

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  
May 27, 2004

Submit to appropriate District Office

RECEIVED  
Oil Conservation Division  
1220 S. St. Francis Dr.

2008 APR 2 PM 3:37  
Santa Fe, NM 87505

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address OXY USA Inc. P.O. Box 50250 Midland, TX 79710-0250		<sup>2</sup> OGRID Number 16696
<sup>4</sup> Property Code 27111	<sup>5</sup> Property Name Bravo Dome Carbon Dioxide Gas Unit 2333	<sup>3</sup> API Number 30-059-20496
<sup>9</sup> Proposed Pool 1 Bravo Dome Carbon Dioxide Gas 640 96010		<sup>6</sup> Well No. 141
<sup>10</sup> Proposed Pool 2		

<sup>7</sup>Surface Location

UL or lot no. F	Section 14	Township 23 N	Range 33 E	Lot. Idn	Feet from the 1700	North/South Line North	Feet from the 1980	East/West line West	County Union
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<sup>8</sup>Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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Additional Well Location

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code C	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 4993.5'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 2600'	<sup>18</sup> Formation Tubb	<sup>19</sup> Contractor N/A	<sup>20</sup> Spud Date 5/26/08
Depth to ground water >100'		Distance from nearest fresh water well >1000'		Distance from nearest surface water >1000'
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 4000 bbls Drilling Method:				
Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

<sup>21</sup>Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	8-5/8"	24#	+/- 750'	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

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.  
Signature: *David Stewart*

Printed name: David Stewart

Title: Sr. Regulatory Analyst

E-mail Address: david\_stewart@oxy.com

Date: 3/28/08

Phone: 432-685-5717

OIL CONSERVATION DIVISION

Approved by:

*Ed Martin*

Title:

DISTRICT SUPERVISOR

Approval Date: 4/3/08

Expiration Date: 4/3/10

Conditions of Approval:

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 <b>30-059-20496</b>	Pool Code <b>96010</b>	Pool Name <b>BRAVO DOME CARBON DIOXIDE GAS 640</b>
Property Code <b>27111</b>	Property Name <b>BRAVO DOME CARBON DIOXIDE GAS UNIT 2333</b>	Well Number <b>141</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>4993.5</b>

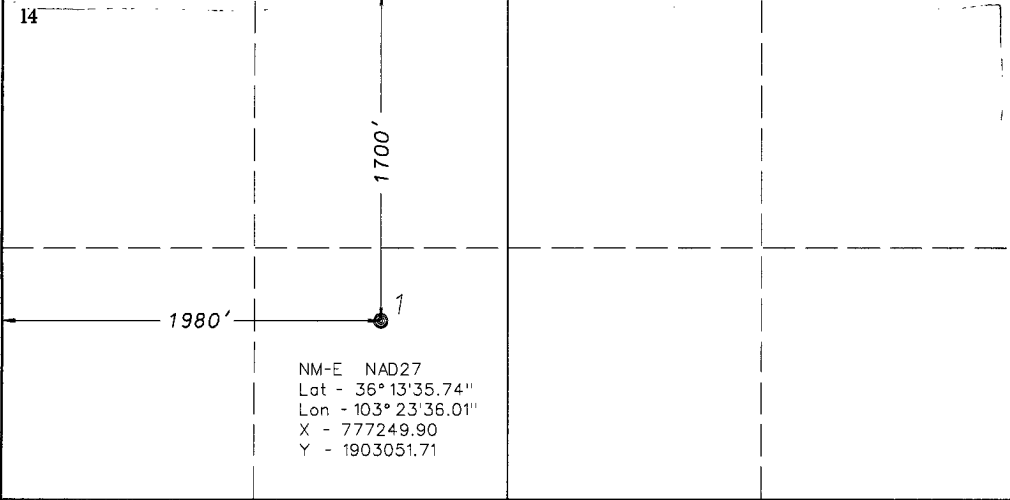
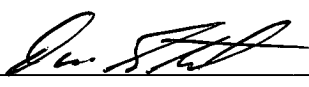
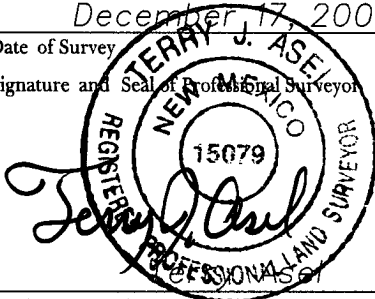
Surface Location

UL or lot no. <b>F</b>	Section <b>14</b>	Township <b>23 N</b>	Range <b>33 E</b>	Lot Idn.	Feet from the <b>1700'</b>	North/South line <b>NORTH</b>	Feet from the <b>1980'</b>	East/West line <b>WEST</b>	County <b>UNION</b>
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Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres <b>640</b>	Joint or Infill <b>N</b>	Consolidation Code	Order No.						

