

Submit 1 Copy To Appropriate District Office
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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-20078
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Pure State
8. Well Number 002
9. OGRID Number 236183
10. Pool name or Wildcat Queen
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3713 GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
Tandem Energy Corporation

3. Address of Operator
2700 Post Oak Blvd. Ste. 1000, Houston, TX 77056

4. Well Location
Unit Letter I 1980 feet from the S line and 660 feet from the E line
Section 36 Township 19S Range 34E NMPM County Lea

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 of proposed completion or recompletion.

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

ESTIMATED START DATE 9/1/22

NOTE CHANGES TO PROCEDURE

LPC below ground marker take pics before back filling

See attached conditions of approval

Spud Date: Rig Release Date:

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

SIGNATURE  TITLE Authorized Representative IT MANAGER DATE 8/2/22

Type or print name CHRIS SANDERS E-mail address: chris@tenergy.com PHONE: 713-957-7318

For State Use Only
APPROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 8/15/22
Conditions of Approval (if any):

Tandem Energy Corp.

Plug And Abandonment Procedure

Pure State #002

1980' FSL & 660' FEL, Section 36, T19S, R34E

Lea County, NM / API 30-025-20078

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. P/U 2-7/8" bit or casing scraper on 1-1/4" work string and round trip as deep as possible above top perforation at 4,621'.
6. P/U 2-7/8" CR (cast iron bridge plug), TIH and set CR at +/- 4,571'. 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.
7. RU wireline and run CBL with 500 psi on casing from CR at 4,571' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to

Brandon Powell at Brandon.powell@state.nm.us upon completions of logging operations.

8. Rig up to pump cement down tubing. Pump water to establish rate down tubing.
9. Circulate wellbore with 9.5 ppg salt gel.

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

10. Plug 1 (**Queen Perforations and Formation Top and 7 Rivers Formation Top 4,571'-4,120', ~~11~~^{25 sx} Sacks Type III Cement**)

Mix ~~11~~^{25 sx} sx Type III cement and spot a balanced plug inside casing to cover the Queen perforations and formation top and 7 Rivers formation top.

11. Plug 2 (**Yates and Salt Formation Tops 3,935'-3,567', ~~9~~^{25 sx} Sacks Type III Cement**)

Mix ~~9~~^{25 sx} sx Type III cement and spot a balanced plug inside casing to cover the Yates and Salt formation tops.

12. Plug 3 (**Salt and Anhy Formation Tops 1,960'-1,592', ~~9~~^{P&S 50 sx} Sacks Type III Cement**)

Mix ~~9~~^{P&S 50 sx} sx Type III cement and spot a balanced plug inside casing to cover the Salt and Anhy formation tops.

13. Plug 4 (**Surface Casing Shoe 155'-Surface, ~~41~~^{P&S 50 sx} 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 41 sx cement and spot a balanced plug from 155' 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 155' and the annulus from the squeeze holes to surface. Shut in well and WOC.

14. 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.

Proposed Wellbore Diagram

Tandem Energy Corp.
Pure State #002
API #: 30-025-20078
Lea County, New Mexico

Plug 4

155 feet - surface

155 foot plug

P&S 50 sx ~~41~~ Sacks of Type III Cement

Plug 3

1960 feet - 1592 feet

368 foot plug

P&S 50 sx ~~90~~ Sacks of Type III Cement

Plug 2

3935 feet - 3567 feet

368 foot plug

25 sx ~~90~~ Sacks of Type III Cement

Plug 1

4571 feet -4120 feet

451 foot plug

25 sx ~~11~~ sacks of Type III Cement

Preforations:

4621' to 4949'

Surface Casing

8-5/8" 24# @ 105'

OH: 12-1/4"

Cement: 75 sx

Formations

Anhy - 1830'

Salt - 3720'

Yates - 3885'

7 Rivers - 4220'

Queen - 4880'

Intermediate Casing

4-1/2" 10.5# @ 5023'

OH: 7-7/8"

Retainer @ 4571'

