

## Ezeanyim, Richard, EMNRD

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**From:** David Catanach <drcatanach@netscape.com>  
**Sent:** Monday, June 17, 2013 7:17 AM  
**To:** Ezeanyim, Richard, EMNRD  
**Subject:** Re: Geronimo 28 State SWD Well No. 2

Richard,

As per the wellbore diagram attached to the application, ~~the Geronimo 28 State SWD Well No. 2 has been drilled to a total depth of 9,500~~, and the surface, intermediate and production casing strings have been set and cemented in the well as shown on the diagram.

The AOR for the present application is the same as the AOR I presented in the previous application to amend SWD-1378. The only difference is that because of the change in the depth of the injection interval, there are now three wells that penetrate the injection interval, where there were no wells in the previous application that penetrated the injection interval.

If you have any other questions, please advise.

Thank you and Have a Nice Day.

David

--- [richard.ezeanyim@state.nm.us](mailto:richard.ezeanyim@state.nm.us) wrote:

From: "Ezeanyim, Richard, EMNRD" <[richard.ezeanyim@state.nm.us](mailto:richard.ezeanyim@state.nm.us)>  
To: "drcatanach@netscape.com" <[drcatanach@netscape.com](mailto:drcatanach@netscape.com)>  
Subject: Geronimo 28 State SWD Well No. 2  
Date: Fri, 14 Jun 2013 20:50:50 +0000

Please let me know if this well has already been drilled, and if so, to what depth. Second, please reconcile the updated AOR wells for SWD-1378-A amended order with the current application. One would expect the AOR wells to be the same since the surface location of 2135 feet FSL, and 690 feet FEL of the well is the same for both applications. Thank you.

Richard

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ABOVE THIS LINE FOR DIVISION USE ONLY

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



Apache Corp  
 Geronimo 28 state  
 SWD No. 2

**ADMINISTRATIVE APPLICATION CHECKLIST** 30-015-40876

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

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

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

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

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD \* ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \* Application to Amend Order No. SWD-1378-A

[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

Change to  
 injection interval

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

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

David Catanach  
 Print or Type Name

David Catanach  
 Signature

Agent-Apache Corporation  
 Title

5/22/13  
 Date

drcatanach@netscape.com  
 E-Mail Address

May 22, 2013

Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Attention: Ms. Jami Bailey, CPG  
Division Director

Re: Form C-108 – Application to Amend Order No. SWD-1378-A  
Apache Corporation  
Geronimo 28 State SWD No. 2  
API No. (30-015-40876)  
2135' FSL & 690' FEL, Unit I  
Section 28, T-17S, R-28E, NMPM,  
Eddy County, New Mexico

Dear Ms. Bailey,

By Order No. SWD-1378-A dated March 17, 2013 Apache Corporation ("Apache") was authorized to complete its Geronimo 28 State SWD No. 2 as a produced water disposal well, injection to occur from the Devonian formation through the base of the Ellenburger formation through perforations from approximately 11,404 feet to 12,500 feet. 7

After testing the injectivity of the Devonian and Ellenburger formations in an offset disposal well, Apache has elected to complete the Geronimo 28 State SWD No. 2 as a produced water disposal well in the Wolfcamp/Cisco interval through perforations from approximately 7,176 feet to 9,150 feet. Consequently, Apache is seeking approval to amend Order No. SWD-1378-A to authorize injection into the Wolfcamp/Cisco interval in the subject well.

The application to amend Order No. SWD-1378-A includes:

1. Form C-108;
2. Injection well data sheet and wellbore schematic diagram showing all well construction and completion details;
3. Injection Interval Geologic Data
4. Updated Area of Review "AOR" well table. As per the original Devonian completion, no AOR wells penetrated the injection interval. As per the new Wolfcamp/Cisco completion, there are three AOR wells that penetrate the injection interval. Well construction data for these wells is shown. The data shows that these wells are constructed so as to preclude the migration of fluid from the proposed injection interval;
5. Affirmative Statement;
6. Offset operator/leasehold owner/surface owner notification letter;
7. AOR notice map showing all numbered offset tracts;

8. Updated leasehold owner/operator list. As a result of the change in the injection interval depth, the lease ownership of Tract No. 12 changed from the original application, as shown on the updated leasehold owner list. All leasehold owners and all operators of wells that penetrate the injection interval within a ½ mile radius of the Geronimo 28 State SWD No. 2 are being provided notice of this application;

9. Publication Notice. The affidavit of publication will be provided to the OCD upon receipt by Apache from the Artesia Daily News; and

10. Copy of Order No. SWD-1378-A.

All other aspects with regards to the proposed disposal operation will be conducted in accordance with the original C-108 application.

