) - 100 Acres
- UNIT 5 (MARBOR ENR) - 100 Acres
- UNIT 6 (MARBOR ENR) - 100 Acres
- UNIT 7 (MARBOR ENR) - 100 Acres
- UNIT 8 (MARBOR ENR) - 100 Acres
- UNIT 9 (MARBOR ENR) - 100 Acres
- UNIT 10 (MARBOR ENR) - 100 Acres
- UNIT 11 (MARBOR ENR) - 100 Acres
- UNIT 12 (MARBOR ENR) - 100 Acres
- UNIT 13 (MARBOR ENR) - 100 Acres
- UNIT 14 (MARBOR ENR) - 100 Acres
- UNIT 15 (MARBOR ENR) - 100 Acres
- UNIT 16 (MARBOR ENR) - 100 Acres
- UNIT 17 (MARBOR ENR) - 100 Acres
- UNIT 18 (MARBOR ENR) - 100 Acres
- UNIT 19 (MARBOR ENR) - 100 Acres
- UNIT 20 (MARBOR ENR) - 100 Acres
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- UNIT 45 (MARBOR ENR) - 100 Acres
- UNIT 46 (MARBOR ENR) - 100 Acres
- UNIT 47 (MARBOR ENR) - 100 Acres
- UNIT 48 (MARBOR ENR) - 100 Acres
- UNIT 49 (MARBOR ENR) - 100 Acres
- UNIT 50 (MARBOR ENR) - 100 Acres

Empire State SWD #4

Wells within area of review that penetrate proposed disposal interval:

None

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

API #: 3001502927 **Well_Name:** CAVE POOL UNIT # 032

Location: A-9-17.0S-29E , 660 FNL, 660 FEL **Lat:**32.8546490252 **Long:**-104.07344802

Operator Name: MARKS AND GARNER PRODUCTION LTD CO [Operator and Lessee Info] **County:** Eddy

Land Type: State **Well Type:** Oil **Spud Date:** **Plug Date:**10/17/2003

Elevation GL: 3577 **Depth TVD:**

Pools associated:

API #: 3001502935 **Well_Name:** CAVE POOL UT **Property Number.:** 045

Location: H-9-17.0S-29E , 1980 FNL, 660 FEL **Lat:**32.8510209106 **Long:**-104.073445047

Operator Name: JEM RESOURCES **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 #: 3001502930 **Well_Name:** CAVE POOL UT **Property Number.:** 046

Location: I-9-17.0S-29E , 2310 FSL, 660 FEL **Lat:**32.8482733824 **Long:**-104.073442783

Operator Name: JEM RESOURCES **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 #: 3001530690 **Well_Name:** CONOCO 9 STATE COM **Property Number.:** 001

Location: G-9-17.0S-29E , 1980 FNL, 1350 FEL **Lat:**32.8510201982 **Long:**-104.075702531

Operator Name: EOG RESOURCES INC **County:** Eddy

Land Type: State **Well Type:** Gas **Spud Date:** **Plug Date:**

Elevation GL: 3565 **Depth TVD:** 0

API #: 3001524671 **Well_Name:** CONOCO ST **Property Number.:** 001
Location: J-9-17.0S-29E , 1650 FSL, 1650 FEL **Lat:**32.8464545804 **Long:**-104.076680317
Operator Name: BEACH EXPLORATION INC **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 #: 3001502929 **Well_Name:** STATE "U" **Property Number.:** 009
Location: G-9-17.0S-29E , 1980 FNL, 1980 FEL **Lat:**32.851019457 **Long:**-104.077763712
Operator Name: CONTINENTAL OIL **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 #: 3001502928 **Well_Name:** CAVE POOL UNIT **Property Number.:** 033
Location: B-9-17.0S-29E , 660 FNL, 1980 FEL **Lat:**32.8546475715 **Long:**-104.077766685
Operator Name: JEM RESOURCES **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 #: 3001502933 **Well_Name:** STATE EDDY "33" **Property Number.:** 002
Location: C-9-17.0S-29E , 660 FNL, 1980 FWL **Lat:**32.8546462612 **Long:**-104.081953568
Operator Name: SINCLAIR OIL & GAS COMPANY **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 #: 3001502891 **Well_Name:** CAVE POOL UNIT # 030
Location: O-4-17.0S-29E , 990 FSL, 2310 FEL **Lat:**32.8591823207 **Long:**-104.078846665
Operator Name: MARKS AND GARNER PRODUCTION LTD CO [Operator and Lessee Info] **County:** Eddy
Land Type: State **Well Type:** Oil **Spud Date:** **Plug Date:**
Elevation GL: 3574 **Depth TVD:**
Pools associated:

