Form C-101 May 27, 2004

Date:

7(29/08

Phone:

432-685-5717

District II 1301 W. Grand A District III	venue, Artesia	, NM 88210		(Oil Conserva				Submit to approp	riate District Office
1000 Rio Brazosa District IV 1220 S. St. France					1220 S. St. Santa Fe,				☐ AME	NDED REPORT
				O DR	ILL, RE-EI	NTE	R, DEEPEN,	PLUGBA	CK, OR ADI	A ZONE
			ator Name an						² OGRID Numbe	
OXY USA Inc	:.								16696 ³ API Number	
P.O. Box 50		lland, TX	79710-02	50				30- 021-	20490	
	erty Code 7111		Bray	o Dome	⁵ Property Carbon Diox		Gas Unit 2029			II No. 161
		⁹ Proposed I	Pool 1					¹⁰ Proposed	Pool 2	
Bravo Dom	e Carbon	Dioxide G	as 160		96010			Wilde	at	
					⁷ Surface 1	Loca	tion	•		
UL or lot no.	Section	Township	Range	Lot. Id	-		North/South Line	Feet from the	East/West line	County
J	36	20N 8 D	29E		171		south	1900	east	Harding
	1	Г	т -				f Different Fro	T		
UL or lot no.	Section	Township	Range	Lot. Id	n Feet from	the	North/South Line	Feet from the	East/West line	County
i	1			<u> </u>	Additional W	ell L	ocation	1		
11 Work Ty	pe Code	12	Well Type Cod	le	¹³ Cable/F	Rotary		ase Type Code		evel Elevation
I	N	17	C		R			L05777-4		43.6'
16 Mul	tiple IO	''	Proposed Dept 2700'	18 Formation Tubb		19	Contractor 20 Spud Date N/A 9/1/08			
Depth to ground	· -	_		Distance 1	rom nearest fresh		well		arest surface water	
Pit: Liner: Sy	nthetic	mils t	hick Cla	у	Pit Volume		bbls Drilling Me	thod:		
Closed-L	oop System								/Oil-based 🔲	Gas/Air 🔲
			²¹ I	Propose	ed Casing ar	ıd Ce	ment Prograr	n		
Hole S	Size	Casii	ng Size		g weight/foot	1	Setting Depth	Sacks of Cer	nent Es	stimated TOC
12 - 17	/4"	9-5	5/8"		36 #		1100'	655sx		Surface
8-1/	2"	-	7"		23#		2700'	365sx		Surface
Describe the blow						CK, giv	e the data on the pr	resent productive	zone and proposed	new productive zone.
					See Attac	hman	+			
					See Allac	men				
²³ I hereby certify	v that the info	rmation given	above is true	and comple	ete to the hest of		OH. C	ONIGERNAL	TION DIVIGI	ON I
my knowledge ar	nd belief. I fur	ther certify tl	ıat <u>the</u> drillir	ıg pit will	be		OIL C	CONSERVA	TION DIVISI	ON
constructed acco		-		general pe	rmit 🔲 , or	Appr	oved by:	Dn n	21 1	•
Signature:	Wa &								/astro	
Printed name: D						Title	<u> </u>	BIKILI	BUPEKVIS	UK
Title: S	r. Regula	itory Anal	yst			Appr	oval Date: <table-cell></table-cell>	25/08	Expiration Date:	8/25/10
E-mail Address:	E-mail Address: david stewart@oxy.com						•	r		•

Conditions of Approval:

