

BDU 19 33 27 2 K  
API: 30-021-20636  
Pit closure information

GPS Coordinates of Pit Marker & Center of Pit :  
N 35.8455688 W - 103.4220476

## INFORMATION ENCLOSED WITH PIT CLOSURE REPORT:

### 1) ORIGINAL PIT CLOSURE PERMIT.

16.

**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

## IN ADDITION:

- 1) NOTICE OF DEED FILED WITH HARDING COUNTY CLERK AS PER 19.15.17.13.E.(4)
- 2) SUMMARY OF MAJOR OPERATIONS
- 3) PICTURE OF LOCATION SHOWING PIT AREA AND MARKER

**ORIGINAL C - 144**

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

Form C-144  
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.  
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

- Type of action:  Below grade tank registration  
 Permit of a pit or proposed alternative method  
 Closure of a pit, below-grade tank, or proposed alternative method  
 Modification to an existing permit/or registration  
 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

12185  
21-20636  
1. Operator: Oxy USA INC OGRID #: 16696  
Address: PO Box 4294, Houston, TX, 77210  
Facility or well name: Bravo Dome Carbon Dioxide Gas Unit #272K  
API Number: 30-021-20636 OCD Permit Number: 187248  
U/L or Qtr/Qtr K Section 27 Township 19N Range 33E County: HARDING  
Center of Proposed Design: Latitude 35 50 44.74 Longitude 103 25 18.49 NAD:  1927  1983  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment  
RCVD SEP 5 '14

2.  Pit: Subsection F, G or J of 19.15.17.11 NMAC  
Temporary:  Drilling  Workover  
 Permanent  Emergency  Cavitation  P&A  Multi-Well Fluid Management Low Chloride Drilling Fluid  yes  no  
 Lined  Unlined Liner type: Thickness 20 mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 Siring-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 4,600 bbl Dimensions: L 75 x W 75 x D 4.5  
OIL CONS. DIV.  
DIST. 3

3.  Below-grade tank: Subsection I of 19.15.17.11 NMAC  
Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Tank Construction material: \_\_\_\_\_  
 Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
 Visible sidewalls and liner  Visible sidewalls only  Other \_\_\_\_\_  
Liner type: Thickness \_\_\_\_\_ mil  HDPE  PVC  Other \_\_\_\_\_

4.  Alternative Method:  
Submission of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5. **Fencing:** Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  
 Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  
 Four foot height, four strands of barbed wire evenly spaced between one and four feet  
 Alternate. Please specify \_\_\_\_\_

6. **Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- Screen  Netting  Other \_\_\_\_\_  
 Monthly inspections (If netting or screening is not physically feasible)

7. **Signs:** Subsection C of 19.15.17.11 NMAC

- 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  
 Signed in compliance with 19.15.16.8 NMAC

8. **Variations and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

- Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9. **Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

*Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*

**General siting**

**Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**

- NM Office of the State Engineer - iWATERS database search;  USGS;  Data obtained from nearby wells

Yes  No  
 NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

Yes  No  
 NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (**Does not apply to below grade tanks**)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Yes  No

Within the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Yes  No

Within an unstable area. (**Does not apply to below grade tanks**)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

Yes  No

Within a 100-year floodplain. (**Does not apply to below grade tanks**)

- FEMA map

Yes  No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

Yes  No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes  No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (*Applies to low chloride temporary pits.*)

- Topographic map; Visual inspection (certification) of the proposed site

Yes  No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Yes  No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes  No

<p>Within 100 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p><b><u>Temporary Pit Non-low chloride drilling fluid</u></b></p>	
<p>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</p> <ul style="list-style-type: none"> <li>- Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> <li>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;</p> <ul style="list-style-type: none"> <li>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b><u>Permanent Pit or Multi-Well Fluid Management Pit</u></b></p>	
<p>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</p> <ul style="list-style-type: none"> <li>- Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> <li>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</p> <ul style="list-style-type: none"> <li>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No

10. **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  
 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11. **Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC  
*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
 A List of wells with approved application for permit to drill associated with the pit.  
 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  
 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  
 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

*Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.*

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

*Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.*

- Type:  Drilling  Workover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Multi-well Fluid Management Pit  
 Alternative
- Proposed Closure Method:  Waste Excavation and Removal  
 Waste Removal (Closed-loop systems only)  
 On-site Closure Method (Only for temporary pits and closed-loop systems)  
 In-place Burial  On-site Trench Burial  
 Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

*Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.*

- |   |  |
|---|--|
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).<br>- Topographic map; Visual inspection (certification) of the proposed site                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance   |  |

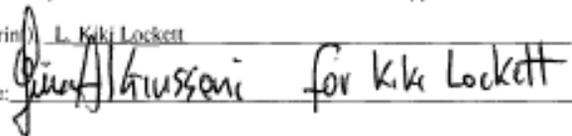
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

16. **On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

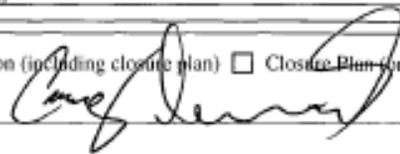
17. **Operator Application Certification:**  
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): L. Kiki Lockett Title: Regulatory Specialist

Signature:  Date: 08/04/2015

e-mail address: kiki\_lockett@ocv.com Telephone: 713-215-7643

18. **OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

OCD Representative Signature:  Approval Date: 9/9/14

Title: Environmental Spec OCD Permit Number: \_\_\_\_\_

19. **Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC  
*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

Closure Completion Date: \_\_\_\_\_

20. **Closure Method:**

Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop systems only)

If different from approved plan, please explain.

21. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD:  1927  1983

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

BDU 19 33 27 2 K  
API: 30-021-20636

25

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Al Giussani Title: Eng. Advisor

Signature: *Al Giussani* Date: 11/20/2015

e-mail address: albert\_giussani@oxy.com Telephone: 806 638 1296

**NOTICE OF PIT CLOSURE TO NMOCD:**

**VERBAL DURING SITE INSPECTION , JUNE 17<sup>TH</sup> 2015.**

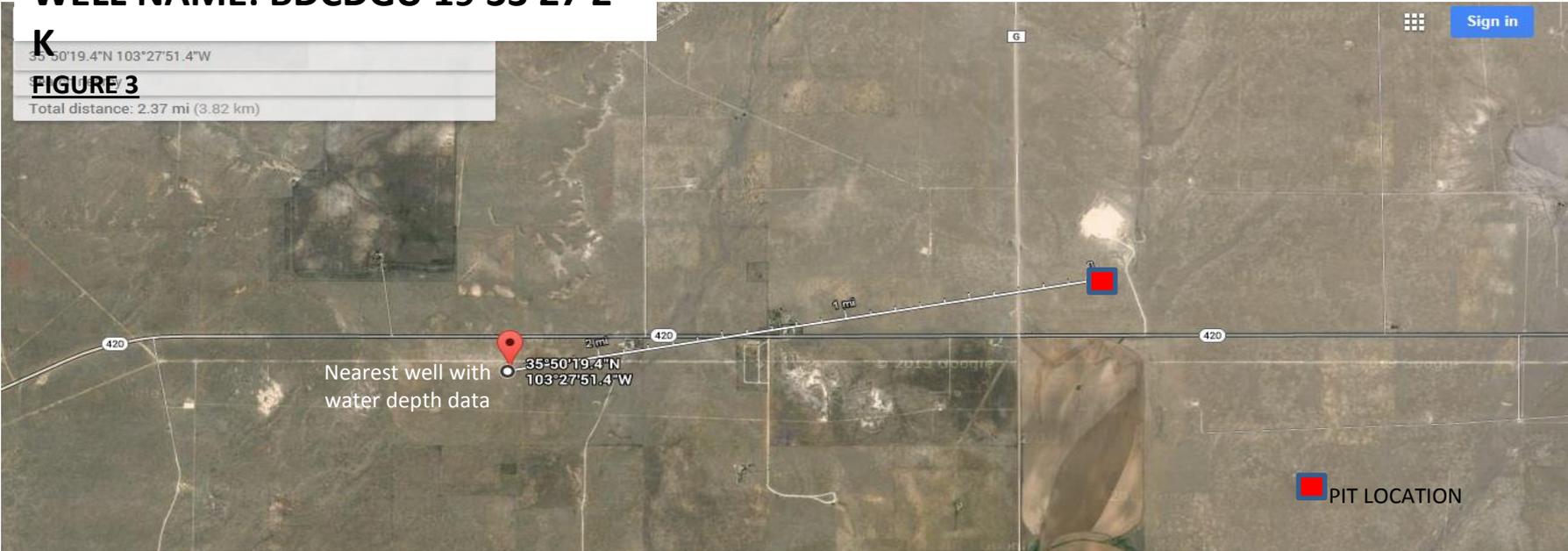
**SITTING REQUIREMENTS, 19.15.17.10.A.(1)**

# SITTING REQUIREMENTS : 19.15.17.10.A.(1), (a), (d)

## WELL NAME: BDCDGU 19 33 27 2

K  
35°50'19.4"N 103°27'51.4"W

**FIGURE 3**  
Total distance: 2.37 mi (3.82 km)



### New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

POD Number	Code	POD Subbasin	County	Source	q	q	q	Sec	Tws	Rng	X	Y	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
<a href="#">TU_00567_POD2</a>			HA	Shallow	4	2	2	31	19N	33E	638698	3967149	11/15/2011	11/16/2011	12/08/2011	285	148	BRITTON, RICHARD D.	1442

Record Count: 1

PLSS Search:

