

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

| | | |
|---|---|---|
| ¹ Operator Name and Address OXY USA Inc. P.O. Box 50250 Midland, TX 79710-0250 | | ² OGRID Number 16696 |
| ⁴ Property Code 27111 | ⁵ Property Name Bravo Dome Carbon Dioxide Gas Unit 1832 | ³ API Number 30-021-20410 |
| ⁹ Proposed Pool 1 Bravo Dome Carbon Dioxide Gas 640 96010 | | ⁶ Well No. 221 |
| ¹⁰ Proposed Pool 2 | | |

⁷ Surface Location

| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from the | North/South Line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|----------|---------------|------------------|---------------|----------------|---------|
| K | 22 | 18 N | 32 E | | 1700 | South | 1700 | West | Harding |

⁸ 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

| | | | | |
|--|---------------------------------------|--|---|---|
| ¹¹ Work Type Code N | ¹² Well Type Code C | ¹³ Cable/Rotary R | ¹⁴ Lease Type Code S-164605 | ¹⁵ Ground Level Elevation 4578.2' |
| ¹⁶ Multiple No | ¹⁷ Proposed Depth 2600' | ¹⁸ Formation Tubb | ¹⁹ Contractor N/A | ²⁰ Spud Date 7/1/07 |
| 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"/> | | | | |

²¹ 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 |
| | | | | | |
| | | | | | |
| | | | | | |

²² 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 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"/> . 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: 4-23-07 Expiration Date: 4-23-08 | |
| Date: 4/20/07 | Phone: 432-685-5717 | Conditions of Approval: Attached <input type="checkbox"/> | |

ATTACHMENT C-101'
BDGDGU 1532-221

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% CaCl₂ + .25#/sx Poly E Flake, (WT-14.8ppg, Yld-1.34cf/sx, FW-6.3g/sx)
Production - Cement with 150sx Premium Plus with 3% CaCl₂ + .25#/sx Poly E Flake, (WT-11.1ppg, Yld-3.27cf/sx, FW-20.47g/sx) followed by 150sx Premium Plus with 3% CaCl₂ + .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

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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 30-021-20410 | Pool Code 96010 | Pool Name BRAVO DOME CARBON DIOXIDE GAS 640 |
| Property Code 27111 | Property Name BRAVO DOME CARBON DIOXIDE GAS UNIT 1832 | Well Number 221 |
| OGRID No. 16696 | Operator Name OXY USA INC. | Elevation 4578.2 |

