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

1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy, Minerals & Natural Resources RECEIVED May 27, 2004 Submit to appropriate District Office

Form C-101

Oil Conservation Divsiion

PM 2 31

1220 S. St. Francis Dr2009 NOV 12

Santa Fe. NM 87505 ☐ AMENDED REPORT

APPLIC				RMIT T	O DR	ILL, RE-E	NTE	R, DEEPEN,	PLUGBA	ACK,	OR ADI	A ZONE	
		1	Operato	or Name and	i Address					<sup>2</sup> O	GRID Numbe 16696	r	
OXY USA Inc										3	API Number		
P.O. Box 502		dland,	TX 79	9710-025	0	·		·	30- 021	- 2	0480		
	rty Code 111			Br	avo Do	<sup>5</sup> Propert me Carbon [		le Gas Unit <b>\</b>	930			11 No. <b>6 (</b>	
Bravo Dome	Carbon	<sup>9</sup> Propos Dioxid				96010			<sup>10</sup> Propos	sed Pool			
						<sup>7</sup> Surface	Loca	tion		<del></del>			
UL or lot no.	Section	Townsh	ц́р	Range	Lot. Id			North/South Line	Feet from t	he E	ast/West line	County	
G-	14	19	N	30 E		170	0	north	176		east	Harding	
		8	Pro	posed B	ottom	Hole Loca	tion I	f Different Fro	m Surface	е			
UL or lot no.	Section	Townsh		Range	Lot. Id	<del></del>		North/South Line	Feet from t		ast/West line	County	
L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u> </u>			A	dditional V	Vell L	ocation	<u> </u>				
11 Work Typ	e Code		12 W	ell Type Code	:	13 Cable/	Rotary	14 Leas	se Type Code			evel Elevation	
	N C				₹		-0387C	5	પક	d Date			
<sup>16</sup> Multi	="		17 Pre	oposed Depth	'	<sup>18</sup> Form		19 C	Contractor N/A				
No Depth to ground					Distance fi	Tu rom nearest fresh		vell	N/A Distance from	nearest s		120/08	
Pit: Liner: Syn	thetic	m	ils thick	k Clay	$\overline{\Box}$	Pit Volume		bbls Drilling Meth	ioq.	************			
	op System [							ater Brine		sel/Oil-ba	ised 🔲	Gas/Air 🔲	
				<sup>21</sup> p	ropose	d Casing ar	nd Ce	ment Program					
Hole Si	ize	T	Casing S	1		g weight/foot	Setting Depth Sacks of Cement Estimated TOC					imated TOC	
12-1/-	4 "		8-5/8	3"	<del></del>	24#	+/-750'		400sx			Surface	
7-7/8			5-1/2	2"	5.9#	FG/15.5#	+/-2600'		550sx		Surface		
					******************************								
		<u> </u>											
Describe the per Describe the blowd							CK, give	the data on the pres	sent productive	e zone ar	nd proposed na	ew productive zone.	
												į	
						0 1//							
						See Attacl	nment						
<sup>23</sup> l hereby certify	that the infor	mation giv	en abo	ve is true an	d complet	e to the best of		OII CC	NSERVA	TION	DIVISIO	N	
my knowledge and	belief. I furt	her certif	y that t	the drilling	pit will b	٠	<b></b>	OIL/ CC	MOLKYA	TION	DIVISIO	1	
constructed accor an (attached) alte	0	_	-	-	neral per	mit [], or	Appro	ved by:	m		•		
Signature:	Na.			**************************************	······································		ļ		CTOM	Car.	ar sacina.		
Printed name: Da			~			Part of the Part of the San	Title:		DINIVI	JUE	'ENVIS	24	
	. Regula	······································			,,		Appro	val Date: 7/25	108	Expirat	ion Date: >	125/10	
E-mail Address:	david ste	ewartec					Carrie	In an a C A in	***************************************	<del></del>	····		
Date:	(08		Pho		685-57	17	Conditions of Approval:						

District I 1625 N. French Dr., Hobbs, NM 88240 District II 8Il South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV 2040 South Pacheco, Santa Fe, NM 87505

