

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**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.  
NMLC029426A

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

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

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
CEDAR LAKE FEDERAL CA 410H

2. Name of Operator  
APACHE CORPORATION  
Contact: EMILY FOLLIS  
E-Mail: Emily.Follis@apachecorp.com

9. API Well No.  
30-015-43521-00-X1

3a. Address  
303 VETERANS AIRPARK LANE SUITE 3000  
MIDLAND, TX 79705

3b. Phone No. (include area code)  
Ph: 432-818-1801

10. Field and Pool or Exploratory Area  
CEDAR LAKE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 4 T17S R31E NENE 1083FNL 959FEL

11. County or Parish, State  
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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"/> Hydraulic Fracturing	<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 checked="" type="checkbox"/> Other Production Start-up
	<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 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 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.

Apache completed the work as follows: RR 06/06/17 TOC@10'

08/28/17 MIRU DOUBLE R KILL TRUCK TEST CSG TO 5000 PSI, HELD FOR 30 MIN. TEST GOOD RDMO KILL TRUCK  
08/29/17 MIRU RENEGADE WL PU RIH W/CBL-CNL LOG FROM 5136' TO SURF. EST CEMENT TOP @ 10'. RDMO  
08/30/17 MIRUSU & REVERSE UNIT NU BOP  
10/24/17 ALL PARTIES, SAFETY MEETING  
10/26-10/27/17 START FRAC (20 STAGES) (6075-11,376') ELITE

TOTAL ACID 2,363 BBL  
TOTAL SAND 3,789,700 #

11/11/17 MIRU DRIL OUT SEATS

RECEIVED

APR 19 2018

BC 4-23-18  
Accepted for record - NMOCD

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #400012 verified by the BLM Well Information System  
For APACHE CORPORATION, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 01/08/2018 (18PP0697SE)

Name (Printed/Typed) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/08/2018

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____	ACCEPTED FOR RECORD Date APR 13 2018
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) <b>** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED</b>		

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

**Additional data for EC transaction #400012 that would not fit on the form**

**32. Additional remarks, continued**

11/12/1 CIRC WELL CLEAN, COMPLETE RD AND MOVE OFF

12/06/17 MIRU RACK & TALLY TBG RIH W/TBG POH W/TBGS SDFN

12/07/17 HAD TO CANCEL ESP DUE TO WEATHER

12/09/17 RAN ESP

12/14/17 BUILD WELL HEAD, INSTALL ELECTRICAL & AUTOMATION, START UP WELL - POP

**Well Info**

Legal Well Name: CEDAR LAKE FEDERAL CA 409H  
 AP/Surface Loc: 3001543520  
 Spud Date: 1/8/2018  
 Original Drilling Rig Release: 1/21/2018  
 Country: United States Target Formation: Upper Boney  
 State/Province: New Mexico Field Name: Cedar Lake Glendon  
 Yaso

Surface Legal Location: SEC 4 T17S R31E  
 North/South Distance (ft): 1,108 North/South Reference: N  
 East/West Distance (ft): 963 East/West Reference: E

Bottom Hole Location:  
 Bottom Hole Legal Location: SEC 4 T17-S, R 31-E  
 CEDAR LAKE FEDERAL CA 409H - Original Hole  
 North-South Distance (ft): 425 From N or S Line: N  
 CEDAR LAKE FEDERAL CA 409H - Original Hole  
 East-West Distance (ft): 356 From E or W Line: E  
 Original KB Elevation (ft): 3,967.0  
 Ground Elevation (ft): 3,956.0

KB-Ground Distance (ft): 11.0  
 Total Depth (ft) (RKB): Original Hole - 9,515.0  
 Total Depth AS (ft) (RKB): Original Hole - 5,557.6

**Cement Info**

Surface, 669.00RKB, 13 3/8

Stage Number	Top Depth (ft) (RKB)	Bottom Depth (ft) (RKB)
1	71.00	660.00

Top Measurement Method  
 Returns at Surface

Obj	Yield (ft <sup>3</sup> /sack)	Amount (sacks)	Vol Pumped (bbl)
Lead	1.33	600	143.0

Inter 1, 3,600.00RKB, 9 5/8

Stage Number	Top Depth (ft) (RKB)	Bottom Depth (ft) (RKB)
1	11.00	3,500.00

Top Measurement Method  
 Returns at Surface

Obj	Yield (ft <sup>3</sup> /sack)	Amount (sacks)	Vol Pumped (bbl)
Lead	1.66	1,100	324.0
Tail	1.32	300	71.0

Prod 1, 8,438.00RKB, 7

Stage Number	Top Depth (ft) (RKB)	Bottom Depth (ft) (RKB)
1	11.00	3,024.00

Top Measurement Method  
 Returns at Surface

Obj	Yield (ft <sup>3</sup> /sack)	Amount (sacks)	Vol Pumped (bbl)
Lead	1.99	450	139.0
Tail	1.44	210	74.0

Prod 1: 7 in; L-80; 29.00 lb/ft; 9,498.00 RKB

Tubing - ESP; 2 7/8 in; J-55, N-80; 6.50 lb/ft; 5,439.10 RKB

Float Collar; 9 5/8 in; J-55; 40.00 lb/ft; 3,454.67 RKB

Inter 1; 9 5/8 in; J-55; 40.00 lb/ft; 3,500.00 RKB

Surface; 13 3/8 in; H-40; 48.00 lb/ft; 660.00 RKB

Conductor; 20 in; J-55; 106.50 lb/ft; 91.00 RKB

26 in

17 1/2 in

12 1/4 in

8 1/2 in

Directional schematic (actual)

