Title:

432-685-5717

Approval Date:

Attached

Conditions of Approval:

Expiration Date

#4.5

E-mail Address: david stewart@oxy.com

Sr. Regulatory Analyst

Printed name: David Stewart

7/29/08

Title:

Date:

District I 1625 N. French Dr., Hobbs, NM 88240 811 South First, Artesia, NM 88210

District III

State of New Mexico Energy, Minerals & Natural Resources Department

Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

State Lease – 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

Form C-102

District IV 2040 South Pacheco, Santa Fe, NM 87505

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Numb	er	Po	ol Code	w:ld	cat		Pool Name			
30-021-20	489	9 96010		BRAVO DOME CAI		ARBON	DIOXIDE	GAS	160	
Property Code			Pro	operty Name		·			Well Num	ber
27111	BRAVO	DOME	CARBON	DIOXIDE	GAS	UNIT	2030		121	
OGRID No.			Op	erator Name					Elevation	n
16696			OXY	USA INC.					4628.	4
			~							

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
F	12	20 N	30 E		1700'	NORTH	1700'	WEST	HARDING

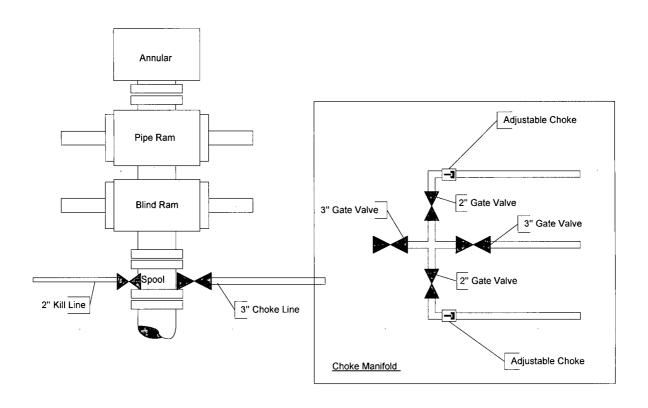
Bottom Hole Location If Different From Surface

	UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
						,				
ſ	Dedicated Acres	s Joint o	or Infill (Consolidation	Code C	order No.		,		
	160	N								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

12			OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
1700'	,0021 — 1	 	Signature David Stewart
	NM-E NAD27 Lat - 35° 58'56.45" Lon - 103° 42'28.90" X - 685002.77 Y - 1813394.35		Printed Name Sr. Regulatory Analyst Title T(25(08) Date
			SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
			Date of Survey Signature and seal of Professional Shreeton
			Certificate Number 15079

9" BOP - 3000psi



2 CASING STRING

Casing design

Hole Size: 12 1/4" Surface @ +/- 1100' 9 5/8" 36# J-55

Hole Size: 8 1/2"

Production @ +/- 2700'

7" 23# J-55

Cementing Design

Surface Casing

Fluid 1: Precede cement with 20 bbl

Fresh Water Fluid Volume: 20 bbl

Fluid 2: Mix and pump 655 sks

Premium Plus Cement 94 lbm/sk Premium Plus Cement (Cement)

Slurry Yield: $1.35 \text{ ft}^3/\text{sk}$ **Total Mixing Fluid:** 2 % Calcium Chloride (Accelerator) 6.39 Gal/sk

Top of Fluid:

0 ft Calculated Fill: 700 ft

Fluid Weight

Volume: 139.85 bbl

0 ft

14.80 lbm/gal

Production Casing

Fluid 1: Precede cement with 20 bbl

Fresh Water Fluid Volume: 20 bbl

Fluid 2: Lead with 215 sks

MidCon-2 Premium Plus Fluid Weight 11.1 lbm/gal

 $3.27 \text{ ft}^3/\text{sk}$ 2 % Calcium Chloride (Accelerator) Slurry Yield:

1 lbm/sk Pheno Seal - Blend (Lost Circulation Additive)

Top of Fluid:

Volume: 125.21 bbl

Fluid 3: Tail-in with 150 sks

Premium Plus Cement Fluid Weight 13.2 lbm/gal 94 lbm/sk Premium Plus Cement (Cement) $1.35 \text{ ft}^3/\text{sk}$ Slurry Yield: Total Mixing Fluid: 2 % Calcium Chloride (Accelerator) 6.39 Gal/sk

Top of Fluid: 2420 ft Volume: 36.07 bbl

Drilling Fluid Program

Surface Hole

12-1/4" O	12-1/4" Open Hole - (0'- 1,100') - 9-5/8" Casing		
Drilling Fluid System	Fresh Water/M-I Gel Spud Mud		
Key Products	M-I Gel, Soda Ash, Drilling Paper, Lime, Fibrous LCM		
Solids Control	Adjustable Linear Shaker		
Potential Problems	Seepage Losses, Total Losses, Hole Cleaning		

