

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

Oil Conservation Division

1220 S. St. Francis Drive  
Santa Fe, NM 87505

MAR 26 2007

Submit to appropriate District Office

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address		<sup>2</sup> OGRID Number 16696	
OXY USA Inc. P.O. Box 50250 Midland, TX 79710-0250		<sup>3</sup> API Number 30-021-20375	
<sup>4</sup> Property Code 27111	<sup>5</sup> Property Name Bravo Dome Carbon Dioxide Gas Unit 1932		<sup>6</sup> Well No. 321
<sup>9</sup> Proposed Pool 1 Bravo Dome Carbon Dioxide Gas 640 96010		<sup>10</sup> Proposed Pool 2	

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
J	32	19 N	32 E		1700	South	1700	East	Harding

<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

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 S-LG 4621	<sup>15</sup> Ground Level Elevation 4550.2'
<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 6.1.07
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#	700'	300sx	Surface
7-7/8"	5-1/2"	5.9#FG/15.5#	2600'	300sx	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 <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OGD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature: <i>David Stewart</i>		Approved by: <i>Ed Martin</i>	
Printed name: David Stewart		Title: DISTRICT SUPERVISOR	
Title: Sr. Regulatory Analyst		Approval Date: 4-3-07 Expiration Date: 4-3-08	
E-mail Address: david.stewart@oxy.com			
Date: 3/23/07	Phone: 432-685-5717	Conditions of Approval: Attached <input type="checkbox"/>	

**ATTACHMENT C-101'****BDCDGU** 1932-321**PROPOSED TD:** 2600' TVD**BOP PROGRAM:** 0-700' None

700-2600' 8" 2M annular hydril preventer.

**CASING:** Surface: 8-5/8" OD 24# J55 8rd ST&C new casing set at 700'  
12-1/4" hole  
Centralizers from TD-Surf, every fourth joint

Production: 5-1/2" OD new casing from 0-2600'  
300'-15.5# J55 8rd LTC 2300'-5.9# 10rd FG  
7-7/8" hole - 5 centralizers

\*This well will have fiberglass casing from surface to the productive interval (Tubb). Steel casing will be used across the Tubb. The fiberglass casing must penetrate the Cimarron at a minimum. The optimum point for setting the fiberglass casing is at the midpoint of the Cimarron formation.

**CEMENT:** Surface - Circulate cement with 300sx Premium Plus with 2%  $\text{CaCl}_2$  + .25#/sx Poly E Flake, (WT-14.8ppg, Yld-1.34cf/sx, FW-6.3g/sx)

Production - Cement with 150sx Premium Plus with 3%  $\text{CaCl}_2$  + .25#/sx Poly E Flake, (WT-11.1ppg, Yld-3.27cf/sx, FW-20.47g/sx)  
followed by 150sx Premium Plus with 3%  $\text{CaCl}_2$  + .25#/sx Poly E Flake, (WT-13.2ppg, Yld-1.86cf/sx, FW-9.93g/sx)

**MUD:** 0-700' Fresh water/native mud.  
Wt 8.6-9.2ppg, Vis 32-36sec


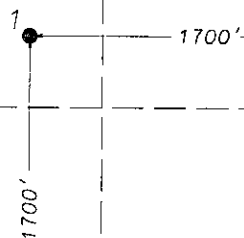
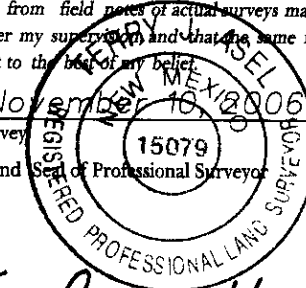
700-2600' Fresh water/Starch/Gel  
pH control as needed.  
Wt 9.0-9.2ppg, Vis 28-29sec

