

10/8/2014 DATE IN	SUSPENSE	ENGINEER	10/08/2014 LOGGED IN	SWD TYPE	PMAM1428132514 APP NO.
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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



ED OOD

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

[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.

David Catanach
Print or Type Name

Signature

Date

Agent-Apache Corporation
Title

drcatanach@netscape.com
E-Mail Address

-SWD
-Apache Corporation
873
well
-Apache State
SWD #5
30-015-42519
Pool
-SWD Devonian-
Ellenbury cr
98044

2014 OCT - 8
8:26
RECEIVED OOD

October 8, 2014

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
Apache Corporation
Apache State SWD No. 5
API No. (30-015-42519)
430' FNL & 150' FWL, (Lot 1/Unit D)
Section 30, T-17S, R-31E, NMPM,
Eddy County, New Mexico

Dear Ms. Bailey,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) for the Apache Corporation Apache State SWD No. 5. Apache Corporation proposes to drill and utilize this well as a produced water disposal well, injection to occur into the Devonian and Ellenburger formations through the perforated interval from approximately 12,261 feet to 14,135 feet. Produced water from the Glorieta and Yeso formations originating from Apache Corporation operated wells in this area will be injected into the well.

I believe that all the information necessary to approve the application 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 _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ 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 _____ ☒ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: _____ David Catanach _____ TITLE: _____ Agent-Apache Corporation _____
SIGNATURE: _____ *David Catanach* _____ DATE: _____ 10/8/14 _____
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.

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-6723

District II
811 S. First St., Artesia, NM 88210
Phone (575) 749-1293 Fax (575) 749-6723

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3470 Fax (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 189452

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address APACHE CORP 303 Veterans Airpark Lane Midland, TX 79705		2. OGRID Number 873
4. Property Code 38598		3. API Number 30-015-42519
5. Property Name APACHE STATE SWD		6. Well No. 005

7. Surface Location									
UL - Lot	D	Section	30	Township	17S	Range	31E	Lot Idn	
								Feet From	430
								N/S Line	N
								Feet From	150
								EW Line	W
								County	Eddy

8. Proposed Bottom Hole Location									
UL - Lot	D	Section	30	Township	17S	Range	31E	Lot Idn	D
								Feet From	430
								N/S Line	N
								Feet From	150
								EW Line	W
								County	Eddy

9. Pool Information	
SWD:DEVONIAN-ELLENBERGER	98044

Additional Well Information				
11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3603
16. Multiple N	17. Proposed Depth 14135	18. Formation Ellenburger	19. Contractor	20. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program						
Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	450	600	
Int1	12.25	9.625	40	4500	1015	
Prod	8.75	7	26	14135	2500	

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program			
Type	Working Pressure	Test Pressure	Manufacturer
Hydnl	3000	2000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name: Electronically filed by Bobby Smith		Approved By: Randy Dade	
Title:		Title: District Supervisor	
Email Address: bobby.smith@apachecorp.com		Approved Date: 7/23/2014	
Date: 7/22/2014		Expiration Date: 7/23/2016	
Phone: 432-818-1020		Conditions of Approval Attached	

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 E. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Grande Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 E. 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, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

DAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code	Pool Name SWD; Devonian-Ellenburger
Property Code 38598	Property Name APACHE STATE SWD	
OGRID No. 873	Operator Name APACHE CORPORATION	Well Number 5 Elevation 3603'

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	17-S	31-E		430	NORTH	150	WEST	EDDY

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
Dedicated Acres 32.81	Joint or Infill	Consolidation Code	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

32.81 AC. 2 GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=659154.0' N X= 628271.3' E LAT.=32.811407' N LONG.=103.915831' W 32.02 AC.									
3 LAT.=32°48'41" N LONG.=103°54'57" W 33.02 AC.									
4 33.13 AC.									

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Michelle Cooper 7-21-14
 Signature Date
 Michelle Cooper
 Printed Name
 michelle.cooper@apachestateswd.com
 E-mail Address

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.

MAY 7, 2014

Date of Survey

07/10/2014

Certified by: Ronald J. Eidson 12641
 Surveyor: Ronald J. Eidson 3239
 LSL JWSC W.O. 14 13 0720

C-108 Application
Apache Corporation
Apache State SWD No. 5
430' FNL & 150' FWL (Lot 1/Unit D)
Section 30, T-17S, R-31E, NMPM
Eddy County, New Mexico

- I. The purpose of the application is to request approval to utilize the proposed Apache State SWD No. 5 as a produced water disposal well. This is a new well to be drilled for injection.
- II. Apache Corporation
303 Veterans Airpark Lane
Suite 3000
Midland, Texas 79705
Contact Party: David Catanach (505) 690-9453
- III. Injection well data sheet and wellbore schematic diagram showing the proposed wellbore configuration are attached.
- IV. This is not an expansion of an existing project.
- V. Attached is a map that identifies all wells/leases within a 2-mile radius of the proposed water disposal well and a map that identifies the ½ mile "Area of Review" ("AOR").
- VI. Attached is a list of all wells within the AOR that do not penetrate the injection interval. Well data on this list includes API No., operator, well name & number, well type and status, well location, and total depth. Also attached is a list of wells within the AOR that do penetrate the injection interval. An examination of this AOR data indicates that all wells within the AOR that penetrate the injection interval are constructed and/or plugged and abandoned so as to preclude the migration of fluid from the injection interval.
- VII.
 1. The average injection rate is anticipated to be approximately 8,000 BWPD. The maximum rate will be approximately 10,000 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
 2. This will be a closed system.
 3. Apache Corporation will initially inject water into the subject well at or below a surface injection pressure that is in compliance with the Division's limit of 0.2 psi/ft., or approximately 2,452 psi. If a surface injection pressure above 2,452 psi is necessary, Apache will conduct a

step rate injection test to determine the fracture pressure of the Devonian and Ellenburger formations in this area.

4. Produced water from the Glorieta and Yeso formations originating from Apache Corporation operated wells in this area will be injected into the subject well. Attached is a water analysis from Apache's Barnsdall Federal Well No. 1 which produces from the East Empire Glorieta-Yeso Pool, and a water analysis from Apache's D State No. 71 which produces from the Artesia Glorieta-Yeso Pool.
5. There are currently no Devonian or Ellenburger pools within one mile of the proposed Apache State SWD No. 5, and consequently, formation water samples are not available. The Devonian and Ellenburger formations are productive in numerous locations in Eddy and Lea Counties, and literature indicates that the water present in these formations is highly saline.

VIII. Geologic Formation: Devonian
Estimated Top: 12,261'
Thickness: 923'
Lithology: Carbonate

Geologic Formation: Ellenburger
Estimated Top: 13,184'
Thickness: 951'
Lithology: Dolomitic Limestone/Limestone

USDW's: According to data obtained from the New Mexico State Engineer, there are no fresh water well located within one mile of the Apache State SWD No. 5. Fresh water in this area occurs sporadic and is general 250 feet deep or shallower.

No
↓

- IX. If necessary, the well will be stimulated with a mild acid job.
- X. Logs will be filed subsequent to the completion of drilling operations.
- XI. There are no fresh water wells located within one mile of the Apache State SWD No. 5.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.