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

<div>14</div> <div></div>	<div><b>OPERATOR CERTIFICATION</b></div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div></div> <div>Signature <b>David Stewart</b></div> <div>Printed Name <b>Sr. Regulatory Analyst</b></div> <div>Title <b>3/28/08</b></div> <div>Date</div>
	<div><b>SURVEYOR CERTIFICATION</b></div> <div>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.</div> <div>December 17, 2007</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor</div> <div></div> <div>Certificate Number <b>15079</b></div>

Bravo Dome CO2 wells - 2008

CASING:

MD (ft)	Hole Size (in)	Csg Size (in)	Wt (lb/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:

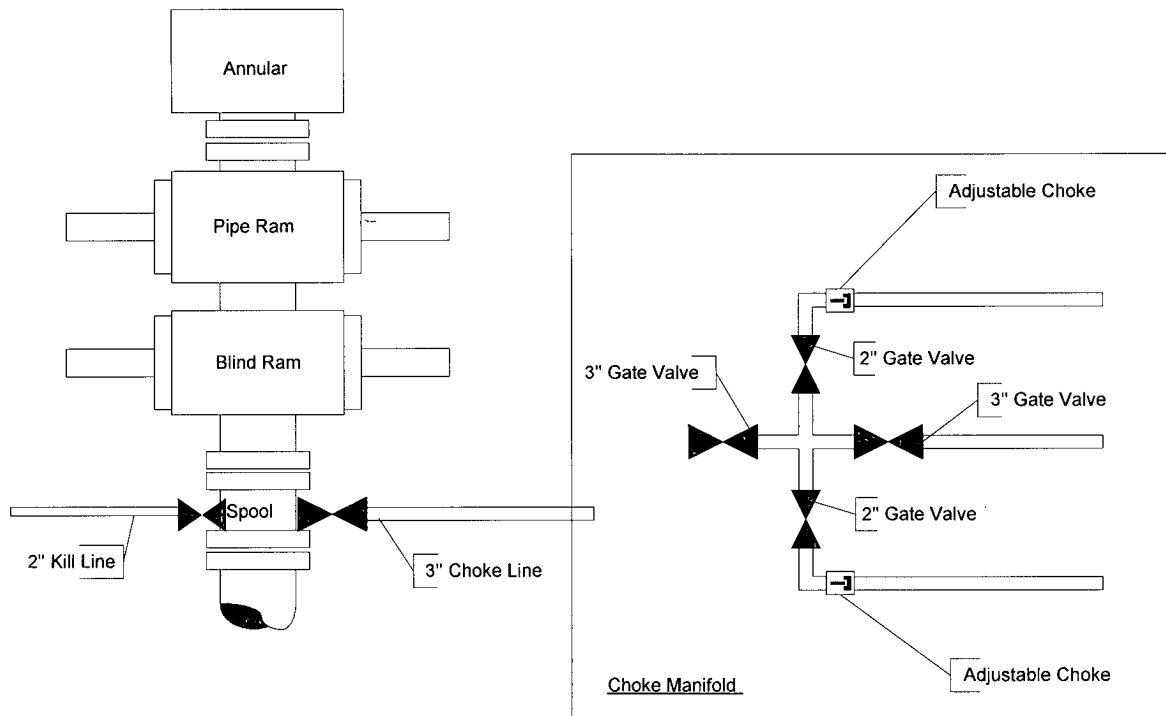
Surface:

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

Production:

Cement Design							
Slurry	Weight (ppg)	TOC (feet)	BOC (feet)		Slurry Volume (Bbls)	Cement Required (sx.)	Comment
Lead	11.1	0	±1830		233	400	TOC to Surface
Tail	13.2	±1830	2600		50	150	TOC ±600' above Cimarron
Lead Slurry				Tail Slurry			
Premium Plus CaCl Poly E Flake Slurry Yield Mix Water Mix Water Source	400 sx 3% 0.125 lb/sx 3.28 cfs 20.56 gal/sk Freshwater			Premium Plus CaCl Poly E Flake Slurry Yield Mix Water Mix Water Source	150 sx 3% 0.125 lb/sx 1.86 cfs 9.99 gal/sk Freshwater		

## 9" BOP - 3000psi



The diagram shows a rectangular lot with a total width of 120' and a total depth of 110'. A vertical line divides the lot into two sections. The left section is 40' wide and 110' deep, with a diagonal line from the bottom-left corner to the top-right corner. The right section is 80' wide and 110' deep. The area of the left section is calculated as 40' x 110' = 4,400 sq. ft. The area of the right section is calculated as 80' x 110' = 8,800 sq. ft. The total area of the lot is 4,400 sq. ft. + 8,800 sq. ft. = 13,200 sq. ft.

Bravo Dome Unit  
Cellar and Sump Pit  
Cheyenne Rig 8