	Interval C	rilling F	luid Prop	perties	
Depth Interval (ft)	Mud Weight (lb/gal)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²⁾	API Fluid Loss (ml/30min)	Drill Solids (%)
0 - 1,100	8.4 - 8.8	2 - 4	3 - 5	NC	<5.0

Production Hole

	2700			
8 1/2" Open Hole - (1,100'- 3 ,100 ') - 7" Casing				
Drilling Fluid System	Fresh Water (optional)			
Key Products	MI Gel, My-Lo-Jel, MF-55, Fibrous LCM, MI Bar, Caustic Soda,			
	Duo Vis (optional)			
Solids Control	Reserve Pit, Adjustable Linear Shaker			
Potential Problems	Seepage Losses, Total Losses, Hole Cleaning			

	Interval D	Prilling F	luid Pro	perties	4.2
Depth Interval (ft)	Mud Weight (lb/gal)	Plastic Viscosity (cp)	Yield Point (lb/100ft ²⁾	API Fluid Loss (ml/30min)	Drill Solids (%)
1,100 - 2,300	8.4 - 8.6	1 - 2	1 - 2	NC	<5
*1,100-2,300	8.4 - 8.6	1 - 2	1 - 2	10	<5
2,300 - 3,100	8.4 - 10.0	8 - 12	10 - 14	8 - 10	<2

Form C-144 June 24, 2008

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

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 coal 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

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. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance

environment. Nor does approval relieve the operator of its responsibility to com	oly with any other applicable governmental authority's rules, regulations or ordinances.
Operator: _OXY USA Inc.	OGRID #:
Address: P.O. Box 303 Amistad NM 88410	
Facility or well name: Bravo Dome Unit Well 2030-121f	
API Number: 30 -021-20489	OCD Permit Number:
U/L or Qtr/Qtr 1700' North 1700' West Section 12 To	wnship 20N Range 30E County: Harding
Center of Proposed Design: Latitude 35 degrees 58' 56.45" L	ongitude 103 degrees 42' 28.90" NAD: ☐1927 ☒ 1983
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian	Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop System: Subsection H of 19.15.17.11 NMAC
Temporary: 🛛 Drilling 🔲 Workover	☐ Drying Pad ☐ Tanks ☐ Haul-off Bins ☐ Other
Permanent Emergency Cavitation Steel Pit	☐ Lined ☐ Unlined
☐ Lined ☐ Unlined	Liner type: Thicknessmil
Liner type: Thickness 20mil ☐ LLDPE ☐ HDPE ☐ PVC	☐ Other
Other String-Reinforced	Seams: Welded Factory Other
Seams: Melded Factory Other	Volume:bblyd ³
Volume: 1525 bbl Dimensions: L 80' x W 80' x D 10'	Dimensions: Lengthx Width
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC
Volume:bbl	☐ Chain link, six feet in height, two strands of barbed wire at top
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and
Tank Construction material:	four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other
☐ Visible sidewalls and liner	Monthly inspections
☐ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC
Other	12'x24', 2' lettering, providing Operator's name, site location, and
Liner type: Thicknessmil HDPE PVC	emergency telephone numbers
Other	☐ Signed in compliance with 19.15.3.103 NMAC
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.
of approval.	Please check a box if one or more of the following is requested, if not leave blank:

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	☐ Yes ⊠ No
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	☐ Yes ☒ 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	☐ Yes ☑ No ☐ 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	☐ Yes ☑ No ☐ 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	☐ Yes ⊠ 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	☐ Yes ☒ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No
 Within an unstable area. 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 FEMA map	☐ Yes ☑ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the deattached. ☐ 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 19.15.17.1 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Closure Plan - 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:	9 NMAC
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 deattached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 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 - 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:	19.15.17.9