# 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

AMENDED REPORT

		WE	LL LO	CATION	I AND AC	REAGE DEDI	CATION P	LAT			
API Number Pool Code						Pool Name					
30-021	-204	180		9601		BRAVO DOME CARBON DIOXIDE GAS 160					
Property	3	DD 41	(0 00		Property		1 IN UT 40	7.0	W	ell Number	
	27111 BRAVO DOME CARBO						UNIT 19	30		161	
1669	1				Operator OXY US					Elevation 521.6	
1009	0	·				Location		l	T.	021.0	
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West	line	County	
G	16	19 N	30 E		1700'	NORTH	1700'	EAS		HARDING	
L	L	1 10 11	Botte	om Hol		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	
Dedicated Acre	l * .	or Infill C	onsolidation	Code C	Order No.	**************************************					
160	NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED										
NO ALLOV	WABLE V					ON UNTIL ALL EEN APPROVED			EN CON	SOLIDATED	
16	į	<u> </u>					reac <sub>i</sub>	······································	יבטיונ	ICATION	
							THE STATE OF THE S			ined herein is	
										vledge and belief.	
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				<b>L</b>				2 · S.	(A)		
18. 	- Table				1		Signature	: •			
					•	1 700 ′	David Stewart Printed Name				
				NM-E N			44	Regulat	ory An	nalyst	
	1			🎉 Lon - 10	5° 52'47.09" 3° 45'17.15"		Title				
	1			X - 6713 Y - 177			Date	1/11/0	3		
	<u> </u>						CUDVE	VOD O	ימ זידים שי	ICATION	
	1				1		11			CATION	
							was plotted from	m lield notes	s of actual sur	veys made by	
					:		and correct to			same is true	
	i							April	7088	,	
	1						Date of Survey	EARY	45		
The second second second				]		-	Signature and	seal of trases	Malpur	for \	
								ポーマ/	5079	) E	
							107	<u> </u>	DI		
							10	CXX.	Jan J.	00/	
									RIGHT		
							Certificate Num	ber 150	79		

# Bravo Dome CO2 wells - 2008

## CASING:

MO (ft)	Hole Size (in)	Csg Size (in)	Wt (lb/ft)	Grd	Cpig
0 - ±750	12-1/4	8-5/8	24	J55	STC
0 - ± 2440	7-7/8	5-1/2 FG	5.9	FG	10 Rd
2440 - ± 2600	7-7/8	5-1/2 Steel	15.5	J55	LTC

# CEMENT:

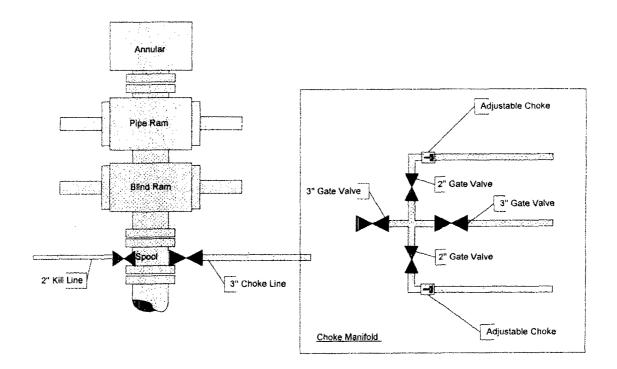
# Surface:

			Ce	nt Design					
Slurry	Weight (ppg)	TOC (feet)	BOC (feet)		Slurry Volume (Bbls)	Cement Required (sx.)	Comment		
Lead	14.8	Surface	750		96	400	TOC ±surface		
				d Slurry		00			
Premium Plus CaCl Poly E Flake					400 sx 2% 0.125 lb/sx				
Slurry Yield Mix Water Mix Water Source				,	1.35 cfs 6.3 gal/sx Freshwater				

### Production:

			C	men	t Design				
Slurry	Weight (ppg)	TOC (feet)	BOC (feet)			Slurry Volume (Bbls)	Cement Required (sx.)	Comi	ment
Lead	11.1	0	±1830			233	400	TOC Surface	to
Tail	13.2	±1830	2600			50	150	TOC above Cimarro	±600' on
	Lead S	lurry				Tail	Slurry		
Premium Plus         400 sx           CaCl         3%           Poly E Flake         0.125 lb/sx           Slurry Yield         3.28 cfs           Mix Water         20.56 gal/sk           Mix Water Source         Freshwater				Premium Plu CaCl Poly E Flake Slurry Yield Mix Water Mix Water So	1	150 sx 3% 0.125 lb/sx 1.86 cfs 9.99 gal/sk Freshwater			

# 9" BOP - 3000psi





### **Bill Richardson**

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



July 25, 2008

OXY USA, Inc. P.O. Box 50250 Midland, TX 79710-0250

Re:

