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

Form C-101 June 16, 2008

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

Submit to appropriate District Office

AMENDED REPORT

<b>APPLICATION FOR</b>	PERMIT TO	DRILL, R	RE-ENTER,	DEEPEN,
PLUGBACK, OR AD		•	ŕ	ŕ

PLUGBA	CK, OR	ADD A	ZONE		,	,	,				
<u> </u>		<sup>1</sup> Oper	ator Name and	d Address				<sup>2</sup> OGRID Number <b>16696</b>			
OXY USA INC								<sup>3</sup> API Number			
PO BOX 4294		, TX 7721	.0-4294		5 Property	NI	·	30-0	059-20 6Wel	527	
<sup>4</sup> Property Code SProper 27111 BRAVO DOME CARBON DIG							GAS UNIT 1935			21	
BF	RAVO DOME	<sup>9</sup> Proposed P CARBON D		S 640				10 Proposed Po	ool 2		
<sup>7</sup> Surface Lo	ocation										
UL or lot no	Section	Township	Range	Lot Idn	Feet from t	he	North/South Line	Feet from the	East/West line	County	
F	2	19 N	35 E		1700		NORTH	1700'	WEST_	UNION	
<sup>8</sup> Proposed I	T		<del></del>							-	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he	North/South Line	Feet from the	East/West line	County	
Additional \	Well Loca	tion									
11 Work Ty	pe Code V	12	Well Type Cod	e	13 Cable/R R	otary	<sup>14</sup> Leas	e Type Code P		evel Elevation 58.6	
16 Multi N		17	Proposed Depth 2600		18 Format TUB		<sup>19</sup> C	ontractor N/A	<sup>20</sup> Spu	d Date	
<sup>21</sup> Proposed	Casing an	d Cemen	ıt Progran	1							
Hole S		ı	ıg Size		g weight/foot		Setting Depth	Sacks of Cement Estimated		timated TOC	
12 1	/4	8	5/8		24#		750'	400 sx	SURFACE		
7 7/	8	5	1/2	-	15#		2300'	500 sx	SURFACE		
							`				
Describe the properties of the blow SEE ATTACHM	vout prevention					K, giv	e the data on the pre-	sent productive zo	ne and proposed n	ew productive zone.	
							,				
							•				
<sup>23</sup> I hereby certify that the information given above is true and complete to the best						OIL CONSERVATION DIVISION					
of my knowledge and belief						Appr	oved by:	1 ms			
Signature: 3 30 CDL 4							810	C///a	ACDVICAT	,	
Printed name: L. KIKI LOCKETT						Title	UIS	KILL SUI	<u> LKAIOOL</u>	<u> </u>	
Title: RE	EGULATORY	ANALYST				Appr	oval Date: 6/2 4	/// E	epiration Date:	/24/13	
E-mail Address:	KIKI_LOCK	CETT@OXY.	СОМ								
Date: 6	-21-11		Phone: 7	13-215-	7643	Cond	itions 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

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 96010 DOME CARBON DIOXIDE GAS 640 30-059-20527 Property Name Property Code Well Number DOME CARBON DIOXIDE GAS UNIT 27111 BRAVO 021

#### OGRID No. Operator Name Elevation OXY USA INC. 16696 4558.6 Surface Location UL or lot no. Section Township Range Lot Idn. Feet from the North/South line Feet from the East/West line County F 2 19 N 35 E 1700' NORTH 1700' WEST UNION Hole Location If Different From Bottom Surface Lot Idn. UL or lot no. Section Township Range Feet from the North/South line Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 640 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Kiki Lockett 1700 NM-E NAD27 Regulatory Compliance Analyst 35° 54'35.71" Lat - 35° 54'35.71 Lan - 103° 11'21.19" Title - 838811.32 - 1788421.93 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best Date of Sur Signature "AMOIZE" Asel Certificate Number

### APD DATA - DRILLING PLAN - Bravo Dome Unit 1935-021F

#### 1. CASING PROGRAM

Surface Casing: 8.625" casing set at  $\pm$  750 ft MD/ 750 ft TVD in a 12.25" 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	8.625	24	J-55	STC	1370	2950	244	8.097	7.972

Production Casing: 5.5" casing set at  $\pm$  2300 ft MD/ 2300 ft TVD in a 7.875" 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 - 2300	5.5	15.5	J-55	LTC	4040	4810	217	4.950	4.825

#### 2. CEMENT PROGRAM:

#### **Surface Interval**

Interval	тос	Amount (sx)	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Lead: 0' - 750' (75% Excess)	Surface	400	750'	Premium Plus Cement, 2% Calcium Chloride, 0.25 lb/sk Poly-E-Flake	6.35	14.8	1.35	1808 psi

Note: Surface casing will be tested to 1000 psi after 8 hrs WOC time.

