Form C-101 May 27, 2004

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue Artesia, NM 88210 V E
District III
1000 Rio Brazos Rd., Aztec, NM 87410

Oil Conservation Divsiion 1220 S. St. Francis Dr.

Submit to appropriate District Office

1220 S. St. Franci	•				anta Fe, l				ш	NDED REPORT
APPLIC	CATION				, RE-E	NTEF	R, DEEPEN,	PLUGBAC		
		10	perator Name an	d Address:					² OGRID Number 16696	•
OXY USA Inc.								³ API Number		
P.O. Box 502	cty Code	Tana, i	X /9/10-02:	50	⁵ Property	Name		30- 021-	<u> 204よろ</u> ^{6Wel}	
271				o Dome Car			as Unit 2131			81
D D		9 Propose		0/	2010			¹⁰ Proposed P		
Bravo Dome	e Carbon	ртохтае	Gas 640		5010	<u> </u>		Wildcat	<u>. </u>	
	Γ		Τ.,		Surface I	r		T 77 . 0 . 1	T	2
UL or lot no. G	Section 28	Township 21N	Range 31E	Lot. Idn	Feet from t	1	North/South Line north	Feet from the 1700	East/West line east	County Harding
				Rottom Ho			Different Fro	l .	l case	narumg
UL or lot no.	Section	Township		Lot. Idn	Feet from t		North/South Line	Feet from the	East/West line	County
OL of lot no.	Section	TOWNSHIP	Kange	Eot. Idii	T cct from		TVOITE GOURT EIRC	1 cet nom the	Last West line	County
	-		•	Add	itional W	ell Lo	ocation	•	-	
11 Work Typ			12 Well Type Coo	le	13 Cable/R	-	. l4 Lea	se Type Code		evel Elevation
Nulti	=		C 17 Proposed Dept		R 18 Forma		19,	P		26.1'
Nulti			2700'	n	Tub			N/A		1/08
Depth to ground				Distance from	nearest fresh	water w	ell	Distance from near	est surface water	,
Pit: Liner: Syn	uthatic 🔲	mi	ls thick Clar	/ Pit	Volume	1	obls Drilling Met	and:		
•	· _	_	is trick Ciay	/ FIL						
Closed-Lo	oop System L		21						Dil-based	Gas/Air
			<u></u>	Proposed (Casing an	id Cei	nent Progran	1		
Hole S	ize	С	asing Size	Casing we	ight/foot	S	etting Depth	Sacks of Ceme	ent Es	timated TOC
12-1/	4"	9	9-5/8"	_36	#	ļ	1100'	655sx	sx Surface	
8-1/2	2"		7"	23#			2700'	365sx		Surface
	_									
•		•				K, give	the data on the pro	esent productive zo	one and proposed i	new productive zone.
Describe the blow	out prevention	n program	, ir any. Use add	itional sheets if	necessary.					
				5	See Attacl	hment				
²³ I hereby certify					the best of		OIL C	ONSERVAT	ION DIVISI	ON
my knowledge and constructed acco				g pit will be general permit	□, or					
an (attached) alternative OCD-approved trian .				Appro	oved by:	10 M	A.			
Signature: Printed name: David Stewart				Title:	ni	Etpirici	THE DIVIER	10		
	r. Regula		alvst			1	wel Data: D/		ALTUAIS!	
Title: St E-mail Address:						Appro	oval Date:	LJUY	expiration Date:	0//24/0
Date:	uaviu_St	ewar tec	Phone:			Condi	tions of Approval:			
7/36	108			2-685-5717		Attacl	<u> </u>			

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

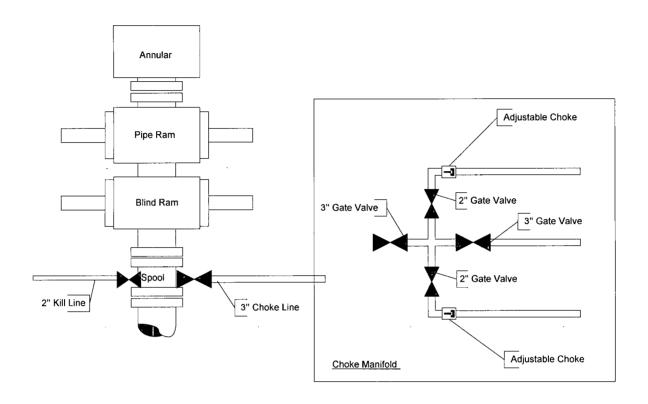
Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