Township: 19N Range: 33E

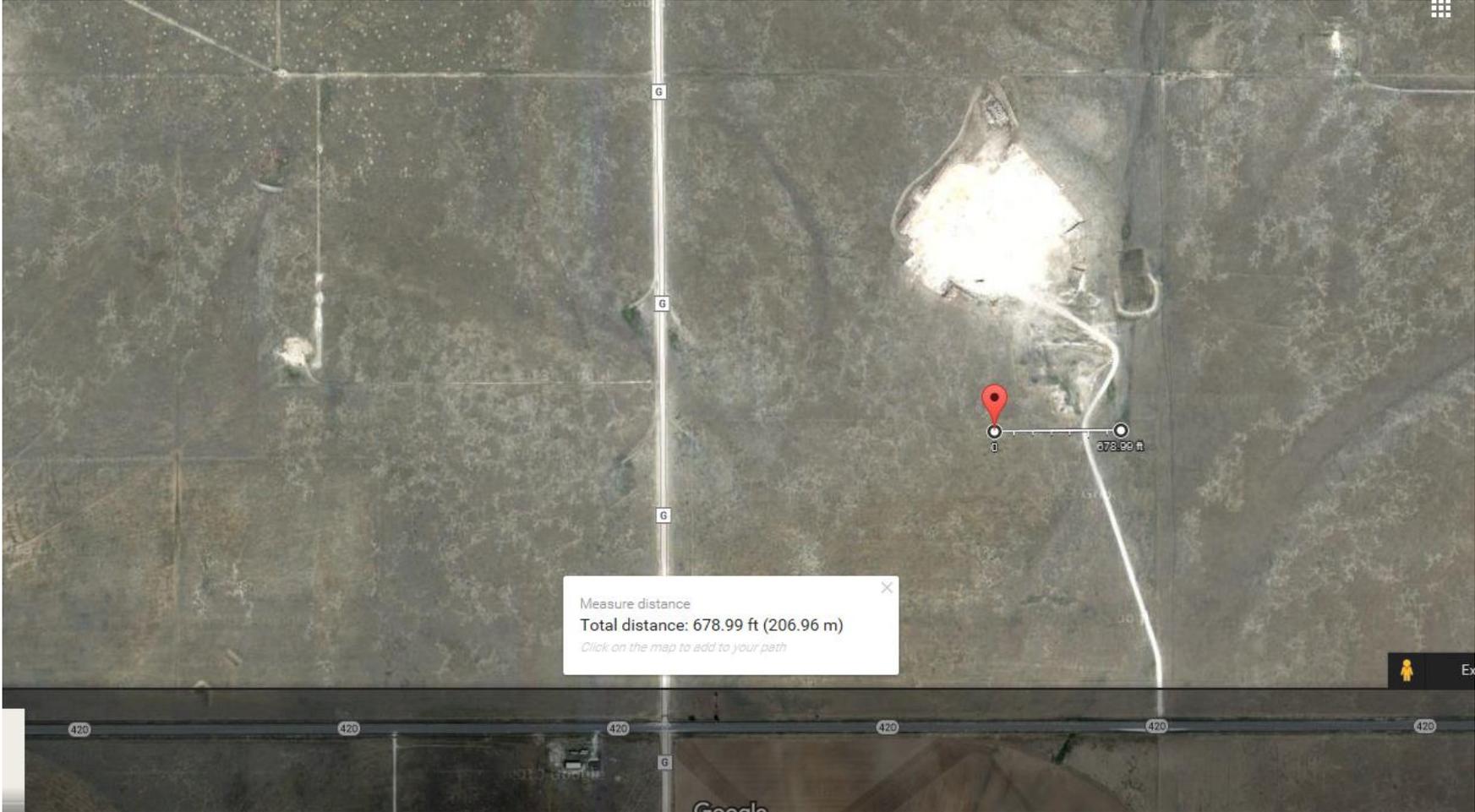
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/7/14 7:27 AM