API #: 3001524759 **Well_Name:** DIAMOND STATE # 001
Location: O-4-17.0S-29E , 330 FSL, 2310 FEL **Lat:**32.857368267 **Long:**-104.078848246
Operator Name: MARKS AND GARNER PRODUCTION LTD CO [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: State **Well Type:** Oil **Spud Date:** **Plug Date:**
Elevation GL: 3576 **Depth TVD:** 2610
Pools associated:

API #: 3001502894 **Well_Name:** CAVE POOL UT **Property Number.:** 031
Location: P-4-17.0S-29E , 660 FSL, 660 FEL **Lat:**32.858277136 **Long:**-104.07344825
Operator Name: JEM RESOURCES **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 #: 3001502893 **Well_Name:** CAVE POOL UNIT # 017
Location: I-4-17.0S-29E , 2310 FSL, 660 FEL **Lat:**32.86281227 **Long:**-104.073444221
Operator Name: MARKS AND GARNER PRODUCTION LTD CO [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: State **Well Type:** Oil **Spud Date:** **Plug Date:**1/17/1998
Elevation GL: **Depth TVD:**
Pools associate

API #: 3001502879 **Well_Name:** BROWN STATE # 001
Location: L-3-17.0S-29E , 2310 FSL, 330 FWL **Lat:**32.8628122745 **Long:**-104.070204699
Operator Name: BILL L MILLER [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: State **Well Type:** Oil **Spud Date:** **Plug Date:**
Elevation GL: **Depth TVD:** 2459
Pools associated:

API #: 3001529214 **Well_Name:** BROWN STATE # 002
Location: L-3-17.0S-29E , 1650 FSL, 990 FWL **Lat:**32.8609968882 **Long:**-104.06804665
Operator Name: BILL L MILLER [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: State **Well Type:** Oil **Spud Date:**7/21/1997 **Plug Date:**
Elevation GL: 3550 **Depth TVD:** 2570
Pools associated:

API #: 3001502874 **Well_Name:** CONOCO STATE # 002
Location: M-3-17.0S-29E , 330 FSL, 660 FWL **Lat:**32.8573694504 **Long:**-104.069129678
Operator Name: ALAMO PERMIAN RESOURCES, LLC [[Operator and Lessee Info](#)] **County:** Eddy
Land Type: State **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 #: 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 #: 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 #: 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



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

No PODs found.

POD Search:

POD Basin: Roswell Artesian

Basin/County Search:

Basin: Roswell Artesian

County: Eddy

PLSS Search:

Section(s): 9

Township: 17S

Range: 29E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

March 25, 2011

Legal Notice
March 23, 2011

COG Operating LLC is applying to drill the Empire State SWD 9 #4 as a water disposal well. The well is located at 660' FNL & 540' FEL Sec. 9, 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 8900' at a maximum rate of 20,000 barrels of water per day and at a maximum pressure of 1,600 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, L.P., P.O. Box 173, Midland, TX; phone number is (432) 349-4729.



