

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMLC029426B

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 28. Well Name and No.
CROW FEDERAL SWD 19. API Well No.
30-015-42469-00-X110. Field and Pool or Exploratory Area
SALT WATER DISPOSAL (SWD)
UNKNOWN11. County or Parish, State
EDDY COUNTY, NM

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION2. Name of Operator
APACHE CORPORATIONContact: ALICIA FULTON
E-Mail: ALICIA.FULTON@APACHECORP.COM3a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432.818.1088

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

Sec 9 T17S R31E NENE 890FNL 625FEL
32.853792 N Lat, 103.867630 W Lon**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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Workover Operations
	<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 recompleat 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 recompleat 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.

APACHE IS REQUESTING APPROVAL TO :

Add perforation to the existing injection interval and acidize

Procedure:

Perforate (4 spf, 60? phasing)
13,444-474?
13,684-690?
13,778-786?
13,788-821?
13,824-830?GC 12-3-18
Accepted for record - NMOCD

RECEIVED

NOV 28 2018

Carlsbad Field Office DISTRICT II-ARTESIA O.C.D.
OCD Artesia

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

Electronic Submission #443548 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/13/2018 (19PP0363SE)

Name (Printed/Typed) ALICIA FULTON

Title SR. REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/12/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE

Title PETROLEUM ENGINEER

Date 11/19/2018

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 Carlsbad

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #443548 that would not fit on the form

32. Additional remarks, continued

RD Wireline
Rig up acid pump truck
Acidize well w/ 20,000 gallons of 15%
Rig down acid truck
Return the well to injection

SEE ATTACHED WELLBORE DIAGRAM AND PROCEDURES

Well Info

Legal Well Name: CROW FEDERAL SWD 1

API/Surface Loc: 3001542459

Spud Date: 9/2/2014

Original Drilling Rig Release: 11/9/2014

Target Formation:

Field Name: DEVONIAN

County: Eddy

State/Province: New Mexico

Surface Legal Location: U1 A SEC 9 1 1/2 R 31E 890 FMI 6 6/2S
FEL JOHN WEST SURVEYING CO

Bottom Hole Location:

Bottom Hole Legal Location:

CROW FEDERAL SWD 1 - Original Hole

East-West Distance (ft): 543.054 From E or W Line:

CROW FEDERAL SWD 1 - Original Hole

North-South Distance (ft): 674.96 From N or S Line:

Original Drilling Rig Release: 11/9/2014

Original KB Elevation (ft): 3,934.0

Ground Elevation (ft): 3,909.0

KB-Ground Distance (ft): 25.0

Total Depth (AU) (ftKB): Original Hole - 14,000.0

Total Depth All (TYD) (ftKB):

Stimulation Jobs

Volume Clean Total (bbt): 0.00

Total Clean - Recovered Volume (bbt): 0.00

Proppant Total (lb): 0.0

Treat Rate Max (bbl/min):

Treat Pressure Max (psi):

Number of Treatment Intervals: 1

Min Top Depth (ftKB):

Max Btm Depth (ftKB):

Kick Offs & Key Depths

Type: Top Depth (ftKB):

