

<b>Well Name:</b> BRAVO DOME 1835	<b>Well Location:</b> T18N / R35E / SEC 17 / NESW / 35.78796 / -103.244609	<b>County or Parish/State:</b> UNION / NM
<b>Well Number:</b> 171K	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM19514	<b>Unit or CA Name:</b> BRAVO DOME CO2	<b>Unit or CA Number:</b> NMNM78381X
<b>US Well Number:</b> 3005920232	<b>Well Status:</b> Gas Well Shut In	<b>Operator:</b> OXY USA INCORPORATED

**Notice of Intent**

**Sundry ID:** 2389590

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 05/28/2021

**Time Sundry Submitted:** 02:41

**Date proposed operation will begin:** 06/06/2021

**Procedure Description:** OXY USA Inc. respectfully requests approval to plug and abandon the subject well. Due to COVID and the economic environment, we request approval with an estimated date of work of June 2021 to August 2021 pending rig availability in this area. The plan is as follows: 10# MLF between plugs. Utilize above-ground steel tanks. TAG CIBP TOC. IF NECESSARY, DUMP BAIL CMT TO BRING TOC TO 2569. TAG. SPOT 25 SKS CLASS C CMT 1741-1630. WOC AND TAG. SPOT 25 SKS CLASS C CMT 775-675. WOC AND TAG. PERF AND SQZ 40 SKS 100-SURFACE The general reclamation plan is listed below. After the plug and abandon intent is approved, an onsite with Oxy and the BLM will be scheduled and an updated reclamation plan will be submitted based on well specific feedback from the onsite. The onsite date is pending schedule coordination. -Remove all surface equipment from location – pumping unit, vessels, poly and steel flowlines, etc. -Remove all debris, trash, affected soil, caliche , etc. - Remove all Oxy owned electrical poles and lines to location -Remediate well pad and roads as necessary -Top soil in an approved native mixture will be added as necessary Plug and abandon intent requires approval by 6/3/21.

**Surface Disturbance**

**Is any additional surface disturbance proposed?:** No

**NOI Attachments**

**Procedure Description**

PROPOSED\_WELLBORE\_20210528143632.pdf

CURRENT\_WELLBORE\_20210528143632.pdf

**Well Name:** BRAVO DOME 1835

**Well Location:** T18N / R35E / SEC 17 /  
NESW / 35.78796 / -103.244609

**County or Parish/State:** UNION /  
NM

**Well Number:** 171K

**Type of Well:** CONVENTIONAL GAS  
WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM19514

**Unit or CA Name:** BRAVO DOME CO2

**Unit or CA Number:**  
NMNM78381X

**US Well Number:** 3005920232

**Well Status:** Gas Well Shut In

**Operator:** OXY USA  
INCORPORATED

### Conditions of Approval

#### Specialist Review

2389590\_NOIA\_BRAVO\_DOME\_1835\_171K\_3005920232\_KR\_08052021\_20210805135834.pdf

General\_Requirement\_PxA\_20210805135823.pdf

#### Additional Reviews

18N35E17KPermian\_Tubb\_Bravo\_Dome\_CDGU\_1835\_171K\_20210810114230.pdf

### Operator Certification

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.*

**Operator Electronic Signature:** EMILY MESSER

**Signed on:** MAY 28, 2021 02:39 PM

**Name:** OXY USA INCORPORATED

**Title:** REGULATORY LEAD

**Street Address:** 5 Greenway Plaza, Suite 110

**City:** Houston

**State:** TX

**Phone:** (713) 497-2076

**Email address:** emily\_messer@oxy.com

### Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### BLM Point of Contact

**BLM POC Name:** KENNETH G RENNICK

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5055647742

**BLM POC Email Address:** krennick@blm.gov

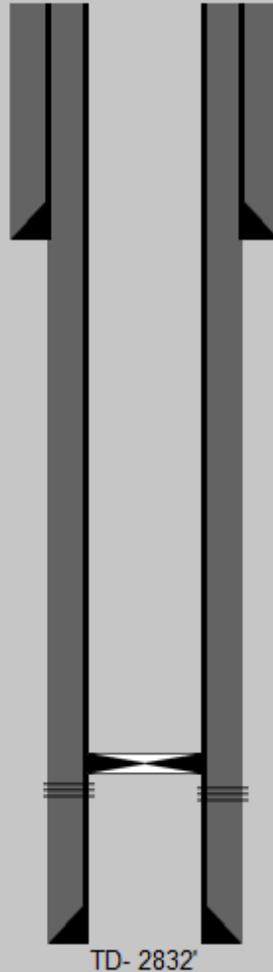
**Disposition:** Approved

**Disposition Date:** 08/10/2021

**Signature:** Kenneth Rennick

CURRENT WELLBORE:

OXY USA INC  
BRAVO DOME CARBON DIOXIDE GAS UNIT #171 [27111]  
30-059-20232



12 1/4" hole @ 725'  
9 5/8" csg @ 725'  
w/ 413 cuft cmt - TOC @ 0' (circulated)

