

**Surface Use Plan of Operations****HOBBS OCD**

NOV 14 2017

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**Operator Name/Number:** OXY USA Inc. – 16696  
**Lease Name/Number:** Mesa Verde 17-8 Federal Com #1H  
**Pool Name/Number:** Mesa Verde Bone Spring 96229  
**Surface Location:** 280 FSL 1116 FWL SWSW (M) Sec 17 T24S R32E – NMNM66925  
**Bottom Hole Location:** 230 FNL 441 FWL NWNW (D) Sec 8 T24S R32E – NMNM55953

**1. Existing Roads**

- a. A copy of the USGS "Paduca Breaks, NW, NM" quadrangle map is attached showing the proposed location. The well location is spotted on the map, which shows the existing road system.
- b. The well was staked by Terry J Asel, Certificate No. 15079 on 9/29/15, certified 9/28/16.
- c. Directions to Location: From the intersection of SH 128 and CR 786 (Buck Jackson Rd), go southwest on CR 786 for 0.4 miles. Turn left on caliche road and go south for 1.4 miles. Turn left and go east for 0.9 miles. Turn left and curve to the right for 0.5 miles. Turn left on proposed road and go east for 551.9', turn left and go north for 76.9' to location.

**2. New or Reconstructed Access Roads:**

- a. A new access road will be built. The access road will run approximately 551.9' east and 76.9' north through pasture to the southwest corner of the pad.
- b. The maximum width of the road will be 14'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. Turnouts are planned every 1000' as needed.
- e. Blade, water and repair existing caliche roads as needed.
- f. Water Bars will be incorporated every 200' during the construction of the road.

**3. Location of Existing Wells:**

Existing wells within a one mile radius of the proposed well are shown on attached plat.

**4. Location of Existing and/or Proposed Facilities:**

- a. In the event the well is found productive, the Mesa Verde Federal central tank battery would be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagram.
- b. All flow lines will adhere to API standards. They will consist of 2 – 4" composite flowlines operating < 75% MAWP, surface, lines to follow surveyed route. Survey of a strip of land 30' wide and 3523.3' in length crossing USA Land in Sections 17 & 18 T24S R32E NMPM, Lea County, NM and being 15' left and 15' right of the centerline survey, see attached.
- c. Electric line will follow a route approved by the BLM. Survey of a strip of land 30' wide and 230' in length crossing USA Land in Sections 17 T24S R32E NMPM, Lea County, NM and being 15' left and 15' right of the centerline survey, see attached.
- d. See attached for additional information on the Mesa Verde Development Surface Production Facilities and the Fresh Water Station.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit Original  
to Appropriate  
District Office

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**GAS CAPTURE PLAN**

Date: 05-11-2017

☒ Original

Operator & OGRID No.: OXY USA INC. - 16696

☐ Amended - Reason for Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

**Well(s)/Production Facility – Name of facility**

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Mesa Verde 17-8 Federal Com #1H	Pending <i>3002544198</i>	Unit M, Sec. 17, T24S, R32E	280 FSL 1116 FWL	3,229	0	
Mesa Verde 17-8 Federal Com #2H	Pending	Unit M, Sec. 17, T24S, R32E	280 FSL 1146 FWL	3,229	0	

**Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is expected be in place. OXY USA INC. ("OXY") has begun discussion with third-party gas processors and currently has four (4) potential gas gathering pipeline options. The gas produced from the production facility will be connected to a low/high pressure gathering system and processed at a processing plant. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

**Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Gas Transporter system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

**Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

## 5. Location and types of Water Supply

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads.

## 6. Construction Materials:

### Primary

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available.

### Secondary

The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6" of topsoil is pushed off and stockpiled along the side of the location.
- b. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- c. Subsoil is removed and piled alongside the 120' X 120' within the pad site.
- d. When caliche is found, material will be stockpiled within the pad site to build the location and road.
- e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the attached plat.

## 7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna
- b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pickup slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

## 8. Ancillary Facilities: None needed.

## 9. Well Site Layout:

The proposed well site layout with dimensions of the pad layout and equipment location.

V-Door – East

CL Tanks – North

Pad – 330' X 440' – Two Well Pad

## 10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

- b. If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

# 11. Surface Ownership:

The surface is owned by the U.S. Government and is administered by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: Mark McCloy, P.O. Box 1076, Jal NM 88252. They will be notified of our intention to drill prior to any activity.

# 12. Other Information:

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within one mile of the proposed well site.
- d. Cultural Resources Examination—This well is located in the Permian Basin PA. Payment to be determined by BLM. This well shares the same pad as the Mesa Verde 17-8 Federal Com #2H.
- |                            |                  |                      |                |                  |
|----------------------------|------------------|----------------------|----------------|------------------|
| Pad + ¼ mile road          | <u>\$1550.00</u> | \$.24/ft over ¼ mile | <u>\$ 0.00</u> | <u>\$1550.00</u> |
| Pipeline-up to 1 mile      | <u>\$1431.00</u> | \$.27/ft over 1 mile | <u>\$ 0.00</u> | <u>\$1431.00</u> |
| Electric Line-up to 1 mile | <u>\$717.00</u>  | \$.11/ft over 1 mile | <u>\$ 0.00</u> | <u>\$ 717.00</u> |
| Total                      | <u>\$3698.00</u> |                      | <u>\$ 0.00</u> | <u>\$3698.00</u> |
- e. Copy of this application has been mailed to SWCA Environmental Consultants, 5647 Jefferson St. NE, Albuquerque, NM 87109. No Potash leases within one mile of surface location.

# 13. Bond Coverage:

Bond coverage is Individual-NMB000862, Nationwide-ESB00226.

# 14. Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below:

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