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 do- attached.	cuments are				
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					
Proposed Closure: 19.15.17.13 NMAC	_				
Type: 🛮 Drilling 🗌 Workover 🗌 Emergency 🔲 Cavitation 🔲 Permanent Pit 🔲 Below-grade Tank 🔲 Closed-loop System 🗀	Alternative				
Proposed Closure Method: Waste Excavation and 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 continuous descriptions.	sideration)				
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	☐ Yes ☑ No ☐ 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	Yes □ No □ 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	☐ Yes ☒ No ☐ 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	☐ Yes ⊠ 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	☐ Yes ☒ 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	☐ Yes ☒ 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	☐ Yes ☒ No				
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No				
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No				
Within an unstable area. - 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 FEMA map	☐ Yes ☒ No				

closure plan. Please indicate, by a check mark in the box, that the docu Protocols and Procedures - based upon the appropriate requiremen Confirmation Sampling Plan (if applicable) - based upon the appropriate Plan (if applicable) - based upon the appropriate Facility Name and Permit Number (for liquids, drilling floor Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Soil Re-vegetation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan - based upon the appropriate requirements of Soil Reclamation Plan -	ts of 19.15.17.13 NMAC priate requirements of Subsection F of 19.15.17.13 NMAC uids and drill cuttings) propriate requirements of Subsection H of 19.15.17.13 NMAC ubsection I of 19.15.17.13 NMAC of Subsection G of 19.15.17.13 NMAC
	off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility
or facilities for the disposal of liquids, drilling fluids and drill cuttings.	
Disposal Facility Name:	Disposal Facility Permit Number:
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: I	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 Surface Owner Notice - based upon the appropriate requirement Construction and Design of Burial Trench (if applicable) based upon the appropriate requirement Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling flor Soil Cover Design - based upon the appropriate requirements of Surface Re-vegetation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate requirements of Surface Reclamation Plan - based upon the appropriate Reclamatical Plan - based upon the appropriate Reclamatical Plan - based upon the appropriate	rements of Subsection F of 19.15.17.13 NMAC soon the appropriate requirements of 19.15.17.11 NMAC ts of 19.15.17.13 NMAC spriate requirements of Subsection F of 19.15.17.13 NMAC sements of Subsection F of 19.15.17.13 NMAC uids and drill cuttings or in case on-site closure standards cannot be achieved) ubsection H of 19.15.17.13 NMAC ubsection I of 19.15.17.13 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true	ue accurate and complete to the best of my knowledge and belief
Thereby certify that the information submitted with this approach is the	to, accurate and complete to the sest of my knowledge and senior.
Name (Print): James E. Corley	Title: Operations team Leader
Signature:	Date:
e-mail address: <u>eddie_corley@oxy.com</u>	Telephone: (575) 799-6849
OCD Representative Signature: Martin	losure Plan (only) Approval Date: 8/25/08
Title: DISTRICT SUPERVISOR	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Su	bsection K of 19.15.17.13 NMAC Closure Completion Date:
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ ☐ If different from approved plan, please explain.	Alternative Closure Method
Closure Report Attachment Checklist: Instructions: Each of the foll mark in the box, that the documents are attached.	owing items must be attached to the closure report. Please indicate, by a check
Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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	_LongitudeNAD: □1927 □ 1983
Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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:
Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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	closure report is true, accurate and complete to the best of my knowledge and
Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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 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
Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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 Operator Closure Certification: I hereby certify that the information and attachments submitted with this belief. I also certify that the closure complies with all applicable closure	closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.



Pit Design and Construction Plan

In accordance with Rule 19 15 17 the following information describes the design and construction of temporary pits on Occidental Permian Ltd (OXY) locations. This is OXY's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

- 1. OXY will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. OXY will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator, the location of the well site by unit letter, section, township range, and emergency telephone numbers.
- 4. OXY shall construct all new fences utilizing 4 strand barbed wire. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a wooded posts. Entire location including pits will be fenced at all times.
- 5. OXY shall construct the temporary pit so that the foundation and interior slope are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- 6. OXY shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.



- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. OXY will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. OXY will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. OXY will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from and fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected form run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into the lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19 15 17 11 F 11.
- 17. OXY will not allow freestanding liquids to remain on the unlined portion of the blow pit.



Maintenance and Operating Plan for Temporary Pits

In accordance with Rule 19 15 17, Occidental Permian Ltd (OXY) will maintain and operate a temporary pit in accordance with the following plan:

- 1. OXY will discharge into a temporary pit only fluids used or generated during the drilling or workover process.
- 2. OXY will maintain a temporary pit free of miscellaneous solid waste or debris.
- 3. Any hydrocarbon base drilling fluid generated during the drilling or workover operation will be contain in an appropriate tank, it will not be discharged into a temporary pit. If any measurable layer of oil from the surface of a temporary pit after any drilling or workover operation, OXY will remove it immediately.
- 4. OXY shall maintain at least two feet of freeboard for a temporary pit.
- 5. OXY will use a check list to perform a daily pit inspection while the drilling or workover rig is on-site. After drilling or workover operations, OXY will inspect the temporary pit weekly so long liquids remain in the temporary pit. A log of the inspections will be kept on the well file, inspections will be available for the district office's review upon request. OXY will file a copy of the log with the District IV office once temporary pit is closed.
- 6. OXY shall remove all free liquids from a temporary pit within 30 days from the date the drilling or workover rig is released.
- 7. OXY shall remove any liquids from the temporary pit used for cavitation within 48 hours after completing cavitation. OXY may request additional time to remove the liquids from The District IV Division Office if it is not feasible to remove the liquids with 48 hours.

