Form 3160-3 (March 2012)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2014

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
phandoned well. Use Form 3160-3 (APD) for such proposals

		o drill or to re-enter an PD) for such proposal		i, Anottee of Tribe Name
SUBMIT	N TRIPLICATE - Other i	instructions on page 2.	7. If Unit o	of CA/Agreement, Name and/or No.
Type of Well		,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	i	
Oil Well Gas Wel	I ✓ Other	8. Well Na E L Fede	ame and No. ral #5	
2. Name of Operator Apache Corporation (873)			9. API We	II No. 30-015-30259
Ba. Address 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705	*	3b: Phone No. <i>(include area co.</i> 432/818-1062	de) 10. Field a	and Pool or Exploratory Area
Location of Well (Footage, Sec., T.,R.,	M., or Survey Description)		11. County	y or Parish, State
IENE21, 17S 30E, NMP, Eddy County, NM				· ·
12. CHECK	THE APPROPRIATE BOX	X(ES) TO INDICATE NATURI	E OF NOTICE, REPOR	T OR OTHER DATA
TYPE OF SUBMISSION	· · · · · · · · · · · · · · · · · · ·	TY	PE OF ACTION	
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Construction	Production (Start Reclamation Recomplete	/Resume)
Subsequent Report	Change Plans	Plug and Abandon	Temporarily Aba	endon
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal	· <u> </u>
determined that the site is ready for f	ter disposal information.	CONSERVATION ESIA DISTRICT JL 2 5 2014		IPD 7-29-19 Accepted for record MMOCD
		RECEIVED		
			() 	SEE ATTACHED FOR CONDITIONS OF APPROVAL
4. I hereby certify that the foregoing is true	and correct. Name (Printed	VTyped)		<u> </u>
Kathy Erskine		Title Producti	on Accounting Associ	ate
Signature Kathy Cr	kine	Date 5/2	0/12/	ADDROVED
	THIS SPACE	OR FEDERAL OR ST	ATE OFFICE US	EMPTROVED
Approved by conditions of approval, if any, are attached not the applicant holds legal or equitable title				JUL 1 8 2014 JAMES A. AMOS

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 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. Clorieta Paddock, Blinebry Tubb
2.	Amount of water produced from all formations in barrels per day. 393 665 / 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).
4.	How water is stored on lease. 500 bbl. fiberglass tanks
5.	How water is moved to the disposal facility.
	By pipeline
6 .	Identify the Disposal Facility by: A. Facility Operators name. Apachee Corporation
,	B. Name of facility or well name and number. EL Federal #8
	C. Type of facility or well (WDW) (WIW) etc. WDW - 5wb-748
	D. Location by ¼ ¼ _ 21 Section 175 Township 30E 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

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 #:	657111
Lease/Platform:	E.L. FEDERAL	Analysis ID #:	132818
Entity (or well #):	11	. Analysis Cost:	\$90.00
Formation:	UNKNOWN	:	,
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 657111 @ 75 ℉							
Sampling Date:	4/30/2013	Anions	mg/l	meq/i	Cations	mg/l	meq/l		
Analysis Date:	5/29/2013	Chloride:	130000.0	3666.83	Sodium:	76761.3	3338.93		
Analyst: ' SANI	DRA GOMEZ	Bicarbonate:	368.0	6.03	Magnesium:	1023.0	84.16		
TDC (max() == m/m2).	. 216455	Carbonate:	0.0	0.	Calcium:	5294.0	264.17		
TDS (mg/l or g/m3):	· ·	Sulfate:	1959.0	40.79	Strontium:	177.0	4.04		
Density (g/cm3, tonne/m3) Anion/Cation Ratio:	1 1	Phosphate:	ŕ	}	Barium:	0.1	0.		
		Borate:			Iron:	3.5	0.13		
		Silicate:		i	Potassium:	869.0	22.22		
			•		Aluminum:	•			
Carbon Dioxide:	100 PPM	Hydrogen Sulfide:		17 PPM	Chromium:	•			
Oxygen:	İ	pH at time of sampling:		5.9	Copper:				
Comments:				5.9	Lead:				
RESISTIVITY .044 OHM-M @ 75°		pH at time of analysis:		,	Manganese:	0.050	· . 0.		
		pH used in Calculation	n:	5.9	Nickel:	•			
		. *							

Cond	tions	Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.		alcite aCO ₃	Gyp: CaSO	sum 4 ^{*2H} 2 0		ydrite aSO ₄		estite 'SO ₄		rite ISO ₄	CO ₂ Press
F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	index	Amount	psi
80	0	0.02	1.14	-0:04	0.00	-0.01	0.00	0.10	21.32	-0.04	0.00	3.24
100	0	0.10	7.11	-0.13	0.00	-0.03	0.00	0.07	15.07	-0.25	0.00	3.9
120	0	0.18	13.08	-0.20	0.00	-0.02	0.00	0.05	11.09	-0.43	0.00	4.54
140	0	0.27	19.05	-0.26	0.00	0.01	16.21	0.04	9.38	-0.59	0.00	5.13