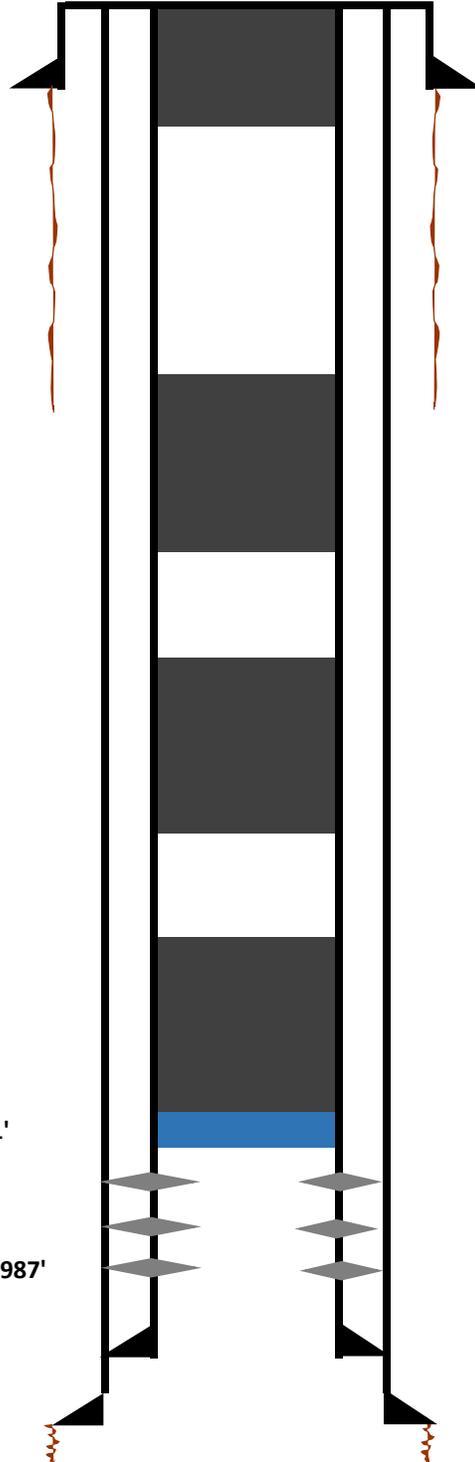
Production Casing

Slim Hole - 2-7/8" 6.5# @ 4987'

Csg: 4-1/2" 10.5# @ 5023'

OH: 7-7/8"

Cement: 200 sx



**CONDITIONS OF APPROVAL
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 I (Hobbs) at **(575)-263-6633** 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

Tandem Energy Corp.

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Existing Wellbore Diagram

Tandem Energy Corp.
Pure State #002
API #: 30-025-20078
Lea County, New Mexico

Surface Casing

8-5/8" 24# @ 105'
OH: 12-1/4"
Cement: 75 sx

Formation

Anhy - 1830'
Salt - 3720'
Yates - 3885'
7 Rivers - 4220'
Queen - 4880'