State Lease – 4 Copies Fee Lease - 3 Copies

2040 South Pach	ieco, santa 1	re, MWI 87505	•					A	MENDED REPOR		
		WE	LL LO	CATION	AND AC	REAGE DEDI	ICATION P	LAT			
	API Number				Pool Code Wildca			Pool Name			
30-021-20487				9601	0	BRAVO DO	DME CARBO	ON DIOXI	IDE GAS 640		
Property Code					Proper	y Name			Well Number		
27111 BRAVO [10 DC	OME C	ARBON [DIOXIDE GAS	S UNIT 21	31	281		
OGRID No. 16696					-	or Name SA INC.			Elevation 4726.1		
					Surface	Location		•			
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West lin	e County		
G	28	21 N	31 E		1700'	NORTH	1700'	EAS	T HARDING		
			Bott	om Hol	le Location	If Different Fr	com Surface				
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West lin	e County		
Dedicated Acre	es Joint	or Infill C	L Consolidation	n Code C	l Order No.			ļ			
6401 1406	۱۸										
	WABLE V	WILL BE A	ASSIGNE	р то тн	IIS COMPLET	ION UNTIL ALI	L INTERESTS I	HAVE BEEN	N CONSOLIDATED		
		OR_A	NON-ST	ANDARD	UNIT HAS	BEEN_APPROVED	BY THE DIV	ISION			
28					†		OPER	ATOR CI	ERTIFICATION		
									nation contained herein is		
							true and com	plete to the best	of my knowledge and belief.		
 	ļ				1700		1				
	إ							6-1			
	ļ						Signature				
					•	1700′	Printed Nam		Stewart		
 	!			NM-E	NAD27 36° 01'24.41''				ory Analyst		
	ļ			Lon - 10	03° 38'43.58" 3415.21		Title		-		
İ	ļ			Y - 18:	28479.07		Date	7130	(08		
				# A		·					
							I.I.		ERTIFICATION		
	1						I hereby cert	ify that the well le rom field notes	ocation shown on this plat of actual surveys made by		
							me or under	my supervision,	and that the same is true		
		٠					and correct to	the best of my	ренет. 27 % 8		
	j j						Date of Surve	CHAY	J. ASA		
							Signature and	Seal of Rulies	lonal surveyor		
	1						<i> </i>	#/×/	10/4		

Certificate Number

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

Fluid Volume: 20 bbl Fresh Water

Fluid 2: Mix and pump 655 sks

Premium Plus Cement Fluid Weight 14.80 lbm/gal $1.35 \text{ ft}^3/\text{sk}$ Slurry Yield: 94 lbm/sk Premium Plus Cement (Cement)

Total Mixing Fluid: 2 % Calcium Chloride (Accelerator) 6.39 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 700 ft

Volume: 139.85 bbl

Production Casing

Fluid 1: Precede cement with 20 bbl

Fluid Volume: Fresh Water 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: 0 ft 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: 6.39 Gal/sk 2 % Calcium Chloride (Accelerator) **Total Mixing Fluid:**

Top of Fluid: 2420 ft Volume: 36.07 bbl

Drilling Fluid Program

Surface Hole

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 Drilling Fluid Properties							
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 KCL 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 Drilling Fluid Properties						
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 2 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate SNMOCD 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

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

ase he 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 comp	bly 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 2131-281G	
API Number: 30-021-20487	OCD Permit Number:
U/L or Qtr/Qtr 1700' North 1700' East Section 28 Township	21N Range 31E County: Harding
Center of Proposed Design: Latitude 36 degrees 01' 24.41" Longitude	103 degrees 38' 43.58" 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: Welded 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:	Administrative Approvals and Exceptions:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	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: ☐ 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.

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 19.15.17.10 ☐ 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 - 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:	
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 19.15.17.11 NMAC Design 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	19.15.17.9
Previously Approved Design (attach copy of design) API Number:	

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 docattached.	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 Cleaves Plan head was the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
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	1 Alternative			
Proposed Closure Method: Waste Excavation and Removal	Atternative			
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 con	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			
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			
Vithin 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site □ Yes □				
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			