INJECTION WELL DATA SHEET

OPERATOR: Apache Corporation

WELL NAME & NUMBER: Apache State SWD No. 5 (API No. 30-015-42519)

WELL LOCATION:	430' FNL & 150' FWL	Lot 1/Unit D	30	17 South	31 East
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8" @ 450'

Cemented with: 600 Sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

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

Cemented with: 1015 Sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Production Casing

Hole Size: 8 3/4" Casing Size: 7" @ 14,135'

Cement with: 2500 sx. or ft³

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

Total Depth: 14,135'

Injection Interval

Perforated Interval – 12,261'-14,135'

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: 12,161' 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: Devonian & Ellenburger - see Log

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:

Grayburg Jackson SR-On-GB-SA Pool (3,600');

Proposed Wellbore Configuration

Apache Corporation
Apache State SWD No. 5
API No. 30-015-42519

430' FNL & 150' FWL (Lot 1/Unit D)
Section 30, T-17 South, R-31 East, NMPM

17 1/2" Hole; Set 13 3/8" 48# H-40 Csg @ 450'
Cement w/600 Sx. Circulate cement to surface

TOC @ 3,000' (Proposed)

12 1/4" Hole; Set 9 5/8" 40# J-55 & HCK-55 Csg @ 4,500'
Cement w/1015 Sx. Circulate cement to surface.

thru
Grayburg
&
SA

4 1/2" Duo-Lined Injection Tubing set in a
Model A Lockset Packer @ 12,161'

Formation Tops (Estimated):

Devonian 12,261

Ellenburger 13,184'

Devonian & Ellenburger

Injection Interval: 12,261'-14,135' (Perforated)

8 3/4" Hole; Set 7" 29# P-110 & HCL-80 Csg. @ 14,135'
Cement w/2500 Sx. Cement to a depth of 3,000'

T.D. 14,135'

30E

31E

24

19

17S

25

30

Fren Oil Company No. 21



$\frac{1}{2}$ Mile

Apache State
SWD No. 5

Apache State SWD No. 3
(Active SWD)



Apache Corporation

Form C-108: Apache State SWD No. 5

$\frac{1}{2}$ Mile Area-of-Review Map

(Note: Only Wells That Penetrate the Injection Interval Are Shown)

APACHE CORPORATION

FORM C-108: APACHE STATE SWD NO. 5

AREA OF REVIEW WELL LIST

WELLS THAT DO NOT PENETRATE INJECTION ZONE

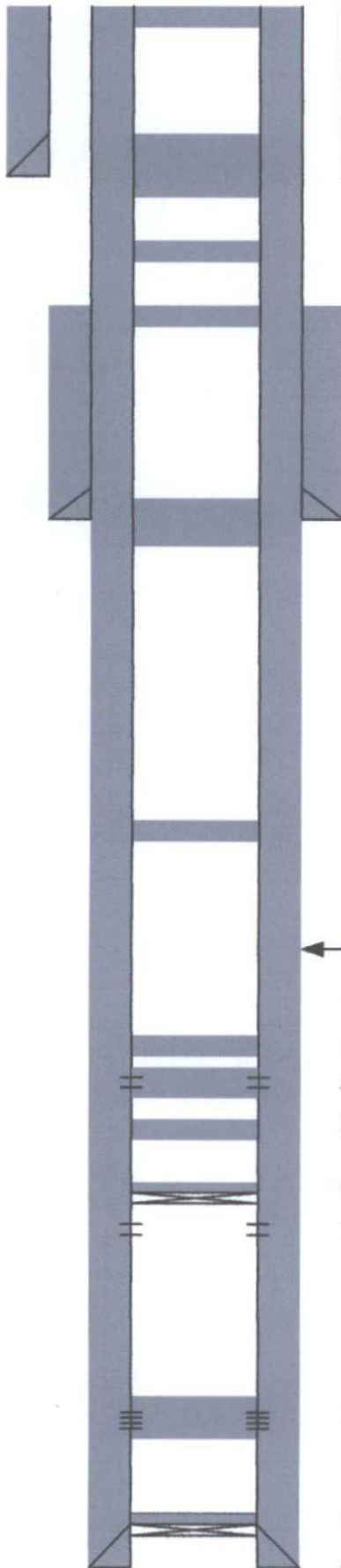
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	TOTAL DEPTH
30-015-05463	Glen Plemons	Friess Federal	1	P	PA	660'	N	1980'	W	C	30	17S	31E	3,202'
30-015-05466	Glen Plemons	Friess Federal	2	P	PA	1980'	N	1980'	W	F	30	17S	31E	2,100'
30-015-05467	Plemons & Hew	Friess	3	P	PA	336'	N	2970'	E	C	30	17S	31E	2,033'
30-015-05460	Mack Energy Corp.	Cedar Lake	1	P	PA	1980'	N	515'	W	E	30	17S	31E	3,336'
30-015-05464	Mack Energy Corp.	Cedar Lake	2	P	PA	660'	N	515'	W	D	30	17S	31E	2,044'
30-015-05465	Glen Plemons	Friess Federal	4	P	PA	1650'	N	1650'	W	F	30	17S	31E	3,342'
30-015-05477	Alamo Permian Res.	Cedar Lake	3Y	P	Active	330'	N	731'	W	D	30	17S	31E	3,423'
30-015-23934	Glen Plemons	Friess Federal	5	P	PA	330'	N	1411'	W	C	30	17S	31E	2,570'
30-015-39722	Alamo Permian Res.	Cedar Lake	4	P	Active	990'	N	330'	W	D	30	17S	31E	4,452'
30-015-41021	Alamo Permian Res.	Cedar Lake	5	P	NYD	1650'	N	825'	W	E	30	17S	31E	3,700'
30-015-04330	Burnett Oil Co., Inc.	Jackson B	10	P	PA	1980'	N	1980'	E	G	25	17S	30E	3,266'
30-015-04331	Burnett Oil Co., Inc.	Jackson B	11	I	Active	660'	N	1980'	E	B	25	17S	30E	3,355'
30-015-27750	Burnett Oil Co., Inc.	Jackson B	35	P	Active	100'	N	460'	E	A	25	17S	30E	3,280'
30-015-04314	Burnett Oil Co., Inc.	Jackson B	12	P	Active	1980'	S	539'	E	I	24	17S	30E	3,803'
30-015-04315	Burnett Oil Co., Inc.	Jackson B	13	P	Active	660'	S	539'	E	P	24	17S	30E	2,034'
30-015-10123	Burnett Oil Co., Inc.	Jackson B	25	P	Active	990'	S	660'	E	P	24	17S	30E	7,090'
30-015-20111	Burnett Oil Co., Inc.	Jackson B	28	P	Active	660'	S	1980'	E	O	24	17S	30E	3,220'
30-015-34586	EOG Resources, Inc.	Burnett Oil 24 Fed	2	P	PA	1680'	S	850'	E	I	24	17S	30E	11,562'
30-015-05250	Linn Operating, Inc.	Fren Oil Company	2	P	PA	660'	S	1980'	W	N	19	17S	31E	3,181'
30-015-05255	Linn Operating, Inc.	Fren Oil Company	7	I	Active	990'	S	2970'	E	N	19	17S	31E	3,312'
30-015-05264	Linn Operating, Inc.	Fren Oil Company	18	P	Active	1650'	S	3530'	E	K	19	17S	31E	7,135'
30-015-05266	Marbob Energy Corp.	Fren Oil Company	20	P	PA	900'	S	1980'	W	N	19	17S	31E	7,115'
30-015-05271	Mack Energy Corp.	State BK	1	P	PA	1980'	S	539'	W	L	19	17S	31E	3,597'
30-015-05272	Mack Energy Corp.	State BK	2	P	PA	660'	S	539'	W	M	19	17S	31E	3,568'
30-015-05274	Mack Energy Corp.	State BK	4	P	PA	990'	S	906'	W	M	19	17S	31E	1,982'
30-015-10167	Alamo Permian Res.	State BK	5	P	Active	1650'	S	330'	W	L	19	17S	31E	7,129'
30-015-39721	Alamo Permian Res.	State BK	8	P	Active	990'	S	330'	W	M	19	17S	31E	4,100'
30-015-41020	Alamo Permian Res.	State BK	9	P	PA	330'	S	875'	W	M	19	17S	31E	930'