I believe that all the information necessary to amend Order No. SWD-1378-A is enclosed. If additional information is needed, please contact me at (505) 690-9453.

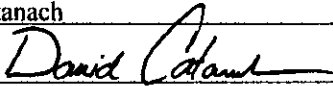
Sincerely,



David Catanach-Agent  
Apache Corporation  
303 Veterans Airpark Lane, Suite 3000  
Midland, Texas 79705

Xc: OCD-Artesia

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Apache Corporation (OGRID-873)  
ADDRESS: 303 Veterans Airpark Lane, Suite 3000 Midland, Texas 79705  
CONTACT PARTY: David Catanach-Agent PHONE: (505) 690-9453
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No \*  
If yes, give the Division order number authorizing the project: Application is to amend Order No. SWD-1378-A
- 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: David Catanach TITLE: Agent-Apache Corporation  
SIGNATURE:  DATE: 5/22/13  
E-MAIL ADDRESS: drcatanach@netscape.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.**

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**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: Apache Corporation

WELL NAME & NUMBER: Geronimo 28 State SWD No. 2 (API No. 30-015-40876)

WELL LOCATION: 2135' FSL & 690' FEL      I      28      17 South      28 East  
FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

### WELLBORE SCHEMATIC

*See Attached Wellbore Schematic*

### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 17 1/2"      Casing Size: 13 3/8" @ 488'

Cemented with: 950 Sx.      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surface      Method Determined: Circulated ✓

#### Intermediate Casing

Hole Size: 12 1/4"      Casing Size: 9 5/8" @ 4,500'

Cemented with: 1570 Sx.      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surface      Method Determined: Circulated ✓

#### Production Casing

Hole Size: 8 3/4"      Casing Size: 7" @ 9,500'

1<sup>st</sup> Stage-770 sx.      DV Tool @ 6,720'

Cement with: 2<sup>nd</sup> Stage-470 sx.      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 3,000'      Method Determined: Calculated

Total Depth: 9,500'      PBTD: 9,450'

#### Injection Interval

Perforated Interval -7,176'-9,150' (Proposed)

# INJECTION WELL DATA SHEET

Tubing Size: 4 1/2"

Lining Material: Duo Lined (Extruded Thermoplastic)

Type of Packer: Model A Lockset Injection Packer

Packer Setting Depth: 7,076' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

### 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: Wolfcamp/Cisco

3. Name of Field or Pool (if applicable): N/A

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.

None

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

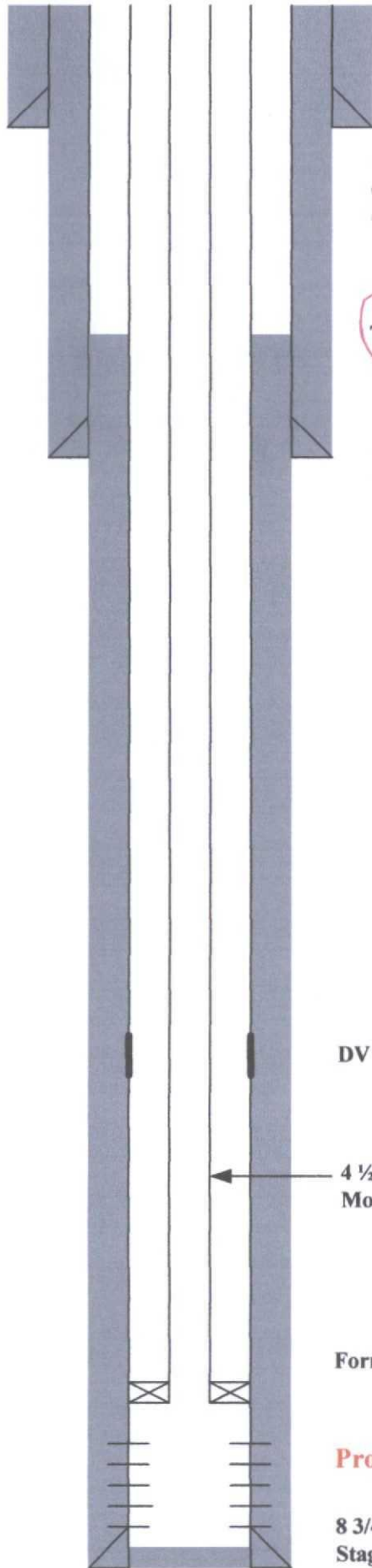
East Empire Yates-Seven Rivers Pool (2,050'); Red Lake Queen-Grayburg-San Andres Pool (3,700'); Artesia Glorieta-