Total Depth (ftKB): 14,000.0

PSTD (AU) (ftKB): Original Hole - 13,914

Perforations

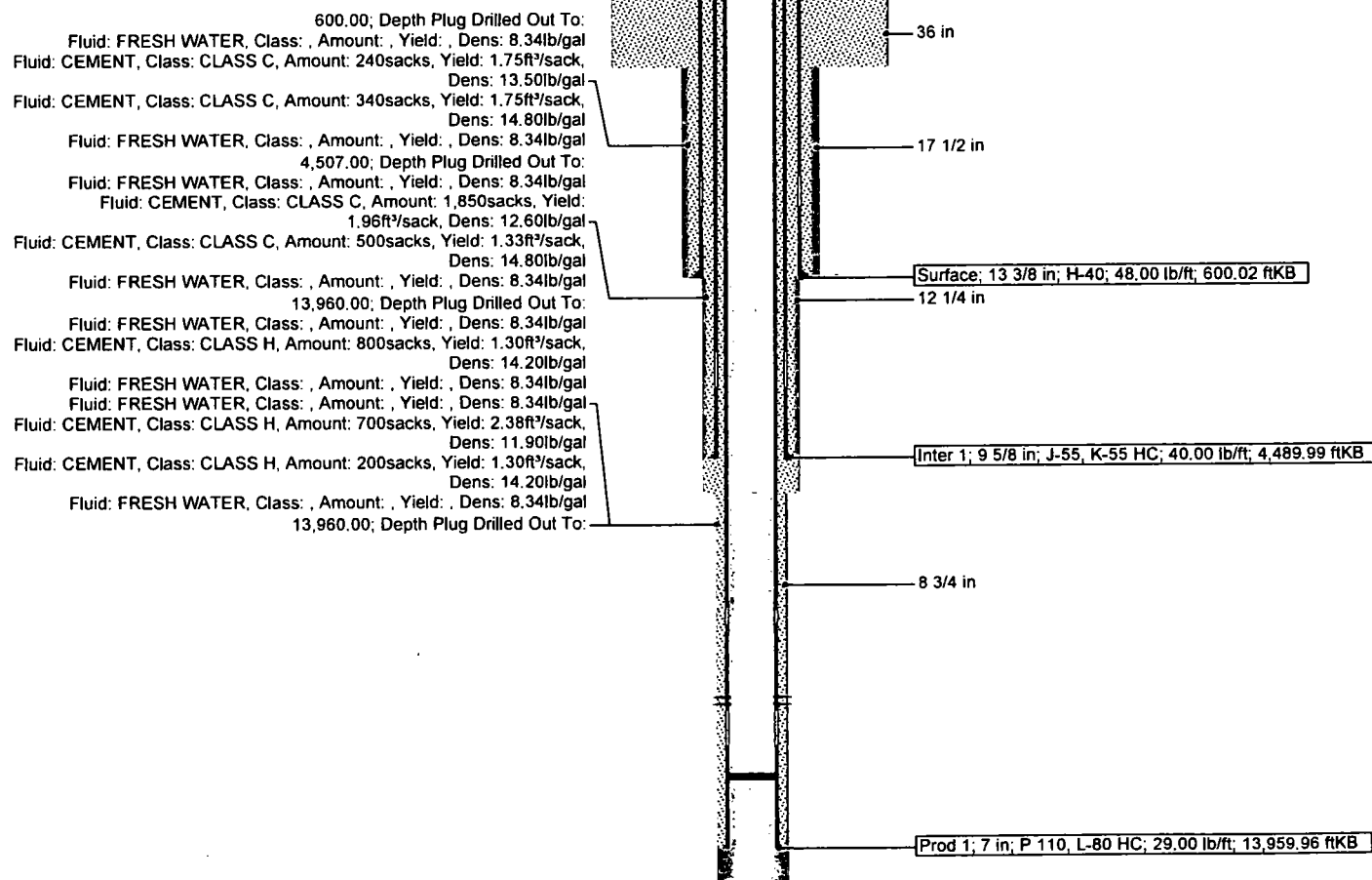
Top Depth (ftKB): 13,300

Top Depth (ftKB): 13,720

Bottom Depth (ftKB): 13,840

Disposal, CROW FEDERAL SWD 1 - Original Hole, 11/10/2018 10:37:06 AM

Vertical schematic (actual)



