

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-101  
May 27, 2004

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 Dr.  
Santa Fe, NM 87505

RECEIVED

Submit to appropriate District Office

2008 MAR 20 PM 2:15 AMENDED REPORT

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

|   |  |   |  |
|---|--|---|--|
| <sup>1</sup> Operator Name and Address<br>OXY USA Inc.<br>P.O. Box 50250 Midland, TX 79710-0250 |  | <sup>2</sup> OGRID Number<br>16696        |  |
| <sup>4</sup> Property Code<br>27111   |  | <sup>3</sup> API Number<br>30- 021- 20458 |  |
| <sup>5</sup> Property Name<br>Bravo Dome Carbon Dioxide Gas Unit 1831                           |  | <sup>6</sup> Well No.<br>201              |  |
| <sup>9</sup> Proposed Pool 1<br>Bravo Dome Carbon Dioxide Gas 160 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             | 20      | 18 N     | 31 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<br>N  | <sup>12</sup> Well Type Code<br>C     | <sup>13</sup> Cable/Rotary<br>R                  | <sup>14</sup> Lease Type Code<br>S-405868 | <sup>15</sup> Ground Level Elevation<br>4382.9' |
| <sup>16</sup> Multiple<br>No   | <sup>17</sup> Proposed Depth<br>2600' | <sup>18</sup> Formation<br>Tubb                  | <sup>19</sup> Contractor<br>N/A           | <sup>20</sup> Spud Date<br>5/20/08              |
| Depth to ground water<br>>100'   |                                       | Distance from nearest fresh water well<br>>1000' |   | Distance from nearest surface water<br>>1000'   |
| Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 4000 bbls Drilling Method:<br>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 <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .<br>Signature: <i>David Stewart</i> |                     | OIL CONSERVATION DIVISION                                    |  |
| Printed name: David Stewart   |                     | Approved by: <i>Ed Martin</i>                                |  |
| Title: Sr. Regulatory Analyst   |                     | Title: DISTRICT SUPERVISOR                                   |  |
| E-mail Address: david.stewart@oxy.com   |                     | Approval Date: 3/27/08 Expiration Date: 3/27/10              |  |
| Date: 3/17/08   | Phone: 432-685-5717 | Conditions of Approval:<br>Attached <input type="checkbox"/> |  |

District IV  
2040 South Pacheco, Santa Fe, NM 87505

20

# OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.



Signature

David Stewart

Printed Name

Sr. Regulatory Analyst

Title

3/17/08

Date

NM-E NAD27  
 Lat - 35° 46' 22.61"  
 Lon - 103° 39' 56.02"  
 X - 698088.19  
 Y - 1737256.31

1700'

1700'

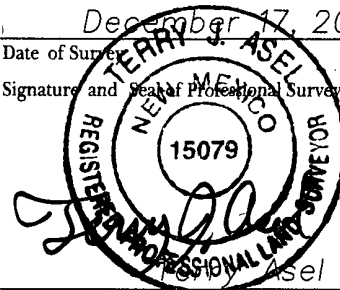
# SURVEYOR CERTIFICATION

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



Certificate Number 15079

# 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:

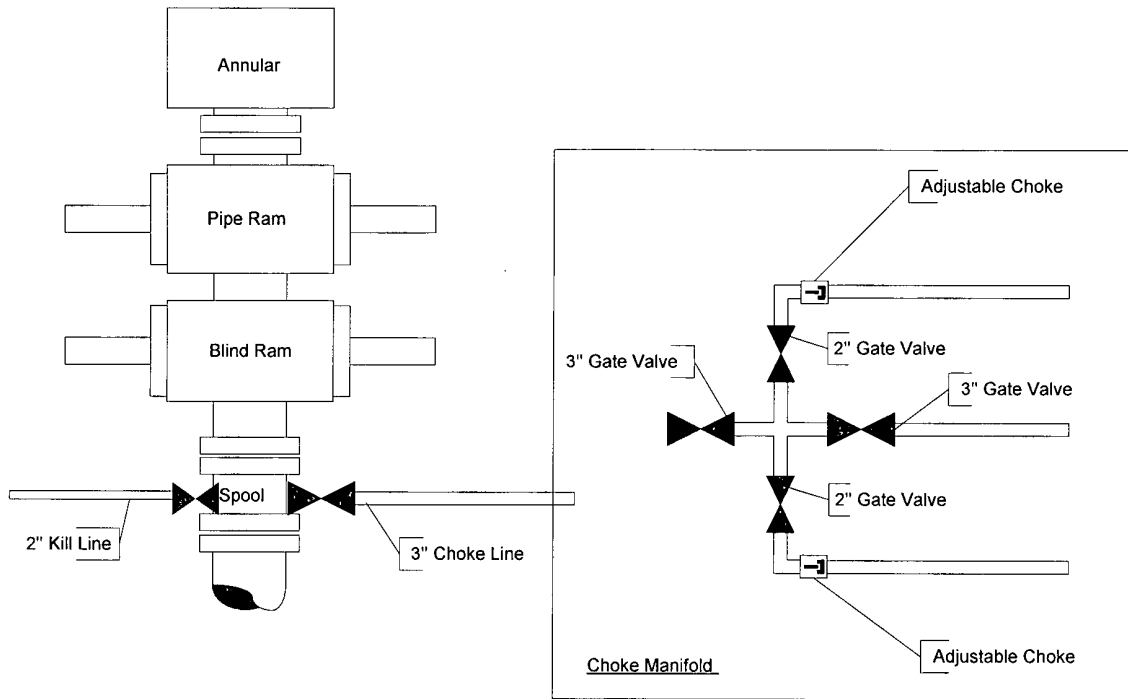
### Surface:

| 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<br>CaCl<br>Poly E Flake<br>Slurry Yield<br>Mix Water<br>Mix Water Source | 400 sx<br>2%<br>0.125 lb/sx<br>1.35 cfs<br>6.3 gal/sx<br>Freshwater |            |            |  |                      |                       |              |

