District IV

State of New Mexico Energy, Minerals & Natural Resources

Form C-101 June 16, 2008

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

1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Divsiion 1220 S. St. Francis Dr. Santa Fe, NM 87505

Submit to appropriate District Office

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN.

PLUGBAC				211111			221 21 1,				
		<sup>1</sup> O <sub>J</sub>	erator Name and	Address			· · ·	<sup>2</sup> OGRID Number 16696			
OXY USA INC								<sup>3</sup> API Number			
PO BOX 4294.		, TX 77	210-4294					30- 02/-	2053		
<sup>4</sup> Property Code 5Property 27111 BRAVO DOME CARBON DIOX							AS UNIT 2030			II No. 061	
9 Proposed Pool 1 BRAVO DOME CARBON DIOXIDE GAS 640								<sup>10</sup> Proposed Po	pol 2		
<sup>7</sup> Surface Loc											
UL or lot no.	Section	Township	Range	Lot. Idr	n Feet from t	he	North/South Line	Feet from the	East/West line	County	
J	6	20 N	30 E		1700		SOUTH	1700'	EAST	HARDING	
<sup>8</sup> Proposed B	ottom Ho	ole Loc	ation If Dit	ferent	From Surfac	ce					
UL or lot no.	Section	Township	Range	Lot. Idr	n Feet from t	he	North/South Line	Feet from the	East/West line	County	
Additional W	ell Loca	tion .							<u>-</u>		
11 Work Type N	Code		12 Well Type Cod C	e	13 Cable/R	-	<sup>14</sup> Leas	e Type Code	1	Level Elevation	
<sup>16</sup> Multip <b>NO</b>			17 Proposed Depth 3100	) 	<sup>18</sup> Format TUB		19 C	Contractor N/A	<sup>20</sup> S <sub>I</sub>	oud Date	
<sup>21</sup> Proposed C	Casing an	d Cem	ent Progran	n							
Hole Siz			sing Size		g weight/foot	s	etting Depth	Sacks of Cement Estimated TC		stimated TOC	
17 1/2	2	1	13 3/8		48#		750'	870sx		SURFACE	
12 1/4	4	9 5/8			40 <del>#</del>		2700'	1009sx	SURFACE		
14 1/2	2	7		23#			3100'	640sx		SURFACE	
										*****	
Describe the blowd	out prevention	n program,	if any. Use add	itional she	ets if necessary.	K, give	the data on the pre	sent productive zoi	ne and proposed.	new productive zone.	
<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.						OIL CONSERVATION DIVISION					
Signature: Lockett						Approved by: Il Martin					
Printed name: L. KIKI LOCKETT						Title:	D	ISTRICT S	UPERVI	SOR	
Title: REGULATORY ANALYST							Approval Date: 9/22/20/1 Expiration Date: 9/22/20/3				
E-mail Address:	KIKI_LOCK	KETT@OX	r.com_								
Date: 9/20	0/2011		Phone:	13-215	-7643	Condi	tions of Approval A	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