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 25 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

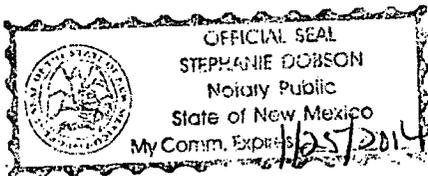
Subscribed and sworn to before me this

28th day of March, 2011

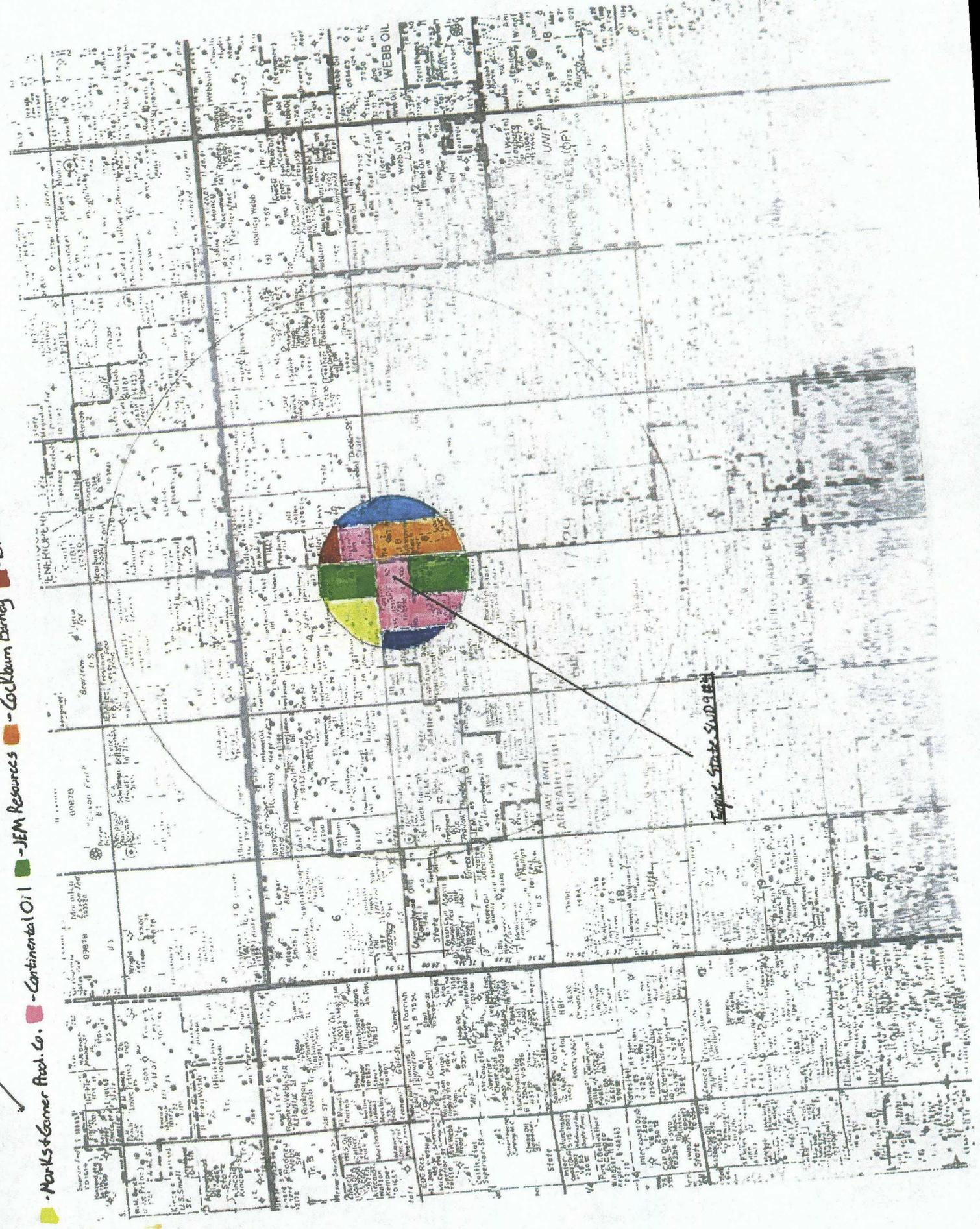
Stephanie Dobson

My commission Expires on 1/25/2014

Notary Public



- ✓  - **Marks & Spencer Prod. Co.**
-  - **Continental Oil**
-  - **JEM Resources**
-  - **Lockburn Barney**
-  - **Bill L. Miller**
-  - **COG**
-  - **Sinclair Oil & Gas Co**