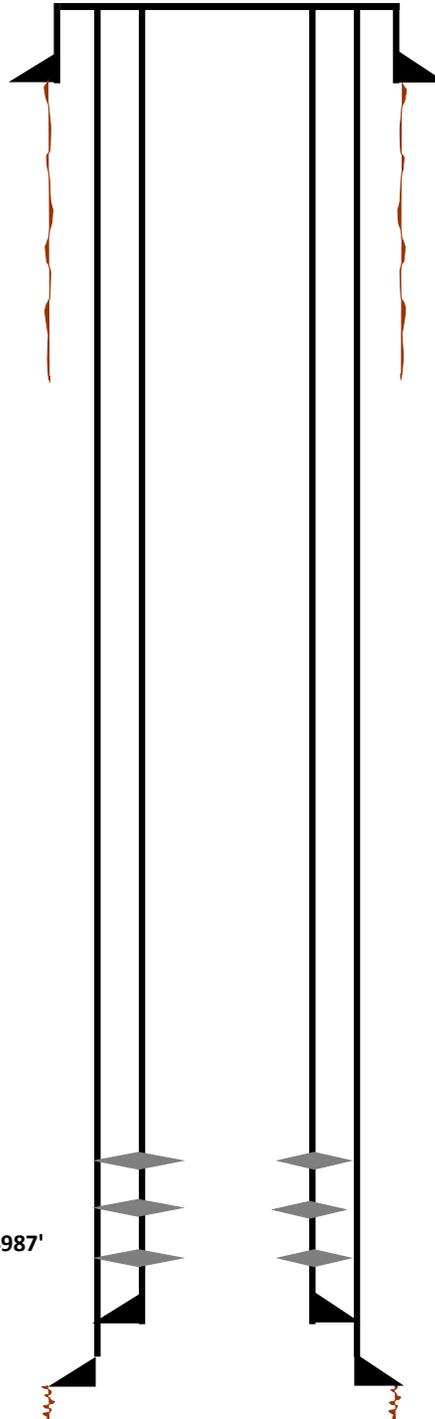
Intermediate Casing

4-1/2" 10.5# @ 5023'
OH: 7-7/8"

Preforations:
4621' to 4949'

Production Casing

Slim Hole - 2-7/8" 6.5# @ 4987'
Csg: 4-1/2" 10.5# @ 5023'
OH: 7-7/8"
Cement: 200 sx



Proposed Wellbore Diagram

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API #: 30-025-20078
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155 feet - surface
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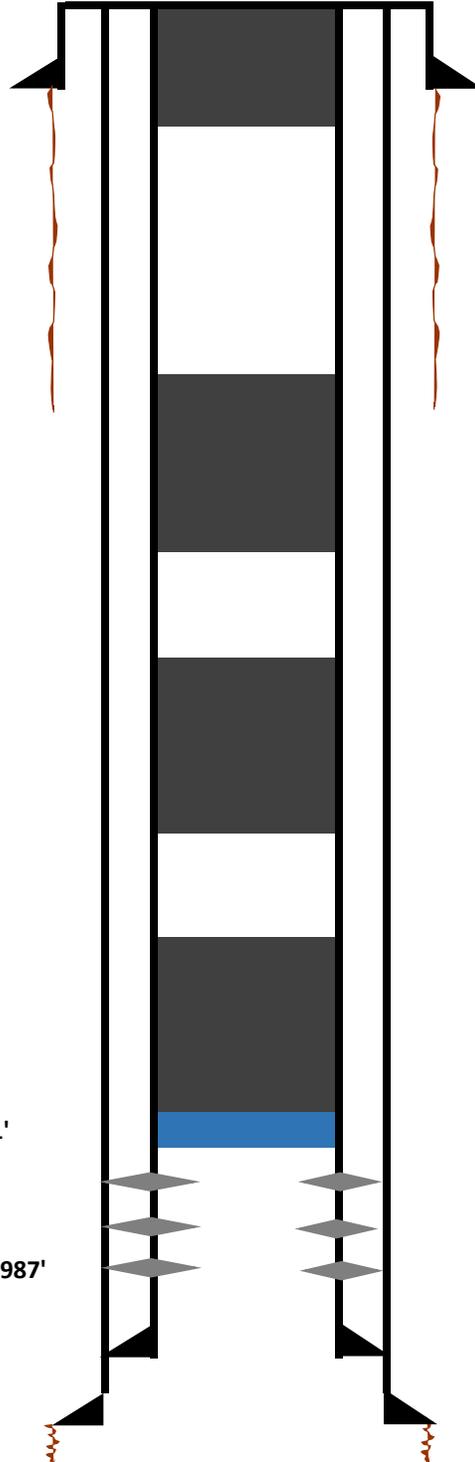
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Intermediate Casing
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Retainer @ 4571'

Production Casing
Slim Hole - 2-7/8" 6.5# @ 4987'
Csg: 4-1/2" 10.5# @ 5023'
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Cement: 200 sx



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 130676

COMMENTS

Operator: TANDEM ENERGY CORPORATION 5065 Westheimer Rd Houston, TX 77056	OGRID: 236183
	Action Number: 130676
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	8/16/2022

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 130676

CONDITIONS

Operator: TANDEM ENERGY CORPORATION 5065 Westheimer Rd Houston, TX 77056	OGRID: 236183
	Action Number: 130676
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kfortner	See attached COA Note changes to procedure	8/15/2022