



5.9.12	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
		WVJ	5.9.12	SWD	1213049787

PTGW  
1213049787

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

Apache  
Apache State SWD #1  
30-015-38977

ABOVE THIS LINE FOR DIVISION USE ONLY

**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Application Acronyms:**

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

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

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

Apache Corporation's  
Apache State SWD #1  
30-015-38977  
Devonian & Ellenburger

Check One Only for [B] or [C]

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

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

- [D] Other: Specify \_\_\_\_\_

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or \_ Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

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

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

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

Print or Type Name  
BRIAN WOOD  
(505) 466-8120  
FAX 466-9682

Signature

Title  
CONSULTANT

Date  
5-8-12  
e-mail Address  
brian@permitswest.com

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance XXX Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No

II. OPERATOR: APACHE CORPORATION

ADDRESS: 303 VETERANS AIR PARK LANE, SUITE 3000, MIDLAND, TX 79705

CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120

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 XXX 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:

**APACHE STATE SWD #1**  
**30-015-38977**  
**Devonian & Ellenburger**

- Proposed average and maximum daily rate and volume of fluids to be injected;
- Whether the system is open or closed;
- Proposed average and maximum injection pressure;
- Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
- If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

\*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

\*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

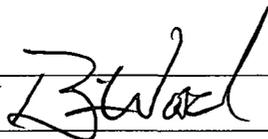
\*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: BRIAN WOOD TITLE: CONSULTANT

SIGNATURE:  DATE: MAY 7, 2012

E-MAIL ADDRESS: brian@permitswest.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

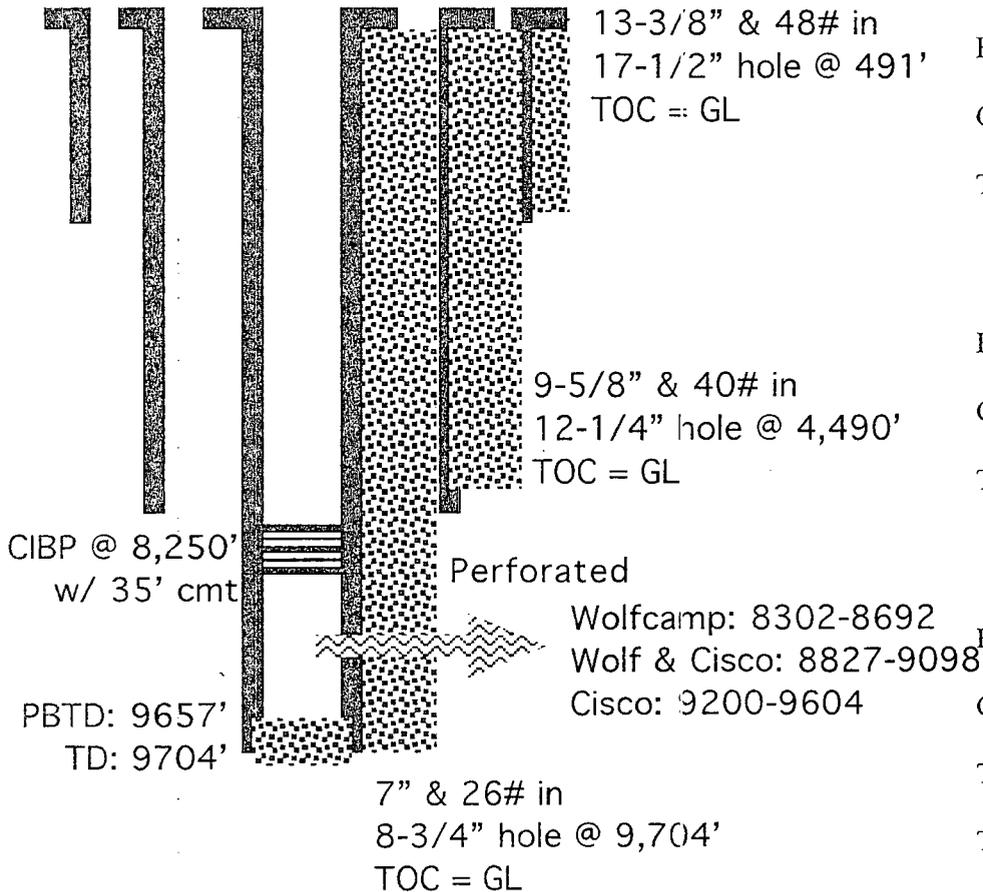
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: APACHE STATE SWD #1

WELL LOCATION: 660 FNL & 1980 FEL                      B                      36                      17 S                      30 E  
 FOOTAGE LOCATION                      UNIT LETTER                      SECTION                      TOWNSHIP                      RANGE

WELLBORE SCHEMATIC

"As Is"



(not to scale)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2"                      Casing Size: 13-3/8"  
 Cemented with: 520 sx.                      or 686 ft<sup>3</sup>  
 Top of Cement: SURFACE                      Method Determined: VISUAL

Intermediate Casing

Hole Size: 12-1/4"                      Casing Size: 9-5/8"  
 Cemented with: 1,475 sx.                      or 3,613 ft<sup>3</sup>  
 Top of Cement: SURFACE                      Method Determined: VISUAL

Production Casing

Hole Size: 8-3/4"                      Casing Size: 7"  
 Cemented with: 1,490 sx.                      or 2,784 ft<sup>3</sup>  
 Top of Cement: SURFACE                      Method Determined: CBL  
 Total Depth: 14,250' (long string set @ 9704')

Injection Interval

12,355' feet to 14,000'

(Perforated or Open Hole; indicate which)  
 perforated 12355-13500 & open 13500-14000

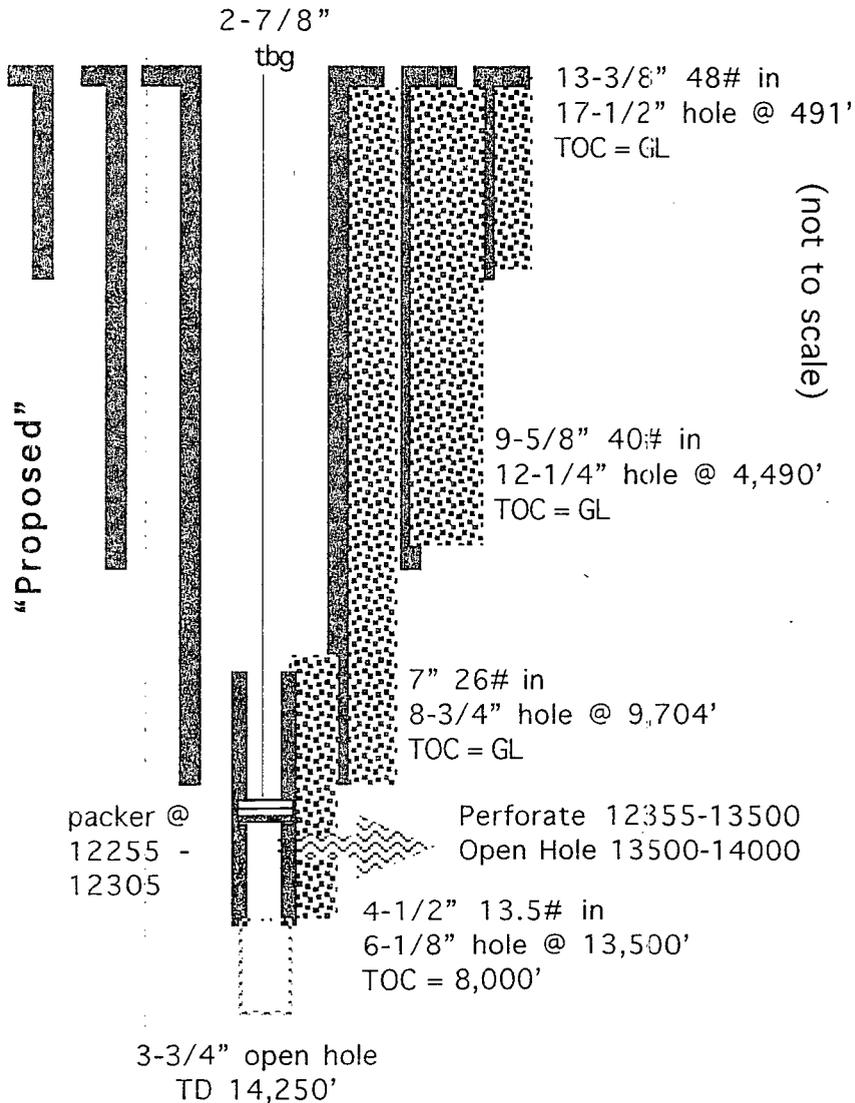
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OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: APACHE STATE SWD #1

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 FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2"      Casing Size: 13-3/8"  
 Cemented with: 520 sx.      or 686 ft<sup>3</sup>  
 Top of Cement: SURFACE      Method Determined: VISUAL

Intermediate Casing

Hole Size: 12-1/4"      Casing Size: 9-5/8"  
 Cemented with: 1,475 sx.      or 3,613 ft<sup>3</sup>  
 Top of Cement: SURFACE      Method Determined: VISUAL

Production Casing

Hole Size: 8-3/4"      Casing Size: 7"  
 Cemented with: 1,490 sx.      or 2,784 ft<sup>3</sup>  
 Top of Cement: SURFACE      Method Determined: CBL  
 Total Depth: 14,250' (long string set @ 9704')