APACHE CORPORATION
FORM C-108: APACHE STATE SWD NO. 5
AREA OF REVIEW WELL LIST
WELLS THAT PENETRATE INJECTION INTERVAL

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS
30-015-38978	Apache Corporation	Apache State SWD	3	SWD	Active	2300'	N	725'	W	E	30	17S	31E	Sep-11	13,943'	17 1/2"	13 3/8"	498'	822	Surface	Circ.	12 1/4"	9 5/8"	4,453'	1675	Surface	Circ.	13,045'-13,090' Perf.	Devonian/Ellenburger Completion
																						8 3/4"	7"	13,520'	1940	1,846'	CBL	13,520'-13,943' O.H.	7" csg. stage cemented. 1st-1360 sx. 2nd 580 sx. DV Tool @ 6,981'
30-015-10610	Premier Oil & Gas, Inc.	Fren Oil Company	21	P	PA	560'	S	1690'	W	N	19	17S	31E	Mar-65	12,278'	17 1/2"	13 3/8"	370'	300	Surface	Circ.	12 1/4"	9 5/8"	3,190'	300	2,307'	Calc.	11,142'-11,218' Perf.	Well PA'd 9/2007. Schematic Attached
																						8 3/4"	7"	12,275'	675	5,800' **	CBL		

** 7" csg. perforated @ 5,768'-5,770' & squeezed w/250 sx. TOC by T.S. @ 5,100'. 7" csg. perforated @ 5,050'-5,052' & squeeze w/795 sx. Cement circulated to surface.

Premier Oil & Gas, Inc.
 Fren Oil Company No. 21
 API No. 30-015-10610
 560' FSL & 1690' FWL (Unit N)
 Section 19, T-17 South, R-31 East, NMPM



25 sx. cmt. plug
 64'-surface

17 1/2" Hole; Set 13 3/8" csg @ 370'
 Cemented w/300 Sx.

✓ Cement circulated to surface

Set 35 sx. cmt. plug 240'-442'

Set 35 sx. cmt. plug 1,285'-1,502'

Set 35 sx. cmt. plug 2,300'-2,496'

Drilled: 3/1965

Plugged: 9/2007

12 1/4" Hole; Set 9 5/8" csg @ 3,190'
 Cemented w/300 sx.

TOC @ 2,307' by calc.

Set 35 sx. cmt. plug 3,102'-3,306'. Tagged

Set 35 sx. cmt. plug 4,600'-4,813'

← Original TOC behind 7" csg. @ 5,800' by CBL. 7" csg. perforated @ 5,768'-5,770' & squeezed w/250 sx. TOC @ 5,100' by T.S. 7" csg. perforated @ 5,050'-5,052' & squeezed w/795 sx. cmt. Cement circulated to surface.

Set 52 sx. cmt. plug 6,800'-7,040'

Abo Perforations 6944'-6,996'. Squeezed w/200 sx. cmt.

Set 50 sx. cmt. plug 8,000'-8249'

CIBP @ 8,570' w/25 sx. cmt. on top ✓

Wolfcamp Perforations: 8,606'-8,934' ✓

Morrow Perforations: 11,142'-11,218'. Squeezed w/75 sx. cmt. ✓

Set CIBP @ 11,980' + cmt. on top ✓

8 3/4" Hole; Set 7" csg. @ 12,275'
 Cemented w/675 Sx.

Original TOC @ 5,800' by CBL ✓

T.D. 12,278'

Apache Corporation
 Form C-108: Apache State SWD # 5
 PA Schematic
 Fren Oil Company No. 21

Fren Plugging

1. Rolled hole w/320 bbls 9.5 gel water
2. Spot 25 sx plug on top of plug @ 8570'
3. Set tubing @ 8249', spot 50 sx plug (covering top of Wolfcamp 8000-8250')
4. Set tubing @ 7039', spot 52 sx plug (covering top of Abo 6800-7040')
5. Set tubing @ 4813', spot 35 sx plug (covering top of Glorieta 4600-4813')
6. Set tubing @ 3306', spot 35 sx plug (covering interm csg. shoe 3306-3102')
7. Tag plug @ 3102'.
8. Set tubing @ 2496', spot 35 sx plug (covering top of Queen 2300-2496')
9. Set tubing @ 1502', spot 35 sx plug (covering base of salt 1285-1502')
10. Tag plug @ 1285'.
11. Set tubing @ 442', spot 35 sx plug (covering top of salt 240-442')
12. Tag plug @ 240'.
13. Set tubing @ 64', spot 25 sx plug to surface.
14. Install dry hole mark and clean location

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	APACHE CORPORATION	Sales RDT:	33512
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (575) 910-9389
Area:	LOCO HILL, NM	Sample #:	591238
Lease/Platform:	BARNSDALL FED	Analysis ID #:	118007
Entity (or well #):	1	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 591238 @ 75 F					
Sampling Date:	02/29/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/08/12	Chloride:	192973.0	5443.07	Sodium:	78507.9	3414.9
Analyst:	LEAH DURAN	Bicarbonate:	0.0	0.	Magnesium:	5531.0	455.
TDS (mg/l or g/m3):	310752.8	Carbonate:	0.0	0.	Calcium:	29849.0	1489.47
Density (g/cm3, tonne/m3):	1.208	Sulfate:	296.0	6.16	Strontium:	842.0	19.22
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.4	0.01
		Borate:			Iron:	20.0	0.72
		Silicate:			Potassium:	2733.0	69.89
Carbon Dioxide:	390 PPM	Hydrogen Sulfide:		34 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		5.2	Chromium:		
Comments:		pH at time of analysis:			Copper:		
RESISTIVITY: .008 OHM-M @ 400° F		pH used in Calculation:		5.2	Lead:		
					Manganese:	0.500	0.02
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	-5.28	0.00	-0.22	0.00	-0.15	0.00	-0.30	0.00	-0.54	0.00	0
100	0	-5.23	0.00	-0.30	0.00	-0.17	0.00	-0.32	0.00	-0.73	0.00	0
120	0	-5.21	0.00	-0.37	0.00	-0.16	0.00	-0.32	0.00	-0.90	0.00	0
140	0	-5.19	0.00	-0.43	0.00	-0.13	0.00	-0.32	0.00	-1.04	0.00	0

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

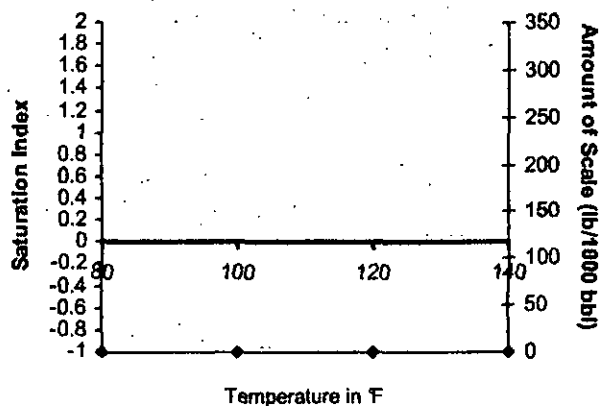
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

