

Well Name: CACTUS FEDERAL	Well Location: T20S / R35E / SEC 6 / NWNW /	County or Parish/State: LEA / NM
Well Number: 03	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM06413	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002503335	Well Status: Water Disposal Well	Operator: TANDEM ENERGY CORPORATION

### Notice of Intent

Sundry ID: 2690743

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 09/06/2022

Time Sundry Submitted: 09:26

Date proposed operation will begin:

Procedure Description: Tandem Energy Corporation plans to plug this well in accordance with the attached procedure and any agreed modification there in To.

### Surface Disturbance

Is any additional surface disturbance proposed?: No

### Oral Submission

Oral Notification Date: Aug 25, 2022

Oral Notification Time: 12:00 AM

Contacted By: Chris Sanders

### NOI Attachments

Procedure Description

DOC041\_20220906092550.PDF

Accepted for Record Only

SUBJECT TO LIKE  
APPROVAL BY BLM

K7

NMOCD 9/22/22

Well Number: 03

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM06413

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002503335

Well Status: Water Disposal Well

Operator: TANDEM ENERGY  
CORPORATION**Conditions of Approval****Specialist Review**

2690743\_CACTUS\_FEDERAL\_003\_PA\_Revised\_Procedure\_20220914114053.pdf

**BLM Point of Contact**

BLM POC Name: EBRU U BARRAZA

BLM POC Title: null

BLM POC Phone: 5752345719

BLM POC Email Address: EBARRAZA@BLM.GOV

Disposition: Approved

Disposition Date: 09/14/2022

Signature: Ebru U. Barraza

Form 3160-5  
(June 2015)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  
NM06413

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  
Tandem Energy Corporation3a. Address  
2700 Post Oak Blvd. Ste. 1000  
Houston, TX 770563b. Phone No. (include area code)  
(713) 987-73107. If Unit of CA/Agreement, Name and/or No  
Unit D8. Well Name and No  
Cactus Federal 0039. API Well No  
30-025-033354. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
330' FNL and 660' FWL, 4 6-20S-35E10. Field and Pool or Exploratory Area  
SWD-Queen11. Country or Parish, State  
Lea, 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 type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input checked="" 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 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.)

Tandem Energy Corporation plans to plug this well in accordance with the attached procedure and any agreed modifications there in to.

**Bureau of Land Management  
RECEIVED**

AUG 25 2022

**Carlsbad Field Office  
Carlsbad, NM**

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

Chris Sanders

IT Manager

Title

Signature



Date

08/22/2022

**THE 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)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

**ROUTINE USES:** Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

**EFFECT OF NOT PROVIDING THE INFORMATION:** Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Form 3160-5  
(June 2015)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. NM06413

6. If Indian, Allottee or Tribe Name

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

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator Tandem Energy Corporation

3a. Address 2700 Post Oak Blvd. Ste. 1000  
Houston, TX 770563b. Phone No. (include area code)  
(713) 987-73107. If Unit of CA/Agreement, Name and/or No.  
Unit D

8. Well Name and No. Cactus Federal 003

9. API Well No. 30-025-03335

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
330' FNL and 660' FWL, 4 6-20S-35E10. Field and Pool or Exploratory Area  
SWD-Queen11. Country or Parish, State  
Lea, NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
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Tandem Energy Corporation plans to plug this well in accordance with the attached procedure and any agreed modifications there in to. This procedure is approved by the BLM and their modification to the original are included on the submitted document.

**Accepted for Record Only****SUBJECT TO LIKE  
APPROVAL BY BLM**

NMOCD 9/22/22

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

Title IT Manager

Signature



Date

09/15/2022

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

Approved by

Title

Date

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*Bru U. Barraza*

## **Tandem Energy Corp.**

### **Plug And Abandonment Procedure**

#### **Cactus Federal #003**

330' FNL & 660' FWL, Section 6, T20S, R35E

Lea County, NM / API 30-025-03335

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam.
2. Check casing, tubing, and Bradenhead pressures.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP.
5. Unset 2-3/8" AD1 packer and TOOH and L/D 141 joints of IPC plastic coated tubing.
6. Unset 4 1/2" large bore packer. L/D 4610' of 4.5" injection string. If unable to remove 4.5" injection string preform free-point/chemical cut to release string. Proceed to L/D 4.5" injection string.
7. P/U 7" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top of liner at 4,610'.