APD for Bravo Dome C02 Gas Unit Well # 1930-161G

API Number 30-021-20480

### Gentlemen:

The application to drill for the above well is hereby approved with the following conditions:

- Any material excavated during the construction of the reserve pit will be stockpiled at least 300 feet from any continuously flowing water course, and at least 200 feet from any other water course.
- 2. Any liquids that are removed from the reserve pit prior to closure, that are not recycled, will be disposed of in one of the NMOCD-approved OXY SWD wells located within the unit
- 3. In the event that any free liquids in the reserve pit cannot be removed within 30 days after the drilling rig is released, OXY will notify the OCD District 4 office of that fact.
- 4. It is understood by the NMOCD that the land owner, Mr. Terry Mitchell, has been verbally advised of OXY's intent to close the reserve pit on site. When Mr. Mitchell is formally advised, documentation of that notification will be forwarded to the NMOCD District 4 office.
- 5. OXY shall file a deed notice identifying the location of the on-site burial with the county clerk in the county where the on-site burial occurs.

If you have any questions, please contact me.

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin

District 4 Supervisor

District 1
1625 N. French Dr., Hobbs, NM 88240
District []
1301 W. Grand Avenue, Artesia, NM 88210
District []
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 copy to the appropriate NMOCD District Office.

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

	system, below-grade tank, or proposed alternative method system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per in Please be advised that approval of this request does not relieve the operator of his	ndividual pit, closed-loop system, below-grade tank or alternative request
Operator: _OXY USA Inc.	OGRID#: 16696
Address: P.O. Box 303 Amistad NM 88410	
Facility or well name: Bravo Dome Unit Well 1930-161G	
API Number: 30 - 021-20480	OCD Permit Number:
U/L or Qtr/Qtr 1700' FNL 1700' FEL G-16-19-30 Section 16	Township 19N Range 30E County: Harding
Center of Proposed Design: Latitude 35 52' 47.09" Longitude 103 45	17.15" 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 LLDPE HDPE PVC
Liner type: Thickness 20mil    ■ LLDPE    HDPE    PVC	Other
☐ Other String-Reinforced	Seams: Welded Factory Other
Seams: Welded A Factory Other	Volume:bblyd <sup>3</sup>
Volume: 1525 bbl Dimensions: L 80'_x W_80 x D 10'	Dimensions: Length x Width
Below-grade tank: Subsection 1 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
Submitted 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:
	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 de 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 19.15.17.1 ☐ 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 19.15.17.19 NMAC and 19.15.17.13 NMAC	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 do attached.  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
The state of the s	į.

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 diatached.	ocuments 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 <sub>2</sub> S, Prevention Plan									
Emergency Response Plan									
Oil Field Waste Stream Characterization									
Monitoring and Inspection Plan  Erosion Control Plan									
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC									
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 contents of the Santa Fe Environmental Bureau for contents o	naideration)								
	isideration)								
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	I								
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable	į								
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.	☐ Yes ⊠ No								
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA								
Ground water is between 50 and 100 feet below the bottom of the buried waste	✓ Yes   ✓ No								
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA								
	(m) (m)								
Ground water is more than 100 feet below the bottom of the buried waste.	☐ Yes ☒ No								
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa	☐ Yes ☒ No								
lake (measured from the ordinary high-water mark).									
- Topographic map; Visual inspection (certification) of the proposed site									
Note 200 Care and the state of	[7] . V [82] . N								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☒ No								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☒ No								
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	<del></del>								
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site									
Witting the second and the second	□ Voc IZI 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.	☐ Yes ☒ No								
- Written confirmation or verification from the municipality; Written approval obtained from the municipality									
, , , , , , , , , , , , , , , , , , , ,									
Within 500 feet of a wetland.	☐ Yes 🛛 No								
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site									
Within the area avardaing a subcurfusa prince	D Vas M Na								
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	☐ Yes ☑ No								
Society; Topographic map	1								
Within a 100-year floodplain.	☐ Yes ☑ No								
FEMA map	Tank Tank								