### 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

### District IV 2040 South Pacheco, Santa Fe, NM 87505

									L	AWLLIN	DED KEPOKI	
		WE	LL LO			ACI	REAGE DEDIC	CATION PI	<u>LAT</u>			
1	API Numb	er		Pool Code					Pool Name			
30-0	21-2	0532		96010			RAVO DOME	CARBON	DIOXIL	···		
Property	1		<b>-</b>			-	Name		Well Number			
2711		BI	RAVO	DOME			DIOXIDE G	AS UNIT			061	
OGRID	1				-		Name			,	Elevation	
1669	6						SA INC.				5333.9	
			r=		Surf	face	Location				<b></b>	
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from		North/South line	Feet from the	East/West		County	
J	6	20 N	30 E		1700		SOUTH	1700'	EA	<u>ST</u>	HARDING	
			Botte	om Hol	le Locati	on	If Different Fro	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from	the	North/South line	Feet from the	East/West	line	County	
Dedicated Acre	es Joint	or Infill (	Consolidation	Code C	Order No.							
160	CADLE I	VIII DE	ACCIONIET	<u> </u>	UC COMB	T DOTE	ON TINEEL ALL	INTERPRETE I	LAVE DE	EN CO	NCOL IDATED	
NO ALLOV	WABLE V						ON UNTIL ALL Een approved			EN CO	NSOLIDATED	
6	I	<u> </u>	11011 01		<u> </u>					CEDT	IEICATIONI	
	1							11			IFICATION ontained herein is	
	ĺ					İ		11 '	,		nowledge and belief.	
	ĺ					ĺ						
	Ì								7 (		n . I	
	Ì					ĺ			Y 1		mat 1	
								Signature	1, O	100	eg_	
	1								L. K	iki Lo	ockett	
	]							Printed Nam		1	A1	
	1							Title	tory Co	ompilar	nce Analyst	
	1											
								Date				
				NM-E N	<b>A</b> D 2 7			SURV	EYOR	CERT	IFICATION	
	1			Lot - 35	° 59'25.94" 3° 47'26.15"			I hereby certi	fy that the w	ell location	shown on this plat	
			•	X - 6605 Y - 1816	557.12			11 -			I surveys made by at the same is true	
	1			1 1010	1	.		and correct to			t the same is true	
				1.	′ <b>@</b>		1 700 ′	S	paterne	eAs	2011	
								Date of Surve	M W	EX		
								Signatur and	1 - 1		il Sept	
	İ				, 	}		Gig			崖	
					202	į		Je Je	in It	Trsk	\$ 9/16/2011	
	1				-				DELCO.	ONALLA		
	ĺ								7 C/4	As	el	
								Certificate Nu	ımber 15	079		



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

September 19, 2011

State/C.J. Clavel and Calvin R. Clavel 43 Clavel Lane Roy, NM 87743

Re: Temporary Pit Notification

Dear C.J and Calvin Clavel,

Please be advised that OXY USA Inc., hereby gives notice of our intent to construct, operate, maintain and close temporary drilling pits in accordance with the NMOCD Pit Rule 19.15.17 effective June 16<sup>th</sup> 2008 for the following locations: Township 20N, Range 30E, Section 06.

Enclosed please find a copy of Oxy's Pit Design and Construction Plan, Oxy's Pit Maintenance and Operating Plan and Oxy's Pit Closure Plan.

If you have any questions or concerns, please contact me at (713) 215-7054 office or my cell (318) 243-4065.

Respectfully,

Billy Ray Suggs

Drilling Engineer

OXY USA Inc.

CC: File

**NMOCD** 

15R Suggs

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210

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

### State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

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

Proposed Alternative Method Permit or Closure Plan Application
Type of action:  Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
ease 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 vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Occidental Permian Ltd.  OGRID #:
Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046
Facility or well name: Bravo Dome Unit Well 2030-061J
API Number: 30 - 021 - 20532 OCD Permit Number:
J/L or Qtr/Qtr 1700 FSL / 1700 FEL Section 06 Township 20N Range 30E County: Harding
Center of Proposed Design: Latitude 35° 59' 25.94" Longitude 103° 47' 26.15" NAD: ⊠1927 □ 1983
Surface Owner:  Federal State Private Tribal Trust or Indian Allotment
☑ Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary:   ☐ Drilling ☐ Workover
Permanent Emergency Cavitation P&A
\[     \begin{aligned}     ali
☑ String-Reinforced
Liner Seams: Welded Factory Other Volume: 4000 bbl Dimensions: L 75 x W 75 x D 4
☑ Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of ntent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☒ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid:
Fank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
<ul> <li>Signs: Subsection C of 19.15.17.11 NMAC</li> <li></li></ul>	
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.
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
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC
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 documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API Number:
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC   Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Climatological Factors Assessment   Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC   Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   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   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Maste 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

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.I Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	O NMAC) more than two
Disposal Facility Name: Gandy- Marley, P O Box 1658, Roswell, NM 88202 Disposal Facility Permit Number: NM 01-0019	
Disposal Facility Name: Controlled Recovery, Hobbs, New Mexico Disposal Facility Permit Number: R9166	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future services and Yes (If yes, please provide the information below) \( \subseteq \) No	vice and operations?
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	c
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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☒ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☑ No
Within a 100-year floodplain FEMA map	☐ Yes ☑ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	15.17.11 NMAC

Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): BillyRay Suggs Title: Drilling Engineer
Signature: 3 R Sugga Date: 9/19/11
e-mail address: BillyRay_Suggs@oxy.com Telephone: 713-215-7054
OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment)
OCD Representative Signature: Approval Date: 9/22/2011
Title: DISTRICT SUPERVISOR OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
22.  Closure Method:  Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  If different from approved plan, please explain.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.  Disposal Facility Name: Gandy-Marley Inc., P O Box 1658 Roswell, NM 88202 Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below)
Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)
<ul> <li>□ Plot Plan (for on-site closures and temporary pits)</li> <li>□ Confirmation Sampling Analytical Results (if applicable)</li> <li>□ Waste Material Sampling Analytical Results (required for on-site closure)</li> <li>□ Disposal Facility Name and Permit Number</li> <li>□ Soil Backfilling and Cover Installation</li> <li>□ Re-vegetation Application Rates and Seeding Technique</li> </ul>
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: \[ \begin{array}{c c} 1927 \end{array} 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address:  Telephone:



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

**PLSS Search:** 

Section(s): 06

Township: 20N

Range: 30E

## APD DATA - DRILLING PLAN - Bravo Dome Unit 2030-061J

### 1. CASING PROGRAM

Surface Casing: 13 3/8" casing set at  $\pm$  750 ft MD/ 750 ft TVD in a 17 1/2" hole filled with 8.4 ppg mud

Interval	OD (in)	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)
0 - 750	13.375	48#	H-40	STC	740	1730	322	12.71	12.55
	· ·								

Intermediate Casing: 9.5/8" casing set at  $\pm$  2700ft MD/ 2700ft TVD in a 12.25" hole filled with 8.4 ppg mud , (Casing point will be picked 10' into the "Cimarron")

Interval	OD (in)	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)
0-2700'	9.625	40#	N-80	LTC	3090	5750	737	8.835	8.75

Production Casing: 7" casing set at  $\pm$  3100ft MD/ 3100 ft TVD in a 8.75" hole filled with 14.5 ppg mud

Interval	OD (in)	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)
0 - 3100	7 .	23#	N-80	LTC	3830	6340	442	6.241	6.250

### 2. CEMENT PROGRAM:

### Surface Interval

Interval	тос	Amount (sx)	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Lead: 0' - 750' (110% Excess)	Surface	870	750'	Premium Plus Cement, 2% Calcium Chloride, 0.25 lb/sk Poly-E-Flake	6.35	14.8	1.35	1079 psi

Note: Surface casing will be tested to 600 psi after 8 hrs WOC time.

### Intermediate Interval

Interval	TOC (MD-ft)	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
<b>Lead:</b> 0 – 2567' (300% Excess)	Surface	859	2567'	MidCon-2 Premium Plus Cement, 2% Calcium Chloride, 0.25 lb/sk Poly-E-Flake	18.06	11.4	2.94	180 psi
<b>Tail:</b> 2567'- 2700' (300% Excess)	2567	. 150	132.6'	MidCon-2 Premium Plus Cement, 2% Calcium Chloride, 0.25 lb/sk Poly-E-Flake	6.35	14.8	1.35	1300 psi

Note: Intermediate casing will be tested to 1028 psi.

### **Production Interval**

Interval	TOC (MD- ft)	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Spacer: Tuned spacer III		20 bbl	. : .	Fe-2(Buffer), Musol(Solvent), SEM-7,Dual Spacer Surfactant., Barite, D-Air		15		
Tail: Surf: to 3100' (200% Excess)	Surf	620	3100′	MidCon-2 Premium Plus Cement, 7% Potassium Chloride, 0.5% CFR-3	4.38	16.5	1.08	4300 psi

Note: Production casing will be tested to 1300 psi.