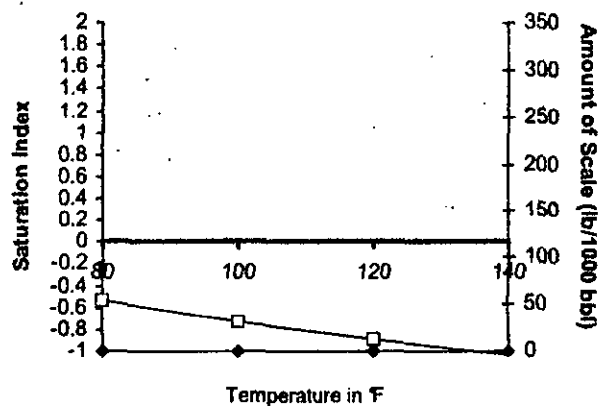
Scale Predictions from Baker Petrolite

Analysis of Sample 591238 @ 75 °F for APACHE CORPORATION, 03/08/12

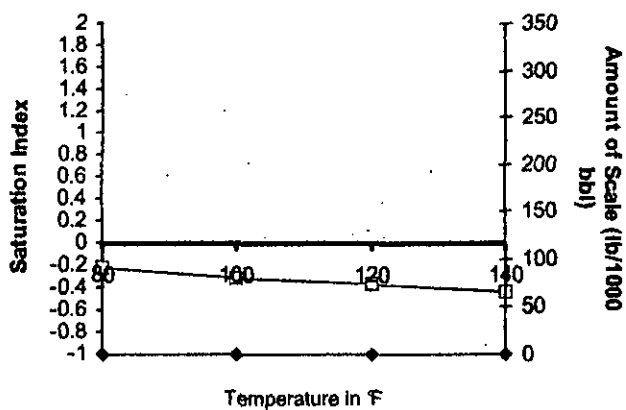
Calcite - CaCO_3



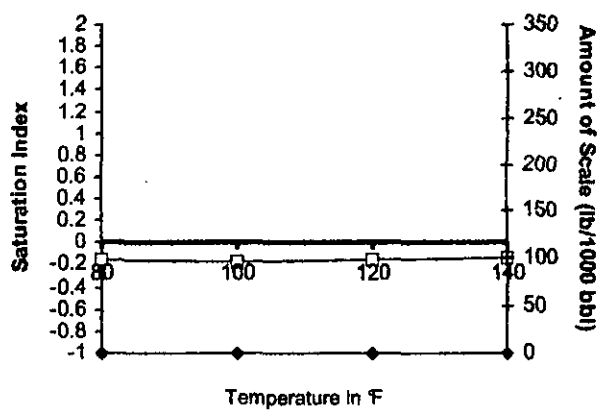
Barite - BaSO_4



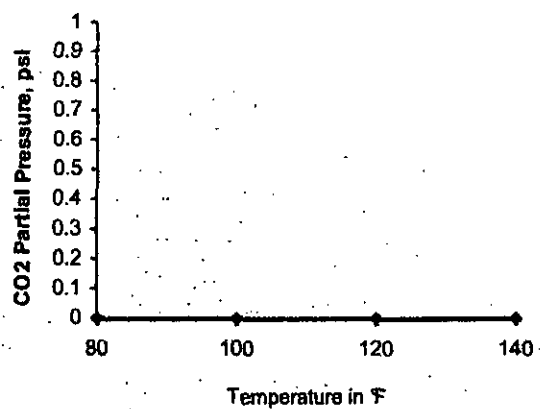
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



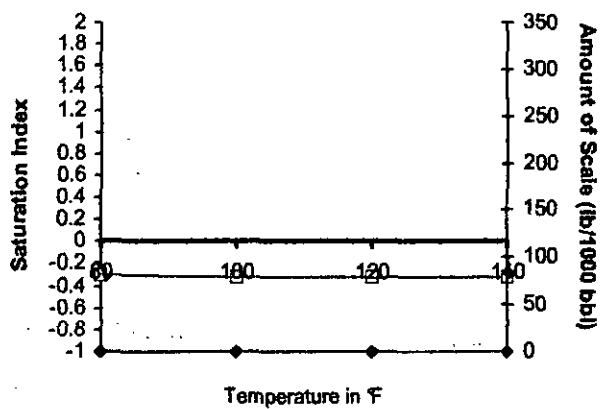
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	APACHE CORPORATION	Sales RDT:	33514
Region:	PERMIAN BASIN	Account Manager:	REGGIE GUY (575) 513-9135
Area:	ARTESIA, NM	Sample #:	629369
Lease/Platform:	D STATE	Analysis ID #:	125753
Entity (or well #):	71	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 629369 @ 75 F					
Sampling Date:	10/02/12	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	10/31/12	Chloride:	128179.0	3815.46	Sodium:	71732.3	3120.18
Analyst:	SANDRA GOMEZ	Bicarbonate:	353.8	5.8	Magnesium:	1993.0	163.95
TDS (mg/l or g/m3):	212303.4	Carbonate:	0.0	0.	Calcium:	6936.0	346.11
Density (g/cm3, tonne/m3):	1.142	Sulfate:	1899.0	39.54	Strontium:	187.0	4.27
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.1	0.
		Borate:			Iron:	12.0	0.43
		Silicate:			Potassium:	1011.0	25.86
Carbon Dioxide:	160 PPM	Hydrogen Sulfide:		17 PPM	Aluminum:		
Oxygen:	0 PPM	pH at time of sampling:		6.6	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.6	Lead:		
					Manganese:	0.200	0.01
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.77	31.10	0.04	89.03	0.07	120.70	0.10	23.68	-0.06	0.00	0.6
100	0	0.84	34.81	-0.04	0.00	0.06	100.44	0.08	17.69	-0.26	0.00	0.75
120	0	0.90	38.24	-0.10	0.00	0.07	118.99	0.06	14.27	-0.44	0.00	0.91
140	0	0.96	42.23	-0.16	0.00	0.11	168.92	0.06	13.13	-0.60	0.00	1.09

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

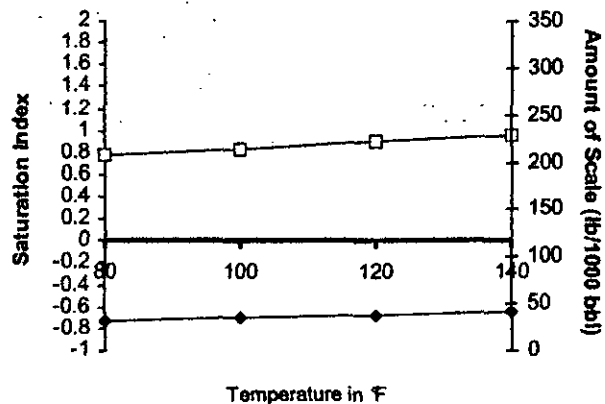
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