8. P/U 7" CR, TIH and set CR at +/- 4,600'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, then spot or tag subsequent plugs as appropriate. POOH w/ tubing.
9. RU wireline and run CBL with 500 psi on casing from CR at 4,600' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Brandon Powell at [Brandon.powell@state.nm.us](mailto:Brandon.powell@state.nm.us) upon completions of logging operations.
10. Rig up to pump cement down tubing. Pump water to establish rate down tubing.
11. Circulate wellbore with 9.5 ppg salt gel.

**NOTE: All Plugs Include 100% excess outside casing and 50% Excess inside casing**

**Type III cement compressive strength shall be same as Class C cement**

**12. Plug 1 (Queen Perforations and Formation Top 4,600'-4,445', 25 Sacks Type III Cement)**

Mix 25 sx Type III cement and spot a balanced plug inside casing to cover the Queen perforations and formation top.

**PLUG 1: Set CIBP at 4,600' (50 ft above open perms) & Spot 25 sacks of Type III/Class C cement from 4,600'- 4,445'. WOC & Tag**

**13. Plug 2 (Yates and Base Salt Formation Tops 3,630'-3,283', 56 Sacks Type III Cement)**

Mix 56 sx Type III cement and spot a balanced plug inside casing to cover the Yates and Base Salt formation tops.

**PLUG 2: Perf at 3,630' & Sqz 165 sacks of Type III/Class C cement from 3,630' to 3,283'. WOC & Tag.**

**14. Plug 3 (Salt and Anhy Formation Tops 2,035'-1,790', 40 Sacks Type III Cement)**

Mix 40 sx Type III cement and spot a balanced plug inside casing to cover the Salt and Anhy formation tops.

**Perf at 2,035' (50 ft below Base of salt) and Sqz 120 sacks of Type III/Class C cement from 2,035' to 1,790'. WOC & Tag.**





**15. Plug 4 (Surface Casing Shoe 255'-Surface, 164 Sacks Type III Cement)**

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 164 sx cement and spot a balanced plug from 255' to surface, circulate good cement out of casing valve. TOH and LD tubing. Shut well in and WOC. If BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 255' and the annulus from the squeeze holes to surface. Shut in well and WOC.

16. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.

Dry Hole Marker:  
See attached COAs

T20S, R35E, Section 6:  
Lesser Prairie-Chicken (LPC) Timing Area/ Low Karst

## Existing Wellbore Diagram

Tandem Energy Corp.  
Cactus Federal #003  
API #: 30-025-03335  
Lea County, New Mexico

### Surface

13.375" 43# @ 205 ft  
OH: 17.5

### Injection String

4.5" 11.6# @ 4610'  
OH: 7"

### Intermediate

7" 23# @ 4716' ft  
OH: 11"

### Formations

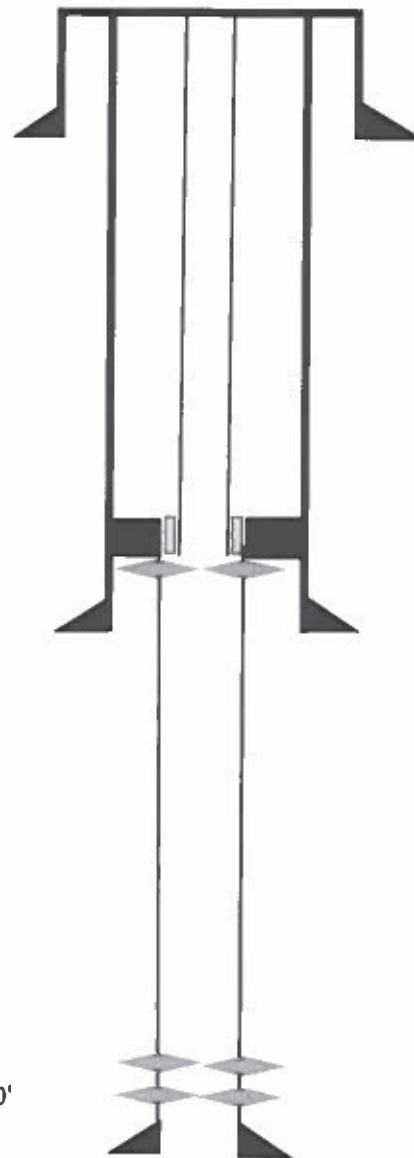
Anhy - 1890'  
Salt - 1985'  
Base Salt - 3383'  
Yates - 3580'  
Queen - 4610'

