State of New Mexico Energy, Minerals & Natural Resources Form C-101 May 27, 2004

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

Oil Conservation Division RECEIVE appropriate District Office 1220 S. St. Francis Dr.

Santa Fe, NM 875052008 MAR 19 PM 4 AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE <sup>2</sup> OGRID Number <sup>1</sup>Operator Name and Address 16696 OXY USA Inc. <sup>3</sup>API Number P.O. Box 50250 Midland, TX 79710-0250 30-021-<sup>4</sup>Property Code <sup>5</sup>Property Name Well No. Bravo Dome Carbon Dioxide Gas Unit 2031 27111 221 9 Proposed Pool 1 10 Proposed Pool 2 Bravo Dome Carbon Dioxide Gas 160 96010 <sup>7</sup>Surface Location North/South Line Feet from the UL or lot no. Section Township Lot. Idn Feet from the East/West line County G 20 N Harding 22 1680 Nouth 1700 <sup>8</sup> Proposed Bottom Hole Location If Different From Surface North/South Line Feet from the Feet from the UL or lot no. Lot. Idn East/West line Section Township County Additional Well Location 12 Well Type Code 11 Work Type Code 13 Cable/Rotary 14 Lease Type Code 15 Ground Level Elevation R 5- 65795 4718.4° 16 Multiple 17 Proposed Depth 18 Formation Contractor 2600 Tubb N/A Depth to ground water Distance from nearest fresh water well Distance from nearest surface water >100' >1000 >1000 Pit Volume 4000 bbls Liner: Synthetic X 12 Clay Drilling Method: \_ mils thick Fresh Water X Brine \_\_\_ Diesel/Oil-based Gas/Air Closed-Loop System <sup>21</sup>Proposed Casing and Cement Program Sacks of Cement Hole Size Casing Size Casing weight/foot Setting Depth Estimated TOC 24# +/-750' 12-1/4" 8-5/8" 400sx 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  $^{23}$  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-approved plan Signature: Un SA Printed name: David Stewart Title: Sr. Regulatory Analyst Title: Expiration Date: E-mail Address: david stewart@oxy.com Date: Phone: Conditions of Approval: 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

AMENDED REPORT

# District IV

1000 Rio Brazos Rd., Aztec, NM 87410

#### 2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30-021-20460 96010 BRAVO DOME CARBON DIOXIDE GAS 160 Property Code Property Name Well Number 27111 BRAVO DOME CARBON DIOXIDE GAS UNIT 2031 221 OGRID No. Operator Name Elevation 16696 OXY USA INC. 4718.4 Surface Location Feet from the UL or lot no. North/South line East/West line Section Township Range Lot Idn. Feet from the County G 22 1680' NORTH 20 N 31 E 1700' EAST HARDING Bottom Hole Location If Different From Surface Section Lot Idn. Feet from the North/South line UL or lot no. Township Range Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 160 N NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS REEN APPROVED BY THE DIVISION

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22	 			OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
		NM-E NAD27 Lat - 35° 57'10.97'' Lon - 103° 37'48.34'' X - 708137.04 Y - 1802885.92	1700'	Signature  David Stewart  Printed Name  Sr. Regulatory Analyst  Title  Jacoba
				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.  December 17, 2007  Date of Survey  Signature and seal of professional surveyor  15079  Certificate Number 15079
ı				100/3

# 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	

### CEMENT:

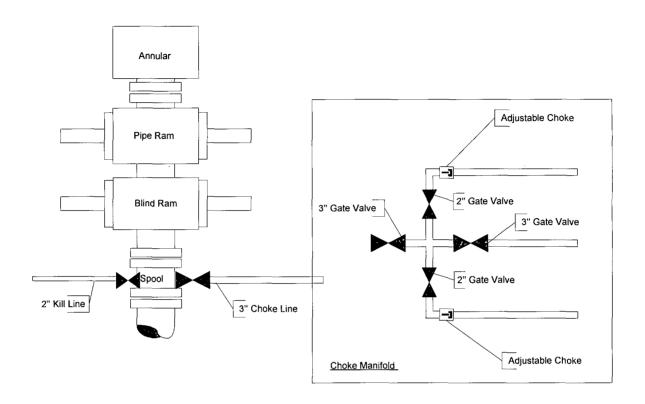
### Surface:

_			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	
Premium Plus					4	00 sx		
Premium Plus					400 sx 2%			
CaCl Poly E Flake					0.125 lb/sx			
Sturry Yield				1.35 cfs				
Mix Water				6.3 gal/sx				
Mix Water Source					Freshwater			

#### Production:

Production.									
			Ce	men	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 e
Tail	13.2	±1830	2600			50	150	TOC above Cimarro	±600' on
	Lead	Slurry				Tail	Slurry		
Premium Plus CaCl		3%		Premium Plus CaCl		150 sx 3%			
Poly E Flake Slurry Yield Mix Water		3.28 cfs 20.56 gal/sk		Poly E Flake Slurry Yield Mix Water		0.125 lb/sx 1.86 cfs 9.99 gal/sk			
Mix Water Source		Freshwater			Mix Water Source		Freshwater		

# 9" BOP - 3000psi



110 8 e, deep 75 120, .0 5' deep 80 4' deep 55 120'

Bravo Dome Unit Location and Pit Design Cheyenne Rig 8

# Bravo Dome Unit Cellar and Sump Pit Cheyenne Rig 8