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 G of 19.15.17.13 NMAC							
Waste Removal Closure For Closed-loop Systems That Utilize Hard or facilities for the disposal of liquids, drilling fluids and drill cutting		tructions: Please indentify the facility					
Disposal Facility Name: Disposal Facility Permit Number:							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction by a check mark in the box, that the documents are attached. □ Siting Criteria Compliance Demonstrations - based upon the a Proof of Surface Owner Notice - based upon the appropriate re □ Construction and Design of Burial Trench (if applicable) base □ Protocols and Procedures - based upon the appropriate require □ Confirmation Sampling Plan (if applicable) - based upon the a □ Waste Material Sampling Plan - based upon the appropriate re □ Disposal Facility Name and Permit Number (for liquids, drillin □ Soil Cover Design - based upon the appropriate requirements □ Re-vegetation Plan - based upon the appropriate requirements □ Site Reclamation Plan - based upon the appropriate requirements	ppropriate requirements of 19.15.17.10 NMAC equirements of Subsection F of 19.15.17.13 NM ed upon the appropriate requirements of 19.15.17.13 nments of 19.15.17.13 NMAC appropriate requirements of Subsection F of 19.15.17.13 NMAC appropriate requirements of Subsection F of 19.15.17.13 NMAC appropriate requirements of Subsection F of 19.15.17.13 NMAC of Subsection I of 19.15.17.13 NMAC	AC 7.11 NMAC 5.17.13 NMAC AC					
Operator Application Certification:							
I hereby certify that the information submitted with this application	is true, accurate and complete to the best of my l	knowledge and belief.					
Name (Print): James E. Corley	Title: Operations team Lead	der					
Signature:	Date:						
e-mail address: eddie_corley@oxy.com	Telephone: (575) 799-6849)					
OCD Approval. [] Dormit Application (including alogues plan)	Clasura Plan (anly)						
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: DISTRICT SUPERVISOR	/	al Date: 8/25/08					
OCD Representative Signature: Mark	OCD Permit Number:	al Date: 8/25/08					
OCD Representative Signature: DISTRICT SUPERVISOR Closure Report (required within 60 days of closure completion): Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method						
OCD Representative Signature: DISTRICT SUPERVISOR Closure Report (required within 60 days of closure completion): Closure Method: Waste Excavation and Removal On-Site Closure Method	OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method						
Title: DISTRICT SUPERVISOR Closure Report (required within 60 days of closure completion): Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the mark in the box, that the documents are attached. 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)	OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method a following items must be attached to the closure	re report. Please indicate, by a check					
Title: DISTRICT SUPERVISOR Closure Report (required within 60 days of closure completion): Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. Closure Report Attachment Checklist: Instructions: Each of the mark in the box, that the documents are attached. 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	OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method Following items must be attached to the closure Longitude this closure report is true, accurate and complete	re report. Please indicate, by a check NAD: 1927 1983 e to the best of my knowledge and					
Title: DISTRICT SUPERVISOR	OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method Following items must be attached to the closure Longitude this closure report is true, accurate and complete	re report. Please indicate, by a check NAD: 1927 1983 e to the best of my knowledge and					
Title: DISTRICT SUPERVISOR	OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Date: Alternative Closure Method control of the closure Method Longitude this closure report is true, accurate and complete sure requirements and conditions specified in the	NAD: 1927 1983 e to the best of my knowledge and e 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')
	·					

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

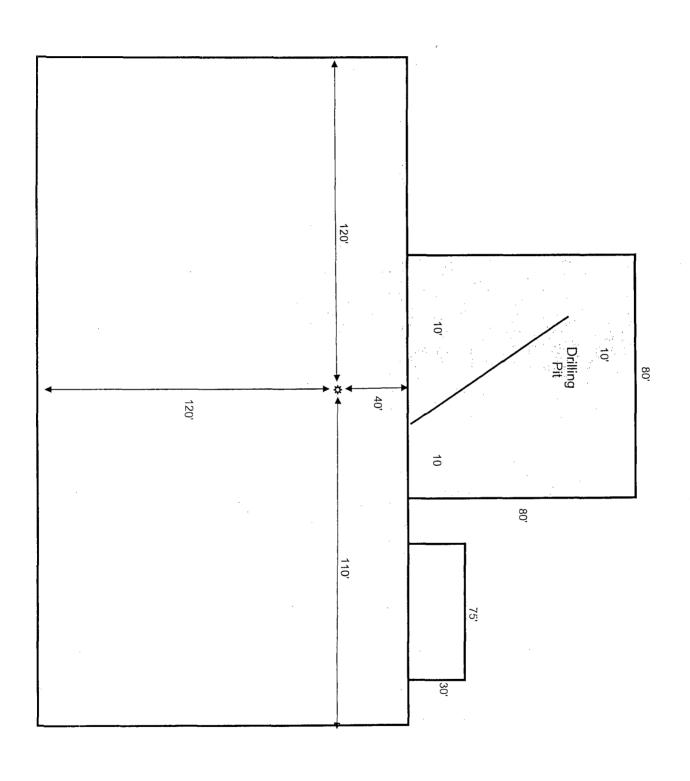
- 1. Free standing liquids will be removed as soon as practical for recycle use in the drilling of other wells. Any free standing liquids that are not recycled will be removed prior to pit closure and disposed of in a division –approved facility or recycle, reuse or reclaim the liquids in a manner that 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



Bravo Dome Unit Location and Pit Design Capstar Rig

New Mexico Office of the State Engineer POD Reports and Downloads

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