Injection Interval

12,355' feet to 14,000'

(Perforated or Open Hole; indicate which)  
 perforated 12355-13500 & open 13500-14000

INJECTION WELL DATA SHEETTubing Size: 2-7/8" Lining Material: TUBOSCOPE TK FIBERType of Packer: ARROW AS-1XPacker Setting Depth: 12,255' - 12,305'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? (DISPOSAL)
- XXX
- Yes \_\_\_\_\_ No

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

2. Name of the Injection Formation:
- DEVONIAN & ELLENBURGER
- 
3. Name of Field or Pool (if applicable):
- SWD; DEVONIAN (96101) and SWD; ELLENBURGER (96103)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. \_\_\_\_\_

NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_
- 
- OVER: MISSISSIPPIAN (11,458'), MORROW (11,143'), ATOKA, (10,713'), STRAWN (10,488'),
- 
- CISCO (9,085'), WOLFCAMP (8,277'), BONE SPRING (7,600'), ABO (7,242'),
- 
- YESO (5,138') SAN ANDRES (3,247'), QUEEN (2,614'), & SEVEN RIVERS (1,959')

UNDER: NONE

APACHE CORPORATION  
APACHE STATE SWD #1  
660' FNL & 1980' FEL SEC. 36, T. 17 S., R. 30 E.  
EDDY COUNTY, NEW MEXICO

PAGE 1

30-015-38977

I. Purpose is to deepen a salt water disposal well (SWD-1271). The well was spudded on August 18, 2011. It was drilled to 9,703' as a SWD; Wolfcamp-Cisco (NMOCD pool 96136) well. The Wolfcamp and Cisco were perforated (8,302' - 8,692', 8,827' - 9,098', and 9,200' - 9,604'), but results were disappointing. The well was temporarily abandoned on October 21, 2011.

The plan now is to drill to 14,250' and dispose only into the SWD; Devonian (pool 96101) and SWD; Ellenburger (pool 96103). Disposal interval will be 12,355' to 14,000'.

II. Operator: Apache Corporation (OGRID #873)  
Operator phone number: (432) 818-1052  
Operator address: 303 Veterans Air Park Lane, Suite 3000  
Midland, TX 79705  
Contact for Application: Brian Wood (Permits West, Inc.)  
Phone: (505) 466-8120

III. A. (1) Lease: New Mexico State Land Office lease LG-5665-0001  
Lease Size: 360 acres (see Exhibit A for C-102 forms and map)  
Closest Lease Line: 660'  
Lease Area: N2NE4, E2NW4, SWNW, N2SE4, & SESW  
Section 36, T. 17 S., R. 30 E.

A. (2) Surface casing (13-3/8", 48#, S T & C, H-40) was set at 491' in a 17-1/2" hole. Cemented with 520 sacks Class C mixed at 1.32 cubic feet per sack. Circulated 132 sacks to the surface.

Intermediate casing (9-5/8", 40#, L T & C, J-55) was set at 4,490' in a 12-1/4" hole. Cemented with 1,475 sacks Class C mixed at 2.45 cubic feet per sack. Circulated 144 sacks to the surface.

Production casing (7", 26#, L T & C, L-80) was set at 9,704' in an 8-3/4" hole. Cemented with 740 sacks Class mixed at 1.27 cubic feet per sack and 750 sacks Class C mixed at 2.46 cubic feet per

sack. Circulated 224 sacks to the surface.

A CIBP was set at 8,250' on October 19, 2011. It was topped with 35' of cement. Casing was filled with 340 barrels packer fluid on October 20. Casing was tested to 480 psi for 30 minutes on October 21 and then temporarily abandoned.

Apache will drill a 6-1/8" hole to  $\approx$ 13,500'. A 4-1/2" 13.5# HCL-80 buttress liner will be run from 8,000' to 13,500'. It will be cemented with 600 sacks Class H with 1% FL-62, 0.1% sodium metasilicate + 0.3% R-21 mixed at 14.2 pounds per gallon and 1.26 cubic feet per sack. Excess = 45%

Mechanical integrity of the liner will be assured by hydraulically pressure testing to  $\approx$ 500 psi for 30 minutes.

Will drill 3-3/4" open hole to TD (14,250').

- A. (3) Tubing will be 2-7/8", J-55, 6.5#, 8 rd EUE with turned down couplings coated with tuboscope TK fiber line. Setting depth will be  $\approx$ 12,330'. (Disposal interval will be  $\approx$ 12,355' to  $\approx$ 14,000'.)
- A. (4) An Arrow AS-1X packer will be set between  $\approx$ 12,255' and  $\approx$ 12,305' (50' to 100' above the highest proposed perforation of  $\approx$ 12,355').
- B. (1) Disposal zones will be the Devonian and Ellenburger dolomites, which are in the SWD; Devonian (96101) and SWD; Ellenburger (96103) pools. Estimated fracture gradient is  $\approx$ 0.63 psi per foot.
- B. (2) Disposal interval will be 12,355' to 14,000'. The interval between 12,355' and 13,500' will be cased. The remainder of the well will be open hole.
- B. (3) The well was spudded August 18, 2011 as a Wolfcamp Cisco disposal well. The well was drilled to 9,704' and the Wolfcamp and

Cisco were perforated and tested. A cast iron bridge plug topped with 35' of cement was installed on October 19. The casing was filled with packer fluid on October 21 and then the well was temporarily abandoned.

B. (4) The well will be perforated from 12,355' to 14,000' with 2 shots per foot. Shot diameter = 0.40".

B. (5) Potential oil or gas zones above or below the Devonian and Ellenburger are:

Seven Rivers (0.64 mile east in 30-17s-31e; Fren; Seven Rivers Pool)  
Queen (1.07 miles southeast in 30-17s-31e; Red Lake; Queen et al Pool)  
San Andres (1.03 miles south in 1-18s-30e; Power; San Andres et al Pool)  
    Yeso (none in Section 36 or 8 adjacent sections)  
    Abo (none in Section 36 or 8 adjacent sections)  
Bone Spring (1.26 miles south in 1-18s-30e; Shugart; Bone Spring, North Pool)  
    Wolfcamp (none in Section 36 or 8 adjacent sections))  
Cisco (0.58 mile northwest in 25-17s-30e; Cedar Lake; Cisco Pool)  
Strawn (0.28 mile north in 25-17s-30e; Cedar Lake, Strawn, North Pool)  
Atoka (0.20 mile west in 36-17s-30e; Loco Hills; Atoka Pool)  
Morrow (0.20 mile west in 36-17s-30e; Cedar Lake; Morrow Pool)  
Mississippian (2.02 miles west in 34-17s-30e; Walters Lake; Mississippian Pool)  
    *Devonian (1.32 miles south in 1-18s-30e; WC Devonian)*  
    Silurian (>42 miles northwest in WC; Silurian (Gas))  
    Montoya (>44 miles southeast in Cary; Montoya Pool)  
*Ellenburger (6.86 miles southeast in 27-18s-31e; Shugart; Ordovician Pool)*  
Cambrian (no production within Eddy, Lea, or Chavez Counties)

IV. This is not an expansion of an existing injection project. It is disposal only.

V. Exhibit B shows all 7 existing wells (4 P & A + 2 gas wells + 1 oil well) within a half mile radius. Exhibit C shows all 290 existing well bores (157 oil or

gas producing wells + 92 P & A wells + 37 injection or disposal wells + 3 dry water test holes + 1 dry windmill) within a two mile radius.

Exhibits D and E shows all leases and lessors (all BLM and State) within a one half mile radius and two mile radius. Details on the leases within a one half mile radius are:

<u>T. 17 S., R. 30 E.</u>	<u>Lessor</u>	<u>Lease Number</u>	<u>Lessee</u>
N2NE4, S2NW4, & N2SE4 Sec. 36	NMSLO	LG-5665-0001	Oxy
NWNW Sec. 36	NMSLO	BO-2130-0029	Oxy
S2NE4 Sec. 36	NMSLO	BO-1565-0012	Chevron
NESW Sec. 36	NMSLO	BO-3627-0044	BP
SW4 Sec. 25	BLM	LC-030570-B	Fair et al
SE4 Sec. 25	BLM	LC-061670	ConocoPhillips et al
<u>T. 17 S., R. 31 E.</u>	<u>Lessor</u>	<u>Lease Number</u>	<u>Lessee</u>
Lot 4 Sec. 30	BLM	LC-029395-B	BP et al
Lots 1 & 2 Sec. 31	BLM	not currently leased	N/A

VI. Seven wells are within a half mile. None of the seven penetrated the Devonian or Ellenburger

<u>OPERATOR</u>	<u>WELL</u>	<u>API #</u> 30-015-	<u>LOCATION</u>	<u>ZONE(S)</u>	<u>STATUS</u>	<u>TD</u>	<u>DISTANCE</u>
Enervest	Cedro APG State Com 1	28487	660 FN & 2230 FW 36-17S-30E	Morrow & Atoka	Gas	11775	1012'
General	El Paso State 1	04454	660 FN & 660 FE 36-17S-30E	Morrow	P & A	11861	1300'
Pendragon	Amoco State 1	04453	660 FN & 1980 FW 36-17S-30E	SR-Q-G-SA	P & A	3389	1319'
Byrd Frost	Turner B 1	04325	660 FS & 1980 FE 25-17S-30E	SR-Q-G-SA	P & A	3460	1357'
Enervest	Laguna Cedro AOM Fed Com 1	28171	845 FS & 1980 FE 25-17S-30E	Strawn	Gas	11765	1505'

