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

LOLII C-101 June 16, 2008

histrict I 625 N. French Dr., Hobbs, NM 88240 istrict II 301 W. Grand Avenue, Artesia, NM 88210 District III 000 Rio Brazos Rd., Aztec, NM 87410 District IV

220 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

		-	<sup>1</sup> Operat	tor Name and	Address		<del></del>	- <del>-</del>		<sup>2</sup> OGRID Number			
Y USA INC										16696 <sup>3</sup> API Number			
BOX 4294	. HOUSTO	N, TX	77210	-4294	•				30- 021-20533				
	rty Code 111			****	DOME		erty Name IOXIDE	GAS UNIT 2130			I No. 01		
BF	RAVO DOME		osed Po		S 640	<u> </u>			<sup>10</sup> Proposed P	ool 2			
urface Lo	cation				,								
IL or lot no.	Section 30	Towns		Range 30 E	Lot. Idi	1	om the	North/South Line	Feet from the	East/West line WEST	County HARDING		
roposed F	<u> </u>				Farant	<del></del>		NURTH	940	WEST	HARDING		
Toposed I	Section	<del></del>						North/South Line	Feet from the	East/West line	Carrati		
L of lot no.	Section	Towns	snip	Range	Lot. Idi	n reet if	om the	North/South Line	reet from the	East west fine	County		
lditional V	Well Loc	ation						<u> </u>					
<sup>11</sup> Work Typ	pe Code		12 V	Vell Type Code	e	13 Cat	ole/Rotary R	<sup>14</sup> Lease Type Code P		15 Ground Level Elevation 5339.2			
<sup>16</sup> Multi <b>N</b>	-		17 P	roposed Depth	1		rmation TUBB	19	Contractor N/A	<sup>20</sup> Spud Date			
Proposed	Casing a	nd Ce	ment	Progran	n								
Hole S	ize		Casing	Size	Casin	g weight/foot		Setting Depth	Sacks of Ceme	nt Est	imated TOC		
17 17	/2		13 3	/8	•	54.5#		1400 '	1300sx	9	SURFACE		
12 1	/4		9 5,	/8	· 4	0# 23#		2700"	820sx	9	SURFACE		
8 5/	8 5/8 7			23#	. '	3100"	640sx	SURFACE					
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UIL CONSERVATION COMMISSION TO BE NOTIFIED WITHIN 24 HOURS OF BEGINNING OPERATIONS

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION					
ignature: L. Lockett	Approved by: Martin					
rinted name: L. KIKI LOCKETT	Title: DISTRICT SUPERVISOR					
itle: REGULATORY ANALYST	Approval Date: /2 /12/2011 Expiration Date: 12/12/2013					
-mail Address: KIKI_LOCKETT@OXY.COM						
Date: Phone: 713-215-7643	Conditions of Approval Attached					

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393–6161 Fax: (575) 393–0720 District II 811 South First, Artesia, NM 88210 Phone: (575) 748–1283 Fax: (575) 748–9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334–6178 Fax: (505) 334–6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476–3460 Fax: (505) 476–3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

1 /	API Numb												
30-02		0533	ار	96010			RAVO DOME	CA	ARBON	DIOXID			
* Property		_					Name				6	Well Number	
2711		В	RAVO	DOME	CARB	ON	DIOXIDE G	<u>'AS</u>	UNIT			301	
7 OGRID	1						Name				<sup>6</sup> Elevation		
1669	6				OXY	US	SA INC.					5339.2	
,	•				™ Sur	face	Location						
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from	the	North/South line	Feet	from the	East/West	line	County	
Ε	30	21 N	30 E		1688	<i>'</i>	NORTH	,	940'	WE	ST	HARDING	
			<sup>n</sup> Bott	om Hol	e 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	
12 Dedicated Acre	s 13 Joint	or Infill 11	Consolidation	1 Gode 15 C	order No.								
640									-				
	ll be assign	ned to this	completion	until all in	terests have	e beer	n consolidated or a	non-	-standard u	mit has bee	еп аррт	oved by the	
division.													
16 30	Y = 1	///	7//			77	77777	7	" OPER	ATOR	CERT	IFICATION	
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												this organization either terest in the knd including	
	.88							4	the proposed botto	m hole location	or has a rigi	ha no drill this well as this	
	<u> </u>							4	interest, or to a vo	lunuary pooling a	igreeniens or	of such a mineral or working a compulsory pooling	
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NM-E NAD	27								G.	Kiki	Locke	ett	
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### APD DATA - DRILLING PLAN - Bravo Dome Unit 2130-301E

### 1. CASING PROGRAM

Surface Casing: 13 3/8" casing set at  $\pm$  1400 ft MD/ 1400 ft TVD in a 17 1/2" hole filled with 8.4 ppg mud

Interval	OD (in)	Wt	Gŕ	Cpl g .	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)
0 - 1400	13.375	54.5#	J-55	ST C	1130	2730	514	12.615	12.459

