

Submit 1 Copy To Appropriate District Office

State of New Mexico  
Energy, Minerals and Natural Resources  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
Revised July 18, 2013

District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd. Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR DEEPEN OR PLUG BACK TO A DIFFERENT RESERVIOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. <b>30.015.22657</b>
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator <b>Apache Corporation</b>		6. State Oil & Gas Lease No.
3. Address of Operator <b>303 Veterans Airpark Lane, Ste. 3000, Midland, TX 79705</b>		7. Lease Name or Unit Agreement Name <b>Empire Abo Unit (309164)</b>
4. Well Location Unit Letter <b>J</b> : <b>2490</b> feet from the <b>S</b> line and <b>2200</b> feet from t <b>E</b> line Section <b>1</b> Township <b>18S</b> Range <b>27E</b> NMPM County <b>EDDY</b>		8. Well Number <b>#193</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3642' GR</b>		9. OGRID Numer <b>873</b>
		10. Pool Name or Wildcat <b>Emire: Abo (22040)</b>

## 12. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: ☐

Notify OCD 24 hrs. prior to any work done

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram or proposed completion or recompletion.

**Apache Corporation proposes to P&A the above mentioned well by the attached procedure. A closed loop system will be used for all fluids from this wellbore and disposed of required by OCD Rule 19.15.17.14 NMAC.**

**SEE CHANGES TO PROCEDURE**

Spud Date: Rig Release Date: 

\*\*\*\*SEE ATTACHED COA's\*\*\*\*

**MUST BE PLUGGED BY 12/29/2021**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Guinn Burks TITLE Sr. Reclamation Foreman DATE 12/20/20

Type or print name Guinn Burks E-mail add. guinn.burks@apachecorp.com PHONE: 432-556-9143

For State Use Only

APPROVED BY: [Signature] TITLE Staff Manager DATE 12/29/2020

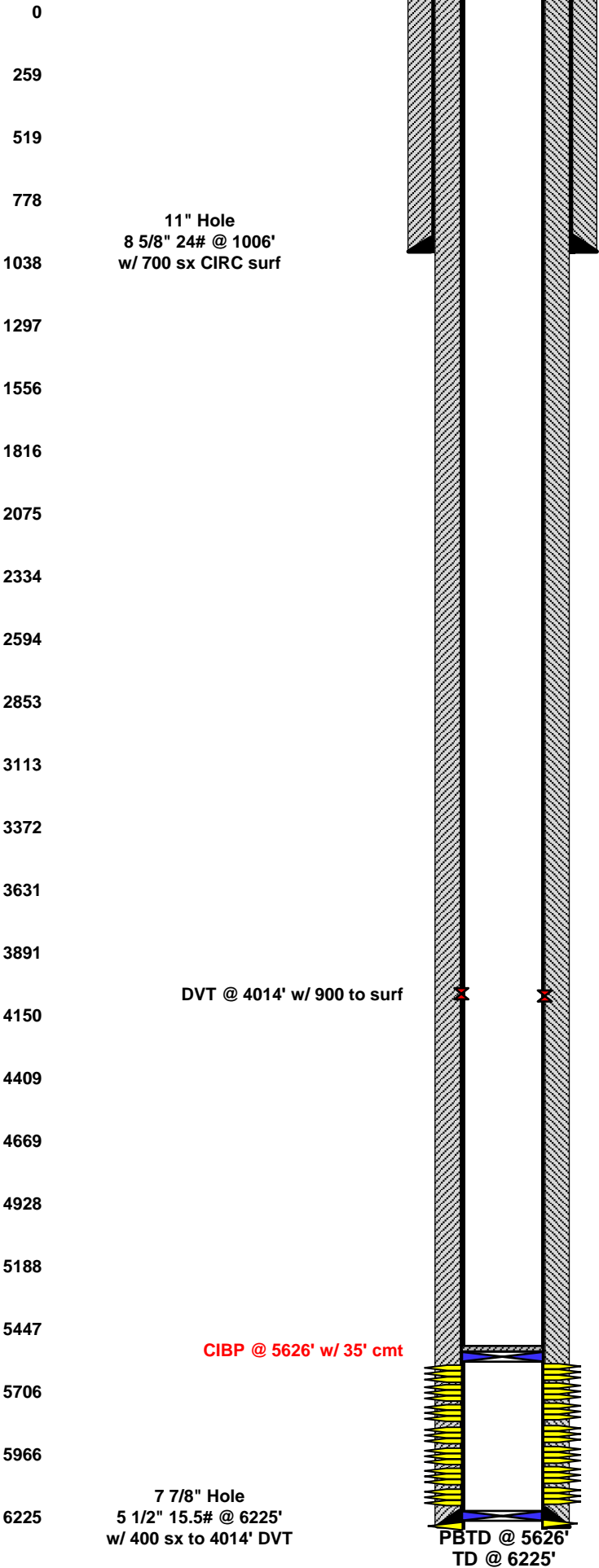
Conditions of Approval (if any):