<u>OPERATOR</u>	<u>WELL</u>	<u>API #</u> 30-015-	<u>LOCATION</u>	<u>ZONE(S)</u>	<u>STATUS</u>	<u>TD</u>	<u>DISTANCE</u>
General	Grayburg Jackson Unit Tract 13 #8	04324	660 FS & 1980 FW 25-17S-30E	SR-Q-G-SA	P & A	3367	1560'
Linn	Turner B 109	29571	480 FS & 330 FW 30-17S-31E	SR-Q-G-SA	Oil	3870	2579'
Asher	Grayburg Jackson Unit 1R	04452	660 FN & 660 FW 36-17S-30E	SR-Q-G-SA	Oil	3334	2643'

- VII. 1. Average injection rate will be  $\approx$ 15,000 bwpd.  
 Maximum injection rate will be  $\approx$ 20,000 bwpd.
2. System will be open and closed. Water will both be trucked and the well will be tied into a proposed Apache pipeline system.
3. Average injection pressure will be  $\approx$ 2,000 psi  
 Maximum injection pressure will be 2,471 psi (= 0.2 psi/foot x 12,335' (highest perforation)).
4. The water to be disposed of will be produced water from Apache wells, mainly from the Yeso. Apache has 174 Yeso wells in T. 17 S., R. 30 E. and T. 17 S., R. 31 E.

A summary of analyses from a Yeso well (10 miles west), Devonian well (5 miles northwest), and an Ellenburger well (43 miles southeast) follows. These samples are the closest wells in the WAIDS data base. The abstracts are in Exhibit F. No compatibility problems have been reported from the closest (5.1 miles west) operating Devonian disposal well (30-015-29104). The 50,928 barrels that were disposed in the well in 2011 included Yeso water. The closest (40 miles southwest) Ellenburger disposal wells (30-015-26499 & 30-015-29123) have accepted more than 62,835,189 barrels of water.

	<u>Yeso</u>	<u>Devonian</u>	<u>Ellenburger</u>
Barium	0.1136		
Bicarbonate	495.296	1,260.0	122.0
Calcium	2,979.73		
Chloride	138,951.0	34,400.0	66,630.0

	<u>Yeso</u>	<u>Devonian</u>	<u>Ellenburger</u>
Hydrogen Sulfide	6.816		
Iron	5.112		
Magnesium	679.328		
Potassium	493.024		
Sodium	87,541.3		
Strontium	47.712		
Sulfate	4,749.62	3,600.0	1,692.0
Total Dissolved Solids	207,695.0	63,260	110,300.0

5. A total of 3 wells in the 324 sections comprising Townships 16 - 18 South and Ranges 29 - 31 East produced from the Devonian. Closest (6,992' southwest in 1-18s-30e) Devonian production was Read and Stevens' Susie Federal #1 (30-015-27677). It produced 237 barrels of from the wildcat Devonian in 1994 before it was plugged and abandoned. It has since been reentered and is now a Wolfcamp salt water disposal well (Endurance's Ninety Nine SWD 1).

Only one well in the 324 sections comprising Townships 16 - 18 South and Ranges 29 - 31 East produced from the Ellenburger. Closest (6.86 miles southeast in 27-18s-31e) Ellenburger production is Chesapeake's Greenwood Pre-Grayburg Unit 14 (30-015-31615). It has produced 6,275 barrels of oil and 2,001,171 Mcf of gas since 2001 from the wildcat Shugart; Ordovician.

VIII. The Devonian ( $\approx 1,120$  thick) and Ellenburger ( $\approx 445$ ' thick) are dolomites. Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary deposit at the surface. No active water wells are within a one mile radius (Exhibit G).

Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary deposit at the surface. A wood windmill (Exhibit G) is 5,120' northwest in the SWSE Section 26. According to the grazing permittee, it has been dry for over 30 years. No underground source of drinking water is below the proposed disposal interval.

Anticipated formation tops are:

Quaternary = 0'  
Rustler = 285'  
Salt top = 482'  
Salt base = 1,448'  
Yates = 1,609'  
Seven Rivers = 1,959'  
Queen = 2,614'  
Grayburg = 3,075'  
San Andres = 3,247'  
Glorieta = 5,050'  
Yeso = 5,138'  
Tubbs = 6,600'  
Abo = 7,242'  
Wolfcamp = 8,277'  
Wolfcamp Reef = 8,465'  
Cisco = 9,085'  
Strawn = 10,488'  
Atoka = 10,713'  
Morrow = 11,143'  
Mississippian = 11,458'  
Devonian = 12,353'  
Ellenburger = 13,688'  
Cambrian = 14,138'  
Total Depth = 14,250'

There only water well within a mile radius is a dry inoperable windmill 5,120' northwest (see Exhibit G). There will be 12,068' of vertical separation and the Rustler salt interval between the bottom of the only likely underground water source (Quaternary) and the top of the Devonian.

Produced water has been injected or disposed into zones above (mainly in the Grayburg-Jackson; Seven Rivers - Queen - Glorieta - San Andres; but also in the Wolfcamp) the proposed disposal interval via 28 wells within Section 36 and the bordering 8 sections.

IX. The well will be stimulated with acid to clean out scale or fill.

X. Cement bond, gamma ray, spectral, dual laterolog, micro laterolog, and neutron density logs have been run. Cement bond, spectral gamma ray, density, dual laterolog/MSFL, and neutron logs will be run.

Apache will NMOCD with a copy of the mud log run over the disposal interval and/or an analysis of the electric logs as to hydrocarbon production capability.

XI. Based on a field inspection and a review of the State Engineer's records, there is one water well within a one mile radius. It is a wood windmill which has been dry for over 30 years.

XII. Apache is not aware of any geologic or engineering data that may indicate the Devonian or Ellenburger are in hydrologic connection with any underground sources of water. There are at least 79 Devonian salt water disposal or injection wells and at least 2 Ellenburger salt water disposal or injection wells in New Mexico.

XIII. Notice (this application) has been sent (Exhibit H) to the surface owner (New Mexico State Land Office), all leasehold operators (Oxy, Chevron, BP, Asher, Astons, Calco, Eako, Valko, Barr & Wilson, Camterra, Carr & General Operating, EOG, Fair, LBO NM, Meagher, Neste, Nortex, Pendragon, Resource Investment, Olsen, Socorro Properties, Three Rivers Acquisition, Xeric, Yates Energy, Yates Petroleum, Chisos, ConocoPhillips, Edge Petroleum, Enervest, Burnett Trust, Tandy Estate, Anne Windfohr, Pure Energy, Windfohr Trust, Texas Reef Exploration, Texas Refining, Devon, Armstrong LP, Judah Oil, Marbob, McCombs Energy, McInnes Resources, LINN Energy, Paloma Resource, and Pitch Energy), and lessor of unleased land (BLM) within a half mile.

A legal ad (see Exhibit I) was published on January 29, 2012.



District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-38977		<sup>2</sup> Pool Code 96103		<sup>3</sup> Pool Name SWD; Ellenburger	
<sup>4</sup> Property Code 38598		<sup>5</sup> Property Name Apache State SWD			<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 873		<sup>8</sup> Operator Name Apache Corporation			<sup>9</sup> Elevation 3625

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	36	17 S	30 E		660	North	1980	East	Eddy

<sup>11</sup> Bottom Hole Location If Different From Surface

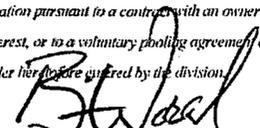
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

		660' ↓	←		1980'