CIBP @ 2534' + 10' cmt  
Perfs @ 2457-2548'

TD- 2832'

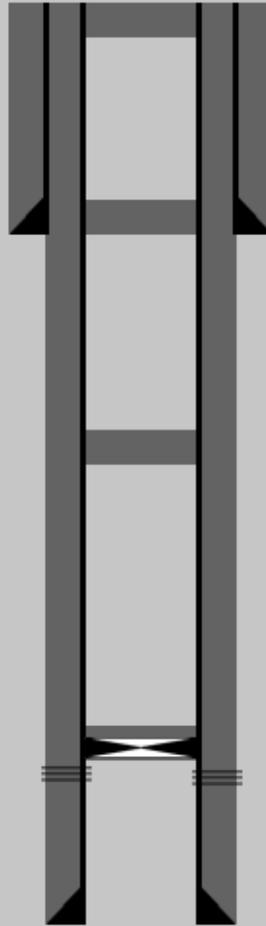
8 3/4" hole @ 2832'  
7" csg @ 2832'  
w/ 1015 cuft cmt - TOC @ 0' (circulated)

\*not to scale

PROPOSED WELLBORE:

OXY USA INC  
BRAVO DOME CARBON DIOXIDE GAS UNIT #171 [27111]  
30-059-20232

12 1/4" hole @ 725'  
9 5/8" csg @ 725'  
w/ 413 cuft cmt - TOC @ 0' (circulated)



perf/sqz 40 sks cmt from 100-surface

spot 25 sks cement from 775-675'

Glorieta 1741'

spot 25 sks cement from 1741-1630'

tag and add cement, if necessary, to bring TOC to 2569'  
CIBP @ 2534' + 10' cmt  
Perfs @ 2457-2548'

TD- 2832'

8 3/4" hole @ 2832'  
7" csg @ 2832'  
w/ 1015 cuft cmt - TOC @ 0' (circulated)

\*not to scale

## BLM FLUID MINERALS Geologic Report

**Date Completed:** 7/1/2021

Well No. Bravo Dome CDGU 1835 #171K (API# 30-059-20232)	Location	1650	FSL &	1650	FWL
Lease No. NMNM-19514	Sec. 17	T18N		R35E	
Operator OXY USA, Inc.	County	Union		State	New Mexico
Total Depth 2832'	PBTD 2700'	Formation Tubb			
Elevation (GL) 4695'	Elevation (KB) 4708'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
Quaternary	Surface				
Ogallala Fm	20	80			
Carlisle Shale					
Greenhorn Ls					
Graneros Shale					
Dakota Ss	80				Probable water
Pajarito Shale					
Mesa Rica Ss					
Tucumcari Shale					
Morrison Fm					
Bell Ranch Fm					
Todilto Fm					
Entrada Ss					
Chinle Fm			932	1138	Possible gas/CO <sub>2</sub>
Santa Rosa Ss			1138		Possible gas/CO <sub>2</sub>
Bernal Fm				1505	
San Andres Fm			1505	1741	
Glorieta Ss			1741		
Yeso Fm				2419	
Cimarron Anhydrite			2419	2435	
Tubb Ss			2435	PBTD	Gas/CO <sub>2</sub>
Abo/Sangre de Cristo Fm					

Remarks:

P & A

- The Chinle formation and Santa Rosa sandstone have gas/CO<sub>2</sub> potential based on historical well data in the area.
- Please add plugs to cover the Chinle formation @ 932' and Santa Rosa sandstone @ 1138'.

Reference Well:

1) **Formation Tops**  
Same

**Prepared by: Chris Wenman**

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Bravo Dome 1835 171K

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) For the top of the CIBP at 2534', ensure there is a minimum of 50 ft. of cement above the CIBP.
  - b) Add additional plugs to cover a minimum of 50 ft. below and above the tops of the Chinle formation (at 932 ft.) and the Santa Rosa (at 1138 ft.).

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 8/5/2021

**GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON FIELD OFFICE**

- 1.0 The approved plugging plans may contain variances from the following minimum general requirements.
- 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
  - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
- 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
- 4.1 The cement shall be as specified in the approved plugging plan.
  - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.3 Surface plugs may be no less than 50' in length.
  - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
  - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
  - 4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. **If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.**

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H<sub>2</sub>S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

**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 63512

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 63512
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	11/29/2021
kpickford	Plug #1 must be at least 50' thick.	11/29/2021
kpickford	Extend plug #2 1791-1630 to cover the Glorietta top @ 1741'.	11/29/2021
kpickford	Add a plug 1555-1455 to cover the San Andreas top @ 1505'.	11/29/2021
kpickford	Per BLM COAs, add a plug 1188-1088 to cover the Santa Rosa top @ 1138'.	11/29/2021
kpickford	Per BLM COAs, add a plug 982-882 to cover the Chinle top @ 932'.	11/29/2021