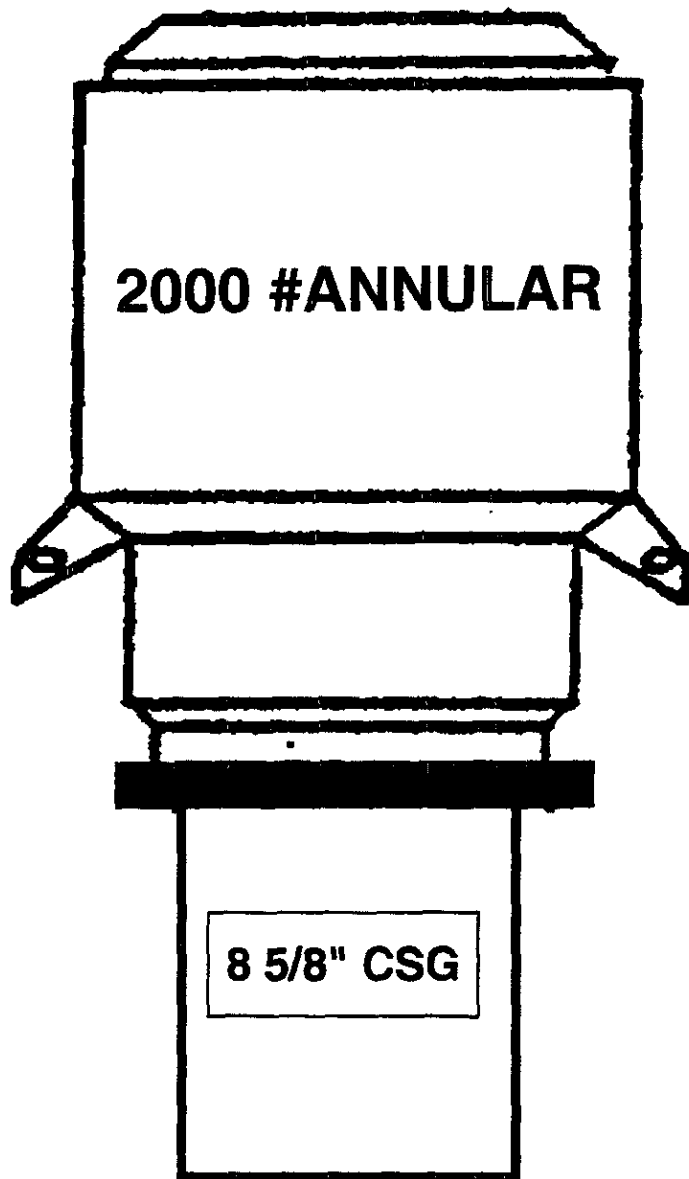
District IV  
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Fee Lease - 3 Copies