**<sup>17</sup> 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  
5-3-12

Printed Name  
**Brian Wood**

E-mail Address  
**brian@permitswest.com**

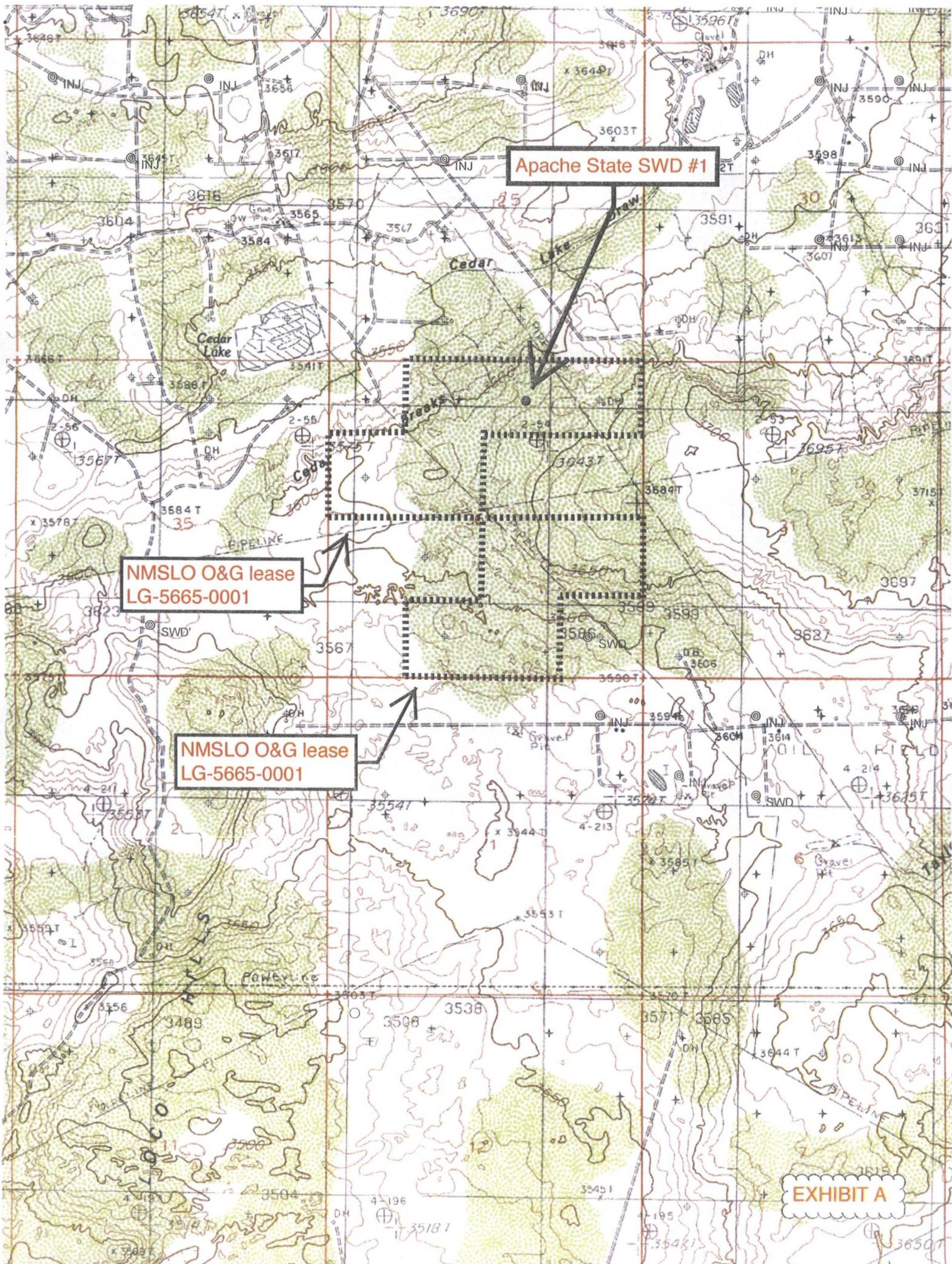
**<sup>18</sup> SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey  
**Dec. 28, 2010**

Signature and Seal of Professional Surveyor:  
**Original survey by  
Ronald J. Eidson  
on file with NMOCD**