Yeso Pool (4,200'); Empire-Abo Pool (6,200'); Empire-Penn Gas Pool (10,600');



## Proposed Wellbore Configuration

Apache Corporation  
Geronimo 28 State SWD No. 2  
API No. 30-015-40876  
2135' FSL & 690' FEL (Unit I)  
Section 28, T-17 South, R-28 East, NMPM



17 1/2" Hole; Set 13 3/8" 48# H-40 Csg @ 488'  
Cemented w/950 Sx.  
Cement circulated to surface.

TOC @ 3,000'

12 1/4" Hole; Set 9 5/8" 40# J-55 Csg @ 4,500'  
Cemented w/1570 Sx.  
Cement circulated to surface.

DV Tool @ 6,720'

4 1/2" Duo-Lined Injection Tubing set in a  
Model A Lockset Packer @ 7,076'

Formation Tops: Wolfcamp: 7,130'  
Cisco: 8,449'

Proposed Wolfcamp/Cisco Perforations: 7,176'-9,150' (Selected Intervals)

8 3/4" Hole; Set 7" 26# HCL-80 Csg. @ 9,500'  
Stage Cement: 1<sup>st</sup>-770 Sx. 2<sup>nd</sup>-470 Sx. DV Tool @ 6,720'  
TOC @ 3,000'

PBTD: 9,450'  
TD: 9,500'

Form C-108  
Application to Amend Order No. SWD-1378-A  
Apache Corporation  
Geronimo 28 State SWD No. 2  
Section 28, T-17 South, R-28 East, NMPM,  
Eddy County, New Mexico  
**Geologic Data**

**Wolfcamp Formation:**

Depth: 7,130'  
Thickness: 1,319'  
Lithology: Interbedded Limestones & Dolomites with some Shales & Chert  
Perforated Interval: 7,176'-8,448' (Approximately)

**Cisco Formation:**


Depth: 8,449'  
Thickness: 1009'  
Lithology: Interbedded Limestone & Shales  
Perforated Interval: 8,450'-9,150' (Approximately)

**APACHE CORPORATION**  
**FORM C-108: APPLICATION TO AMEND ORDER NO. SWD-1378-A**  
**GERONIMO 28 STATE SWD NO. 2 – UPDATED AOR WELL LISTING**

[illegible]

Form C-108:  
Application to Amend Order No. SWD-1378-A  
Affirmative Statement  
Apache Corporation  
Geronimo 28 State SWD No. 2  
Section 28, T-17 South, R-28 East, NMPM,  
Eddy County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

  
\_\_\_\_\_  
David Catanach  
Agent for Apache Corporation

5/22/13  
\_\_\_\_\_  
Date

May 22, 2013

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

TO: OFFSET LEASEHOLD OWNERS/OPERATORS/SURFACE OWNER

Re: Apache Corporation  
Form C-108: Application to Amend Order No. SWD-1378-A  
Geronimo 28 State SWD No. 2  
API No. 30-015-40876  
2135' FSL & 690' FEL, Unit I, Section 28, T-17S, R-28E, NMPM,  
Eddy County, New Mexico

Ladies & Gentlemen:

By Order No. SWD-1378-A dated March 17, 2013 Apache Corporation ("Apache") was authorized to utilize its Geronimo 28 State SWD No. 2 as a produced water disposal well, injection to occur into the Devonian formation through the base of the Ellenburger formation through perforations from 11,404 feet to 12,500 feet.

Apache has elected to change its plans and now proposes to complete the well as a produced water disposal well in the Wolfcamp/Cisco interval. Injection will occur into the perforated interval from approximately 7,176 feet to 9,150 feet.

Attached is a C-108 application being filed by Apache to Amend Order No. SWD-1378-A to authorize injection into the Wolfcamp/Cisco interval within the subject well. You are being provided a copy of the application as an offset leaseholder, offset operator or the surface owner of the land on which the well is located.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (505) 690-9453.