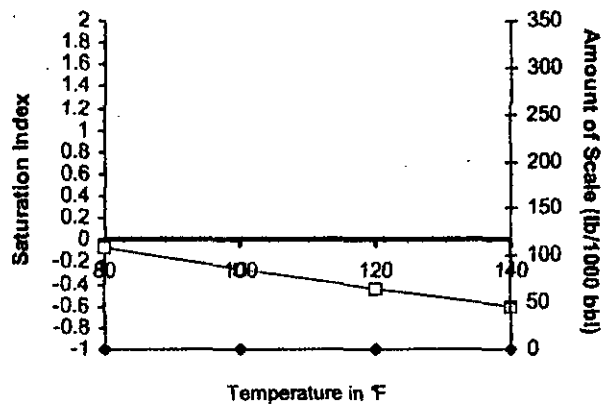
Scale Predictions from Baker Petrolite

Analysis of Sample 629369 @ 75 °F for APACHE CORPORATION, 10/31/12

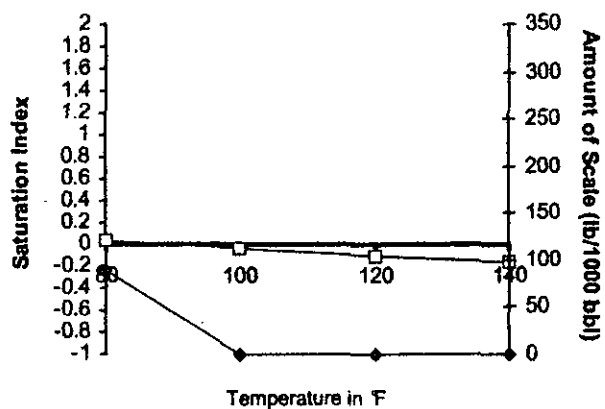
Calcite - CaCO_3



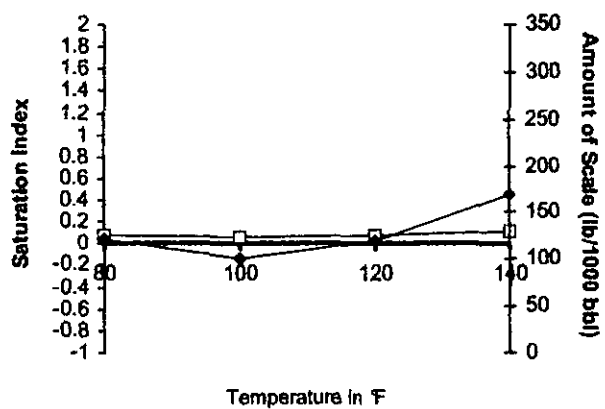
Barite - BaSO_4



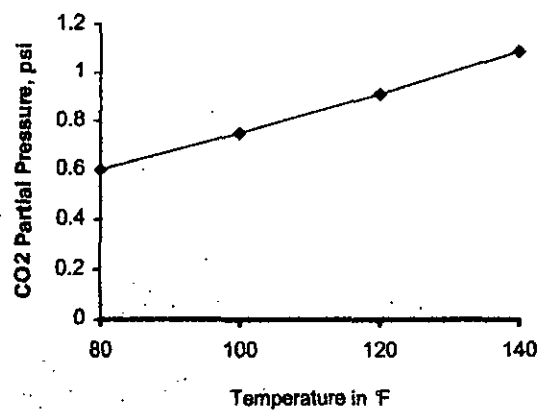
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



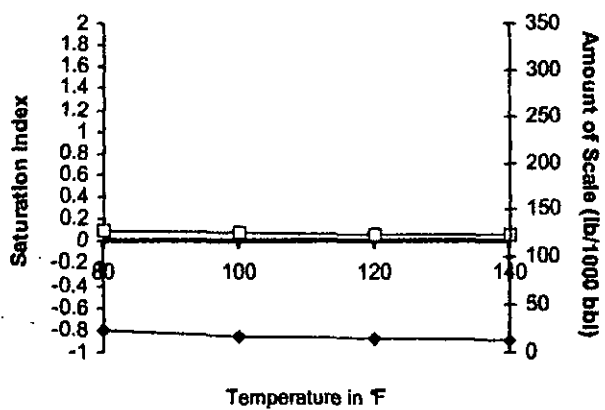
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4





New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 19, 30

Township: 17S

Range: 31E

20-17S/30E

Drw 80 ft

TD 85 ft

} Monitoring Well

Closest / Sec 32

310 wells

Unknown Drw - [55 to 158 ft well TD]

↳ HSA / no water

Apache Corporation

Form C-108: Apache State SWD # 5

Fresh Water Well Data

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.

8/15/14 6:57 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

PLSS Search:

Section(s): 24, 25

Township: 17S

Range: 30E

**Apache Corporation
Form C-108: Apache State SWD # 5
Fresh Water Well Data**

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.

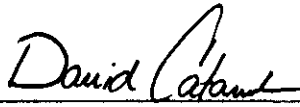
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Page 1 of 1

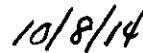
**WATER COLUMN/ AVERAGE
DEPTH TO WATER**

Form C-108
Affirmative Statement
Apache Corporation
Apache State SWD No. 5
Section 30, T-17 South, R-31 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



Date

October 8, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

**TO: OFFSET OPERATORS/LEASEHOLD OWNERS & SURFACE OWNER
(SEE ATTACHED NOTICE LIST)**

**Re: Apache Corporation
Form C-108 (Application for Authorization to Inject)
Apache State SWD No. 5
API No. 30-015-42519
430' FNL & 150' FWL, Lot 1/Unit D, Section 30, T-17S, R-31E, NMPM,
Eddy County, New Mexico**

Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Apache Corporation Apache State SWD No. 5. You are being provided a copy of the application as an offset operator/leaseholder or as the owner of the surface where the proposed well is located. Apache Corporation proposes to drill the Apache State SWD No. 5 and utilize the well as a produced water disposal well, injection to occur into the Devonian and Ellenburger formations through the perforated interval from approximately 12,261 feet to 14,135 feet.

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,



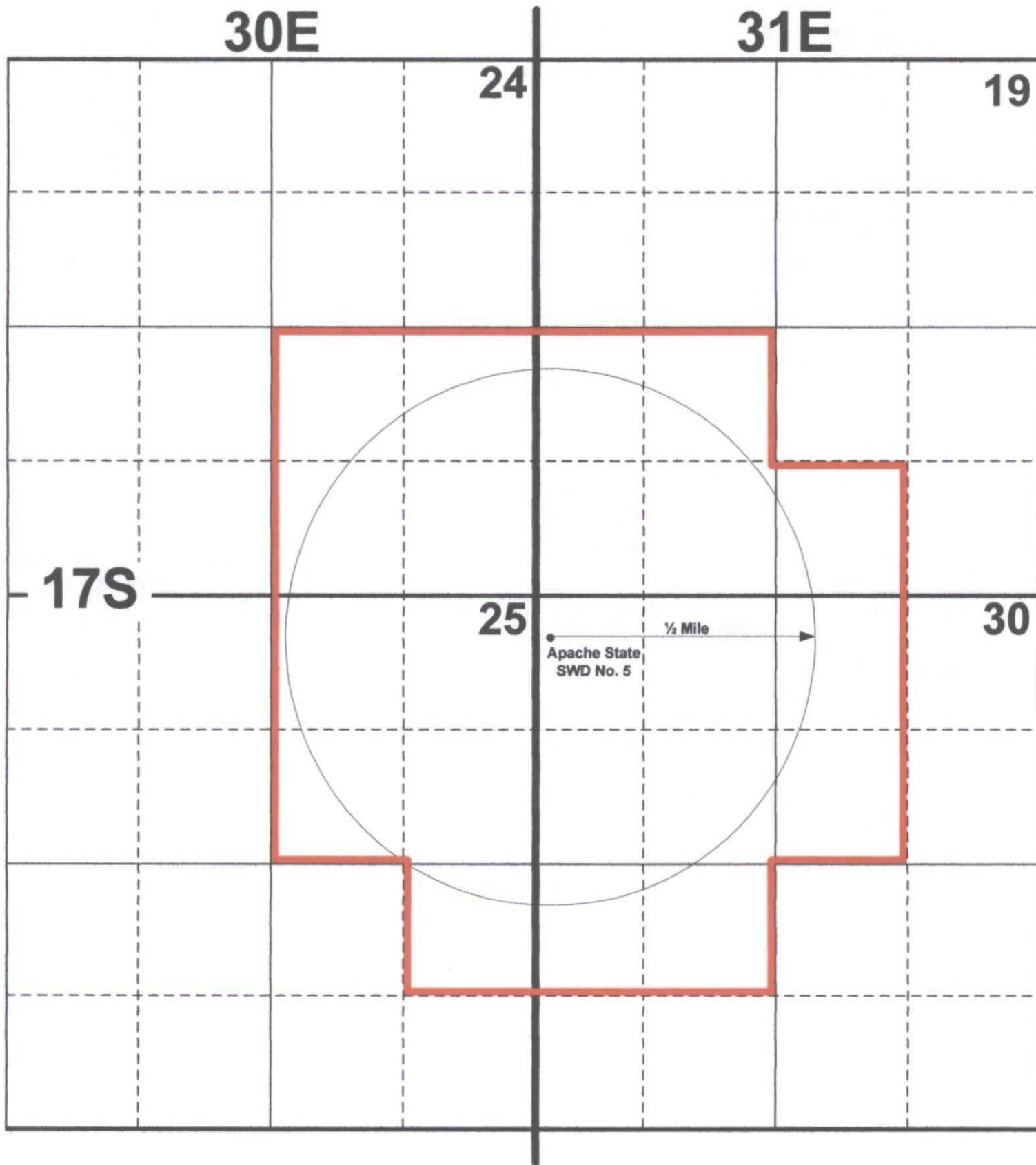
David Catanach-Agent
Apache Corporation
303 Veterans Airpark Lane, Suite 3000
Midland, Texas 79705