Logan State Survey

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, May 09, 2011 3:33 PM
To: 'Mark Fairchild'
Cc: Tye Orr
Subject: Empire State SWD 9 #4 SWD Application

Mark,

I know you are in a hurry so and just reviewed this application and passing on some feedback. This application looks fine compared with the Empire State SWD "8" #1 - no wells in the AOR with cement top issues.

Based on your colored AOR map for this well and comparing to the application we received, it does seem lacking notice to the following:

- a. Conoco
- b. JEM Resources
- c. Cockburn Barney
- d. Sinclair Oil & Gas Co. or successor

Thank You,

Will Jones

Jones, William V., EMNRD

From: Tye Orr [tyeorr@yahoo.com]
Sent: Wednesday, May 11, 2011 1:58 PM
To: Jones, William V., EMNRD
Subject: Re: Empire State SWD 9 #4 SWD Application
Attachments: JEM Notice Receipt.jpeg; Sinclair Notice Receipt.jpeg; Cockburn Notice Receipt.jpeg; CococoNotice Receipt.jpeg; Continental Notice Receipt.jpeg

Will,

In regards to your email below, attached are copies of the proof of notice to the remaining parties you have listed for the subject SWD. This should complete everything for the application. Please let me know if you have any questions. Thanks.

Tye Orr

--- On **Mon, 5/9/11**, Jones, William V., EMNRD <William.V.Jones@state.nm.us> wrote:

From: Jones, William V., EMNRD <William.V.Jones@state.nm.us>
Subject: Empire State SWD 9 #4 SWD Application
To: "Mark Fairchild" <MFairchild@conchoresources.com>
Cc: "Tye Orr" <tyeorr@yahoo.com>
Date: Monday, May 9, 2011, 4:32 PM

Mark,

I know you are in a hurry so and just reviewed this application and passing on some feedback.

This application looks fine compared with the Empire State SWD "8" #1 – no wells in the AOR with cement top issues.

Based on your colored AOR map for this well and comparing to the application we received, it does seem lacking notice to the following:

- a. Conoco
- b. JEM Resources
- c. Cockburn Barney
- d. Sinclair Oil & Gas Co. or successor

Thank You,



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.

Well: Empire State SWD 9 #4

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')

Location: 660' FNL & 540' FEL Sec 9, 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

7010 1870 0001 6470 1539

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SEND TO: *Cockburn Barney*
Street, Apt. No. or P.O. Box No.: *P.O. Box 105*
City, State, ZIP+4: *Artesia, NM 88210*

MIDLAND TX VILLAGE ST 79704
MAY 10 2011
USPS

PS Form 3800, August 2005 See Reverse for Instructions



April 3, 2011

ConocoPhillips Co.
3401 E. 30th St.
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.

Well: Empire State SWD 9 #4

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')

Location: 660' FNL & 540' FEL Sec 9, 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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Total Postage & Fees	\$

MIDLAND TX 79701
Postmark Here

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 2008 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 State SWD 9 #4

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')

Location: 660' FNL & 540' FEL Sec 9, 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
Hans

MIDLAND TX VILLAGE STA 79704 USPS
MAY 10 2011

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.

Well: Empire State SWD 9 #4
Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')
Location: 660' FNL & 540' FEL Sec 9, 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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Sent To JEM Resources
Street, Apt. No.,
or PO Box No. Box 648
City, State, ZIP+4 Artesia, NM 88210

PS Form 3800, August 2006 See Reverse for Instructions



April 3, 2011

Sinclair Oil & Gas
520 E. Broadway
Hobbs, NM 88240

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 State SWD 9 #4

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')

Location: 660' FNL & 540' FEL Sec 9, 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

