

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

NM 0557371

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well☐ Gas Well☒ Other2. Name of Operator
Apache Corporation (873)3a. Address
303 Veterans Airpark Lane, Suite 1000
Midland, TX 79705

3b. Phone No. (include area code)

432/818-1062

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NENW1, 18S 27E, NMP, Eddy County, NM.

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
AAO Federal #2

9. API Well No.

30-015-32308

10. Field and Pool or Exploratory Area

11. County or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletable in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

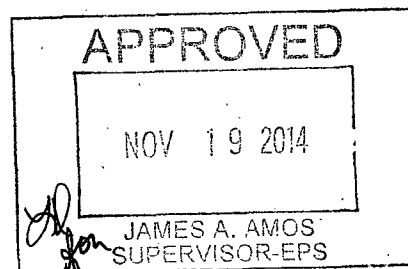
Please see attached for requested water disposal information.

12/19/14
Accepted for record
NMOCD

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 03 2014

RECEIVED

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Kathy Erskine

Title Production Accounting Associate

Signature

Kathy Erskine

Date

5/20/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

WATER PRODUCTION & DISPOSAL INFORMATION

In order to process your disposal request, the following information must be completed.

1. Name(s) of formation(s) producing water on the lease.

Glorietta Yeso, Queens, Grayburg, San Andres

2. Amount of water produced from all formations in barrels per day.

477 bbls./day

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled).

see attached

4. How water is stored on lease.

500 bbl. fiberglass tanks

5. How water is moved to the disposal facility.

Trucked

6. Identify the Disposal Facility by:

A. Facility Operators name.

Various public disposals

B. Name of facility or well name and number.

C. Type of facility or well (WDW) (WIW) etc.

D. Location by $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, **620 EAST GREENE ST, CARLSBAD NM, 88220**, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice).

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121

Lab Team Leader - Sheila Hernandez
(432) 495-7240

SCALE DEPOSIT ANALYSIS

Company:	APACHE CORPORATION	Sample #	624124
Region:	PERMIAN BASIN	Sales RDT:	33514
Area:	ARTESIA, NM	Account Manager	REGGIE GUY (575) 513-9135
Lease/Platform:	A A O FEDERAL	Analysis ID #:	30821
Entity (or well #):	5	Analyst:	LEAH DURAN
Formation:	UNKNOWN	Analysis Dat	08/09/12
Sample Point:	WELLHEAD	Analysis Cost	\$70.00
Sample Date:	07/20/12		

PHYSICAL CHARACTERISTICS

Color, size and texture: BLACK AND WHITE, 2" x 1" x 1/4" PIECES

Moisture: ☒ wet (dry if blank)

Oil coated: ☒ yes (no if blank)

Magnetic: ☐ yes (no if blank)

Cold 15% HCl reaction: ☒ yes (no if blank)

H₂S content: ☒ yes (no if blank)

Loss at 900°C: 33% (i.e. organics, paraffin, asphaltenes, sulfur).

64% of the sample was soluble by digestion in hot hydrochloric acid and EDTA.

2% of the sample was acid insoluble.

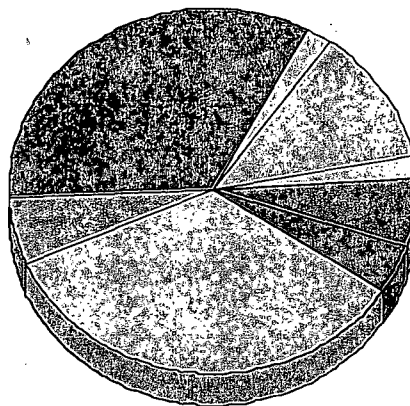
The soluble ash was made up of the following components:

Calcium:	9%	Barium:	<1 %	Iron:	4%	Sulfate:	13%
Magnesium:	<1 %	Strontium:	<1 %	Sodium:	20%		

INSUFFICIENT INSOLUBLES REMAIN FOR DISCUSSION

Most Probable Composition:

BaSO ₄	0%
CaSO ₄	12%
SrSO ₄	0%
MgSO ₄	0%
CaMg(CO ₃) ₂	2%
CaCO ₃	6%
FeS	4%
NaCl	34%
Other	6%
Organic	33%
Insoluble	2%



BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Disposal of Produced Water From Federal Wells
Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency shall be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
6. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
7. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.
8. Disposal at any other site will require prior approval.
9. Subject to like approval by NMOCD.

7/10/14