Intermediate Casing: 9.5/8" casing set at  $\pm$  2700ft MD/ 2700ft TVD in a 12.25" hole filled with 8.9 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
	7	23#	N-80	LTC	3830	6340	442	6.250	6.361

Production Casing: 7" casing set at ± 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	6.250	6.361

### 2. CEMENT PROGRAM:

### Surface Interval

Interval	тос	Amount (sx)	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Lead: 0' - 1100' (110% Excess)	Surface	920	1100'	Premium Plus Cement, 4% Bentonite, 2% Calcium Chloride, 0.25 lb/sk Poly-E- Flake	9.16	13.5	1.75	880 psi
Tail: 1100 – 1400' (110% Excess)	1100	380	300'	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 790 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
Lead: 0 - 2524' (300% Excess)	Surface	670	2524'	MidCon-2 Premium Plus Cement, 2% Calcium Chloride, 0.25 lb/sk Poly-E-Flake	18.06	11.4	2.94	180 psi
Tail: 2524"- 2700' (300% Excess)	2567'	150	133'	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 2160 psi.

### Production Interval

Interval	TOC (MD- ft)	Amount sx	Ft of Fill	Type	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 2680 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: 2700' – 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

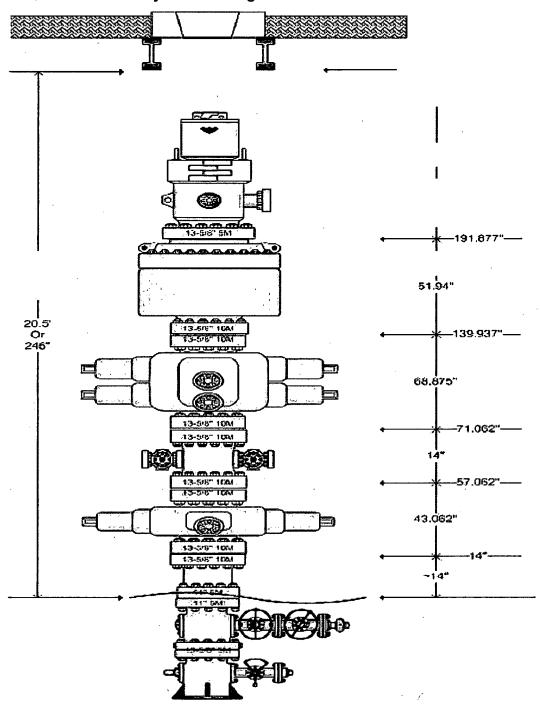
## SEE EMAIL CLARIFICATION

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



District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 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

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 avironment. 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 #: 16696
Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046
Facility or well name: Bravo Dome Unit Well 2130-301E
API Number: 30 - 021 - 20533 OCD Permit Number:
U/L or Qtr/Qtr 1688 FNL / 940 FWL Section 30 Township 21N Range 30E County: Harding
Center of Proposed Design: Latitude 36° 01' 23.29" Longitude 103° 47' 28.06" 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
☐ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☑ 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 intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☒ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams:  Welded Factory Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Volume:bbl Type of fluid:  Tank 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
5.
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 on almost)	hospital,
institution or church)  ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
7.	
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)	
8. 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	
9.	
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 of	office for
consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10.	
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 acceptance.	table source
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate the control of t	priate district
office 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 dryi	
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).	☐ Yes ☒ No
- Topographic map; Visual inspection (certification) of the proposed site	
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)	☐ Yes ☑ No ☐ NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☑ No ☐ NA
(Applies to permanent pits) - 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.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes 🏻 No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - 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 overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area.	☐ Yes 🛛 No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	
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
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:
Previously Approved Operating and Maintenance Plan API Number:
above ground sieet tanks or name-off ours 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  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  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) 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

Oround 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  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  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  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  Within 500 horizontal feet of a private, domestic 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  Within incorporated municipal boundaries or within a defined municipal 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  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.  Within 500 feet of a wetland.  Society; Topographic map.  Within and 100-year floodplain.  Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain.  FEMA map	·			
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 service and op   Yes (if Yes, please provide the information below)   No   No   Yes (if Yes, please provide the information below)   No   Required for impacted areas which will not be used for future service and operations:    Goil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection If 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   Site Reclamation 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   Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC   Site Reclamation Plan - based upon the appropriate in the closure plan. Recommendations of acceptable source material provided below. Requests regarding changes to certain stifing criteria may require administrative approval from the appropriate district office / Consideration of approval. Justifications a demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.  Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  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  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 main cipal time of initial application	lease indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Us			
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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  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  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 cannot be achied 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	teria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ion/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 ion/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate recand Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC tion Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closurer Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC attorn Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	of 19.15.17.11 NMAC	te,	

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: Felly Known for Billy Kny Suggs Date: 11/17/11
e-mail address: BillyRay_Suggs@oxy.com Telephone: 318-243-4065
20.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) CCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 12/12/2011
Title: DISTRICT SUPERVISÓR 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:
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) 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
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
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:



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

November 11, 2011

Miller Land & Cattle Co. P.O. Box 459 Santana, KS 67870

Re: Temporary Pit Notification

Dear Miller Land & Cattle Co.,

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 21N, Range 30E, Section 30.