Certificate Number **3239**

EXHIBIT A

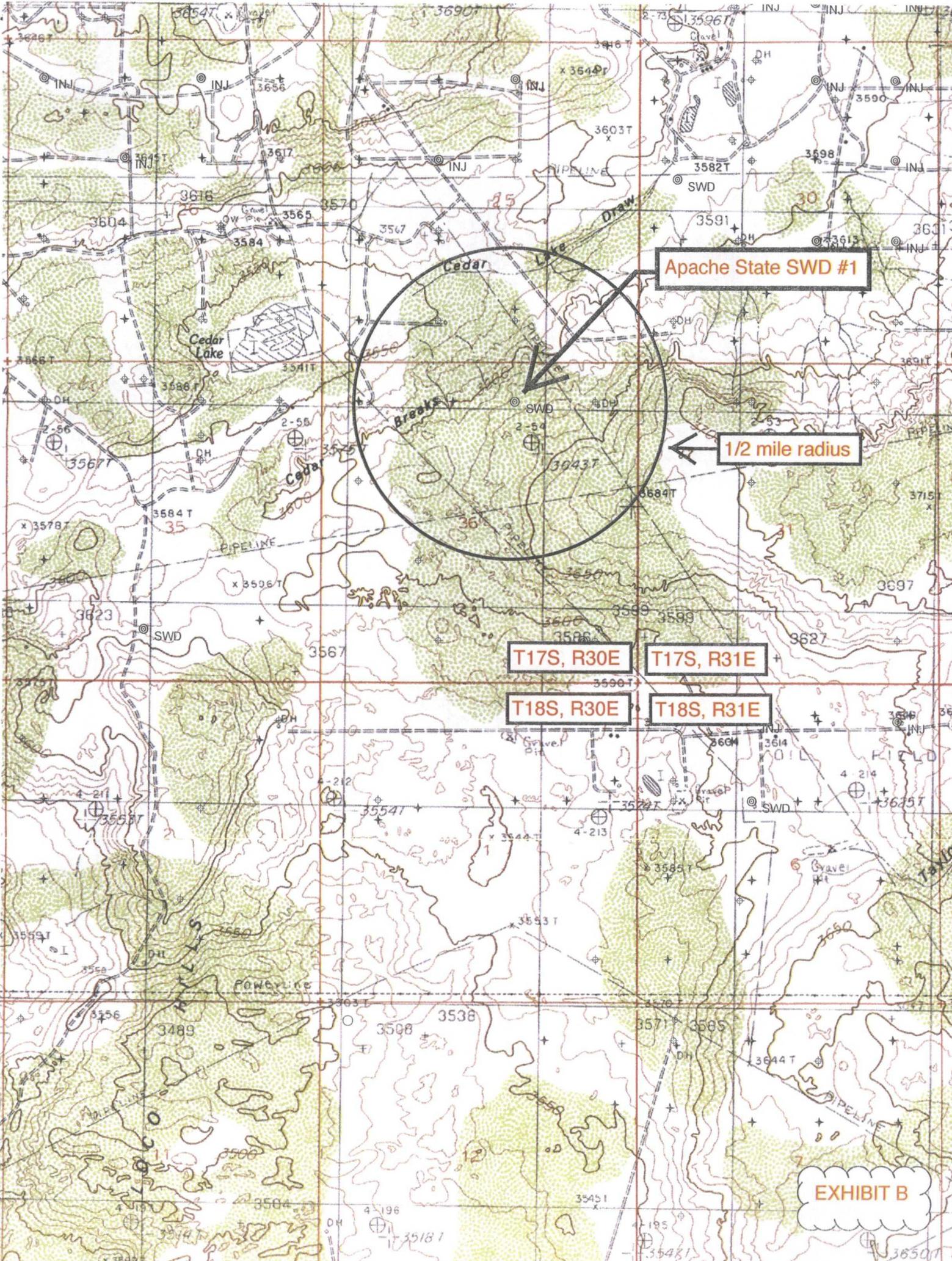


Apache State SWD #1

NMSLO O&G lease  
LG-5665-0001

NMSLO O&G lease  
LG-5665-0001

EXHIBIT A



Apache State SWD #1

1/2 mile radius

T17S, R30E

T17S, R31E

T18S, R30E

T18S, R31E

EXHIBIT B



2 mile radius

Apache State SWD #1

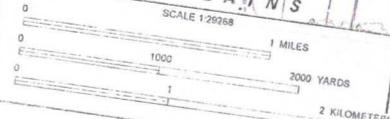
QUERECHO PLAINS

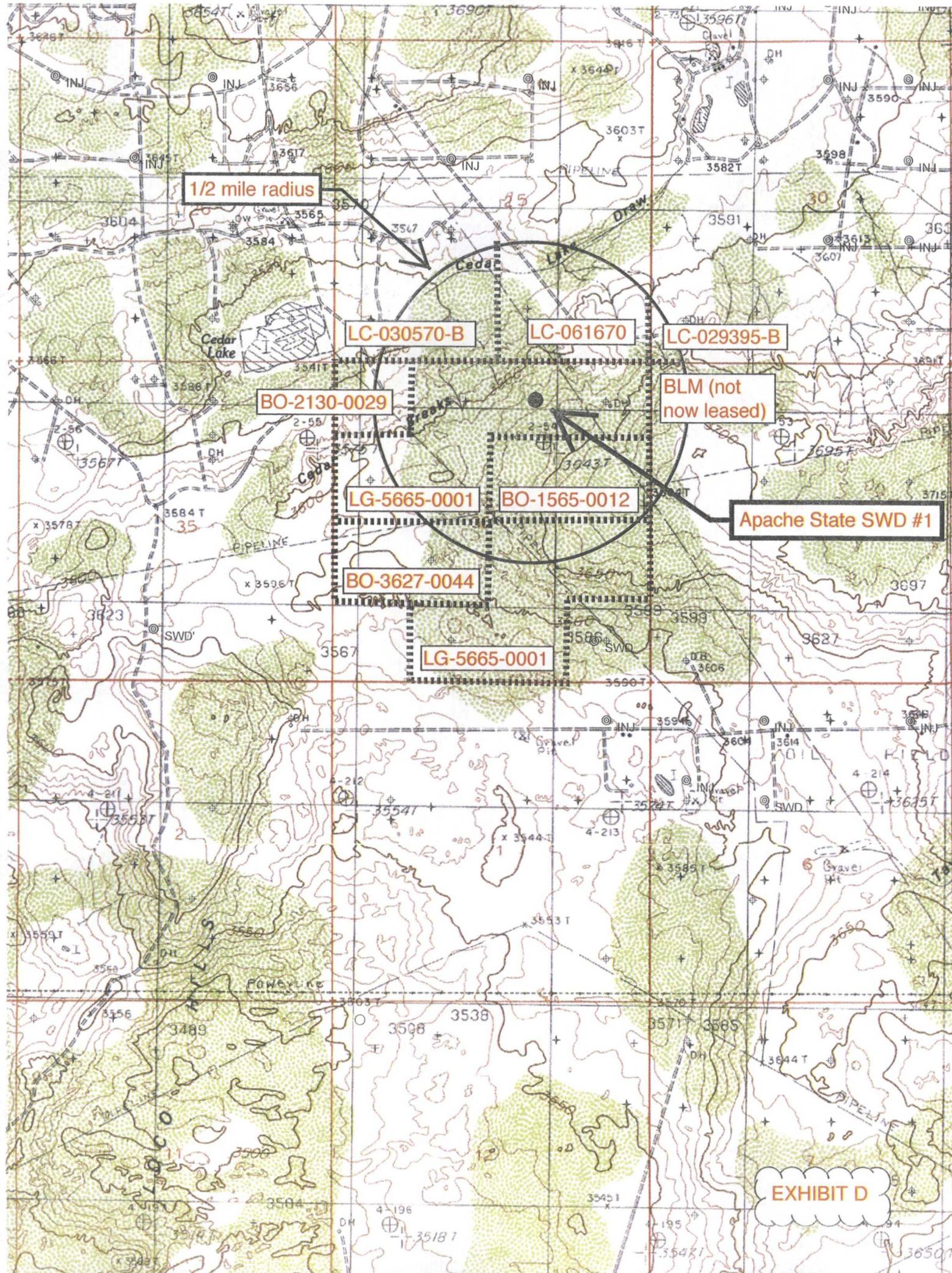
QUERECHO

PLAINS

EXHIBIT C

SCALE 1:29268





1/2 mile radius

LC-030570-B

LC-061670

LC-029395-B

BO-2130-0029

BLM (not now leased)

LG-5665-0001

BO-1565-0012

Apache State SWD #1

BO-3627-0044

LG-5665-0001

EXHIBIT D



# NM WAIDS

DATA

MAPS

HOME

SCALE

CORROSION

General Information About: Sample 6073			
WHITE STAR FEDERAL 014			
API	3001530931	Sample Number	
Unit/Section/ Township/Range	A / 29 / 17 S / 29 E	Field	EMPIRE EAST
County	Eddy	Formation	YESO
State	NM	Depth	
Lat/Long	32.81153 / -104.09097	Sample Source	
TDS (mg/L)	207695	Water Type	
Sample Date(MM/DD/YYYY)	5/18/2000	Analysis Date(MM/DD/YYYY)	5/26/2000
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)	493.024	Sulfate (SO)	4749.62
Sodium (Na)	87541.3	Chloride (Cl)	138951
Calcium (Ca)	2979.73	Carbonate (CO <sub>3</sub> )	0
Magnesium (Mg)	679.328	Bicarbonate (HCO <sub>3</sub> )	495.296
Barium (Ba)	0.1136	Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H <sub>2</sub> S)	6.816
Strontium (Sr)	47.712	Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)	5.112	Oxygen (O)	



EXHIBIT F

# NM WAIDS

DATA

MAPS

HOME

SCALE

CORROSION

General Information About: Sample 5199			
SQUARE LAKE DEEP UNIT 001			
API	3001503979	Sample Number	
Unit/Section/ Township/Range	J / 33 / 16 S / 30 E	Field	
County	Eddy	Formation	DEV
State	NM	Depth	
Lat/Long	32.87982 / -103.97885	Sample Source	DST
TDS (mg/L)	63260	Water Type	
Sample Date(MM/DD/YYYY)		Analysis Date(MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	3600
Sodium (Na)		Chloride (Cl)	34400
Calcium (Ca)		Carbonate (CO <sub>3</sub> )	
Magnesium (Mg)		Bicarbonate (HCO <sub>3</sub> )	1260
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H <sub>2</sub> S)	
Strontium (Sr)		Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)		Oxygen (O)	



EXHIBIT F

# NM WAIDS

DATA

MAPS

HOME

SCALE

CORROSION

General Information About: Sample 4500			
LIVINGSTON 006			
API	3002506517	Sample Number	
Unit/Section/ Township/Range	K / 03 / 21 S / 37 E	Field	WANTZ
County	Lea	Formation	ELBG
State	NM	Depth	
Lat/Long	32.50600 / -103.15174	Sample Source	DST
TDS (mg/L)	110300	Water Type	
Sample Date(MM/DD/YYYY)		Analysis Date(MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	1692
Sodium (Na)		Chloride (Cl)	66630
Calcium (Ca)		Carbonate (CO <sub>3</sub> )	
Magnesium (Mg)		Bicarbonate (HCO <sub>3</sub> )	122
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H <sub>2</sub> S)	
Strontium (Sr)		Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)		Oxygen (O)	



EXHIBIT F



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

Apache State SWD 1

No PODs found.

UTMNA83 Radius Search (in meters):

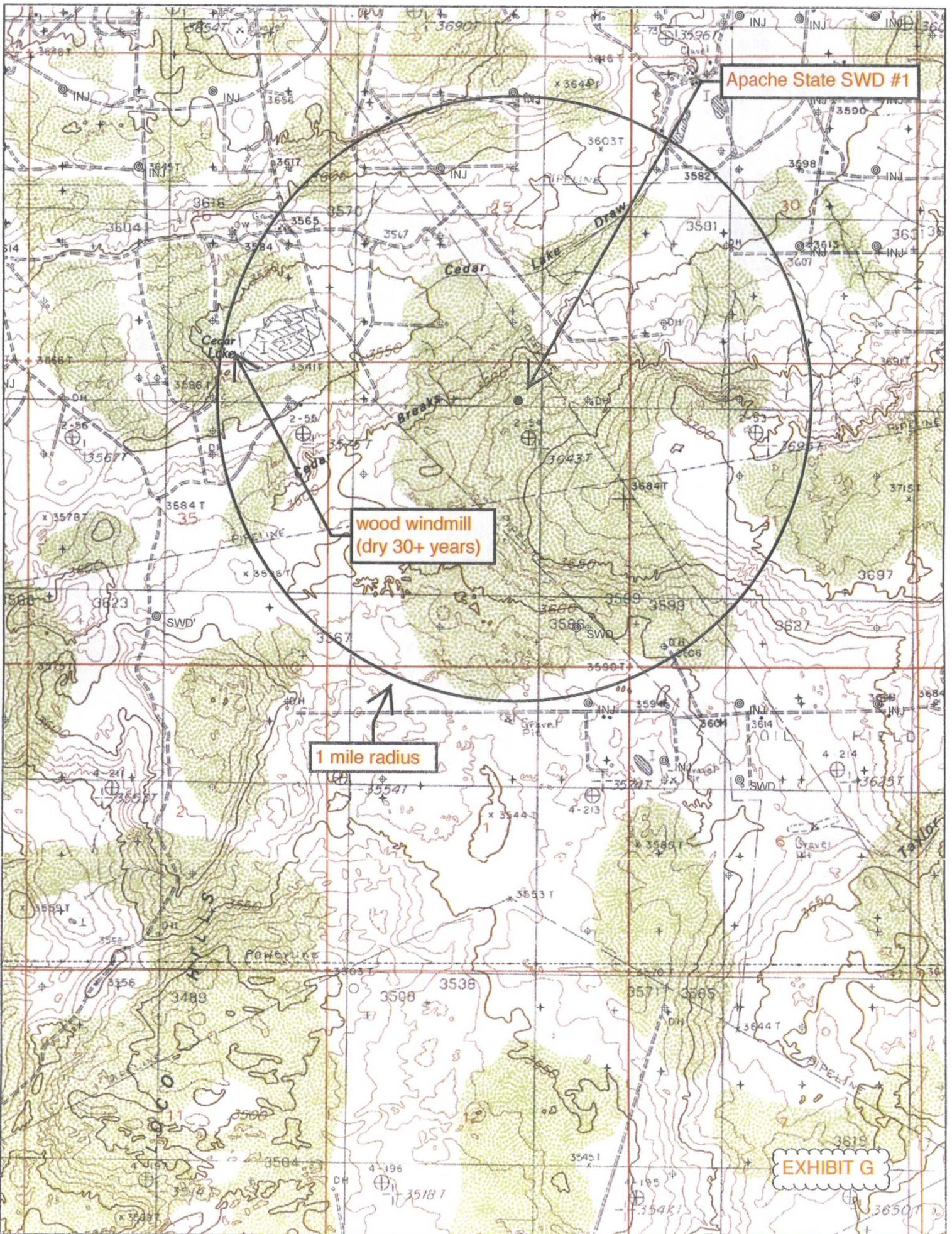
**Easting (X):** 600815.58

**Northing (Y):** 3629228.13

**Radius:** 2000

EXHIBIT G

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.