Attached

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

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

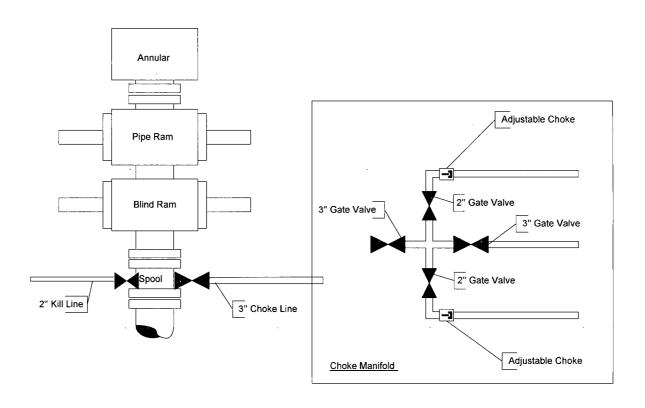
Form C-102

1000 Rio Brazos	Kd., Aztec, I	NM 87410			Santa Fo	e, N	M 87505			Fee L	ease – 3	Copies
District IV 2040 South Pach	eco, Santa I	Fe, NM 87505								AMEN	DED RE	PORT
		WE	LL LO	CATION	AND	ACR	REAGE DEDIC		LAT			
	API Numb	er		Pool Coo	le		w:ldcat					
30-021	20	490		9601	0		BRAVO DO	ME CARBO	N DIO	XIDE	GAS (. GC
Property						perty					Well Numbe	er
2711	<u></u>	BRAVO DOME CARBON DIOXIDE GAS UNIT 2029					<u> 29</u>		361			
OGRID					_		Name				Elevation	_
1669	6				 		A INC.			4	1643.6	<u> </u>
							Location					
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from	-	North/South line	Feet from the	East/West		County	
J	36	20 N	29 E	L	1715		SOUTH	1900'	EA.	ST	HARD)ING
			Bott		le Location	·	If Different Fro	· · · · · · · · · · · · · · · · · · ·				
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from	the	North/South line	Feet from the	East/West	line	County	
		I Cu I c				_						
Dedicated Acre	1 .		Consolidation	n Code (Order No.							
160	NABLE I		CCICNE) TO TI	IIC COMBI	T TOTAL	ON UNTIL ALL	INTERPRETE I	LAYE DE	EM CO	NICOLIDA	TED
NO ALLO	WADLE						EEN APPROVED			EN CO	NSOLIDA	HED
36										CEDT	IFICAT	===
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						i			9		A	
	·							Signature	u.	14		
						ĺ			David	d Stev	vart	
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								<u> </u>	フ(スペ	1(08		
				Air-				Date				
				NM-E N	AD27			SURV	EYOR	CERT	IFICAT:	ION
				Lat - 35	° 55'05.41" 3° 48'33.47"			I hereby certi	•			-
				X - 655 Y - 1789	166.70			was plotted fi me or under				
					1		1000/	and correct to				
					φ-		1900 <i>'</i>		APTE	4,20	9.8	
]							Date of Surve	145°	ME	(A)	
					Ì			Signature and	Seal of Robi	tessional Si	nveyor	
					15,				REGIS (1)	5079) \&	

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 Fluid Weight 14.80 lbm/gal

94 lbm/sk Premium Plus Cement (Cement)

Slurry Yield: 1.35 ft³/sk

2.94 Coloium Chlorido (Accelerator)

Total Mixing Fluid: 6.30 Gol/sk

2 % Calcium Chloride (Accelerator) Total Mixing Fluid: 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

Fresh Water Fluid Volume: 20 bbl

Fluid 2: Lead with 215 sks

MidCon-2 Premium Plus Fluid Weight 11.1 lbm/gal

2 % Calcium Chloride (Accelerator) Slurry Yield: 3.27 ft³/sk

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 94 lbm/sk Premium Plus Cement (Cement) Slurry Yield: 1.35 ft³/sk 2 % Calcium Chloride (Accelerator) Total Mixing Fluid: 6.39 Gal/sk

Top of Fluid: 2420 ft

Volume: 36.07 bbl

Drilling Fluid Program

Surface Hole

12-1/4" Or	12-1/4" Open Hole - (0'- 1,100') - 9-5/8" Casing				
Drilling Fluid System Fresh Water/M-I Gel Spud Mud					
Key Products	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						
	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	

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 Of VE
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NW 8750522 PM

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 grata 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

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 ordinance

environment. Nor does approval relieve the operator of its responsibility to com	ply 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 2029-361J	
API Number: 30-021-20490	OCD Permit Number:
U/L or Qtr/Qtr 1715 'South 1900' East Section 36 Township	20N Range 29E County: Harding
Center of Proposed Design: Latitude 35 Degrees 55' 05.41" Longitude	103 Degrees 48' 33.47" 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:bblyd³
Volume: 1525 bbl Dimensions: L 80' x W 80' x D 10'	Dimensions: Length x 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.
	Environmental Dureau 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 do 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. □ 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 Subsection C of 19.15.17.19 NMAC and 19.15.17.13 NMAC □ Previously Approved Design (attach copy of design) API Number:	ocuments are 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 do	ocuments are				
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 intached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (required 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 - 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:					

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 H ₂ S, Prevention Plan					
 ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan 					
☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	·				
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 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 □ 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					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes 🛭 No				
ithin a 100-year floodplain. - FEMA map Yes ⊠ N					

Waste Excavation and Removal Closure Plan Checklist: (19.15.1 closure plan. Please indicate, by a check mark in the box, that the comparison of the protocols and Procedures - based upon the appropriate required Confirmation Sampling Plan (if applicable) - based upon the appropriate Facility Name and Permit Number (for liquids, drilling Soil Backfill and Cover Design Specifications - based upon the Re-vegetation Plan - based upon the appropriate requirements Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements of the Reclamation Plan - based upon the appropriate requirements	Incomments are attached. In the second of 19.15.17.13 NMAC Interpretate requirements of Subsection F of I generate requirements of Subsection F of I generate requirements of Subsection H of Subsection I of 19.15.17.13 NMAC atts of Subsection G of 19.15.17.13 NMAC	9.15.17.13 NMAC of 19.15.17.13 NMAC
Waste Removal Closure For Closed-loop Systems That Utilize Has or facilities for the disposal of liquids, drilling fluids and drill cutting		Instructions: Please indentify the facility
Disposal Facility Name:		her:
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction	s: Each of the following items must be atta	
by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate reconstruction and Design of Burial Trench (if applicable) base Protocols and Procedures - based upon the appropriate requirer Confirmation Sampling Plan (if applicable) - based upon the appropriate reconstruction Sampling Plan - based upon the appropriate reconstruction Disposal Facility Name and Permit Number (for liquids, drilling Soil Cover Design - based upon the appropriate requirements Re-vegetation Plan - based upon the appropriate requirements Site Reclamation Plan - based upon the appropriate requirements	oppropriate requirements of 19.15.17.10 NMA equirements of Subsection F of 19.15.17.13 NM dupon the appropriate requirements of 19.15.17.13 NMAC oppropriate requirements of Subsection F of 19.15.17.13 NM ag fluids and drill cuttings or in case on-site of Subsection H of 19.15.17.13 NMAC of Subsection I of 19.15.17.13 NMAC	AC NMAC 5.17.11 NMAC 9.15.17.13 NMAC IMAC
Operator Application Certification:		
I hereby certify that the information submitted with this application i	s true, accurate and complete to the best of r	ny knowledge and belief.
Name (Print): James E. Corley	Title: Operations team I	
Signature:	Date:	
	T. I. I. (575) 700 (940
e-mail address: eddie corley@oxy.com	Telephone: (575) 799-6	849
e-mail address: eddie corley@oxy.com OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Title: DISTRICT SUPERVISOR	Closure Plan (only)	roval Date: 8/25-/08
OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	Closure Plan (only) Appl OCD Permit Number:	roval Date: 8/25-/08
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: DISTRICT SUPERVISOR	OCD Permit Number: Subsection K of 19.15.17.13 NMAC	roval Date: 8/25-/08
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: DISTRICT SUPERVISOR Title: DISTRICT SUPERVISOR Closure Report (required within 60 days of closure completion): Closure Method: Waste Excavation and Removal On-Site Closure Method	Closure Plan (only) OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Da Alternative Closure Method	roval Date: 8/25-/08
OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	Closure Plan (only) OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Da Alternative Closure Method following items must be attached to the clo	te:sure report. Please indicate, by a check
OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	Closure Plan (only) OCD Permit Number: Subsection K of 19.15.17.13 NMAC Closure Completion Da Alternative Closure Method following items must be attached to the clo Longitude this closure report is true, accurate and comp	te:
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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')
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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

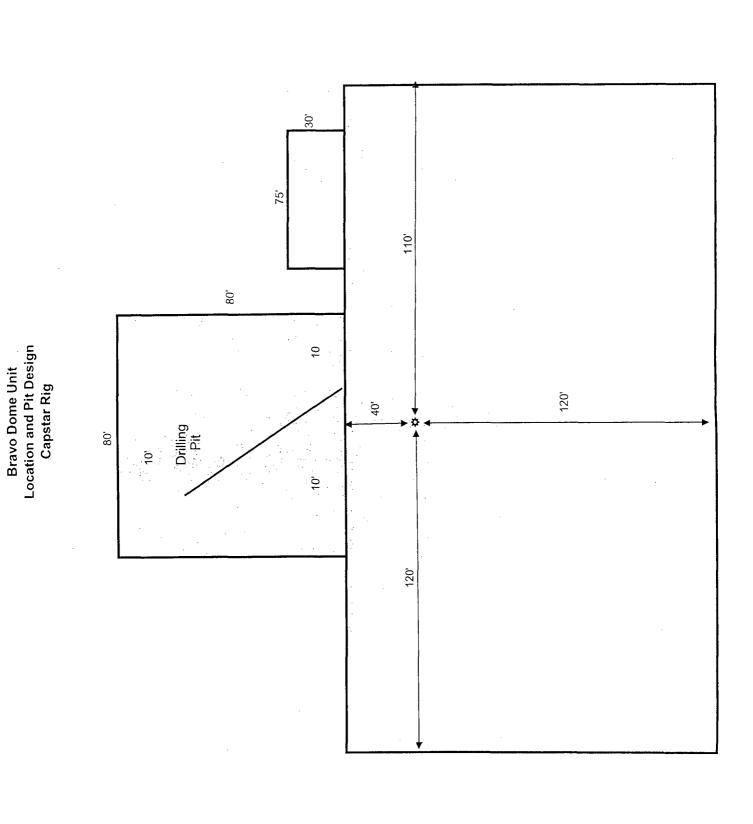
- 1. Free standing liquids will be removed as soon as practical for recycle use in the drilling of other wells. Any free standing liquids that are not recycled will be removed prior to pit closure and disposed of in a division –approved facility or recycle, reuse or reclaim the liquids in a manner that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