# State of New Mexico

District I

Energy, Minerals & Natural Resources

		_				
1625	N.	French	Dr.,	Hobbs.	NM	88240

District II 1301 W. Grand Avenue, Artesia, NM 88210 C F V F Qil Conservation Divsiion

Submit to appropriate District Office

1220 S. St. Francis Dr.

District IV 1220 S. St. Francis Dr., Santa F., WM 87505 3 PM 1 5 Santa Fe, NM 87505 ☐ AMENDED REPORT APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address <sup>2</sup> OGRID Number 16696 OXY USA Inc. <sup>3</sup>API Number P.O. Box 50250 Midland, TX 79710-0250 30-021-<sup>5</sup>Property Name Well No. <sup>4</sup>Property Code 27111 Bravo Dome Carbon Dioxide Gas Unit 29 9 Proposed Pool 1 <sup>10</sup> Proposed Pool 2 96010 Bravo Dome Carbon Dioxide Gas 160 <sup>7</sup>Surface Location North/South Line UL or lot no. Township Lot. Idn Feet from the Feet from the East/West line County Section Range Harding G 29 13 N 3\ E 1700 nonth 1700 8 Proposed Bottom Hole Location If Different From Surface Feet from the North/South Line Lot. Idn Feet from the East/West line UL or lot no. Section Township Range County Additional Well Location 11 Work Type Code 12 Well Type Code 14 Lease Type Code 13 Cable/Rotary 15 Ground Level Elevation R S- 6537 16 Multiple 17 Proposed Depth Formation Contractor 2600' Tubb N/A No Depth to ground water Distance from nearest fresh water well Distance from nearest surface water >100 >1000 >1000 Pit Volume 4000 bbls 12 Liner: Synthetic X \_ mils thick Clav Drilling Method: Fresh Water X Diesel/Oil-based Closed-Loop System Brine 🔲 Gas/Air 🔲 <sup>21</sup>Proposed Casing and Cement Program Hole Size Casing Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC +/-750' 12-1/4" 24# 400sx 8-5/8" Surface 7-7/8" 5-1/2" 5.9#FG/15.5# +/-2600' 550sx Surface <sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. See Attachment  $^{\rm 23}$  I hereby certify that the information given above is true and complete to the best of OIL CONSERVATION DIVISION my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines X a general permit \_\_\_\_, or Approved by: an (attached) alternative OCD-appraved plan Wm. Shu Printed name: David Stewart Title: Title: Sr. Regulatory Analyst Approval Date: **Expiration Date:** E-mail Address: david stewart@oxy.com Date: Conditions of Approval: 4/1108 432-685-5717

Attached

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III

#### 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

District IV 9040 South Pacheco Santa Fe, NM 87505

1000 Rio Brazos Rd., Aztec, NM 87410

2040 South Fach	ieco, Santa P	e, NM 67505							AMEN	DED REPORT		
		WEL	L LO	CATION	AND AC	CREAGE DEDI	CATION PI	LAT				
	API Numb	er		Pool Cod	e	Pool Name						
30-021- 20466				96010	)	BRAVO DO	ME CARBO	N DIO	XIDE GAS 160			
Property				Property Name					. Well Number			
2711	11	BRAV	'O D(	DME C	ARBON [	DIOXIDE GAS	S UNIT 18	31	291			
OGRID				Operator Name						Elevation		
1669	6				OXY U	SA INC.			4381.3			
					Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line (		County		
G	29	18 N	31 E		1700'	NORTH	1700'	EA.	ST	HARDING		
<del></del>			Bott	om Hol	e Location	If Different Fr	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 Acr	es Joint	or Infill Co	onsolidatio	n Code C	order No.	•						
160	N											
NO ALLO	WABLE V					TION UNTIL ALL			EN CO	NSOLIDATED		
		OR A	NON-S1	ANDARD	UNII HAS	BEEN APPROVED						
29	-			: 1			OPER	ATOR (	CERT	IFICATION		
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					NAD27		Printed Nam	-	torv	Analyst		
	ŀ			Lon -	35° 45'48.98'' 103° 39'55.98''		Title					
					398114.00 1733856.41			<u> 411</u>	08			

## 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 of my belief.

Date of Survey Signature an

Certificate Number 15079

Date

## Bravo Dome CO2 wells - 2008

## CASING:

MD (ft)	Hole Size (in)	Csg Size (in)	Wt (ib/ft)	Grd	Cplg
0 - ±750	12-1/4	8-5/8	24	J55	STC
0 - ± 2440	7-7/8	5-1/2 FG	5.9	FG	10 Rd
2440 - ± 2600	7-7/8	5-1/2 Steel	15.5	J55	LTC <sup>-</sup>

### CEMENT:

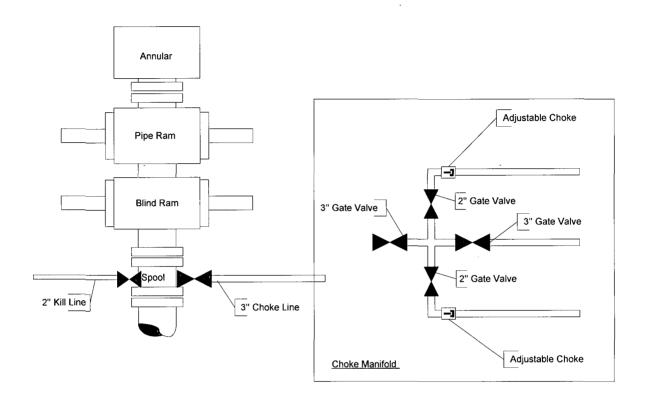
#### Surface:

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

#### Production:

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

## 9" BOP - 3000psi



8 e, deep 25 120' 40, 5' deep 8 4' deep 55 120'

Bravo Dome Unit Location and Pit Design Cheyenne Rig 8

## Bravo Dome Unit Cellar and Sump Pit Cheyenne Rig 8