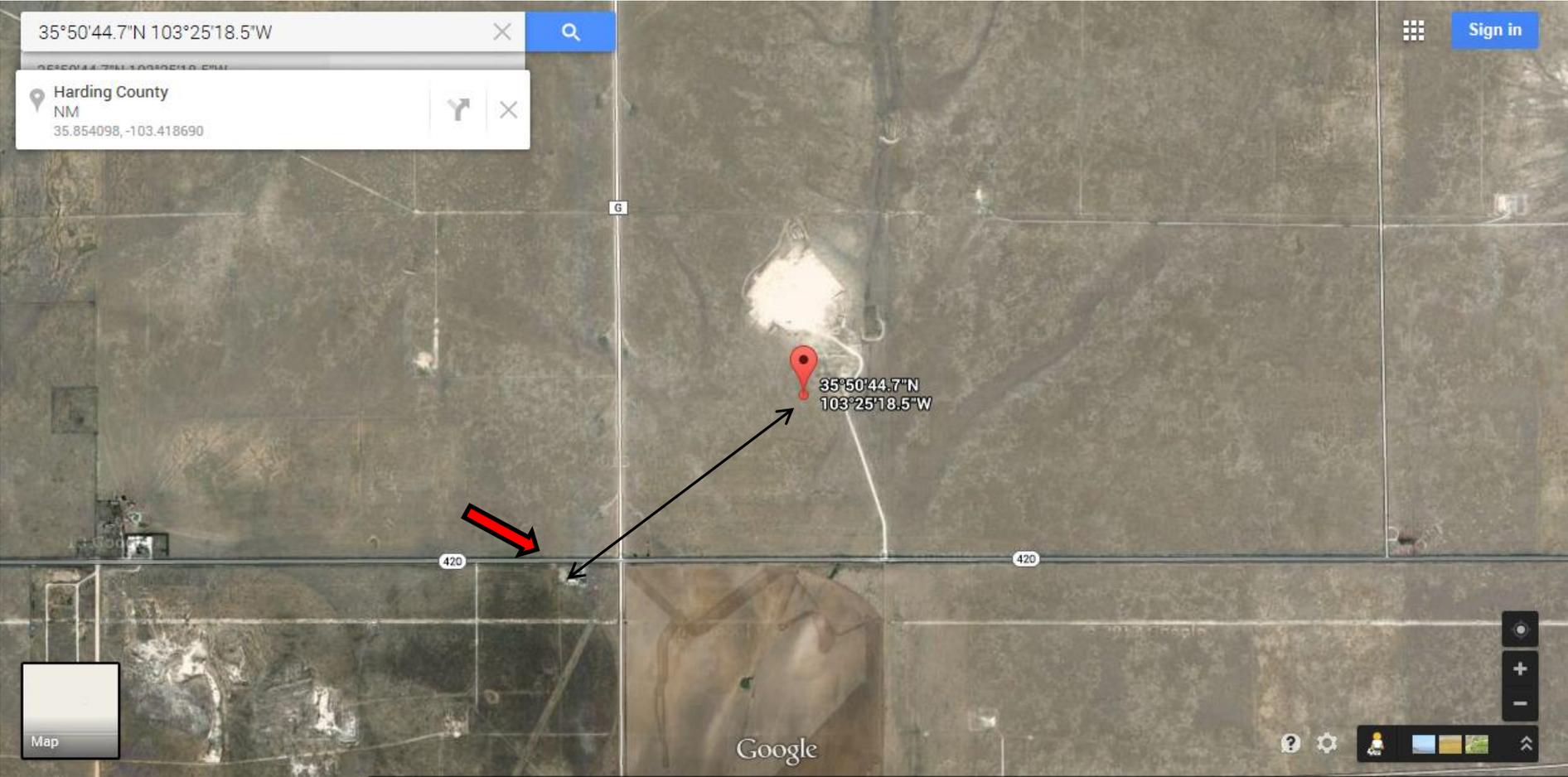
WELLS WITH WELL LOG INFORMATION

BASED ON THIS INFORMATION , OXY ESTIMATES DEPTH TO WATER TO BE > 50 FT

SITTING REQUIREMENTS : 19.15.17.10.A.(1), (b),(f)



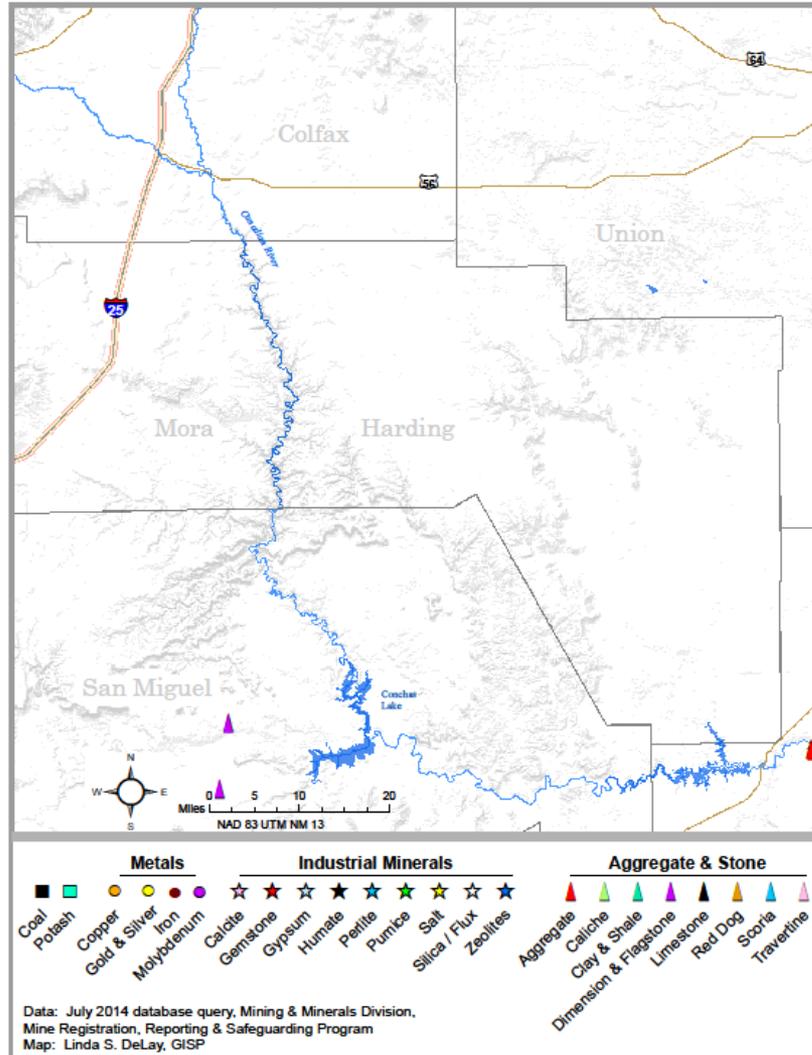
# SITTING REQUIREMENTS : 19.15.17.10.A.(1), (c)



**→** NEAREST BUILDING : 2,880 FEET

# SITTING REQUIREMENTS : 19.15.17.10.A.(1),(g).

Active Mines in Harding County, New Mexico, July 2014



# SITTING REQUIREMENTS : 19.15.17.10.A.(1), (i).

## Search by Address

Enter an address, place, or coordinates:

-103.4220476 35.8455688



To find your flood map, enter an address, a place, or a set of longitude/latitude coordinates. The map will zoom in and show the boundaries of the flood map for the chosen location. When a specific flood map is selected, view and download options for that map will appear.

## Welcome to Search by Address

The Search by Address feature of the MSC website enables you to enter an address, a place, or a set of longitude/latitude coordinates to find the effective flood map for that location. After locating the flood map, you can view or download it, as well as view or download any Letters of Map Change (LOMC) issued for that flood map.

**Legend:**

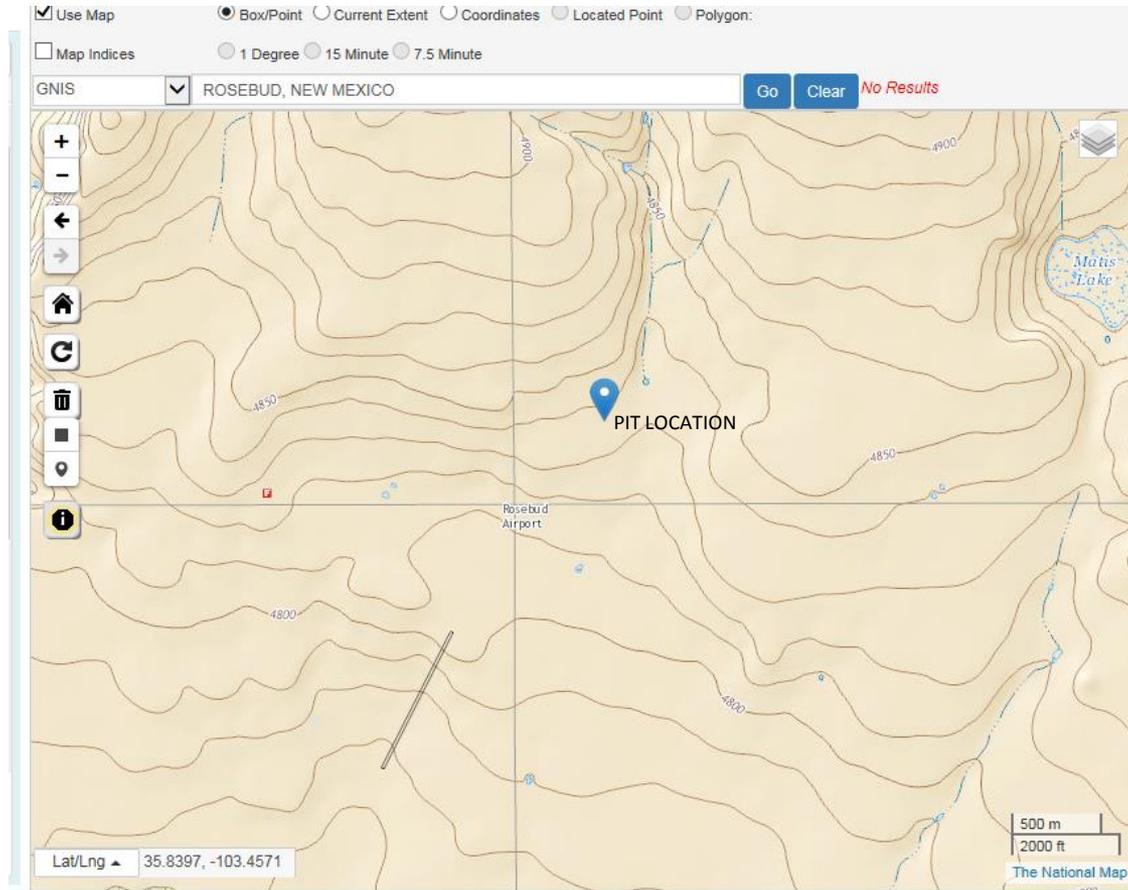
- Selected Flood Map Boundary
- Printed Flood Map Boundary
- Non-printed Flood Map Boundary
- Unmapped Area

POWERED BY **esri**

Esri, HERE, DeLorme, MapmyIndia, © OpenStreet...

**SITTING REQUIREMENTS : 19.15.17.10.A.(1), (e) & (h) are met:**

- 1) (e) no municipality is located within miles of this location**
- 2) (h) land layout is of gentle slopes.**





OXY USA Inc.  
P.O. 4294  
Houston, TX 77210-4294

July 20, 2015

Jana Rhea Lees  
6 Southpark Drive  
Dalhart, TX 79022

CERTIFIED MAIL – 7014 2870 0000 2009 4222

**Re: Bravo Dome Unit 1933-272K – Reserve Pit Closure Notice  
Section 27, T19N, R33E**

Dear Ms. Lees:

Please be advised, OXY USA Inc. plans to commence reserve pit closure activity on the captioned well location site during the week of July 27<sup>th</sup>, 2015.

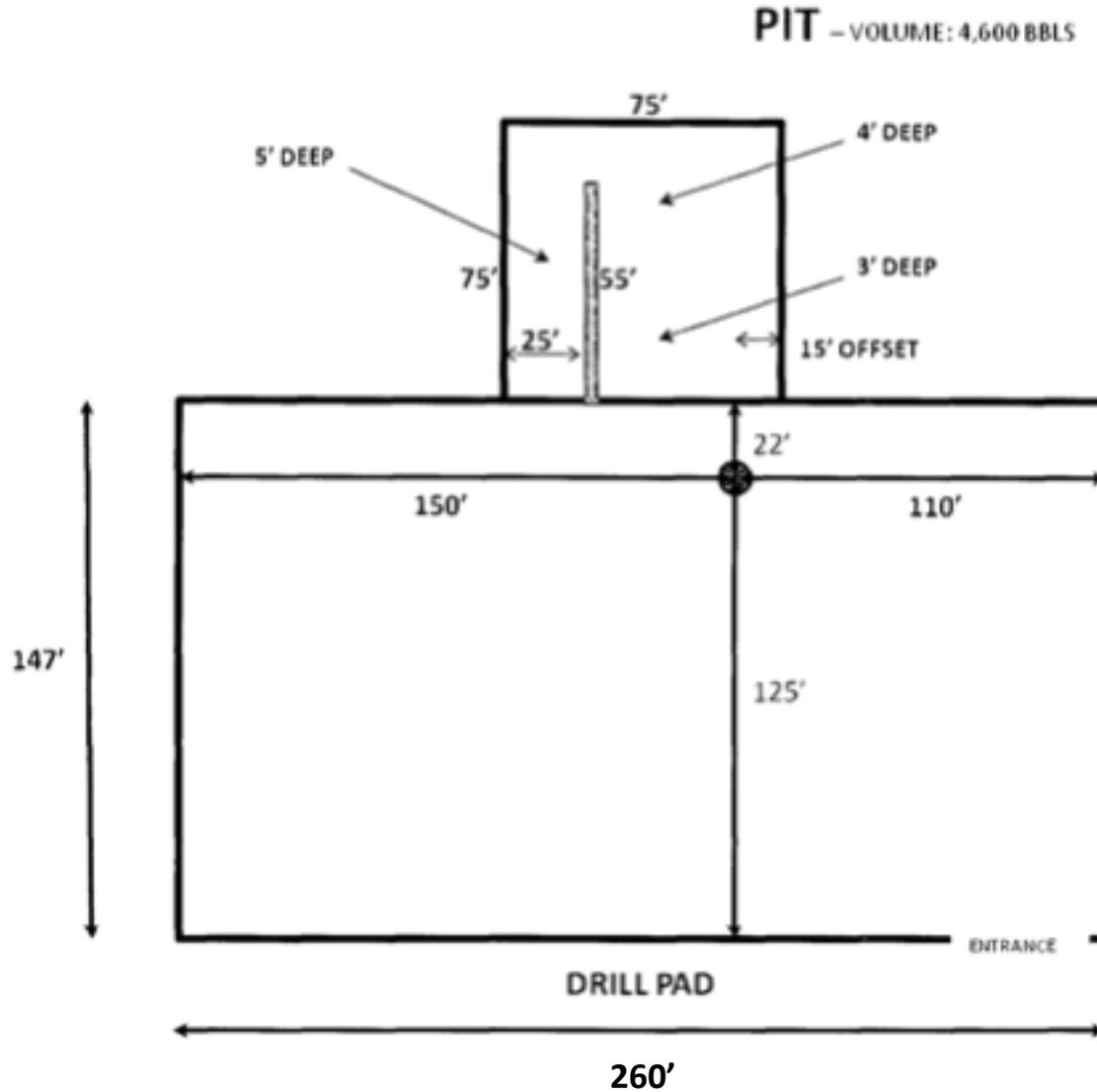
If you have any questions or concerns, please feel free to contact me at (713) 366-5774 office or my cell (281) 727-9832.

Respectfully,

David Woest  
Landman Sr.  
OXY USA Inc.

PIT DESIGN

GPS Coordinates of Pit Marker & Center of Pit :  
N 36.2121885 , W -103.4415517



# LOCATION OF TESTING POINTS



**Analytical Results For:**

 OXY USA WTP, LP  
 ALBERT GUISSANT  
 770 ROSEBUD HWY  
 AMISTAD NM, 88410  
 Fax To:

Received:	04/30/2015	Sampling Date:	04/28/2015
Reported:	05/07/2015	Sampling Type:	Soil
Project Name:	WEST BRAVO DOME	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Herson
Project Location:	HARDING COUNTY, NM		

**Sample ID: 1933-272K (H501130-01)**

BTEX 80218		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2015	ND	1.90	95.2	2.00	0.220		
Toluene*	<0.050	0.050	05/05/2015	ND	1.71	85.6	2.00	0.421		
Ethylbenzene*	<0.050	0.050	05/05/2015	ND	1.64	82.0	2.00	2.17		
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.39	89.8	6.00	2.17		
Total BTEX	<0.300	0.300	05/05/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	05/05/2015	ND	416	104	400	0.00		

TPH 418.1		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	463	100	05/05/2015	ND	5020	100	5000	6.84		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528		
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44		

Surrogate: 1-Chlorooctane 91.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.9 % 52.1-176

Cardinal Laboratories

\* = Accredited Analyte

LABORATORY: Liability and Damages: Cardinal's facility and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clients, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results were only for the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celest D. Keene, Lab Director/Quality Manager

**WELL NAME: BCDGU 19 33 27 2 K**

**Temporary Drilling Pit – Closure Plan**

In accordance with Rule 19.15.17.9 and 19.15.17.13 NMAC the following information describes the closure requirements of temporary pits on locations. This is OXY Bravo Dome's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to NMOCD within 60 days of pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering , where applicable
  - Plot Plan ( Pit Diagram)
  - Inspection Reports
  - Sampling Results
1. Prior to commencement of closure operations OXY will obtain approval of the closure plan submitted with the permit application.
  2. The preferred method of closure for the temporary pit will be on-site burial, assuming that all siting criteria as outlined in 19.15.17.13.D.2 are met. OXY will report the exact location of the onsite burial on form C-105 as part of the closure report.
  3. Free standing liquids will be removed as soon as practical for recycle use in the drilling of other wells. Any free standing liquids that are not recycled will be removed prior to pit closure and disposed of in a division-approved facility , Sundance Services, Inc. Parabo Disposal Facility (Permit # NMOCD R-5516), unless they are recycled, reused, or reclaimed in a division district office-approved manner.
  4. Pit solids will be allowed to air dry as completely as possible prior to starting pit closing activities.
  5. The pit will be stabilized with clean non-waste containing earthen material with a ratio no more than 3:1
  6. After stabilization, the contents of the pit will be tested to determine whether concentrations are below standards. A five-point composite sample will be collected. The samples will be sent to an approved laboratory and analyzed for benzene, total BTEX, TPH, the GRO and DRO combined fraction, and chlorides. Assuming water could be encountered at depth > 100 feet, based on offset well TU 00567, Figure 3, the following should not be exceeded:

Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
	Chloride	EPA Method 300.0	80,000mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
>100 feet	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

\*Or other test methods approved by the division

\*\* Numerical limits or natural background level, whichever is greater  
[19.15.17.13 NMAC – Rp, 19.15.7.13 NMAC, 6/28/13]

7. If the contents are above the concentration limits after stabilization OXY will comply with 19.15.17.13.C (Waste Excavation and Removal).
8. Upon completion of testing, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater
9. All contents, including synthetic pit liners, will be buried in place. By folding outer edges of the pit liner to overlap waste material, and then installing geomembrane liner cover that is 20 mil string reinforced LLDPE, synthetic material, impervious, resistant to ultra violet light, petroleum hydrocarbons, salts, acid and alkaline.
10. The surface owner shall be notified of OXY Bravo Dome's proposed closure plan using a means that provides proof of notice i.e., certified mail, return receipt requested, at least 72 hours but not more than one week prior to closure of the Temporary Pit. The notice shall include well name, API number and location.
11. If on site burial is on private land, OXY will file a deed notice identifying the exact location of the onsite burial and the county clerk in the county where the onsite burial occurs
12. Notice of Closure will be given to the appropriate Division office between 72 hours and one week of closure, via email, or verbally. The notification of closure will include the following:
  - I Operator's name
  - II Location by Unit Letter, Section, Township, and Range
  - III Well name and API number
13. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker will include a threaded collar to be used for future abandonment. The variance

A FOUR FOOT  
TALL RISER WAS  
INSTALLED  
DIRECTLY AS PER  
NMAC  
19.15.17.13.F(3)

will provide equal or better protection of fresh water, public health and the environment:

While the well pad is active the top of the marker will contain a welded steel 12" square plate that including the following: Operator Name, Lease Name, Well name and number, Unit Letter, Section, Township, Range and an indicator that the marker is an onsite burial location

Upon the abandonment of all the wells on the pad. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information include the following: Operator Name, Lease Name, Well name and number, Unit Letter, Section, Township, Range and an indicator that the marker is an onsite burial location. 19.15.17 NMAC.

14. Within six (6) months of the Rig Off status occurring, OXY Bravo Dome will ensure that temporary pits are closed, re-contoured
15. Re-contouring of location will match fit, shape, line, form and texture of the surrounding as closely as possible. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
16. Seeding will be accomplished by drilling on the contour whenever practical, or by other division-approved methods. Vegetative cover will be considered complete when there is a life form ratio of +/- 50% of pre-disturbance levels with at least 70% total plant cover of pre-disturbance level (Excluding Noxious Weeds) OR in accordance to 19.15.17.13.H.5.
17. Revegetation will be planted in the first favorable growing season after the pit is closed 19.15.17.13.H.5.b.
18. The division will be notified when reclamation is considered complete, as defined in 19.15.17.13.H.5. c.
19. Within 60 days of closure, completion, a closure report will be submitted on the form C-144, with necessary attachments, to document closure activities, including sampling results, a plot plan, and backfilling details. In this closure report, OXY will certify that all information in the report and attachments is correct and that OXY has complied with all applicable closure requirements and conditions specified in the approved Closure Plan. A plat of the temporary pit location will be provided on form C-105.



# Range Planting

## Conservation Practice Job Sheet 550

Natural Resources Conservation Service (NRCS) March, 2014

Client: Looney Soils Tract: \_\_\_\_\_ Farm No.: \_\_\_\_\_

Planner: \_\_\_\_\_ Field(s) No.: \_\_\_\_\_

Current Land Use: \_\_\_\_\_ Total Acres: 100

MLRA: HP-1 Date: \_\_\_\_\_ Planting Date: Jan 1 to Aug 1

See attached drawing or photo for the layout and location of the fields to be planted.

### Purposes (check all that apply)

Restore a plant community  Forage for livestock  Provide browse, cover for wildlife

Reduce erosion by wind, water  Improve water quality, quantity  Increase carbon sequestration

### Plant Materials Information (all rates are based on 20 plants/ft<sup>2</sup> PLS)<sup>1</sup>

Note: Seed Rate (lb/acre) = (20 plants/ft<sup>2</sup> needed) (Seeds per lb) (1/1000000) (% of mix) (1/Weight) (% purity)

Species/Cultivar	% of Mix	Seeding Rate	Avg. Purity	Seed Tag Purity	Avg. Germ.	Seed Tag Germ.	Total Mix per acre
	(%)	(lb/acre)	(%)	(%)	(%)	(%)	(lb/acre)
Grass, Blue (Hatchia)	20%	0.30	100%		100%		
Grass, Sideoats	30%	1.37	100%		100%		
Clover, Sweet	4%	0.53	100%		100%		
Wheatgrass, Western (Barton)	40%	3.17	100%		100%		
TOTAL	100%						4.87

### Plant Material Summary

Species/Cultivar (Name)	Seed to Buy (lb)	Cover Crop or Dead Litter Crop (if used)	
		Rate (lb/acre)	Amount to Buy (lb)
Grass, Blue (Hatchia)	30.30	Straw	400,000
Grass, Sideoats	138.54		
Clover, Sweet	15.30		
Wheatgrass, Western (Barton)	358.80		
GRAND TOTAL	497.14		

### Establishment procedures and Other Management Actions

#### Site Preparation (tilling and type of equipment)

1. Prepare a firm weed free seedbed. (The heel of the boot should not sink in more than 1/2 to 1 inch).
2. A standard soil test is recommended. See Nutrient Mgt 590 standard on the NRCS website for the required fertilizer to establish planting.

I have mixed this ration for 100% rather than 50%. I would consider more of what you are trying to accomplish a critical area planting than range planting since there is no other coverage. You can adjust this accordingly if you would like to change anything. I would recommend that whatever you choose to keep it at the higher rate of 100%-200% since it is bare ground.

#### Planting Method(s)

1. Drill grass and legume seed uniformly over the area to a depth of approximately 10 times the average diameter of the seed.
2. Plant the recommended rate(s) (lb/acre) on date(s) listed above.

#### Additional Notes:

#### Maintenance

1. The cover will be maintained by occasional mowing, spot spraying, reseeding weak areas, or by controlled burns. If burning is needed, see the Prescribed Burning 338 practice standard. Ask your Conservation Planner for a copy.

2. After the first full season of growth (not the first year) the cover should be mowed or grazed to control annual weeds and to encourage good growth. Timing of mowing should avoid nesting times of birds (Mar-June).

Additional Notes: NRCS standards and specifications recommend that grasses be planted Jan 1 to August 1. This is optimum timeframe, but anytime in between is fine. Before our monsoons hit would be best and to have cover for summer months.

#### Job Approval and Completion

I agree to install this practice as designed and planned.

Client: \_\_\_\_\_ Date: \_\_\_\_\_

This practice is designed and planned according to NRCS NM Standards and Specifications.

Conservationist: Shane Taylor Date: 4-15-15

STATE OF NEW MEXICO

§  
§  
§

COUNTY OF HARDING

This notice is filed to provide information concerning the location of a temporary drilling pit closure site affecting real property (Property) described as the SW4 of Section 27, Township 19 North, Range 33 East.

In accordance with NMOCD rule 19.15.17.13, a temporary drilling pit closure site related to the OXY USA Inc. Bravo Dome Unit well 1933-272K, API 30-021-20636 is marked on the Property with a steel pole having the GPS coordinates of 35.8455688N, 103.4220476W.

EXECUTED on this 21<sup>st</sup> day of September, 2015

OXY USA Inc.

By: 

Name: David J. Woest

Title: Attorney-in-fact

The foregoing instrument was acknowledged before me on this the 21<sup>st</sup> day of September, 2015, by David J. Woest, Attorney-in-fact of OXY USA INC., a Delaware corporation, on behalf of said corporation.



# BDU 19 33 27 2 K

## MAJOR WORK SUMMARY

- June 22, 2015 – Mixed dry dirt into pit
- July 8, 2015 – Stirred pit
- July 14, 2015 – Checked on pit
- July 28, 2015 – Closed pit
- August 6, 2015 – Smooth area with grader, Re-seed pit & install pit marker

