

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 2132 | | | | | ³ API Number 30- 021- 20342 | | | | |
| ⁶ Well No. 151 | | | | | | | | | | | | | | |

| 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 |
| G | 15 | 21 N | 32 E | | 1650 | north | 1650 | east | 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 |
| | | | | | | | | | |

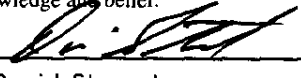
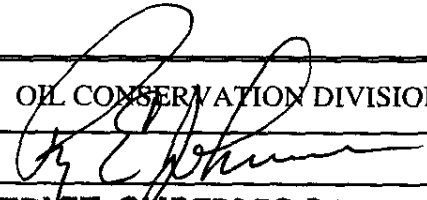
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|---|--|--|--|--|-------------------------------|--|--|--|--|
| ⁹ Proposed Pool 1 Bravo Dome Carbon Dioxide Gas 640 96010 | | | | | ¹⁰ Proposed Pool 2 | | | | |
|---|--|--|--|--|-------------------------------|--|--|--|--|

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|-----------------------------------|---------------------------------------|---------------------------------|--|---|
| ¹¹ Work Type Code N | ¹² Well Type Code C | ¹³ Cable/Rotary R | ¹⁴ Lease Type Code 5-L5744 | ¹⁵ Ground Level Elevation 4838.8' |
| ¹⁶ Multiple No | ¹⁷ Proposed Depth 2600' | ¹⁸ Formation Tubb | ¹⁹ Contractor N/A | ²⁰ Spud Date 4/7/04 |

| 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 |
| | | | | | |
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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 ATTACHED

| | | | |
|--|--|---|--|
| ²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed name: David Stewart Title: Sr. Regulatory Analyst Date: 4/8/04 | | OIL CONSERVATION DIVISION Approved by:  Title: DISTRICT SUPERVISOR Approval Date: 4/12/04 Expiration Date: 4/12/05 Conditions of Approval: Attached <input type="checkbox"/> | |
|--|--|---|--|

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

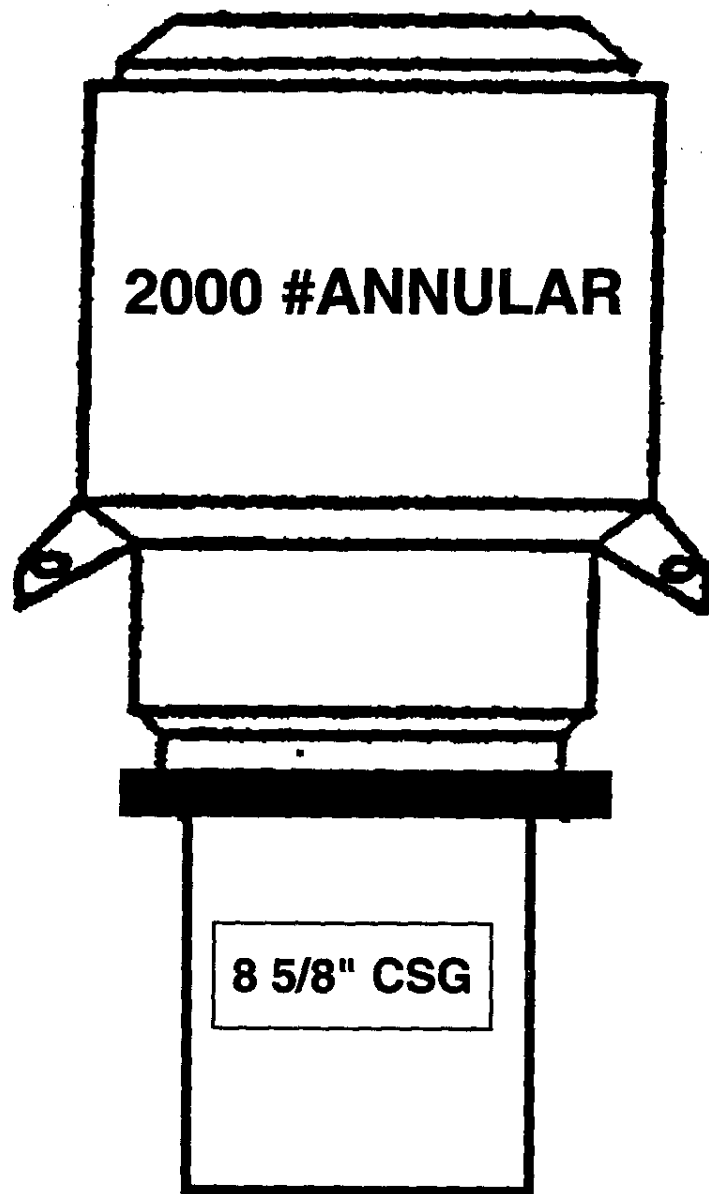
Production: 5-1/2" OD new casing from 0-2600'
300'-15.5# J55 8rd LTC 2300'-5.9# 10rd FG
7-7/8" hole - 5 centralizers

*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



BRAVO DOME 2003 DRILLING PROJECT BOP DIAGRAM