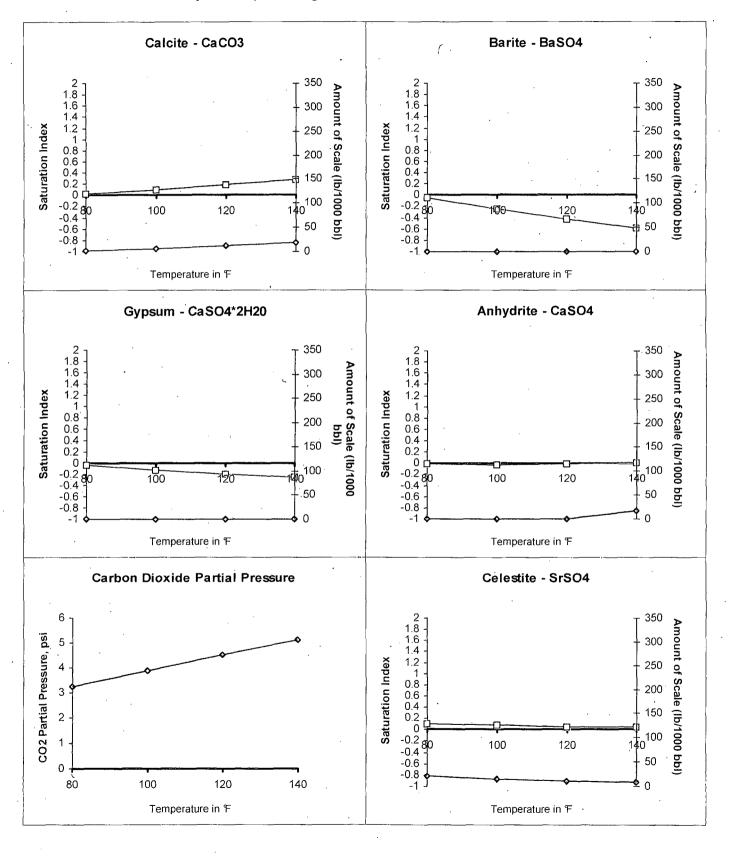
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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 657111 @ 75 F for APACHE CORPOR ATION, 5/29/2013



Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

Operator Copy

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

5. Lease Serial No. 04679 NMNM-467932 6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

	• •	PD) for such proposa		,			
SUBMI	T IN TRIPLICATE – Other	7. If Unit of CA/Agreement, Name and/or No.					
1. Type of Well				N/A			
Oil Well Gas W	/ell ☑ Other sal	8. Well Name and No. E L Federal 8					
2. Name of Operator Apache Corporation		9. API Well No. 30-015-30262					
3a. Address	. T.V. 70.70F	ode)	10. Field and Pool or Exploratory Area				
303 Veterans Airpark Lane, Suite 3000, Midland	1, 1 X 79705	(432) 818-1052		SWD; Paddock			
4. Location of Well (Footage, Sec., T., 380 FSL & 990 FEL SEC. 21, T. 17 S., R. 30 E.	R.M., or Survey Description,)		11. Country or Parish, State			
380 FSL & 990 FEL SEG, 21, 1, 17 S., H. 30 E.	., NMPM	Eddy County, NM					
12. CHEC	K THE APPROPRIATE BO	X(ES) TO INDICATE NATUR	E OF NOTIC	E, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TY	YPE OF ACT	ЮИ	1		
✓ Notice of Intent	Acidize	Deepen Deepen	Produ	uction (Start/Resume)	Water Shut-Off .		
[A] Mance of titient	Alter Casing	Fracture Treat	Recla	nuntion	Well Integrity		
C Sul Paned	Casing Repair	New Construction	Reco	mplete	Olher CHANGE TOUDE		
Subsequent Report	Change Plans	Plug and Abandon	Temp	oorarily Abandon	TO TAKE OFF LEASE		
Final Abandonment Notice	Convert to Injection	Plug Back	☐ Wate	r Disposal	WATER		
13. Describe Proposed or Completed Or	neration: Clearly state all per	tinent details, including estimate	ed starting dat	te of any proposed worl	and approximate duration thereof. It		

the proposal is to deepen directionally or recomplete 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 recompletion 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.)

Request permission to dispose of water from off lease. SF-299 is being filed simultaneously with this Sundry for a salt water disposal easement. Water will come from Apache's Yeso wells in Sections 3-10, T. 17 S., R. 31 E. Approved by NMOCD's Will Jones on 7-5-12. SWD -748

SEE ATTACHED FOR CONDITIONS OF APPROVAL

cc: Hardin 14. Thereby certify that the foregoing is true and correct. Name (Printed/Typed) BRIAN WOOD Title CONSULTANT (505 466-8120) Date 09/03/2012 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by 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 Office entitle the applicant to conduct operations thereon.

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.

Bureau of Land Management

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

Conditions of Approval

September 16, 2012 .

Apache Corporation E L Federal 8 NM0467932 3001530262

1. Submit for Right Of Way for water disposal well if you have not already done so.

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