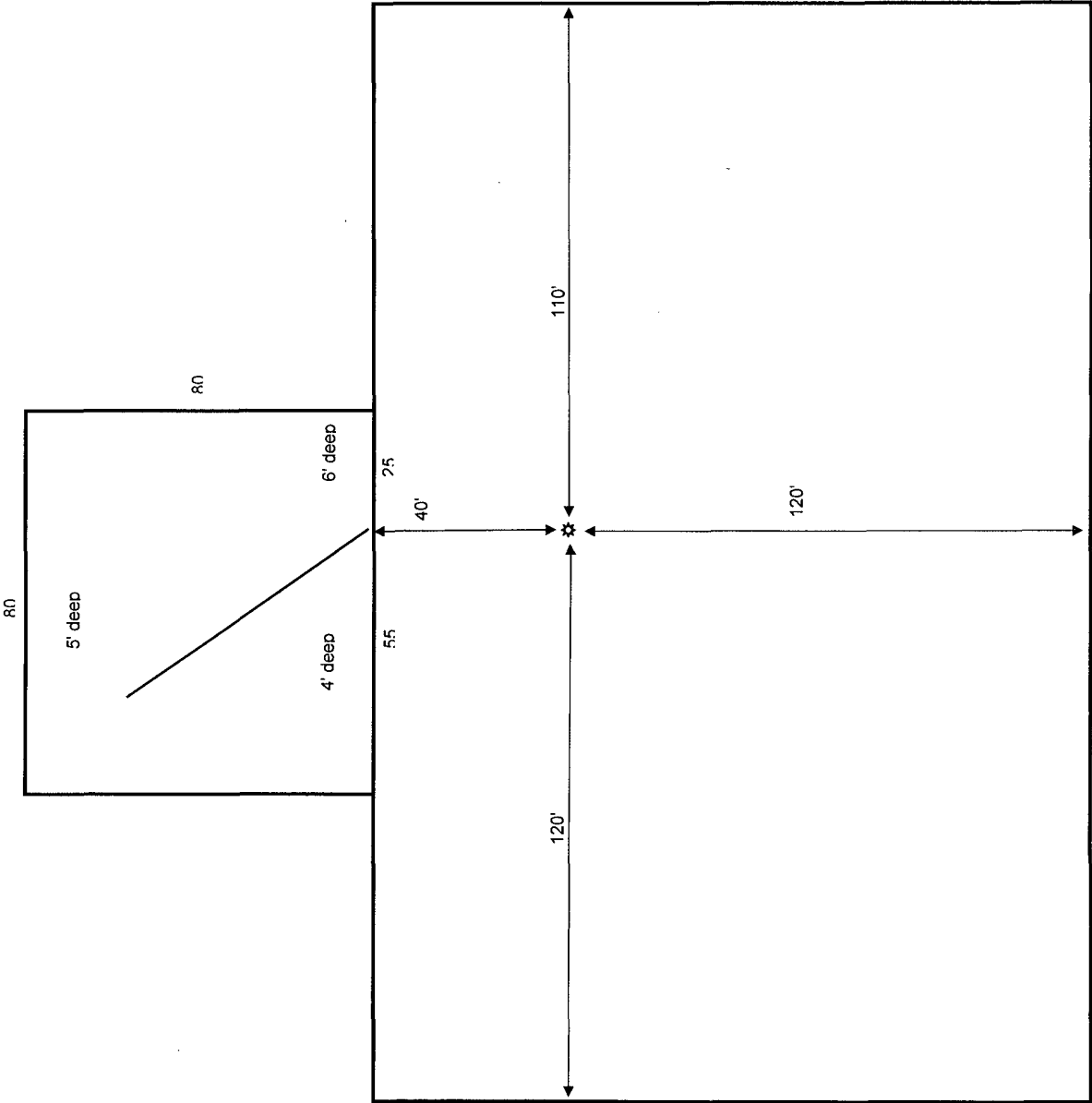
### Production:

| 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<br>CaCl<br>Poly E Flake<br>Slurry Yield<br>Mix Water<br>Mix Water Source | 400 sx<br>3%<br>0.125 lb/sx<br>3.28 cfs<br>20.56 gal/sk<br>Freshwater |            |            | Premium Plus<br>CaCl<br>Poly E Flake<br>Slurry Yield<br>Mix Water<br>Mix Water Source | 150 sx<br>3%<br>0.125 lb/sx<br>1.86 cfs<br>9.99 gal/sk<br>Freshwater |                       |                          |

## 9" BOP - 3000psi



Bravo Dome Unit  
Location and Pit Design  
Cheyenne Rig 8



Bravo Dome Unit  
Cellar and Sump Pit  
Cheyenne Rig 8