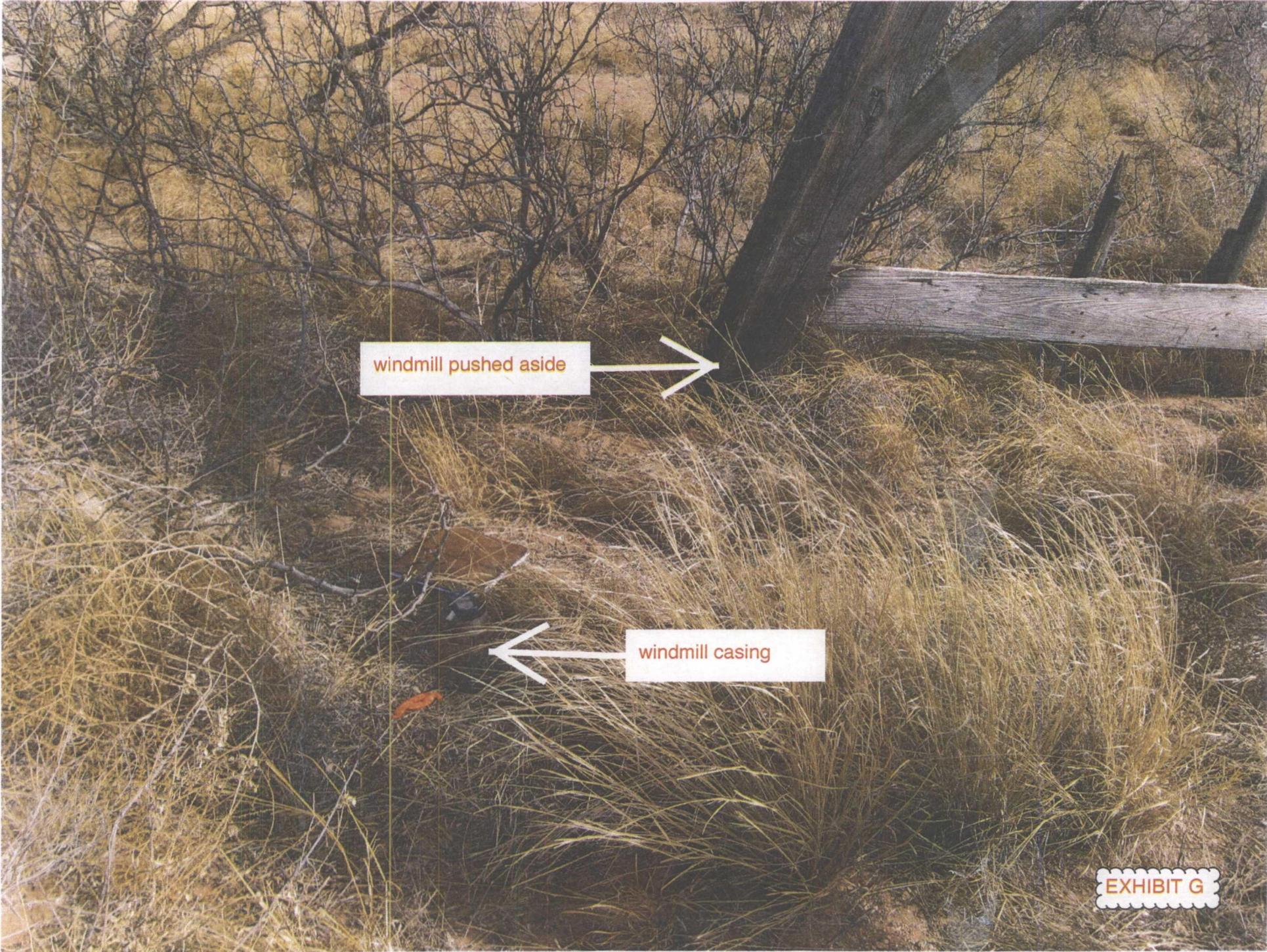


Apache State SWD #1

wood windmill  
(dry 30+ years)

1 mile radius

EXHIBIT G



windmill pushed aside

windmill casing

EXHIBIT G

**PERMITS WEST, INC.**

PROVIDING PERMITS for LAND USERS

37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 7, 2012

Nick Jaramillo  
New Mexico State Land Office  
P. O. Box 1148  
Santa Fe, NM 87504-1148

Dear Nick

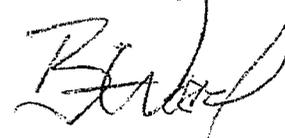
Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections. This site is under SWD easement SWD-301.

Well Name: Apache State SWD #1 (state lease) TD = 14,250'  
Proposed Injection Zones: Devonian & Ellenburger (from 12,355' to 14,250')  
Location: 660' FNL & 1980' FEL Sec. 36, T. 17 S., R. 30 E., Eddy County, NM  
Approximate Location: ≈3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. 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,



Brian Wood

EXHIBIT H

**PERMITS WEST, INC.**  
 PROVIDING PERMITS for LAND USERS  
 37Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 7, 2012

Nick Jaramillo  
 New Mexico State Land Office  
 P. O. Box 1148  
 Santa Fe, NM 87504-1148

Dear Nick

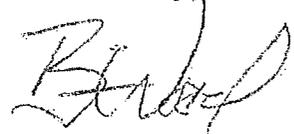
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questions.

Sincerely,



Brian Wood

EXHIBIT H

7011 2970 0003 9317 3625

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	\$	6.60

Postmark  
 MAY - 7 2012  
 87552

Sent To: SLO

Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

May 7, 2012

Oxy USA WTP Limited Partnership  
 P. O. Box 4294  
 Houston, TX 77210

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705.

Submission Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. 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,



Brian Wood

U.S. Postal Service <b>CERTIFIED MAIL RECEIPT</b> <small>(Domestic Mail Only; No Insurance Coverage Provided)</small>	
OFFICIAL USE	
Postage \$	
Certified Fee	
Return Receipt Fee (optional)	
Registered Mail Fee (optional)	
Total Postage & Fees	\$ 6.60
To: Oxy USA WTP Houston	

Postmark: MAY -7 2012 87502

EXHIBIT H

May 7, 2012

Ken Jackson  
 Chevron USA Inc.  
 P. O. Box 1635  
 Houston, TX 77251-1635

Dear Ken,

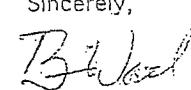
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Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service <b>CERTIFIED MAIL RECEIPT</b> <small>(Domestic Mail Only; No Insurance Coverage Provided)</small>	
OFFICIAL USE	
Postage \$	
Certified Fee	
Return Receipt Fee (optional)	
Registered Mail Fee (optional)	
Total Postage & Fees	\$ 6.60
To: Chevron Houston	

Postmark: MAY -7 2012 87502

May 7, 2012

Cherry Hiava  
 BP America Production Co.  
 P. O. Box 3092  
 Houston, Tx. 77253-3092

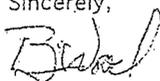
Dear Cherry,

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: ≈3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,  
  
 Brian Wood

May 7, 2012

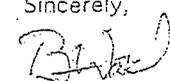
Asher Enterprises Ltd. Co.  
 P. O. Box 423  
 Artesia, NM 88211-0423

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Please call me if you have any questions.

Sincerely,  
  
 Brian Wood

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
 (Domestic Mail Only. No Insurance Coverage Provided)  
**OFFICIAL USE**

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.10

Postmark: MAY 7 2012 87505

Sent to: *BP America*  
 Houston

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
 (Domestic Mail Only. No Insurance Coverage Provided)  
**OFFICIAL USE**

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.10

Postmark: MAY 7 2012 87505

Sent to: *Asher Ent*

EXHIBIT H

May 7, 2012

Richard Barr & Scott Wilson  
 500 N. Loraine, Suite 1070  
 Midland, TX 79701

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,

*Brian Wood*  
 Brian Wood

May 7, 2012

Audrey Bean Aston, Charles A. Aston III,  
 Aston Family, Valerie Kobal Aston, & Ellen Paul Aston,  
 Calco LLC, Eako LLC, Valko LLC  
 P. O. Box 1090  
 Roswell, NM 88202-1090

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Approximate Location: ≈3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. 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,

*Brian Wood*  
 Brian Wood

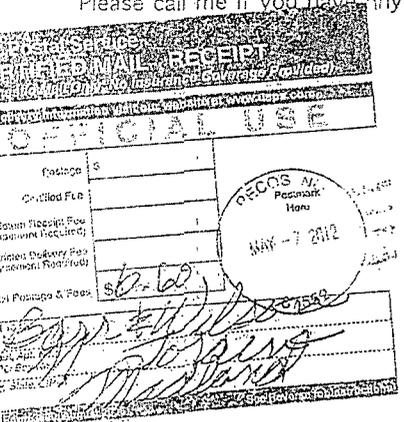
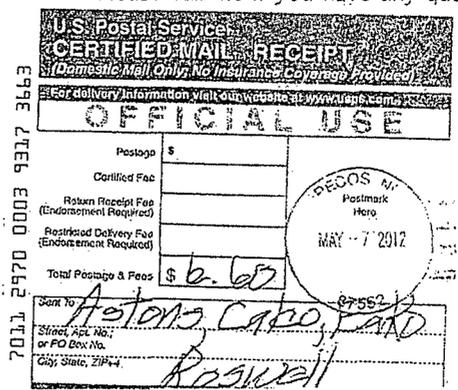


EXHIBIT H



May 7, 2012

Camterra Res. Partners  
 2615 E. End Blvd. South  
 Marshall, TX 75670

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Approximate Location: ~3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. 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,  
  
 Brian Wood

May 7, 2012

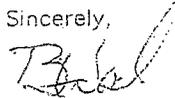
Richard K. Barr & Scott E. Wilson  
 P. O. Box 50250  
 Midland, TX 79710

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Apache State SWD #1 (state lease) ID = 14,250'  
Proposed Injection Zones: Devonian & Ellenburger (from 12,355' to 14,250')  
Location: 660' FNL & 1980' FEL Sec: 36, T. 17 S., R. 30 E., Eddy County, NM  
Approximate Location: ~3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. 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,  
  
 Brian Wood

U.S. Postal Service  
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DECOS N° 87552  
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 MAY - 7 2012

Sent to: Barr & Wilson  
 Street, Apt. No. or PO Box No. PO Box 50250  
 City, State, ZIP+4 Midland

EXHIBIT H

May 7, 2012

EOG Resources Inc.  
 333 Clay St., #4200  
 Houston, TX 77002

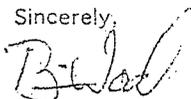
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Please call me if you have any questions.