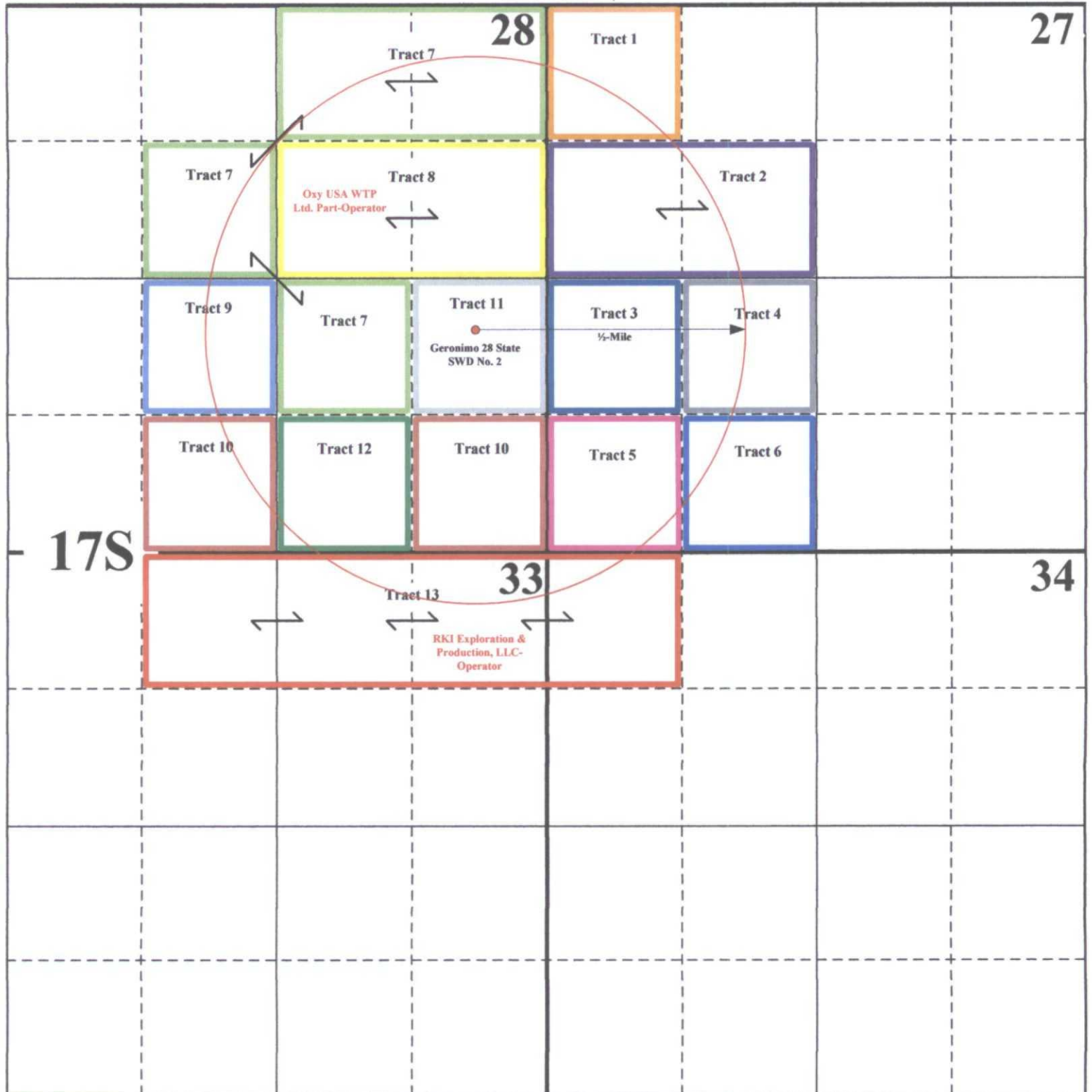
Sincerely,



David Catanach-Agent  
Apache Corporation  
303 Veterans Airpark Lane, Suite 3000  
Midland, Texas 79705

Enclosure

28E



**Apache Corporation**  
**Form C-108: Application to Amend SWD-1378-A**  
**Geronimo 28 State SWD No. 2**  
**Offset Leasehold Owner Tract Identification**

**Apache Corporation**  
**Form C-108: Application to Amend SWD-1378-A**  
**Geronimo 28 State SWD No. 2**  
**Section 28, T-17 South, R-28 East, NMPM**  
**Eddy County, New Mexico**

**Offset Leasehold Owner Notification List (See Attached Map)**

**Tracts No. 1, 7 & 8**

Leasehold Owners (All Depths below 3,500' **Less & Except** the Morrow Formation):