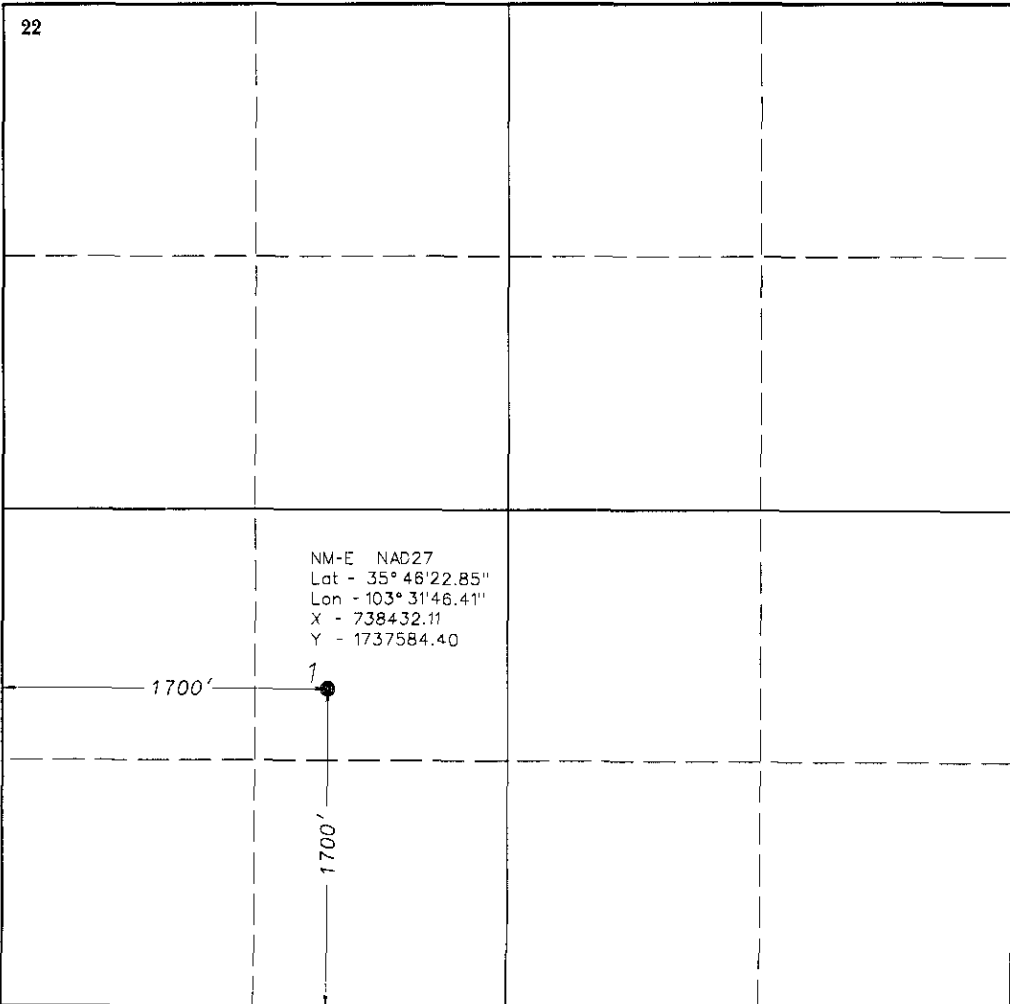

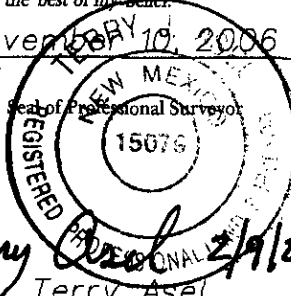
Surface Location

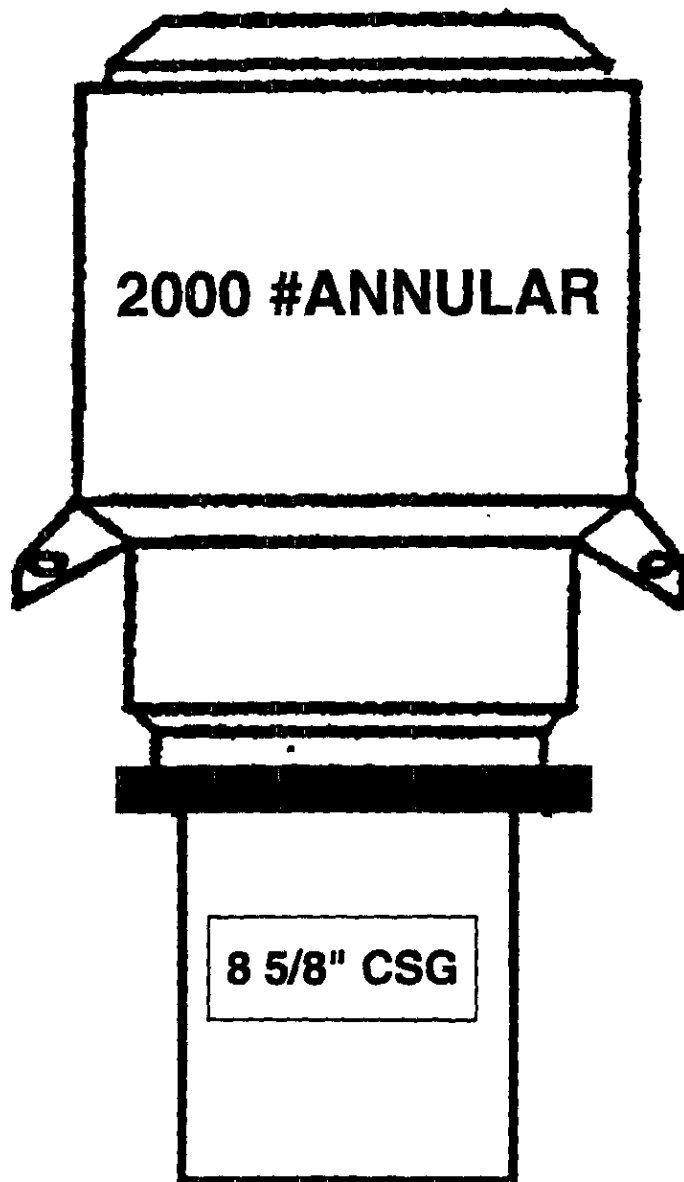
| | | | | | | | | | |
|---------------|-----------|-------------|-------------|----------|---------------|------------------|---------------|----------------|----------------|
| UL or lot no. | Section | Township | Range | Lot Idn. | Feet from the | North/South line | Feet from the | East/West line | County |
| K | 22 | 18 N | 32 E | | 1700' | SOUTH | 1700' | WEST | HARDING |