Enclosure

Apache Corporation
Form C-108: Apache State SWD No. 5
Notice List

All Leasehold Owners in the Devonian & Ellenburger Formations and all Operators Within a 1/2-Mile Radius of the Apache State SWD No. 5, and the Surface Owner at the Wellsite Will be Provided Notice of This Application

① ConocoPhillips Company P.O. Box 2197 Houston, Texas 77252	② Chisos, Ltd. 670 Dona Ana Road SW Deming, New Mexico 88030	③ Chase Oil Corporation P.O. Box 1787 Artesia, New Mexico 88211-1767
④ Jack & Glen Plemons P.O. Box 113 Lovington, New Mexico 88260	⑤ Devon Energy Prod. Co., LP 20 N. Broadway # 1500 Oklahoma City, OK 73102	⑥ Jay K. Armstrong, LP Box 2193 Wichita Falls, Texas 76307
⑦ Judah Oil P.O. Box 568 Artesia, New Mexico 88211-0568	⑧ McCombs Energy LLC 5599 San Felipe, #1220 Houston, Texas 77056-2724	⑨ Rorkes Drift, LLC P.O. Box 527 Artesia, New Mexico 88211-0527
⑩ Paloma Resources, Inc. P.O. Box 1814 Roswell, New Mexico 88202	⑪ Larry Jones & Premier Oil & Gas, Inc. P.O. Box 1246 Artesia, New Mexico 88210	⑫ Lothian Oil, Inc. 200 N. Loraine Midland, Texas 79701-4758
⑬ Enervest Energy Institutional Funds 1001 Fannin Street, Suite 800 Houston, Texas 77002-6707 Attn: Peter Tower	⑭ Ollie L. Burnett Trust Anne B. Tandy Estate & Anne B. Windfohr 801 Cherry Street, #1500 Fort Worth, Texas 76102-6869	⑮ Texas Reexploration Ltd., I 3025 Maxroy Houston, Texas 77008
⑯ Texas Refining & Exploration, LP 5701 Woodway, #110 Houston, Texas 77057	⑰ Yates Petroleum Corp. Abo Petroleum Corp. Myco Industries, Inc. 105 S. Fourth Street Artesia, New Mexico 88210	⑱ Burnett Oil Co. 801 Cherry Street, # 1500 Unit 9 Fort Worth, Texas 76102-6881
⑲ Chevron U.S.A, Inc. & Chevron U.S.A. Holdings, Inc. 15 Smith Road Midland, Texas 79705	⑳ EOG Resources, Inc. P.O. Box 4362 Houston, Texas 77210-4362	Bureau of Land Management 620 E. Greene St. Carlsbad, New Mexico 88220
㉑ Alamo Permian Resources 415 W. Wall St., Suite 500 Midland, Texas 79701	㉒ Linn Energy Holdings, LLC 600 Travis Street, Suite 5100 Houston, Texas 77002-3092	㉓ Oxy Y-1 Company P.O. Box 27570 Houston, Texas 77227-7570
Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504	Oil Conservation Division 811 S. First Street Artesia, New Mexico 88210	㉔ Hudson Oil Company of Texas 616 Texas Street Fort Worth, Texas 76102



— 1/2 Mile Notice Area

Apache Corporation
Form C-108: Apache State SWD No. 5
1/2 Mile Notice Area Map

Form C-108
Apache Corporation
Apache State SWD No. 5
Section 30, T-17 South, R-31 East, NMPM,
Eddy County, New Mexico

The following-described legal notice will be published 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 administrative approval to utilize its proposed Apache State SWD No. 5 (API No. 30-015-42519) to be drilled 430 feet from the North line and 150 feet from the West line (Lot 1/Unit D) of Section 30, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico and complete the well as a produced water disposal well in the Devonian and Ellenburger formations. Injection is to occur through the perforated interval from approximately 12,261 feet to 14,135 feet.

Produced water from the Glorieta & Yeso formations originating from Apache Corporation operated wells in this area will be injected into the Apache State SWD No. 5 at average and maximum rates of 8,000 and 10,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 2,452 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.

7013 2630 0000 9072 0545

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

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

HOUSTON TX 77008

Postage	\$ 2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Texas Reexploration Ltd.**
3025 Maxroy
Houston, Texas 77008

PS Form 3849, June 2009

7013 2630 0000 9072 0538

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

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

HOUSTON TX 77008

Postage	\$ 2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Texas Refining & Exploration, LP**
5701 Woodway, #110
Houston, Texas 77057

PS Form 3849, June 2009

7013 2630 0000 9072 0521

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

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

ARTESIA NM 88210

Postage	\$ 2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Yates Petroleum Corp.**
Abo Petroleum Corp.
Myco Industries, Inc.
105 S. Fourth Street
Artesia, New Mexico 88210

PS Form 3849, June 2009

7013 2630 0000 9072 0514

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

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

FORT WORTH TX 76102

Postage	\$ 2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Burnett Oil Co.**
801 Cherry Street, # 1500 Unit 9
Fort Worth, Texas 76102-6881

PS Form 3849, June 2009

7013 2630 0000 9072 0507

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

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

MIDLAND TX 79705

Postage	\$ 2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Chevron U.S.A. Inc.**
Chevron U.S.A. Holdings, Inc.
15 Smith Road
Midland, Texas 79705

PS Form 3849, June 2009

7013 2630 0000 9072 0491

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CARLSBAD NM 88220

Postage	\$ 2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Bureau of Land Management**
620 E. Greene St.
Carlsbad, New Mexico 88220

PS Form 3849, June 2009

7013 2630 0000 9072 0484

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OFFICIAL USE
 MIDLAND, TX 79701