closure plan. Please indicate, by a check mark in the box, that the description of the appropriate requires and Protocols and Procedures - based upon the appropriate requires Confirmation Sampling Plan (if applicable) - based upon the appropriate Pacifity Name and Permit Number (for liquids, drilling Soil Backfill and Cover Design Specifications - based upon the Re-vegetation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements.	nents of 19.15.17.13 NMAC propriate requirements of Subsection F of 19.15.17.13 NMAC g fluids and drill cuttings) appropriate requirements of Subsection H of 19.15.17.13 NMAC of Subsection I of 19.15.17.13 NMAC tts of Subsection G of 19.15.17.13 NMAC
Waste Removal Closure For Closed-loop Systems That Utilize Ha	ul-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 cuttin	
Disposal Facility Name:	Disposal Facility Permit Number:  See 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 re Proof of Surface Owner Notice - based upon the appropriate re Construction and Design of Burial Trench (if applicable) based Protocols and Procedures - based upon the appropriate requirer Confirmation Sampling Plan (if applicable) - based upon the appropriate received.  Waste Material Sampling Plan - based upon the appropriate received.	opropriate requirements of 19.15.17.10 NMAC quirements of Subsection F of 19.15.17.13 NMAC d upon the appropriate requirements of 19.15.17.11 NMAC ments of 19.15.17.13 NMAC opropriate requirements of Subsection F of 19.15.17.13 NMAC quirements of Subsection F of 19.15.17.13 NMAC g fluids and drill cuttings or in case on-site closure standards cannot be achieved) of Subsection I of 19.15.17.13 NMAC of Subsection I of 19.15.17.13 NMAC
Operator Application Certification:	
	s true, accurate and complete to the best of my knowledge and belief.
Name (Print): James E. Corley	Title: Operations team Leader
Signature:	Date:
e-mail address: eddie_corley@oxy.com	Telephone: (575) 799-6849
OCD Approval: Permit Application (including closure plan)  OCD Representative Signature:  DISTRICT SUPERVISOR	OCD Permit Number:
Closure Report (required within 60 days of closure completion):	Subsection K of 19 15 17 13 NMAC
Closure responsive quite a writin ou days or closure completion).	Closure Completion Date:
Closure Method:  Waste Excavation and Removal On-Site Closure Method  If different from approved plan, please explain.	
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)	following items must be attached to the closure report. Please indicate, by a check  LongitudeNAD: [1927 [] 1983
Operator Closure Certification:	
hereby certify that the information and attachments submitted with the belief. I also certify that the closure complies with all applicable closure.	nis closure report is true, accurate and complete to the best of my knowledge and
Name (Print): JAMES E CCELEY	
and the second s	
Signature: Am to C. Con	Title: Operations Team Lender

District I
1625 N. French Dr., Hobbs, NM 88240
District II
81) South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87506

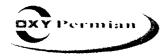
### State of New Mexico Energy, Minerals & Natural Resources Department

### 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

AMENDED REPORT

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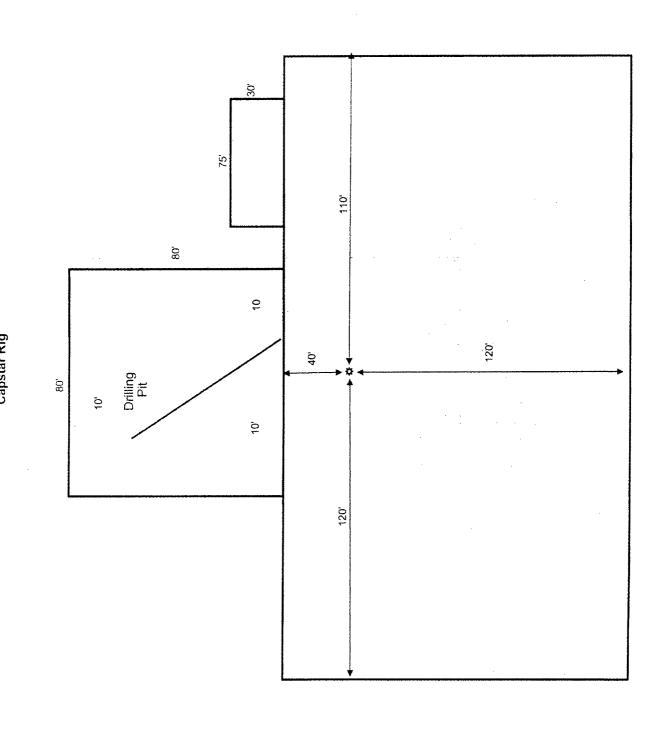
# Pit Design and Construction Plan

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.



Bravo Dome Unit Location and Pit Design Capstar Rig

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Record Count: 1

# New Mexico Office of the State Engineer POD Reports and Downloads

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### New Mexico Office of the State Engineer POD Reports and Downloads

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# New Mexico Office of the State Engineer POD Reports and Downloads

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# 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