ConocoPhillips Company P.O. Box 7500 Bartlesville, Oklahoma 74005	RSE Partners I L.P. 3141 Hood Street, #350 Dallas, Texas 75219	Khody Land & Minerals Co. 210 Park Avenue, Suite 900 Oklahoma City, Oklahoma 73102
Marathon Oil Company P.O. Box 552 Midland, Texas 79702	Yates Petroleum Corporation 105 S. Fourth Street Artesia, New Mexico 88210	John A Yates, MSU 207 S. Fourth Street Artesia, New Mexico 88210
Trust Q U/W/O Peggy A. Yates, deceased 207 South 4 <sup>th</sup> Street Artesia, NM 88210	Sharbro Energy, LLC P.O. Box 840 Artesia, New Mexico 88211-0840	Yates Industries, LLC P.O. Box 1091 Artesia, New Mexico 88211-1091
Spiral, Inc. P.O. Box 1933 Roswell, New Mexico 88202-1933	Santo Legado, LLP P.O. Box 1020 Artesia, New Mexico 88211-1020	Tulipan, LLC P.O. Box 1020 Artesia, New Mexico 88211-1020
Marigold, LLLP P.O. Box 1290 Artesia, NM 88211-1290		

**Tract No. 2**

Leasehold Owner (All depths below 4,000'):

OXY USA WTP, Ltd. Partnership  
P.O. Box 50250  
Midland, TX 79710

**Tract No. 3**

Leasehold Owner (All depths below the base of the Abo Formation):

Khody Land & Minerals Company  
210 Park Avenue, Suite 900  
Oklahoma City, Oklahoma 73102

**Apache Corporation**  
**Form C-108: Application to Amend SWD-1378-A**  
**Geronimo 28 State SWD No. 2**  
**Section 28, T-17 South, R-28 East, NMPM**  
**Eddy County, New Mexico**

**Offset Leasehold Owner Notification List (Page 2)**

**Tract No. 4**

Leasehold Owner: (All depths)

Yates Petroleum Corporation 105 S. Fourth Street Artesia, New Mexico 88210	John A Yates, MSU 207 S. Fourth Street Artesia, New Mexico 88210	Marigold, LLLP P.O. Box 1290 Artesia, New Mexico 88211-1290
Trust Q U/W/O Peggy A. Yates, deceased 207 South 4 <sup>th</sup> Street Artesia, NM 88210	Sharbro Energy, LLC P.O. Box 840 Artesia, New Mexico 88211-0840	Yates Industries, LLC P.O. Box 1091 Artesia, New Mexico 88211-1091
Spiral, Inc. P.O. Box 1933 Roswell, NM 88202-1933	Santo Legado, LLP P.O. Box 1020 Artesia, New Mexico 88211-1020	Tulipan, LLC P.O. Box 1020 Artesia, New Mexico 88211-1020

**Tract No. 5**

Leasehold Owners (All depths below the base of the Abo Formation):

COG Operating, LLC 600 W. Illinois Ave. One Concho Center Midland, Texas 79701	Concho Oil & Gas Company 600 W. Illinois Ave. One Concho Center Midland, Texas 79701
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**Tracts No. 6 & 9**

Leasehold Owner (All depths below the base of the Yeso Formation):

ConocoPhillips Company P.O. Box 7500 Bartlesville, Oklahoma 74005	Chisos Ltd. 670 Donna Ana Road Deming, New Mexico 88030	Roca Exploration, Ltd. P.O. Box 1981 Midland, Texas 79702
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**Tract No. 10**

Leasehold Owners: (All depths):

ConocoPhillips Company P.O. Box 7500 Bartlesville, Oklahoma 74005	Chisos Ltd. 670 Donna Ana Road Deming, New Mexico 88030	Roca Exploration, Ltd. P.O. Box 1981 Midland, Texas 79702
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**Apache Corporation**  
**Form C-108: Application to Amend SWD-1378-A**  
**Geronimo 28 State SWD No. 2**  
**Section 28, T-17 South, R-28 East, NMPM**  
**Eddy County, New Mexico**

**Offset Leasehold Owner Notification List (Page 3)**

**Tract No. 11**

Leasehold Owners (All depths below 3,500’):

Oxy USA WTP, Ltd. Partnership	McCombs Energy, LLC
P.O. Box 50250	5599 San Felipe, Suite 1200
Midland, Texas 79710	Houston, Texas 77056-2794

**Tract No. 12**

Leasehold Owners (From the Base of the Abo formation to 10,438’):