Sincerely,



Brian Wood

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

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Return Receipt Fee (Endorsement Required)		
Registered Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	6.60

Postmark Here  
 MAY - 7 2012  
 87562

Sent to: EOG

Street, Apt. No. or PO Box No.  
 City, State, ZIP+4

EXHIBIT H

May 7, 2012

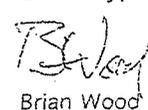
Binion & Linda Carr and  
 General Operating Co.  
 P. O. Box 877  
 Wichita Falls, TX 76307

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Sincerely,



Brian Wood

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
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**OFFICIAL USE**

Postage	\$	
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Return Receipt Fee (Endorsement Required)		
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Total Postage & Fees	\$	6.60

Postmark Here  
 MAY - 7 2012  
 87562

Sent to: Binion & Linda Carr

Street, Apt. No. or PO Box No.  
 City, State, ZIP+4



May 7, 2012

LBO NM Inc.  
28202 Cabot Rd., #250  
Laguna Niguel, CA 92677

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: ≈3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,

Brian Wood

U.S. Postal Service  
CERTIFIED MAIL RECEIPT  
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Total Postage & Fees	\$ 6.60

PECOS N.C.  
MAY 7 2012  
Here  
87552

Sent To: LBO NM  
Street, Apt. No. or PO Box No.  
City, State, ZIP+4

EXHIBIT H



May 7, 2012

Rodney Thomson  
Fair Oil, Ltd.  
P. O. Box 689  
Tyler, TX 75710

Dear Rodney,

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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questions.

Sincerely,

Brian Wood

U.S. Postal Service  
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Postage	\$
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Total Postage & Fees	\$ 6.60

PECOS N.C.  
MAY 7 2012  
Here  
87552

Sent To: Fair Oil  
Street, Apt. No. or PO Box No.  
City, State, ZIP+4



May 7, 2012

Neste Oil Inc.  
5 Post Oak Park, #1220  
Houston, TX 77027

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,

*Brian Wood*  
Brian Wood



May 7, 2012

Meagher Oil & Gas Prop. Inc.  
P. O. Box 4782  
Englewood, CO 80155

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,

*Brian Wood*  
Brian Wood

EXHIBIT H

May 7, 2012

Pendragon Resources  
 1600 Broadway, #1950  
 Denver, CO 80202

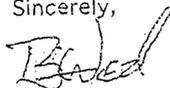
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Please call me if you have any questions.

Sincerely,



Brian Wood

May 7, 2012

Nortex Corp.  
 1415 Louisiana, #3100  
 Houston, TX 77002

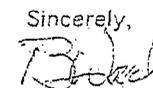
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Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service  
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 Postmark Date MAY 7 2012

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EXHIBIT H

U.S. Postal Service  
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RECOS No. 87552  
 Postmark Date MAY 7 2012

SENT TO Nortex  
 Street, Apt. No. or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4 \_\_\_\_\_

May 7, 2012

Sharon A. Olsen Trust & Sharon Olsen Trust  
 P. O. Box 257  
 Rimrock, AZ 86335-0357

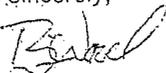
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Please call me if you have any questions.

Sincerely,



Brian Wood

May 7, 2012

Resource Investment Corp.  
 P. O. Box 3558  
 Englewood, CO 80155-3588

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Total Postage & Fees	\$	6.10

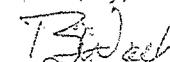
Postmark: MAY 10 87505

Sent To: Resource Investment

Street, Apt. No. or PO Box No.  
 City, State, ZIP+4

6570 907E E000 0952 7002

Sincerely,



Brian Wood

U.S. Postal Service  
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**OFFICIAL USE**

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Total Postage & Fees	\$	6.10

Postmark: MAY 10 87505

Sent To: Sharon Olsen

Street, Apt. No. or PO Box No.  
 City, State, ZIP+4

EXHIBIT H

May 7, 2012

Tom Stratton  
 Three Rivers Acquisition LLC  
 1122 S. Capital of TX Hwy 325  
 Austin, TX 78746

Dear Tom,

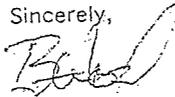
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questions.

Sincerely,



Brian Wood

May 7, 2012

Socorro Properties LLC  
 P. O. Box 1013  
 Castle Rock, CO 80104

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Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	6.60

Postmark: 87552

Sent to: 3 Rivers Acq

U.S. Postal Service  
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OFFICIAL USE

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Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	6.60

Postmark: 87552

Sent to: Socorro Props

EXHIBIT H

May 7, 2012

Yates Energy Corp.  
 P. O. Box 2323  
 Roswell, NM 88202-2323

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,  
  
 Brian Wood

May 7, 2012

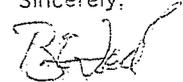
Xeric Oil & Gas Corp.  
 P. O. Box 352  
 Midland, TX 79702-0352

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Location: 660' FNL & 1980' FEL Sec. 36, T. 17 S., R. 30 E., Eddy County, NM  
Approximate Location: ≈3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. 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,  
  
 Brian Wood

U.S. Postal Service  
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EXHIBIT H

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Street Address or PO Box No.  
 City, State, ZIP+4

May 7, 2012

Chisos Ltd.  
 670 Dona Ana Rd. SW  
 Deming, NM 88030

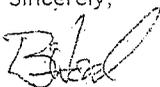
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Please call me if you have any questions.

Sincerely,



Brian Wood

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**OFFICIAL USE**

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Send to: Chisos

Street, Apt. No. or PO Box No.  
 City, State, ZIP+4

RECOS N.M. Postmark Here MAY -7 2012 87502

EXHIBIT H

May 7, 2012

Clif May  
 Yates Petroleum Corporation  
 105 S. 4th Street  
 Artesia, NM 88210

Dear Clif,

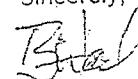
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Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service  
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Total Postage & Fees	\$6.16

Send to: Yates Pet

Street, Apt. No. or PO Box No.  
 City, State, ZIP+4

RECOS N.M. Postmark Here MAY -7 2012 87502

May 7, 2012

Edge Petroleum Corp.  
 1301 Travis, #2000  
 Houston, TX 77002

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Please call me if you have any questions.

Sincerely,



Brian Wood

7007 2560 0001 3406 0721

U.S. Postal Service  
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 Total Postage & Fees \$ 6.10

Postmark: Santa Fe, NM 87505

Sent to: Edge Pet

EXHIBIT H

May 7, 2012

ConocoPhillips Company  
 P. O. Box 2197  
 Houston, TX 77252

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,



Brian Wood

7007 2560 0001 3406 0721

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 Total Postage & Fees \$ 6.10

Postmark: Santa Fe, NM 87505

Sent to: ConocoPhillips



May 7, 2012.

Ollie Burnett Trust, Anne. B. Tandy Estate,  
& Anne B. Windfohr  
801 Cherry St., #1500  
Ft. Worth, TX 76102-6869

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questions.

Sincerely,

*Brian Wood*  
Brian Wood



May 7, 2012

Peter Tower  
Enervest Ene. Inst. Funds XI-A & XI-WI  
1001 Fannin St., #800  
Houston, TX 77002-6707

Dear Peter,

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ns.

Sincerely,

*Brian Wood*  
Brian Wood.

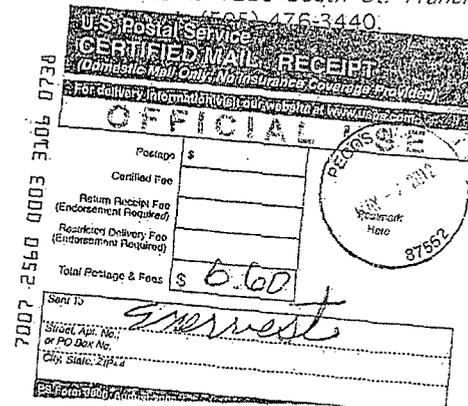
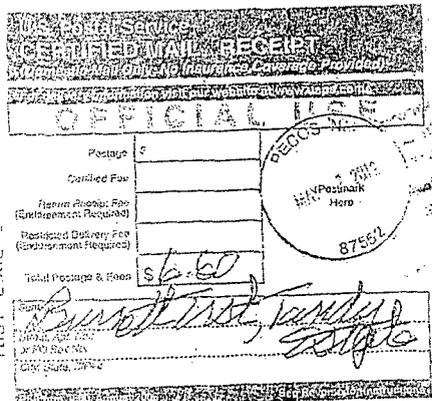


EXHIBIT H

May 7, 2012

R. F. Windfohr Trust  
 P. O. Box 2950  
 Ft. Worth, TX 76113

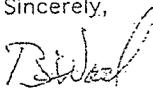
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Please call me if you have any questions.

Sincerely,



Brian Wood

May 7, 2012

Pure Energy Group Inc.  
 700 N. St. Mary's St., #1925  
 San Antonio, TX 78205

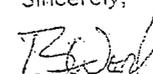
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Please call me if you have any questions.