Production - CEDAR LAKE FEDERAL CA 409H - Original Hole, 1/8/2018 9:46:54 AM

26 in

17 1/2 in

12 1/4 in

8 1/2 in

Directional schematic (actual)

Production - CEDAR LAKE FEDERAL CA 409H - Original Hole, 1/8/2018 9:46:54 AM

26 in

17 1/2 in

12 1/4 in

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Directional schematic (actual)

Production - CEDAR LAKE FEDERAL CA 409H - Original Hole, 1/8/2018 9:46:54 AM

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Directional schematic (actual)

Production - CEDAR LAKE FEDERAL CA 409H - Original Hole, 1/8/2018 9:46:54 AM

26 in

17 1/2 in

12 1/4 in

8 1/2 in

Directional schematic (actual)

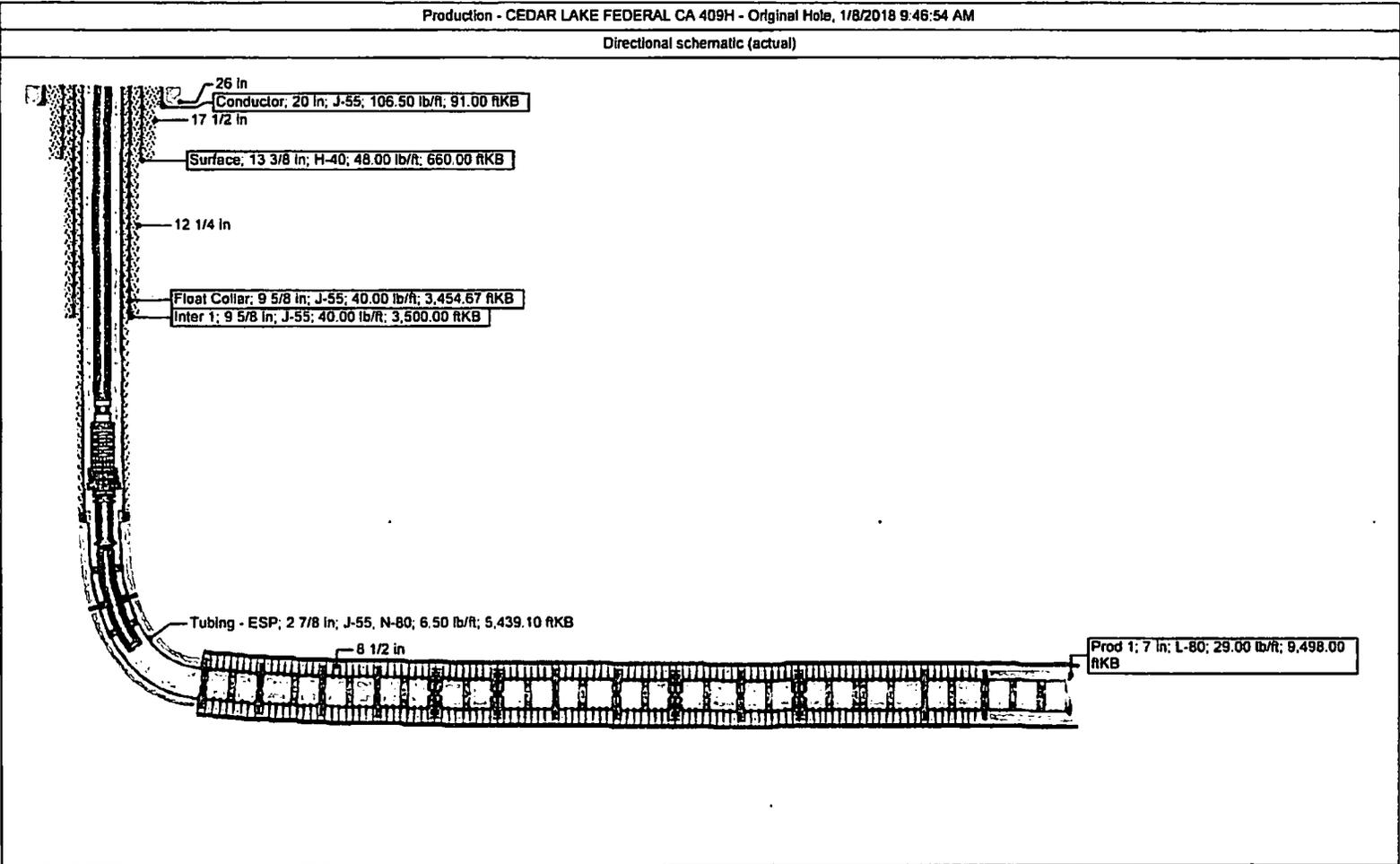
Production - CEDAR LAKE FEDERAL CA 409H - Original Hole, 1/8/2018 9:46:54 AM

26 in

17 1/2 in

12 1/4 in

8 1/2 in



**Stimulation Jobs**

Volume Clean Total (bbl): 29,224.0
Total Clean - Recovered Volume (bbl): 59,538.00
Prepump Total (ft): 2,645,500.0
Treat Rate Max (bbl/min):
Treat Pressure Max (psf):
Number of Treatment Intervals: 14
Min Top Depth (ft) (RKB): 3,954.3
Max Top Depth (ft) (RKB): 9,508.0

**Perforations or Screens**

Top Depth (ft) (RKB): 5,954
Top Depth (ft) (RKB): 5,954
Bottom Depth (ft) (RKB): 9,245

**Kick Offs & Key Depths**

Type: Kick Off	Top Depth (ft) (RKB): 3,024.0
Total Depth (ft) (RKB): 9,515.0	
POD (ft) (RKB): Original Hole - 6,794	