### Perforations

4650' - 4970'

### Liner

5.5" 15.5# J55 @ 4614' - 4990'  
OH: 6.25"



# Proposed Wellbore Diagram

*Bru U. Barraza*

**T20S, R35E, Section 6:  
Lesser Prairie-Chicken (LPC) Timing  
Area/ Low Karst**

**Tandem Energy Corp.  
Cactus Federal #003  
API #: 30-025-03335  
Lea County, New Mexico**

**Plug 4**  
255 feet - surface  
255 foot plug  
164 Sacks of Type III Cement

**Plug 3**  
2035 feet - 1790 feet  
245 foot plug  
40 Sacks of Type III Cement

**Plug 2**  
3630 feet - 3283 feet  
347 foot plug  
56 Sacks of Type III Cement

**Plug 1**  
4600 feet - 4445 feet  
155 foot plug  
25 sacks of Type III Cement

**Perforations**  
4650' - 4970'

## Surface

13.375" 43# @ 205 ft  
OH: 17.5

**Retainer @ 4600'**

## Intermediate

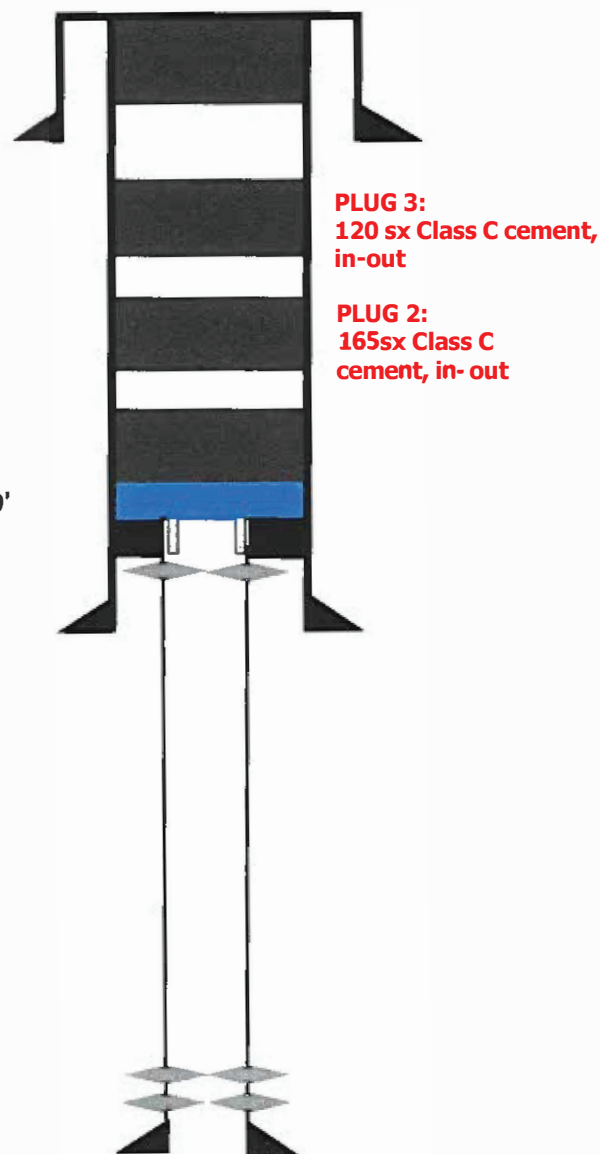
7" 23# @ 4716' ft  
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## Formations

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Queen - 4610'**

## Liner

5.5" 15.5# J55 @ 4614' - 4990'  
OH: 6.25"



**BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

**Permanent Abandonment of Federal Wells  
Conditions of Approval (LPC Habitat)**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**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**

COMMENTS

Action 143797

COMMENTS

Operator: TANDEM ENERGY CORPORATION 5065 Westheimer Rd Houston, TX 77056	OGRID: 236183
	Action Number: 143797
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	9/22/2022

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**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 143797

CONDITIONS

Operator: TANDEM ENERGY CORPORATION 5065 Westheimer Rd Houston, TX 77056	OGRID: 236183
	Action Number: 143797
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Like approval from BLM	9/22/2022