Postage	\$2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	OCT 07 2014
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Alamo Permian Resources**
 Street, or PO: **415 W. Wall St., Suite 500**
 City, State, ZIP+4: **Midland, Texas 79701**

PS Form 3800, June 2009

7013 2630 0000 9072 0477

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OFFICIAL USE
 HOUSTON, TX 77002

Postage	\$2.03	0500
Certified Fee	\$3.30	05
Return Receipt Fee (Endorsement Required)	\$2.70	OCT 07 2014
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Linn Energy Holdings, LLC**
 Street, or PO: **600 Travis Street, Suite 5100**
 City, State, ZIP+4: **Houston, Texas 77002-3092**

PS Form 3800, June 2009

7013 2630 0000 9072 0569

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OFFICIAL USE
 HOUSTON, TX 77002-6707

Postage	\$2.03	0501
Certified Fee	\$3.30	03
Return Receipt Fee (Endorsement Required)	\$2.70	OCT -7 2014
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Enervest Energy Institutional Funds**
 Street, or PO: **1001 Fannin Street, Suite 800**
 City, State, ZIP+4: **Houston, Texas 77002-6707**
 Attn: Peter Tower

PS Form 3800, June 2009

7013 2630 0000 9072 0570

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OFFICIAL USE
 MIDLAND, TX 79701-4758

Postage	\$2.03	0501
Certified Fee	\$3.30	03
Return Receipt Fee (Endorsement Required)	\$2.70	OCT -7 2014
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Lothian Oil, Inc.**
 Street, or PO: **200 N. Loraine**
 City, State, ZIP+4: **Midland, Texas 79701-4758**

PS Form 3800, June 2009

7013 2630 0000 9072 0583

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OFFICIAL USE
 ARTESIA, NM 88210

Postage	\$2.03	0501
Certified Fee	\$3.30	03
Return Receipt Fee (Endorsement Required)	\$2.70	OCT -7 2014
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Larry Jones & Premier Oil & Gas, Inc.**
 Street, or PO: **P.O. Box 1246**
 City, State, ZIP+4: **Artesia, New Mexico 88210**

PS Form 3800, June 2009

7013 2630 0000 9072 0552

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OFFICIAL USE
 FORT WORTH, TX 76102-6869

Postage	\$2.03	0501
Certified Fee	\$3.30	03
Return Receipt Fee (Endorsement Required)	\$2.70	OCT -7 2014
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Ollie L. Burnett Trust**
 Street, or PO: **Anne B. Tandy Estate & Anne B. Windfohr**
 City, State, ZIP+4: **801 Cherry Street, #1500 Fort Worth, Texas 76102-6869**

PS Form 3800, June 2009

7013 2630 0000 9072 0606

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ARTESIA NM 88211

Postage \$ 2.03

Certified Fee 3.30

Return Receipt Fee (Endorsement Required) 2.70

Restricted Delivery Fee (Endorsement Required) 0.00

Total Postage & Fees \$ 8.03

10/07/2014

Sent **Rorkes Drift, LLC**
P.O. Box 527
Artesia, New Mexico 88211-0527

PS Form Instructions

7013 2630 0000 9072 0644

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ARTESIA NM 88211

Postage \$ 2.03

Certified Fee 3.30

Return Receipt Fee (Endorsement Required) 2.70

Restricted Delivery Fee (Endorsement Required) 0.00

Total Postage & Fees \$ 8.03

10/07/2014

Sent **Judah Oil**
P.O. Box 568
Artesia, New Mexico 88211-0568

PS Form Instructions

7013 2630 0000 9072 0651

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LOVINGTON NM 88260

Postage \$ 2.03

Certified Fee 3.30

Return Receipt Fee (Endorsement Required) 2.70

Restricted Delivery Fee (Endorsement Required) 0.00

Total Postage & Fees \$ 8.03

10/07/2014

Sent **Jack & Glen Plemons**
P.O. Box 113
Lovington, New Mexico 88260

PS Form Instructions

7013 2630 0000 9072 0620

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HOUSTON TX 77056

Postage \$ 2.03

Certified Fee 3.30

Return Receipt Fee (Endorsement Required) 2.70

Restricted Delivery Fee (Endorsement Required) 0.00

Total Postage & Fees \$ 8.03

10/07/2014

Sent **McCombs Energy LLC**
5599 San Felipe, #1220
Houston, Texas 77056-2724

PS Form Instructions

7013 2630 0000 9072 0644

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WICHITA FALLS TX 76307

Postage \$ 2.03

Certified Fee 3.30

Return Receipt Fee (Endorsement Required) 2.70

Restricted Delivery Fee (Endorsement Required) 0.00

Total Postage & Fees \$ 8.03

10/07/2014

Sent To **Jay K. Armstrong, LP**
Box 2193
Wichita Falls, Texas 76307

PS Form Instructions

7013 2630 0000 9072 0666

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ARTESIA NM 88211

Postage \$ 2.03

Certified Fee 3.30

Return Receipt Fee (Endorsement Required) 2.70

Restricted Delivery Fee (Endorsement Required) 0.00

Total Postage & Fees \$ 8.03

10/07/2014

Sent **Chase Oil Corporation**
P.O. Box 1787
Artesia, New Mexico 88211-1767

PS Form Instructions

7013 2630 0000 9072 0675

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DEMING NM 88030 **OFFICIAL USE**

Postage	\$ 2.03	0501
Certified Fee	\$3.30	06
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	OCT - 7 2014
Total	\$8.03	10/07/2014

Sent To: **Chisos, Ltd.**
670 Dona Ana Road SW
Deming, New Mexico 88030

PS Form 3800, August 2008

7013 2630 0000 9072 5021

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FORT WORTH TX 76102 **OFFICIAL USE**

Postage	\$ 2.03	0501
Certified Fee	\$3.30	06
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	OCT - 7 2014
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Hudson Oil Company of Texas**
616 Texas Street
Fort Worth, Texas 76102

PS Form 3800, August 2008

7013 2630 0000 9072 5014

U.S. Postal Service™
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HOUSTON TX 77210 **OFFICIAL USE**

Postage	\$ 2.03	0501
Certified Fee	\$3.30	06
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	OCT - 7 2014
Total	\$8.03	10/07/2014

Sent To: **EOG Resources, Inc.**
P.O. Box 4362
Houston, Texas 77210-4362

PS Form 3800, August 2008

2990 2206 0000 0092 E107

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

HOUSTON TX 77252 **OFFICIAL USE**

Postage	\$ 2.03	0501
Certified Fee	\$3.30	06
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	OCT - 7 2014
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **ConocoPhillips Company**
P.O. Box 2197
Houston, Texas 77252

PS Form 3800, August 2008

7013 2630 0000 9072 0590

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ROSWELL NM 88202 **OFFICIAL USE**

Postage	\$ 2.03	0501
Certified Fee	\$3.30	06
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	OCT - 7 2014
Total Postage & Fees	\$8.03	10/07/2014

Sent To: **Paloma Resources, Inc.**
P.O. Box 1814
Roswell, New Mexico 88202

PS Form 3800, August 2008

2990 2206 0000 0092 5038

U.S. Postal Service™
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For delivery information visit our website at www.usps.com

SANTA FE NM 87504 **OFFICIAL USE**

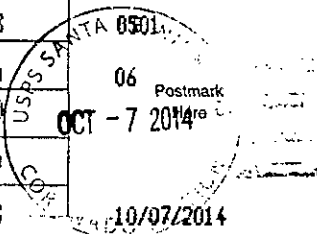
Postage	\$ 2.03	0501
Certified Fee	\$3.30	06
Return Receipt Fee (Endorsement Required)	\$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	OCT - 7 2014
Total	\$8.03	10/07/2014