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 640 | Joint or Infill N | Consolidation Code | Order No. | | | | | | |

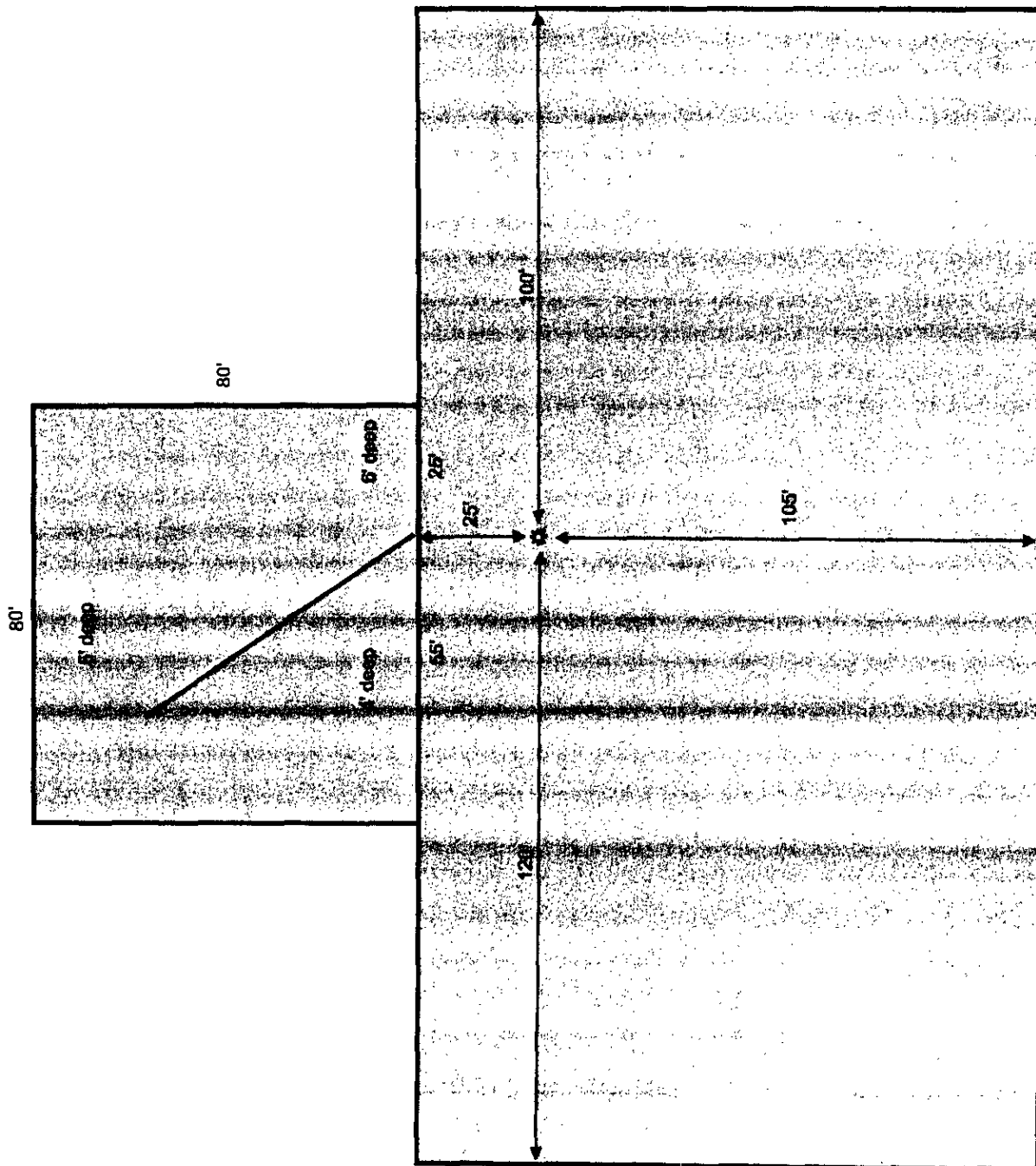
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | |
|---|--|
| <div>22</div>  | <p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p> Signature David Stewart Printed Name Sr. Regulatory Analyst Title 4/20/07 Date</p> |
| | <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>November 19, 2006 Date of Survey Signature and Seal of Professional Surveyor  Terry Asel Certificate Number 15079</p> |



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