#### **Production Interval**

Interval	TOC (MD-ft)	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Lead: 0 - 1996' (150% Excess)	Surface	350	1996'	MidCon-2 Premium Plus Cement, 2% Calcium Chloride, 0.25 lb/sk Poly-E-Flake	20.44	11.1	3.25	390 psi
Tail: 1996'- 2300' (400% Excess)	1996'	150	314'	MidCon-2 Premium Plus Cement, 2% Calcium Chloride, 0.25 lb/sk Poly-E-Flake	9.95	13.2	1.85	1084 psi

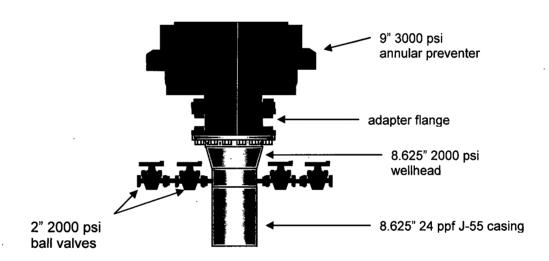
Note: Production casing will be tested to 500 psi over displacement pressure after bumping plug.

#### 3. PRESSURE CONTROL EQUIPMENT

Surface: 0 - 750' will be drilled with no conductor and no pressure control equipment at surface.

**Production: 750' – 2300'** will be drilled with a 9" 3M annular preventer.

- a. The annular preventer will be functionally tested and pressure tested upon nipple up to wellhead **every well**. In the rare case that a well lasts longer than three weeks, the preventer will be subsequently tested every 21 days. The test will consist of a 250 psi low test and a 1000 psi high test.
- 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



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# 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 Applicat	<u>ion</u>

Closure of a pit, closed-loop  Modification to an existing p	system, below-grade tank, or proposed alternative method ermit for an existing permitted or non-permitted pit, closed-loop system,
Please be advised that approval of this request does not relieve the operator of lie	adividual pit, closed-loop system, below-grade tank or alternative request ability should operations result in pollution of surface water, ground water or the ply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator: Occidental Permian Ltd.	ogrid#: <i>16696</i>
Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046	
Facility or well name: Bravo Dome Unit Well 1935-021F	+ · ·
API Number: 30-059-20527	OCD Permit Number:
U/L or Qtr/Qtr 1700 FNL / 1700 FWL Section 02 Township 19N	Range 35E County: Union
Center of Proposed Design: Latitude 35° 54' 35.71" Longitude 103° 11'	21.19" NAD: ⊠1927 □ 1983
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian	Allotment
2.  ☑ Pit: Subsection F or G of 19.15.17.11 NMAC  Temporary: ☑ Drilling ☐ Workover	•
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A	
☐ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ H	DPF T PVC T Other
String-Reinforced String Stri	DID II TO II ONIO
Liner Seams: ⊠ Welded ⊠ Factory □ Other	Volume: 4000 bbl Dimensions: L 75 x W 75 x D 4
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: P&A Drilling a new well Workover or Dri intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Ot Lined Unlined Liner type: Thickness mil LI  Liner Seams: Welded Factory Other	DPE HDPE PVC Other
4.    Below-grade tank: Subsection I of 19.15.17.11 NMAC   Volume:	er, 6-inch lift and automatic overflow shut-off
5. Alternative Method:  Submittal of an exception request is required. Exceptions must be submittal of an exception request in required.	red 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)					
Signs: Subsection C of 19.15.17.11 NMAC  ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.3.103 NMAC	-				
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 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				
<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 and 19.15.17.13 NMAC  Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:
12.
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:  (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  Precboard 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 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)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids facilities are required.							
Disposal Facility Name:	Disposal Facility Permit Number:						
Disposal Facility Name:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?  Yes (If yes, please provide the information below) No							
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19.15.17.13 NMAOn I 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 provided below. Requests regarding changes to certain siting criteria may requested an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	ire administrative approval from the appropriate disti al Bureau office for consideration of approval.  Justi	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; Database search; USG	ata 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							
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Database search; US	ata obtained from nearby wells	☐ Yes ☑ No ☐ NA ,					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other si lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	gnificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☑ No					
Within 300 feet from a permanent residence, school, hospital, institution, or churchy Visual inspection (certification) of the proposed site; Aerial photo; Satellia		☐ Yes ☑ No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that le watering purposes, or within 1000 horizontal feet of any other fresh water well or  NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	☐ Yes ☒ No					
Within incorporated municipal boundaries or within a defined municipal fresh wa adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approx	-	☐ Yes ☑ No					
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Vis	ual 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-Minit	ng and Mineral Division	☐ Yes ☑ No					
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geolo Society; Topographic map</li> </ul>	gy & Mineral Resources; USGS; NM Geological	☐ 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. Please indicate, by a 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 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							