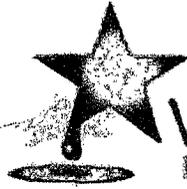
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MIDLAND TX VILLAGE STA 79704
MAY 0 2011
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Hora
USPS

Sent To	Sinclair Oil Gas
Street, Apt. No., or PO Box No.	520 E. Broadway
City, State, ZIP+4	Hobbs, NM 88240

PS Form 3800, August 2005 See Reverse for Instructions



VERITAS 321
ENERGY PARTNERS LP

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 State SWD 9 #4

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')

Location: 660' FNL & 540' FEL Sec 9, 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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MIDLAND TX VILLAGE STA TX 79701
Postmark: APR 3 2011

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

T 212 299E EDNN NR52 JNN1



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.

Well: Empire State SWD 9 #4
Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')
Location: 660' FNL & 540' FEL Sec 9, 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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Sent To: Bill L. Miller	
Street, Apt. No., or PO Box No.: P.O. Box 3396	
City, State, ZIP+4: Evergreen, CO 80437	





April 3, 2011

EOG Resources, Inc.
 P.O. Box 2267
 Midland, TX 79702

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 State SWD 9 #4
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Location: 660' FNL & 540' FEL Sec 9, 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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Street, Apt. No., or PO Box No. <u>P.O. Box 2267</u>	
City, State, ZIP+4 <u>Midland, TX 79702</u>	



April 3, 2011

New Mexico State Land Office
 310 Old Santa Fe Trail
 Santa Fe, NM 87504

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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Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')
Location: 660' FNL & 540' FEL Sec 9, 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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Injection Permit Checklist (11/15/2010)

WFX PMX SWD 1281 Permit Date 5/28/11 UIC Qtr (A/M/J)

Wells 1 Well Name(s): EMPIRE STATE SWD 9 #4

API Num: 30-0 15-38972 Spud Date: NEW New/Old: N (UIC primacy March 7, 1982)

Footages 660FNL/540FEL Unit A Sec 9 Tsp 17S Rge 29E County EDDY

General Location:

Operator: COG Obedy, LLC Contact Mark A. FAIRCHILD

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

Well File Reviewed Current Status: New

Planned Work to Well: Drill, Inject

Diagrams: Before Conversion After Conversion Elogs in Imaging File: Will LOG and/or Test

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Surface	<u>17 1/2 13 3/8</u>	<u>200</u>		<u>—</u>	<u>CIRC</u>
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Interm	<u>12 1/4 9 5/8</u>	<u>2500</u>		<u>—</u>	<u>CIRC</u>
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> LongSt	<u>8 3/4 7</u>	<u>8350</u>		<u>—</u>	<u>CIRC</u>
New <input type="checkbox"/> Existing <input type="checkbox"/> Liner					
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> OpenHole		<u>8350-9000'</u>			

Depths/Formations: Depths, Ft. Formation Tops?

Depths, Ft.	Formation	Tops?
Formation(s) Above		
Injection TOP: <u>8350</u>	<u>C150 Reef</u>	Max. PSI <u>1670</u> OpenHole <input checked="" type="checkbox"/> Perfs <input type="checkbox"/>
Injection BOTTOM: <u>9000</u>	<u>C50 Reef</u>	Jubing Size <u>3 1/2</u> Packer Depth <input type="checkbox"/>
Formation(s) Below		

8350/9000

Capitan Reef? (Potash? Noticed?) [WIPR? Noticed?] Salado Top/Bot Cliff House?

Fresh Water: Depths: Formation Wells? None Analysis? Affirmative Statement

Disposal Fluid Analysis? Sources: Yard, etc

Disposal Interval: Analysis? Production Potential/Testing:

Notice: Newspaper Date 3/25/11 Surface Owner SLD Mineral Owner(s) more

RULE 26.7(A) Affected Persons: ALAMO / BIL MILLER / EDG / Mark Gonal

AOR: Maps? Well List? Producing in Interval? No Wellbore Diagrams?

.....Active Wells Repairs? Which Wells?

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

Issues: Will SWAB Test / water Analysis Request Sent Reply: