

BDU 22 32-27 1 G
API: 30-059-20551
Pit closure information

GPS Coordinates of Pit Marker & Center of Pit :
36.1109169 , -103.5131919

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) PICTURE OF LOCATION SHOWING PIT AREA AND MARKER

ORIGINAL C - 144

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

**Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application**

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

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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.

1.
Operator: Occidental Permian Ltd. OGRID #: _____
Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046
Facility or well name: Bravo Dome Unit Well 2232-271G
API Number: 30-059-20551 OCD Permit Number: _____
U/L or Qtr/Qtr 1700 FNL/1700 FEL Section 27 Township 22N Range 32E County: Union
Center of Proposed Design: Latitude 36° 06' 38.45" Longitude 103° 30' 47.20" NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.
 Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
 Permanent Emergency Cavitation P&A
 Lined Unlined Liner type: Thickness 20 mil LLDPE HDPE PVC Other _____
 String-Reinforced
Liner Seams: Welded Factory Other _____ Volume: 4000 bbl Dimensions: L 75 x W 75 x D 4

3.
 Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
 Drying Pad Above Ground Steel Tanks Haul-off Bins Other _____
 Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Other _____
Liner Seams: Welded Factory Other _____

4.
 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 _____

5.
 Alternative Method:
Submission of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6. **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 _____

7. **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)

8. **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 19.15.3.103 NMAC

9. **Administrative Approvals 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:

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

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

10. **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. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or plays lake (measured from the ordinary high-water mark). - 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - IWATERS database search; 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 500 feet of a wetland. - 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 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

11. **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: _____

12. **Closed-loop Systems 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.

Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
 Siting Criteria Compliance Demonstrations (only for on-site closure) - 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: _____
 Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13. **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 H₂S, 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

14. **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 Closed-loop System
 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15. **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 F 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 I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____
 Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
 Yes (If yes, please provide the information below) No

Required for impacted areas which will not be used for future service and operations:
 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 I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17. **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 may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
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). - 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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; 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 500 feet of a wetland. - 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 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

18. **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 F of 19.15.17.13 NMAC
 Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 Subsection F of 19.15.17.13 NMAC
 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

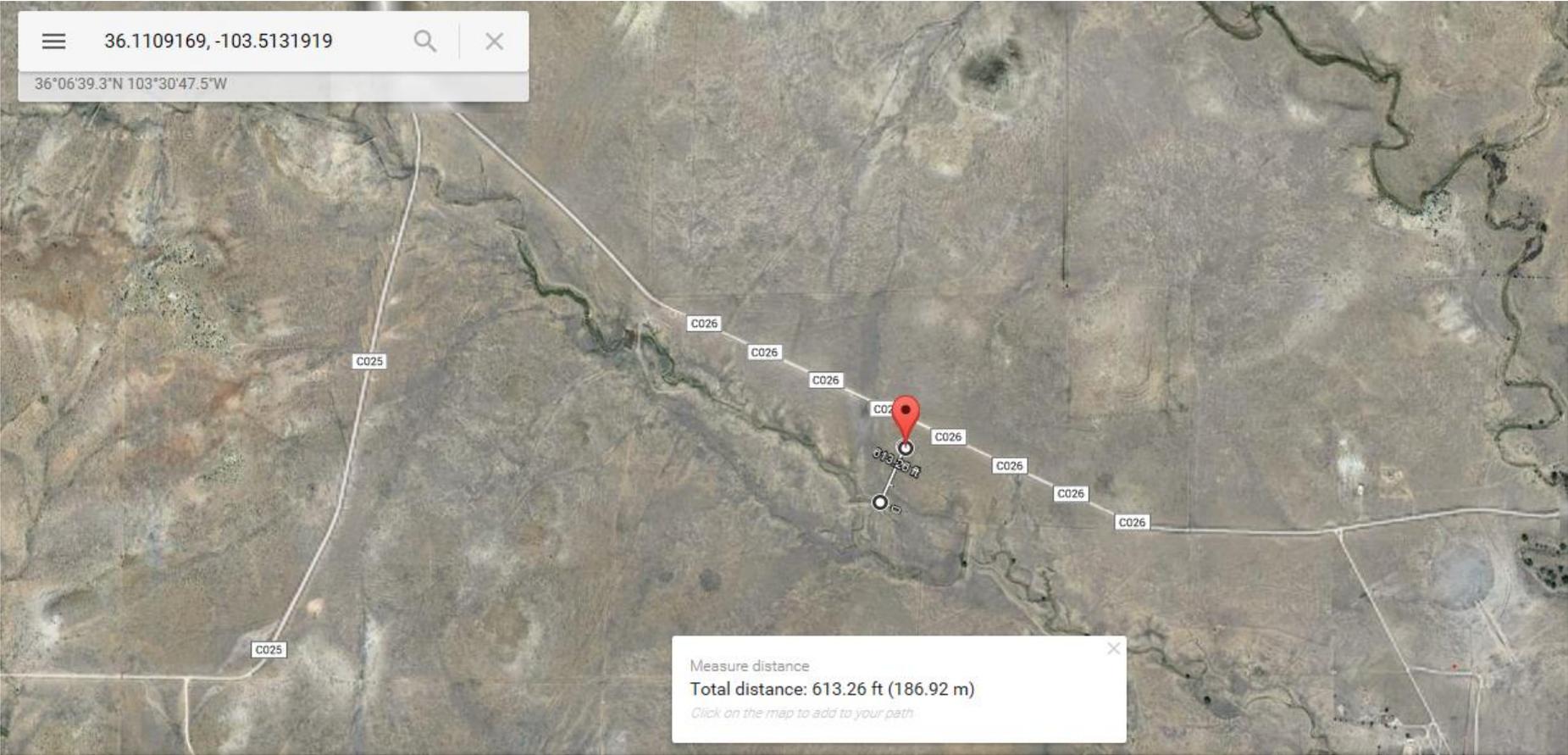
SITTING REQUIREMENTS, 19.15.17.10.A.(1)

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

WELL:	<u>22 32 27 1 G</u>		
NEW MEXICO OFFICE OF THE STATE ENGINEER			
OFFSET AREA :		DEPTH OF WELL	
SECTIONS WITHIN ONE MILES RADIUS			
	22N- 32E, SECTIONS 21,22,23,26,27,28,33, 34, 35	NO DATA	
NEAREST SECTIONS WITH DATA			
	SOUTH		
	21N - 32E, SEC :		
	02	210'	
	03	165'	
	03	110'	

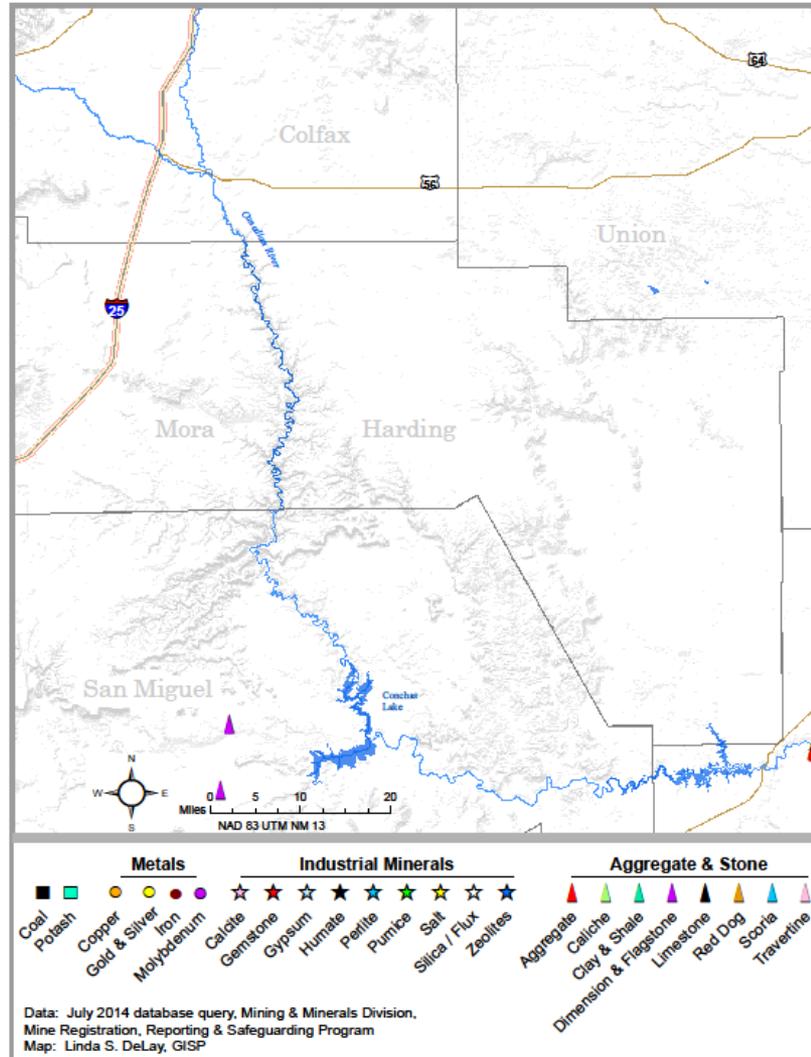
BASED ON THIS INFORMATION OXY ESTIMATES TOP OF WATER AT A DEPTH > 50 FT FROM SURFACE.

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



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).



FEMA



Search by Address ?

Enter an address, place, or coordinates:

-103.5131919, 36.1109169



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.

The map displays a satellite view of a landscape with a river and a road. A white line indicates the boundary of the selected flood map. A legend in the bottom left corner identifies the map features:

- Selected Flood Map Boundary (solid blue line)
- Printed Flood Map Boundary (dashed blue line)
- Non-printed Flood Map Boundary (dotted blue line)
- Unmapped Area (blue hatched area)

Map controls include a zoom in (+) and zoom out (-) button on the left, and a street view inset in the top right corner. The map is powered by Esri, HERE, DeLorme, MapmyIndia, and OpenStreetMap.



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

July 20, 2015

Barry Lee Poling
P.O. Box 35
Texline, TX 79087

CERTIFIED MAIL – 7012 3460 0003 3180 8156

**Re: Bravo Dome Unit 2232-271G – Reserve Pit Closure Notice
Section 27, T22N, R32E**

Dear Mr. Poling:

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

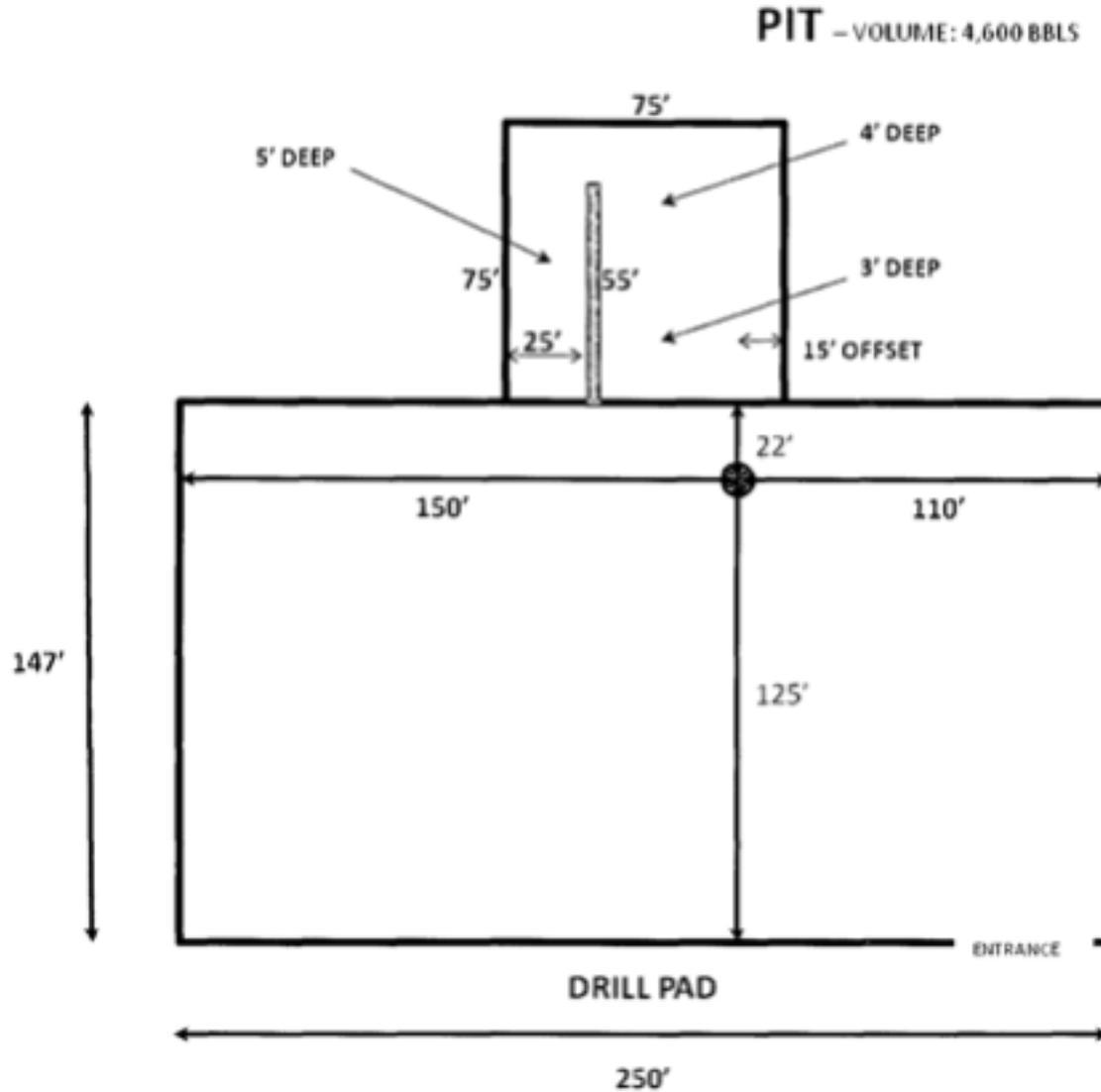
If you have any questions or concerns, please feel free to contact me at (713) 366-5774 office or my cell (281) 727-9832.

Respectfully,

David Woest
Landman Sr.
OXY USA Inc.

PIT DESIGN

GPS Coordinates of Pit Marker & Center of Pit :
36.1109169 , -103.5131919



LOCATION OF TESTING POINTS



Analytical Results For:

 OXY USA WTP, LP
 ALBERT GUISSANI
 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 Henson
Project Location:	HARDING COUNTY, NM		

Sample ID: 2232-271G (H501130-02)

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) 108 % 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	27200	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	349	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	47.6	10.0	05/04/2015	ND	203	102	200	1.44	

Surrogate: 1-Chlorooctane 90.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.3 % 52.1-176

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 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:

Table II Closure Criteria for Burial Trenches and Waste Left in Place in Temporary Pits			
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
		Chloride	EPA Method 300.0
>100 feet	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	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

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/ft² PLS)¹

Note: Seed Rate (lb/acre) = (20 plants/ft² needed) (Seeds per lb) (0.000001) (% of mix) (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 (Hachita)	20%	0.30	100%		100%		
Grass, Sideoats	30%	1.37	100%		100%		
Clover, Sweet	4%	0.53	100%		100%		
Wheatgrass, Western (Barton)	40%	3.57	100%		100%		
TOTAL	100%						4.87

if seed tag % not filled in then value is PLS/ otherwise is BULK

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 (Hachita)	50.30	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

DEED NOTICE

STATE OF NEW MEXICO §
 §
COUNTY OF UNION §

This notice is filed to provide information concerning the location of a temporary drilling pit closure site affecting real property (Property) described as the NE4 of Section 27, Township 22 North, Range 32 East.

In accordance with NMOCD rule 19.15.17.13, a temporary drilling pit burial site related to the OXY USA Inc. Bravo Dome Unit well 2232-271G, API 30-059-20551 is marked on the Property with a steel pole having the GPS coordinates of 36.1109169N, 103.5131919W.

EXECUTED on this 21st 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 21st day of September, 2015, by David J. Woest, Attorney-in-fact of OXY USA INC., a Delaware corporation, on behalf of said corporation.





From: Lowe, Leonard, EMNRD
To: ["Albert_Giussani@oxy.com"](mailto:Albert_Giussani@oxy.com)
Cc: [Jones, William V, EMNRD](mailto:Jones.William.V.EMNRD); [Griswold, Jim, EMNRD](mailto:Griswold,Jim.EMNRD)
Subject: RE: pit closure reposts
Date: Tuesday, November 10, 2015 9:35:00 AM

Mr. Al Giussani,

OCD has reviewed your submittal for pit closure for:

NAME: BDU 22 32 – 27 1 G
API #: 30-059-20551

Original C-144 application and closure was approved on September 12, 2011.

This pit will be considered closed once revegetation has been verified, Reclamation NMAC 19.15.17.13, H. Photographs shall be submitted to the OCD for proof.

The following items were missing from your closure:

1. 19.15.17.13 NMAC E, closure notice

Please submit.

Please keep in mind the time frame of pit closures for future pits. If the contents of the pit are still considered “wet”, the liquids shall be removed and properly disposed of. Pits should not be open more than 60 days. If there may be an exceedance of that time frame an extension for pit closure must be submitted to the District 4 office, prior to exceeding the time limit.

Leonard Lowe

Engineering Bureau

Oil Conservation Division

Energy Minerals and Natural Resources Department

1220 South St. Frances

Santa Fe, New Mexico 87004

Office: 505-476-3492

Fax: 505-476-3462

E-mail: leonard.lowe@state.nm.us

Website: <http://www.emnrd.state.nm.us/oed/>

From: Albert_Giussani@oxy.com [mailto:Albert_Giussani@oxy.com]

Sent: Thursday, October 08, 2015 11:55 AM

To: Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>

Subject: pit closure reposts

Mr. Lowe,

As you are aware 3 temporary pits have been closed and the 4th for which we received permission to deep trench is in the process of being closed, copies of the ground test analysis for the area below the pit's lining were sent to you on 10/7/2015.

I am enclosing the first of the pit closure reports I am putting together, did not want to wait for all four to be ready instead I figure I sent the first one , this will give you a chance to review and send my way any feedback that you might have as to shortcomings or additional info you need.

Thank you in advance for your help .

Respectfully,

Alberto (Al) Giussani
Senior Engineering Advisor, Reservoir
OXY USA Inc.

Phone: Cellular: 806 638 1296