19.  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): Kyle Noyet  Title: Drilling Engineer					
Signature: Date:					
e-mail addresskyle_noyes@oxy.com Telephone: 713-215-7617					
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)					
OCD Representative Signature: Approval Date: Approval Date:					
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.					
23.  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: 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) \(\subseteq\) No					
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					
24.					
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)					
☐ Plot Plan (for on-site closures and temporary pits)					
☐ Confirmation Sampling Analytical Results (if applicable) ☐ Waste Material Sampling Analytical Results (required for on-site closure)					
☐ Disposal Facility Name and Permit Number					
☐ Soil Backfilling and Cover Installation ☐ Re-vegetation Application Rates and Seeding Technique					
☐ Site Reclamation (Photo Documentation)					
On-site Closure Location: Latitude Longitude NAD: ☐ 1927 ☐ 1983					
25. 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:					



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

No records found.

**PLSS Search:** 

Section(s): 2

Township: 19N

Range: 35E

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

June 6, 2011

Dennis and Deana Shugart 1917 Montevista Dalhart, TX 79022

Re: Temporary Pit Notification

Dear Mr. and Mrs. Shugart:

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 15<sup>th</sup> 2008 for the following locations: Township 19N, Range 35E, Section 2.

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) 215-7617 office or my cell (832) 316-5946.

Respectfully,

Kyle Noyes

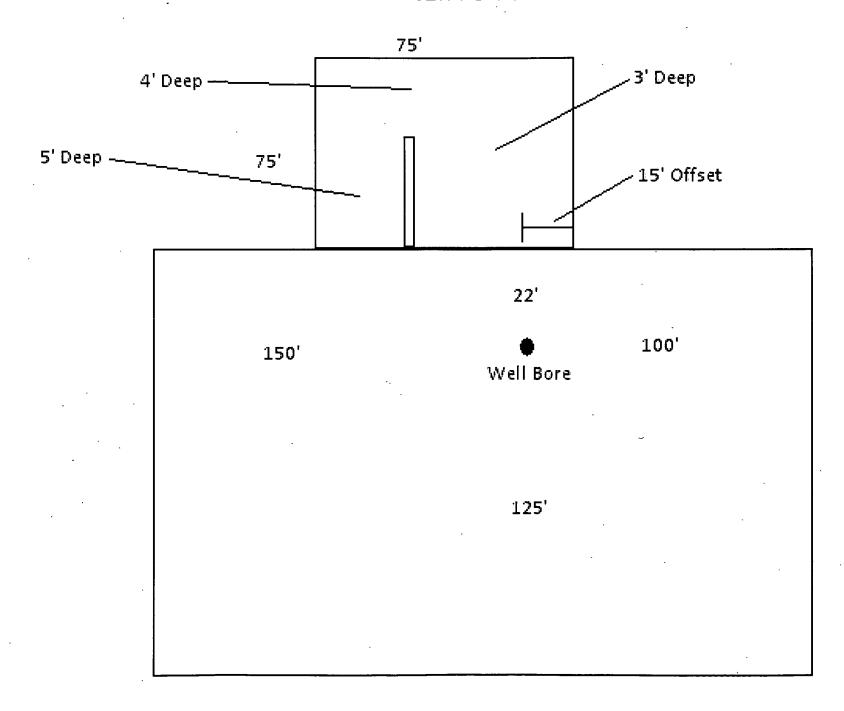
Senior Drilling Engineer

OXY USA Inc.

CC: File

**NMOCD** 

# BRAVO DOME 2011 DRILLING PAD



# OXY 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.



## 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 #:	ı	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. 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