Sincerely,



Brian Wood

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*R. F. Windfohr Trust*

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Send To:  
 Recipient Name:  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

*Pure Energy*

Texas Refining & Expl. LP  
 5701 Woodway, #110  
 Houston, TX 77057

May 7, 2012

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Please call me if you have any questions.

Sincerely,

*Brian Wood*  
 Brian Wood

7244 1601 7244  
 7011 3500 0002 1601 7244

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PECOS, N.M.  
 Postmark  
 MAY 7 2012  
 87505

Sent to TX Refining & Expl

Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

EXHIBIT H

May 7, 2012

Texas Reexploration Ltd.  
 3025 Maxroy  
 Houston, TX 77008

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Sincerely,

*Brian Wood*  
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7244 1601 7244  
 7011 3500 0002 1601 7244

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PECOS, N.M.  
 Postmark  
 MAY 7 2012  
 87505

Sent to TX Reexploration

Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

May 7, 2012

Jay K. Armstrong LP  
 P. O. Box 2193  
 Wichita Falls, TX 76307

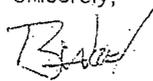
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Please call me if you have any questions.

Sincerely,



Brian Wood

May 7, 2012

Devon Energy Prod. Co. LP  
 20 N. Broadway, #1500  
 Oklahoma City, OK 73102

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Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service  
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Send To: J.K. Armstrong 82562

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Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>		\$6.10

PECOS NM Postmark  
 MAY - 7 2012

Send To: Devon

May 7, 2012

Marbob Energy Corp. c/o COG  
 2208 W. Main  
 Artesia, NM 88210

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,



Brian Wood

7011 3500 0002 1601 7242

U.S. Postal Service  
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**OFFICIAL USE**

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 Restricted Delivery Fee (Endorsement Required)  
 Total Postage & Fees \$6.60

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PECOS, NM Postmark Here  
 MAY - 7 2012  
 87505

Sent to  
 Recipient Apt. No. or PO Box No.  
 City, State, ZIP+4

EXHIBIT H

May 7, 2012

Judah Oil  
 P. O. Box 568  
 Artesia, NM 88211-0568

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Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submission Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. 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,



Brian Wood

7011 3500 0002 1601 7242

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 87505

Sent to  
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 City, State, ZIP+4

May 7, 2012

McInnes Res. Co.  
P. O. Box 527  
Artesia, NM 88211-0527

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Apache State SWD #1 (state lease) TD = 14,250'  
Proposed Injection Zones: Devonian & Ellenburger (from 12,355' to 14,250')  
Location: 660' FNL & 1980' FEL Sec. 36, T. 17 S., R. 30 E., Eddy County, NM  
Approximate Location: ≈3-1/2 air miles east-southeast of Loco Hills, NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a salt water disposal well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

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Sincerely,

Brian Wood

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87552

Sent To: McInnes Res

Street, Apt. No., or P.O. Box No.  
City, State, ZIP+4

2012 0502 1601 2324  
5821 7091 2000 005E 1102

EXHIBIT H

May 7, 2012

McCombs Energy LLC  
5599 San Felipe, #1220  
Houston, TX: 77056-2794

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,

Brian Wood

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Restricted Delivery Fee (Endorsement Required)		
<b>Total Postage &amp; Fees</b>	<b>\$</b>	<b>6.60</b>

Postmark Here  
MAY - 7 2012  
87552

Sent To: McCombs Energy

Street, Apt. No., or P.O. Box No.  
City, State, ZIP+4

5821 7091 2000 005E 1102

May 7, 2012

Paloma Resource Inc.  
P. O. Box 1814  
Roswell, NM 88202

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,



Brian Wood

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Total Postage & Fees	\$ 6.60

Send to: Paloma  
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City, State, ZIP+4

PEOS N. Postmark Here  
MAY - 7 2012  
87562

7000 005E T101

EXHIBIT H

May 7, 2012

LINN Energy Holdings LLC  
600 Travis St., #5100  
Houston, TX 77002

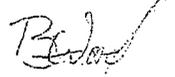
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Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,



Brian Wood

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Total Postage & Fees	\$ 6.60

Send to: LINN  
Street, Apt. No., or P.O. Box No.  
City, State, ZIP+4

PEOS N. Postmark Here  
MAY - 7 2012  
87562

7000 005E T101



May 7, 2012

BLM  
620 E. Greene St.  
Carlsbad, NM 88220

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Approximate Location: ~3-1/2 air miles east-southeast of Loco Hills; NM  
Applicant Name: Apache Corporation (432) 818-1052  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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any questions.

Sincerely,

Brian Wood



May 7, 2012

Pitch Energy Corp.  
P. O. Box 304  
Artesia, NM 88211-0304

Apache Corporation is applying (see attached application) to deepen its Apache State SWD #1 well as a water disposal well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposed salt 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,

Brian Wood

EXHIBIT H

# Affidavit of Publication

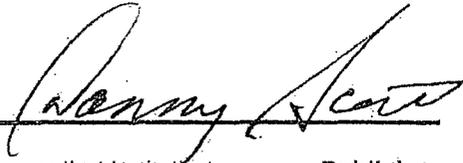
NO. 21995

# Copy of Publication:

STATE OF NEW MEXICO

County of Eddy:

Danny Scott



being duly sworn, says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached

### Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/days on the same

day as follows:

- First Publication January 29, 2012
- Second Publication \_\_\_\_\_
- Third Publication \_\_\_\_\_
- Fourth Publication \_\_\_\_\_
- Fifth Publication \_\_\_\_\_

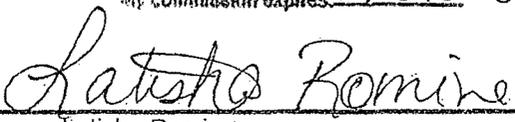
Subscribed and sworn to before me this

30th day of January 2012



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015



Latisha Romine  
Notary Public, Eddy County, New Mexico

**LEGAL NOTICE**

Apache Corporation is applying for a deeper saltwater disposal well. The Apache State SWD #1 will dispose into the Devonian and Ellenberger from 12,355' to 14,000'. It is located 3-1/2 miles east-southeast of Loco Hills at 660 FNL & 1980 FEL Sec. 36 T. 17 S. R. 30 E. Eddy County. Maximum disposal rate will be 20,000 bwpd. Maximum injection pressure will be 2,471 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 Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120. Published in the Artesia Daily Press, Artesia, N.M., Jan. 29, 2012. Legal No. 21995

EXHIBIT I

Injection Permit Checklist (11/15/2010)

WFX PMX (SWD 1271-A) Permit Date 5/25/12 UIC Qtr (A)(M/J)

# Wells 1 Well Name(s): APACHE STAGE SWD #1

API Num: 30-0 15-38977 Spud Date: 8/18/11 New/Old: N (UIC primacy March 7, 1982)

Footages 660 FNL / 1980 FEL Unit B Sec 36 Tsp 17S Rge 30E County EDDY

General Location:

Operator: APACHE CORP. Contact BRIAN WOOD

OGRID: 823 RULE 5.9 Compliance (Wells) 5/27/10 (Finan Assur) IS 5.9 OK? OK

Well File Reviewed Current Status: TAED

Planned Work to Well: Deepen, Run Liner, Drill OUT, Run TUBING

Diagrams: Before Conversion  After Conversion  Elogs in Imaging File:

Well Details:	Surface Interm LongSt OpenHole	Sizes	Setting	Stage	Cement	Determination
		Hole.....Pipe	Depths	Tool	Sx or Cf	Method
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/>	Surface	17 1/2 - 13 3/8	491'		520 SX	SURF
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/>	Interm	12 1/4 - 9 5/8	4490'		1475 SX	Surf
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/>	LongSt	8 3/4 - 7"	9704'		1490 SX	Surf (CEL)
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/>	OpenHole	6 1/8 - 4 1/2	13500'			
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/>	OpenHole	3 7/8	13500' - 14,250'			

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	12353	DEV	<input checked="" type="checkbox"/>
Injection TOP:	12355	Perfs	<input checked="" type="checkbox"/>
Injection BOTTOM:	14000 (G.H.)	ELbank	<input checked="" type="checkbox"/>
Formation(s) Below	13688	ELL	<input checked="" type="checkbox"/>
	14138	Coubin	<input checked="" type="checkbox"/>

SWD-1271 = WC/CISCO  
S. of T. 32 mi S, 1/185 30E

12355  
24710

Capitan Roof? (Potash? Noticed?) (WIPR? Noticed?) Salado Top/Bot 482-1448' Cliff House?

Fresh Water: Depths: < 285 Formation Quart. Wells? Dry Analysis? Affirmative Statement

Disposal Fluid Analysis? Sources: APACHE wells (mainly Yaso)

Disposal Interval: Analysis? Production Potential/Testing: not potential will turn in results later

Notice: Newspaper Date 1/29/12 Surface Owner SLO Mineral Owner(s) SLO/BLM

RULE 26.7(A) Affected Persons: OKY/Charm/BP/Fair/Concep/BLM/etc

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

.....Active Wells 0 Repairs? Which Wells?

.....P&A Wells 0 Repairs? Which Wells?  
What about SILVERIA/MONTGOMERY?

Issues: Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

30-025-3234 OK  
 30-025-26169 OK  
 J.R. PHILLIPS Co. COM #3  
 30-025-0432 OF