LEASE NAME	Empire Abo Unit
WELL #	#193
API #	30.015.22657
COUNTY	EDDY, NM

WELL BORE INFO.

DEPTH SX/CMT



Abo perms @ 5676'-6030'

CIBP @ 6140'  
Perfs @ 6150'-6160'



WELL BORE INFO.

0

259

519

778

1038

1297

1556

1816

2075

2334

2594

2853

3113

3372

3631

3891

4150

4409

4669

4928

5188

5447

5706

5966

6225

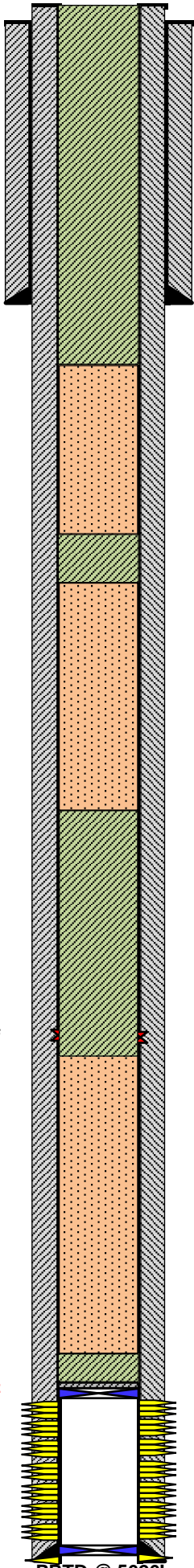
11" Hole  
8 5/8" 24# @ 1006'  
w/ 700 sx CIRC surf

DVT @ 4014' w/ 900 to surf

CIBP @ 5626' w/ 35' cmt

7 7/8" Hole  
5 1/2" 15.5# @ 6225'  
w/ 400 sx to 4014' DVT

PBTD @ 5626'  
TD @ 6225'



LEASE NAME	Empire Abo Unit
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COUNTY	EDDY, NM

DEPTH	SX/CMT	PROPOSED PROCEDURE
SURF		
130 sx		PUH & SPOT CLASS "C" CMT TO SURF/ FILL UP.
		QUEEN, SURF SHOE. WATER BOARD, & SURF PLUG
		Perf @ 1056' & attempt to circulate cement to surface
1250'		
1900'	25 sx	PUH & SPOT CLASS "C" CMT, WOC/TAG
2100'		SAN ANDRES
3100'		
100 sx		PUH & SPOT CLASS "C" CMT, WOC/TAG
		DVT & GLORIETA
4064'		
5426'	25 sx	MIRU P&A RIG. RIH W/TBG & VERIFY CIBP, CIRC W/MLF, & SPOT CLASS "C" CMT.
5626'		ABO Perfs
		Abo perfs @ 5676'-6030'
		CIBP @ 6140' Perfs @ 6150'-6160'

## CONDITIONS FOR PLUGGING AND ABANDONMENT

### OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water **will not** be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) **Potash---** (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

#### DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3. API Number 4. Unit Letter 5. Quarter Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date 8. County (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

#### SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION

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**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**

CONDITIONS

Action 12763

**CONDITIONS OF APPROVAL**

Operator: #1000 APACHE CORPORATION Midland, TX79705		303 Veterans Airpark Ln	OGRID: 873	Action Number: 12763	Action Type: C-103P
OCD Reviewer gcordero		Condition COA's attached to file			