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 on my cell (318) 243-4065.

for Billy Ray Sugs

Respectfully,

Billy Ray Suggs Drilling Engineer OXY USA Inc.

CC:

File

**NMOCD** 



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

No records found.

PLSS Search:

Section(s): 30

Township: 21N

Range: 30E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



### 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.

EMAIN

- 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')
<i>,</i> .						
		<u> </u>				
			1-01-01-01-01-01-01-01-01-01-01-01-01-01			

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



### Pit Design and Construction Plan

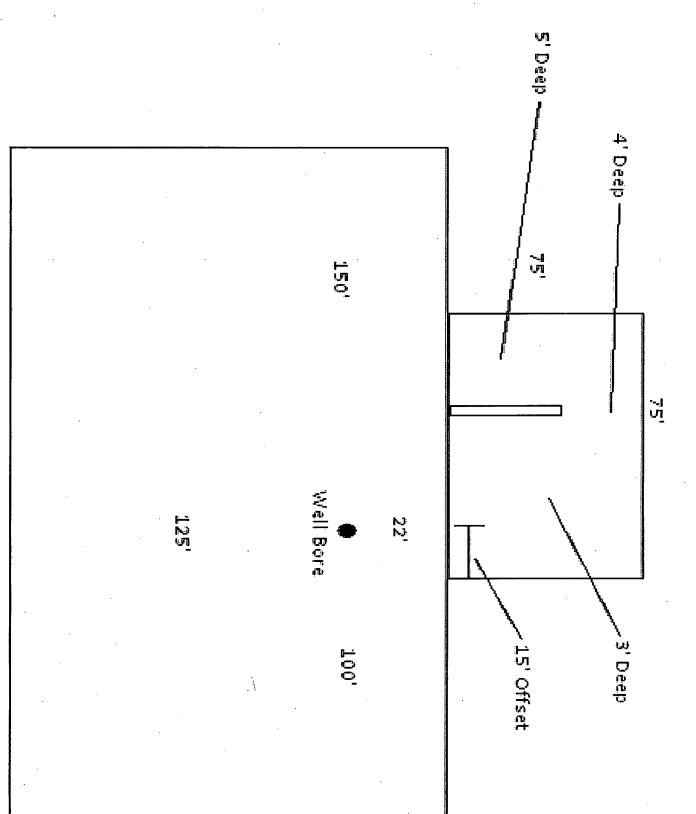
In accordance with Rule 19 15 17 the following information describes the design and construction of temporary pits on Occidental Permian Ltd (OXY) locations. This is OXY's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this 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 2011 DRILLING PAD



### Martin, Ed, EMNRD

From:

Filip Krneta@oxy.com

Sent: To: Monday, December 05, 2011 11:53 AM

Cc:

Kiki\_Lockett@oxy.com Martin, Ed, EMNRD

Subject:

RE: APD for 2130-301E

It is worded wrong. We will drill the surface(17.5") hole and the intermediate(12 %") hole with freshwater mud circulating through the steel pits. We will then empty out the steel pits and dump the fresh water mud to the reserve pits. Only the production hole(8 %") will be drilled with oil based mud at which point which we will also circulate through the steel pits. We will have a cuttings box at this point to collect all the cuttings while drilling with the oil based mud. We will then dispose of those cuttings.

Thanks,

### Filip Krneta

Drilling Engineer - Oxy Permian
Occidental Oil & Gas - 5 Greenway Plaza Houston, TX 77042
Office 713-350-4751
Cell 713-447-0376
Email Filip Krneta@oxy.com

From: Lockett, Kiki

Sent: Monday, December 05, 2011 9:52 AM

To: Krneta, Filip

Subject: FW: APD for 2130-301E

Please advise...

From: Martin, Ed, EMNRD [mailto:ed.martin@state.nm.us]

Sent: Friday, December 02, 2011 2:57 PM

To: Lockett, Kiki

Subject: APD for 2130-301E

Note on page 3 of Drilling Plan says that surface and intermediate hole will be drilled with a reserve pit and oil based mud.

Page 1 of Maintenance and Operating Plan for Temporary Pits (item 3) says that any hydrocarbon based drilling fluid generated during the drilling or workover operation will be contained in an appropriate tank, it will not be discharged into a temporary pit.

Which of these is correct? Will the oil-based mud be discharged into the reserve pit?

Ed Martin
New Mexico Oil Conservation Division
District IV Supervisor
1220 S. St. Francis
Santa Fe, NM 87505

Work: 505-476-3470 Cell: 505-690-2365 Home: 505-685-4056