Wellname:	API #:	Rig Mobe Date:			
County:	Pit liner thickness:	Rig Demobe Date:			

Inspection Date	Time	By Whom	Has any hazardous waste been disposed of in pit(s)?	Is the liner of the pit intact and free of penetrations?	Is there an oil absorbent boom on location?	Distance from top of pit to fluid level (minimum 2')		
			1					
				·				
				·				

All pits to be inspected DAILY during drilling/workover operations.

Any penetration of the pit liner shall be reported to the NMOCD within 48 hours.

OXY Bravo Dome Pit Closure Plan

In accordance with Rule 19 15 17 12 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

General Plan

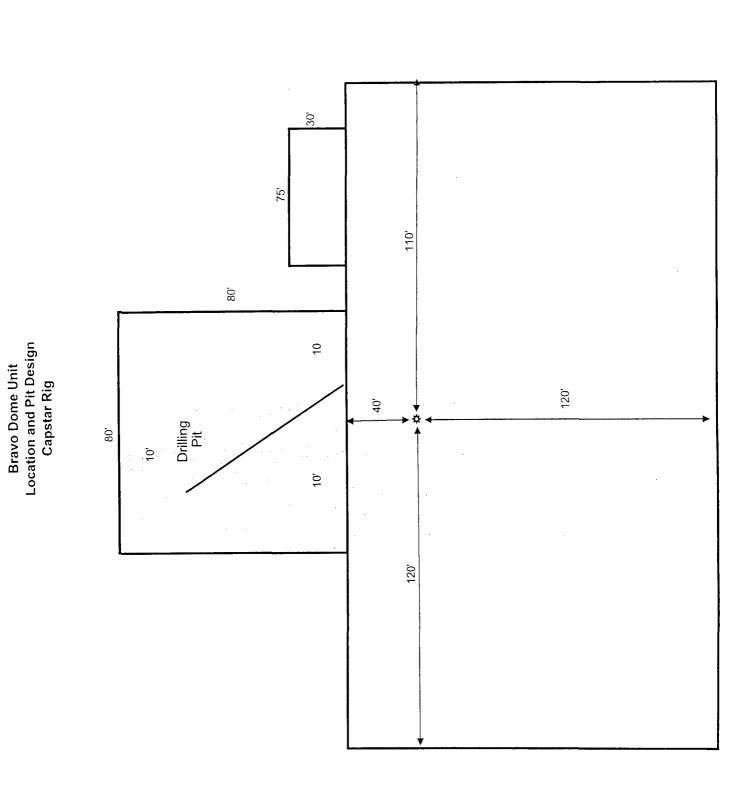
- 1. Free standing liquids will be removed as soon as practical for recycle use in the drilling of other wells. Any free standing liquids that are not recycled will be removed prior to pit closure and disposed of in a division –approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. Pit solids will be allowed to air dry as completely as possible prior to starting pit closing activities.
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (8) of 19 15 17 13 are met
- 3. 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.
- 4. Within 6 months of the Rig Off status occurring, Oxy Bravo Dome will ensure that temporary pits are closed, re-contoured.
- 5. Notice of Closure will be given to the Santa Fe 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.. Well name and API number

- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner I e, edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility
- 7. Pit contents shall be tested prior to mixing of any soils. Test results will be compared to NMOCD limits. If the test results are within the NMOCD limits no soils will be mixed with the pit contents. If the sample results exceed the NMOCD limits the contents will be mixed with non-waste containing, earthen material in order to achieve the solidification process. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents. The mixed contents will then be re-tested and the results will be compared to the NMOCD limits.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per subsection B of 19 15 17 13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19 15 17 13 i e, Dig and Haul

Composites	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418 1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300 1	1000

- 9. 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.
- 10.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.
- 11. Notification will be sent to NMOCD when the reclaimed area is seeded
- 12.Bravo Dome shall seed the disturbed areas upon abandonment of the pit and well site. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will equal 70% if the native perennial vegetative cover (un-impacted) consisting of at *least three native plant species*, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons.
- 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 upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicated the onsite burial of the temporary pit. 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 at the time of all wells on the pad are abandoned. The operator's information will include the following Operator Name, Lease Name, Well name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location



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