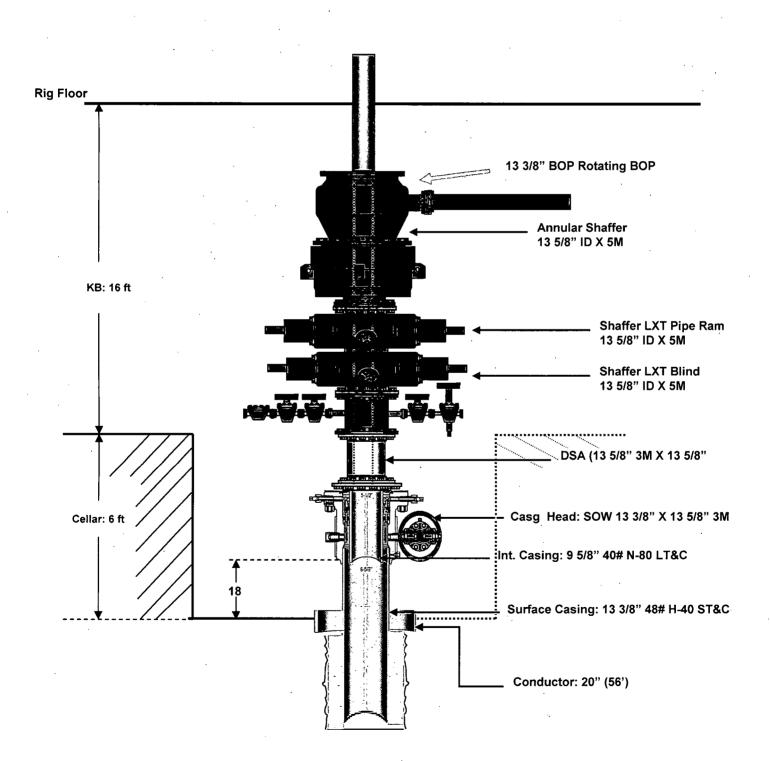
### PRESSURE CONTROL EQUIPMENT

Surface: 0 – 750' will be drilled with +/- 40' of conductor and no Preventer Equipment Intermediate 750' – 2700' be drilled with a 13 5/8" 5M Double BOP and a 13 5/8" 5M ann prev Production: 2667' – 3100' will be drilled with the same preventer plus a 3000 psi rotating BOP

- a. The BOP will be functionally tested and pressure tested to 5000 psi high and 250 psi low upon nipple up to wellhead initially and after each nipple up and nipple down. In the rare case that a well lasts longer than three weeks, the preventer will be subsequently tested every 21 days. Choke Manifolds will also be tested to 5000 psi high and 250 psi low.
- b. See BOP diagram.
- c. A Kelly cock will be in the drill string at all times while drilling.
- d. A full opening drill pipe stabbing valve with the appropriate connections will be on the rig floor at all times

Note: Surface and Intermediate hole will be drilled with a reserve pit and oilbase mud After 9 5/8" casing is set and cemented then reserve pit will be partially reclaimed And the remaining 8 3/4" hole will be drilled with oil-base mud and a closed loop system utilizing haul-off bins

Well Name: 2030-061J 4655 ' Surf Elev: 13 3/8", SOW X 13 5/8"3000# 13 5/8" 5M X 11' 5M "B" Sec 11' 5M X 7 1/16'5M "B" Sec 500' 17 1/2" Hole 13 3/8" 48#/ft,H-40, ST&C 17 1/2" borehole @750' 1000' 1500' 12 1/4" Hole "San Andres" 1901' 2000' "Glorieta 2129' 2500' 8.4 to 8.6ppg 9 5/8",40.0#/ft,N-80,LT&C in "Cimarron" 2657' "Tubbs" 12 1/4" hole @ 2700'( 10' Into the Cimarron 2674' "Granite" Note: 14 to 16 ppg required to drill the "Tubb! 2792' 3000' Note: CO/2 possible in Tubbs and Granite 7", 23#/ft,N-80,LT&C @TD in Possible TD 3100' 8 3/4" Hole



# DXY Permian

# 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.

### 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. Or at the request of the landowner, the deep burial pit closure method will be used.
- 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	500

- 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



# 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.

# BRAVO DOME 2011 DRILLING PAD