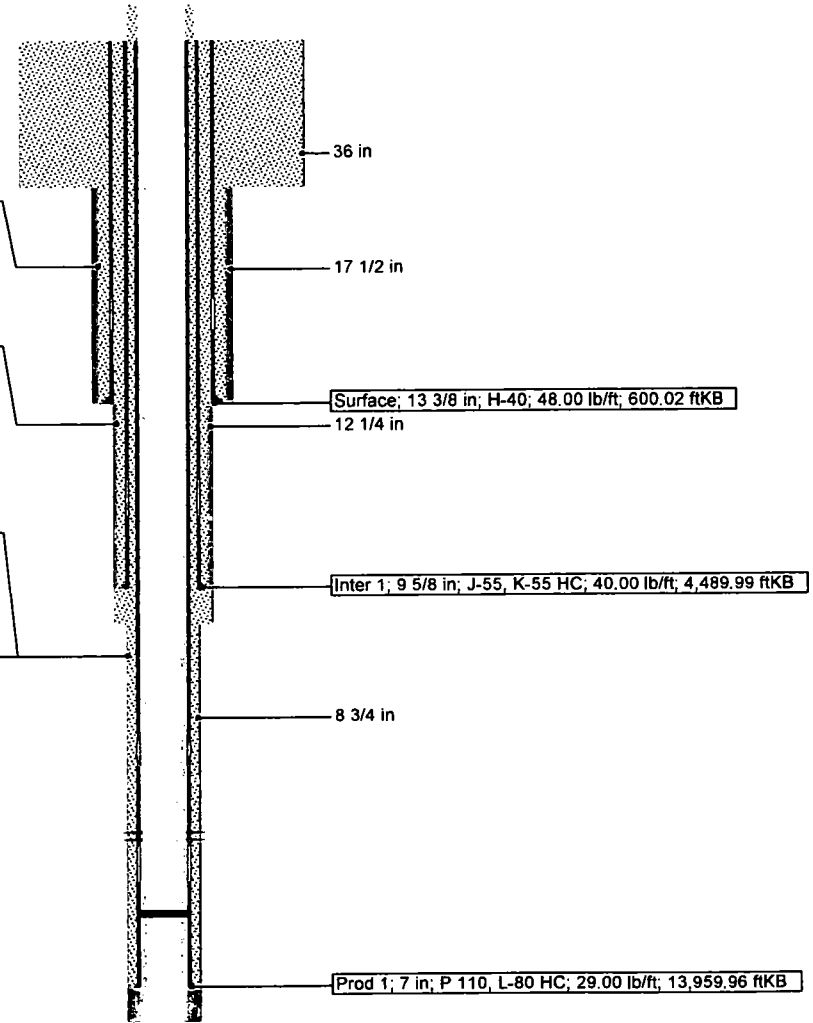
Vertical schematic (actual)

Stimulation Jobs

Volume Clean Total (bbl): 0.00
 Total Clean - Recovered Volume (bbl): 0.00
 Proppant Total (lb): 0.0
 Treat Rate Max (bbl/min):
 Treat Pressure Max (psi):
 Number of Treatment Intervals:
 Min Top Depth (ftKB):
 Max Btm Depth (ftKB):

Perforations

600.00; Depth Plug Drilled Out To:
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 Fluid: CEMENT, Class: CLASS C, Amount: 240sacks, Yield: 1.75ft³/sack,
 Dens: 13.50lb/gal
 Fluid: CEMENT, Class: CLASS C, Amount: 340sacks, Yield: 1.75ft³/sack,
 Dens: 14.80lb/gal
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 4,507.00; Depth Plug Drilled Out To:
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 Fluid: CEMENT, Class: CLASS C, Amount: 1,850sacks, Yield:
 1.96ft³/sack, Dens: 12.60lb/gal
 Fluid: CEMENT, Class: CLASS C, Amount: 500sacks, Yield: 1.33ft³/sack,
 Dens: 14.80lb/gal
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 13,960.00; Depth Plug Drilled Out To:
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 Fluid: CEMENT, Class: CLASS H, Amount: 800sacks, Yield: 1.30ft³/sack,
 Dens: 14.20lb/gal
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 Fluid: CEMENT, Class: CLASS H, Amount: 700sacks, Yield: 2.38ft³/sack,
 Dens: 11.90lb/gal
 Fluid: CEMENT, Class: CLASS H, Amount: 200sacks, Yield: 1.30ft³/sack,
 Dens: 14.20lb/gal
 Fluid: FRESH WATER, Class: , Amount: , Yield: , Dens: 8.34lb/gal
 13,960.00; Depth Plug Drilled Out To:





November 10, 2018

Crow Federal SWD # 1

API # 30-015-42469

Eddy County, NM

Casing: 7" 29# @ 13,959; 4-1/2" Duoline tbg @ 13,250'

Current Injection Interval: 13,300-500'; 13,720-840'

Objective:

Add perforation to the existing injection interval and acidize

Procedure:

1. MIRU wireline
 - Run GR-N correlation log
 - Perforate (4 spf, 60° phasing)
 - i. 13,444-474'
 - ii. 13,684-690'
 - iii. 13,778-786'
 - iv. 13,788-821'
 - v. 13,824-830'
2. RD Wireline
3. Rig up acid pump truck
4. Acidize well w/ 20,000 gallons of 15%
5. Rig down acid truck
6. Return the well to injection