Yates Petroleum Corporation	Khody Land & Minerals Company	COG Operating, LLC
105 S. Fourth Street	210 Park Avenue, Suite 900	Concho Oil & Gas, LLC
Artesia, New Mexico 88210	Oklahoma City, Oklahoma 73102	600 W. Illinois Ave.,
		One Concho Center
		Midland, Texas 79701

**Tract No. 13**

Leasehold Owners (All depths):

ZPZ Delaware I, LLC  
(Wholly owned subsidiary of  
Apache Corporation)

**Surface Owner**

Commissioner of Public Lands  
P.O. Box 1148  
Santa Fe, New Mexico 87504-1148

**Additional Notice**

Oil Conservation Division  
811 S. First Street  
Artesia, New Mexico 88210

**Apache Corporation**  
**Form C-108: Application to Amend SWD-1378-A**  
**Geronimo 28 State SWD No. 2**  
**Section 28, T-17 South, R-28 East, NMPM**  
**Eddy County, New Mexico**

**Offset Operators: (Wells That Penetrate Injection Interval)(Page 4)**

**Tract 8/Unit G, Section 28, T-17S, R-28E**

OXY USA WTP, Ltd. Partnership  
P.O. Box 50250  
Midland, TX 79710

**Tract 13/Unit A, Section 33, T-17S, R-28E**

RKI Exploration & Production, LLC  
3817 NW Expressway  
Suite 950  
Oklahoma City, Oklahoma 73112

Form C-108: Application to Amend SWD-1378-A  
Apache Corporation  
Geronimo 28 State SWD No. 2  
Section 28, T-17 South, R-28 East, NMPM,  
Eddy County, New Mexico

The following-described legal notice will be published May 23, 2013 in the:

Artesia Daily Press  
503 W. Main Street  
Artesia, New Mexico 88210-2067

The Affidavit of Publication will be forwarded to the Division upon receipt by Apache Corporation.

**Apache Corporation, 303 Veterans Airpark Lane, Suite 3000, Midland, Texas 79705 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking to amend Division Order No. SWD-1378-A, which order authorized Apache to utilize its Geronimo 28 State SWD No. 2 (API No. 30-015-40876) located 2135 feet from the South line and 690 feet from the East line (Unit I) of Section 28, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico, as a produced water disposal well, injection authorized into the Devonian/Ellenberger formations through the perforated interval from 11,404 feet to 12,500 feet. Apache has elected to change its plans regarding the proposed injection zone and now seeks authorization to complete the well as a produced water disposal well in the Wolfcamp/Cisco interval through perforations from approximately 7,176 feet to 9,150 feet.**

**Produced water from the Glorieta & Yeso formations originating from Apache Corporation operated wells in this area will be injected into the Geronimo 28 State SWD No. 2 at average and maximum rates of 4,000 and 15,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 1,435 psi., which is in compliance with Division regulations. The maximum surface injection pressure will be determined by step rate injection test.**

**Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.**

**Additional information can be obtained by contacting Mr. David Catanach Agent-Apache Corporation at (505) 690-9453.**

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Susana Martinez**  
Governor

**John Bemis**  
Cabinet Secretary

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

**Jami Bailey**  
Division Director  
Oil Conservation Division



Administrative Order SWD-1378-A  
March 17, 2013

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of 19.15.26.8B NMAC, Apache Corp. seeks an administrative order to utilize its proposed Geronimo 28 State SWD Well No. 2 (API 30-015-40876) to be located 2135 feet from the South line and 690 feet from the East line, Unit letter I of Section 28, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico, for produced water disposal purposes.

**THE DIVISION DIRECTOR FINDS THAT:**

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

**IT IS THEREFORE ORDERED THAT:**

The applicant, Apache Corp., is hereby authorized to utilize its proposed Geronimo 28 State SWD Well No. 2 (API 30-015-40876) to be located 2135 feet from the South line and 690 feet from the East line, Unit letter I of Section 28, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico, for disposal of oil field produced water (UIC Class II only) into formations from the Devonian through the base of the Ellenburger through perforations from approximately 11404 feet to 12500 feet through internally coated tubing and a packer set within 100 feet of the permitted interval.

The operator shall supply the Division with a copy of a mudlog over the permitted disposal interval. If significant hydrocarbon shows occur while drilling, the operator shall receive permission in writing from the Division prior to commencing disposal.

**IT IS FURTHER ORDERED THAT:**

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

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and

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

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

The wellhead injection pressure on the well shall be limited to **no more than 2281 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

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

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

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

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

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

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

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

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



JAMI BAILEY  
Director

JB/wvjj

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

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