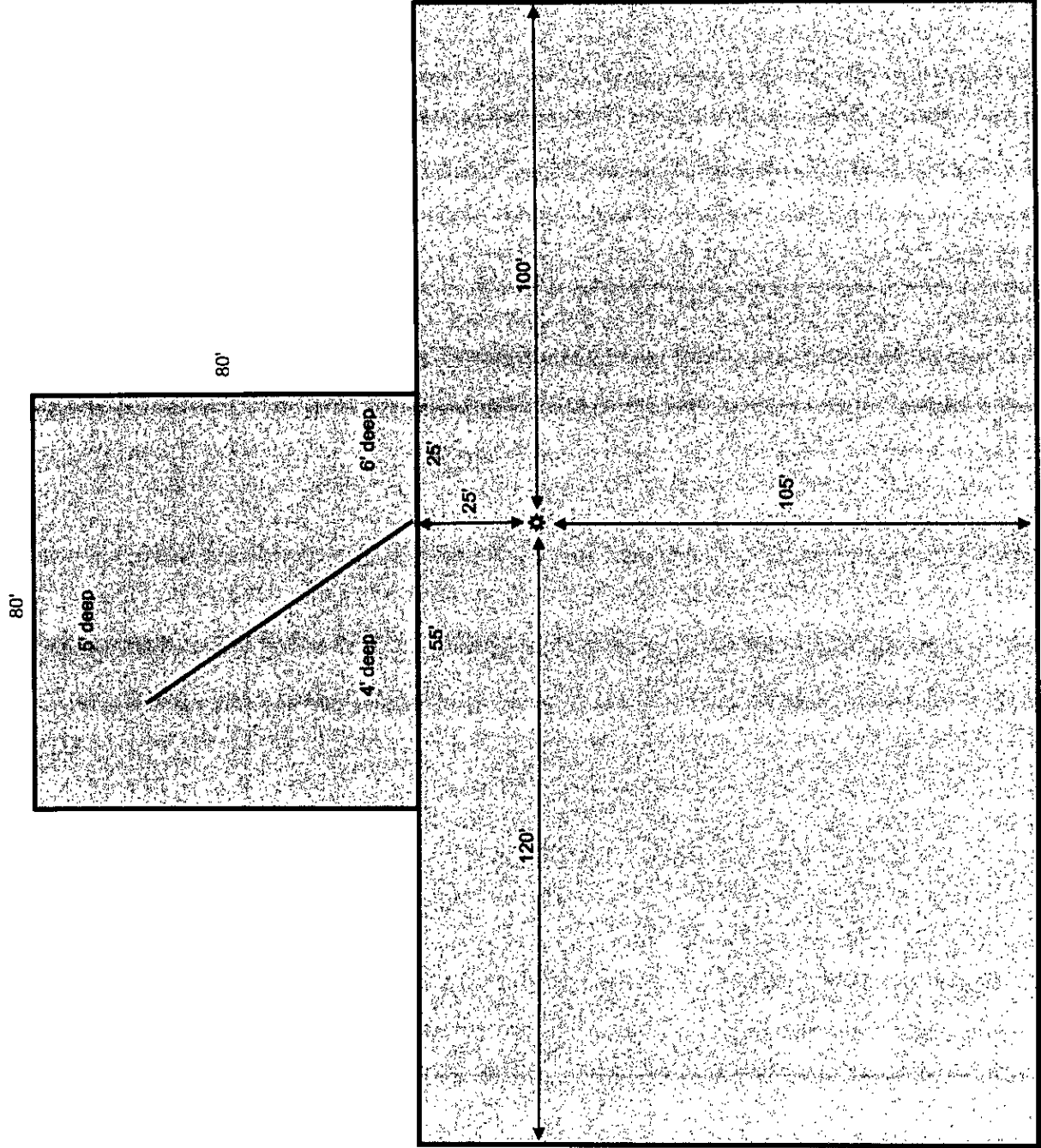
☐ AMENDED REPORT

<div data-bbox="66 1045 97 1071">32</div>		<div data-bbox="1078 1035 1537 1075">OPERATOR CERTIFICATION</div> <div data-bbox="1078 1085 1537 1146">I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div data-bbox="1078 1157 1537 1310"></div> <div data-bbox="1078 1310 1537 1371">Signature <b>David Stewart</b></div> <div data-bbox="1078 1371 1537 1434">Printed Name <b>Sr. Regulatory Analyst</b></div> <div data-bbox="1078 1434 1537 1495">Title <b>3/23/07</b></div> <div data-bbox="1078 1495 1537 1535">Date</div>
	<div data-bbox="573 1566 771 1677">NM-E NAD27 Lat - 35° 49' 52.24" Lon - 103° 33' 30.05" X - 729724.76 Y - 1758686.58</div> <div data-bbox="711 1688 956 1923"></div>	<div data-bbox="1078 1545 1537 1585">SURVEYOR CERTIFICATION</div> <div data-bbox="1078 1596 1537 1709">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 data-bbox="1078 1709 1537 1770">Date of Survey <b>November 16, 2006</b></div> <div data-bbox="1078 1770 1537 1831">Signature and Seal of Professional Surveyor</div> <div data-bbox="1185 1638 1492 1923"></div> <div data-bbox="1078 1831 1537 1995"><b>Terry Asel</b> <b>2/9/2007</b> Terry Asel</div> <div data-bbox="1078 1995 1537 2034">Certificate Number <b>15079</b></div>



**BRAVO DOME 2003 DRILLING PROJECT BOP DIAGRAM**

Bravo Dome Unit  
Location and Pit Design  
Cheyenne Rig 8



Bravo Dome Unit  
Cellar and Sump Pit  
Cheyenne Rig 8