Sent To: **Commissioner of Public Lands**
P.O. Box 1148
Santa Fe, New Mexico 87504

PS Form 3800, August 2008

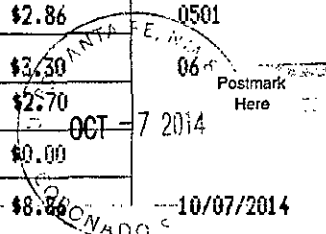
7013 2630 0000 9072 0453

U.S. POSTAL SERVICE CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information, visit our website at www.usps.com	
OKLAHOMA CITY OK 73102 OFFICIAL USE	
Postage	\$ 2.03
Certified Fee	\$3.30
Return Receipt Fee (Endorsement Required)	\$2.70
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total	\$8.03
Sent to: Devon Energy Prod. Co., LP 20 N. Broadway #1500 Oklahoma City, OK 73102	
PS Form 3800	Instructions



7013 2630 0000 9072 0460

U.S. POSTAL SERVICE CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information, visit our website at www.usps.com	
HOUSTON TX 77227 OFFICIAL USE	
Postage	\$ 2.86
Certified Fee	\$3.30
Return Receipt Fee (Endorsement Required)	\$2.70
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total	\$8.86
Sent to: Oxy Y-1 Company P.O. Box 27570 Houston, Texas 77227-7570	
PS Form 3800	Instructions



Affidavit of Publication

No. 23204

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/day on the same

day as follows:

First Publication

October 7, 2014

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Subscribed and sworn before me this

7th

day of October

2014



OFFICIAL SEAL
Latisha Romine

NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires:

5/12/2015

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

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 administrative approval to utilize its proposed Apache State SWD No. 5 (API No. 30-015-42519) to be drilled 430 feet from the North line and 150 feet from the West line (Lot 1/Unit D) of Section 30, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico and complete the well as a produced water disposal well in the Devonian and Ellenburger formations. Injection is to occur through the perforated interval from approximately 12,261 feet to 14,135 feet.

Produced water from the Glorieta & Yeso formations originating from Apache Corporation operated wells in this area will be injected into the Apache State SWD No. 5 at average and maximum rates of 8,000 and 10,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 2,452 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.

Published in the Artesia Daily Press, Artesia, N.M., October 7, 2014 Legal No. 23204



C-108 Review Checklist:

Received 10/18/14 Add. Request: Reply Date: Suspended: [Ver 15]ORDER TYPE: WFX / PMX / SWD Number: 1515 Order Date: 12/30/14 Legacy Permits/Orders: NoneWell No. 5 Well Name(s): Apache State SWDAPI: 30-015-42519 Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)Footages 430 FNL / 150 FWL Lot 1 or Unit — Sec 30 Tsp 17S Rge 31E County EddyGeneral Location: 4 miles east of loco Hills / 1/2 mi S of US82 Pool: Devonian-Silurian-Ord Pool No.: 98044BLM 100K Map: Hobbs Operator: Apache Corp. OGRID: 973 Contact: COMPLIANCE RULE 5.9: Total Wells: 2998 Inactive: 2 Fincl Assur: Rider Compl. Order? No IS 5.9 OK OK Date: 12/30/14WELL FILE REVIEWED ☒ Current Status: APD on file - no planWELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: new CBLPlanned Rehab Work to Well: Proposed Ellenburger - limited to top 100 ft

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Surface	17 1/2 / 13 3/8	0 to 450	600	Circulate to surf
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Interm/Prod	12 1/4 / 9 5/8	0 to 4500	1015	Circulate to surf
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Interm/Prod	8 3/4 / 7	0 to 13284	2500	Calculated
Planned <input type="checkbox"/> or Existing <input type="checkbox"/>	Prod/Liner	—	—	—	—
Planned <input type="checkbox"/> or Existing <input type="checkbox"/>	Liner	—	—	—	—
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	OH / PERF	8 3/4 / 7	12261 to 13284	Inj Length 1023	Completion/Operation Details:
Injection: Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	
Adjacent Unit: Litho. Struc. Por.			Mississippian		Drilled TD <u>—</u> PBTD <u>—</u>
Confining Unit: <u>Litho</u> Struc. Por.		<u>φ</u>	Woodford shale		NEW TD <u>13284</u> NEW PBTD <u>13284</u>
Proposed Inj Interval TOP:		<u>12261</u>	Devonian	<u>12261</u>	NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>
Proposed Inj Interval BOTTOM:		<u>13284</u>	Silurian		Tubing Size <u>4 1/2</u> in. Inter Coated? <u>Yes</u>
Confining Unit: Litho. Struc. Por.		<u>top 100' limit</u>	Ellenburger / ord	<u>13184</u>	Proposed Packer Depth <u>12161</u> ft
Adjacent Unit: Litho. Struc. Por.			DE wash		Min. Packer Depth <u>12161</u> (100-ft limit)
AOR: Hydrologic and Geologic Information					
POTASH: R-111-PNA Noticed? <u>NA</u> BLM Sec Ord <u>NA</u> WIPP <u>NA</u> Noticed? <u>NA</u> Salt/Salado T: <u>—</u> B: <u>—</u> NW: Cliff House fm <u>NA</u>					
FRESH WATER: Aquifer: <u>Roswell / alluvial</u> Max Depth <u>2100</u> HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>					
NMOSE Basin: <u>Roswell Artesian</u> CAPTAIN REEF: thru <input type="checkbox"/> adj <input type="checkbox"/> <u>NA</u> No. Wells within 1-Mile Radius? <u>φ</u> FW Analysis <u>NA</u>					
Disposal Fluid: Formation Source(s) <u>Gleneta & Yesso</u> Analysis? <u>Yes</u> On Lease <input type="checkbox"/> Operator Only <input checked="" type="checkbox"/> or Commercial <input type="checkbox"/>					
Disposal Int: Inject Rate (Avg/Max BWPD): <u>8000/10000</u> Protectable Waters? <u>UNK</u> Source: <u>- assumption</u> System: Closed <input checked="" type="checkbox"/> or Open <input type="checkbox"/>					
HC Potential: Producing Interval? <u>No</u> Formerly Producing? <u>No</u> Method: Logs/DST/P&A/Other <u>hist / logs</u> 2-Mile Radius Pool Map <input checked="" type="checkbox"/>					
AOR Wells: 1/2-M Radius Map? <u>Yes</u> Well List? <u>Yes</u> Total No. Wells Penetrating Interval: <u>1</u> Horizontals? <u>φ</u>					
Penetrating Wells: No. Active Wells <u>φ</u> Num Repairs? <u>φ</u> on which well(s)? <u>—</u> Diagrams? <u>NA</u>					
Penetrating Wells: No. P&A Wells <u>1</u> Num Repairs? <u>φ</u> on which well(s)? <u>—</u> Diagrams? <u>Yes</u>					
NOTICE: Newspaper Date <u>10/07/14</u> Mineral Owner <u>SLO</u> Surface Owner <u>SLO</u> N. Date <u>10/07/14</u>					
RULE 26.7(A): Identified Tracts? <u>Yes</u> Affected Persons: <u>24 parties - oil companies / trusts / individual / BLM</u> N. Date <u>10/07/14</u>					

Order Conditions: Issues: Limit Ellenburger; unknown HC potential; protectable

Add Order Cond: Set depth limits; CBL for 7-inch; salinity calc; medlog for HC potential