

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
		³ API Number 30- 059- 20457
⁴ Property Code 27111	⁵ Property Name Bravo Dome Carbon Dioxide Gas Unit 2334	⁶ Well No. 311

⁷Surface Location

UL or lot no. K	Section 31	Township 23 N	Range 34 E	Lot. Idn	Feet from the 1650	North/South Line South	Feet from the 1650	East/West line West	County Union
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⁸Proposed 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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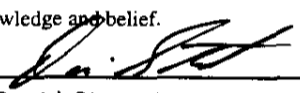
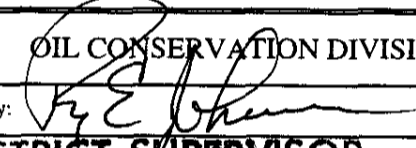
¹¹ Work Type Code N	¹² Well Type Code C	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 4859.3
¹⁶ Multiple No	¹⁷ Proposed Depth 2600'	¹⁸ Formation Tubb	¹⁹ Contractor N/A	²⁰ Spud Date 7/17/04

²¹Proposed 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 ATTACHED

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: 		Approved by: 	
Printed name: David Stewart		Title: DISTRICT SUPERVISOR	
Title: Sr. Regulatory Analyst		Approval Date: 4/8/04	Expiration Date: 4/8/04
Date: 4/6/04	Phone: 432-685-5717	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

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
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	96010	BRAVO DOME CARBON DIOXIDE GAS (640)
Property Code	Property Name	Well Number
27111	BRAVO DOME CARBON DIOXIDE GAS UNIT 2334	311
OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	4859.3

Surface Location

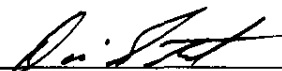

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
K	31	23 N	34 E		1650'	SOUTH	1650'	WEST	UNION

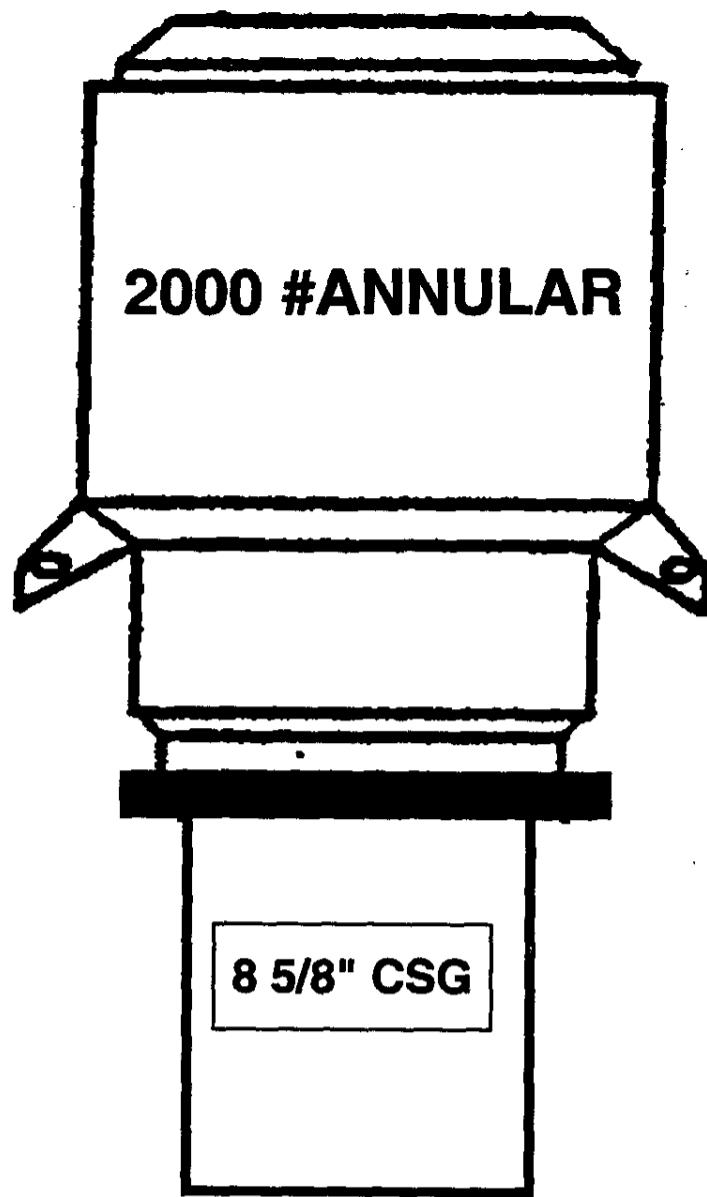
Bottom Hole Location If Different From Surface

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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640	N		

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

31	<div style="border: 1px dashed black; height: 400px; position: relative; margin-bottom: 10px;"><div style="position: absolute; top: 100px; left: 100px; text-align: center;">1</div><div style="position: absolute; top: 100px; left: 100px;">NM-E NAD27 Lot - 36° 10' 40.23" Lon - 103° 21' 31.93"</div><div style="position: absolute; top: 100px; left: 100px;">1650'</div><div style="position: absolute; top: 100px; left: 100px;">1650'</div></div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><div style="text-align: center;"></div><div>Signature David Stewart</div></div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><div>Printed Name Sr. Regulatory Analyst</div><div>Title 4/6/04</div></div> <div style="border: 1px solid black; padding: 5px;"><div>Date</div></div>
		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SURVEYOR CERTIFICATION <i>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.</i></div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><div>Date of Survey March 24, 2004</div><div>Signature and Seal of Professional Surveyor <div style="float: right; text-align: center;"></div></div></div> <div style="border: 1px solid black; padding: 5px;"><div>Certificate Number 7911</div></div>



BRAVO DOME 2003 DRILLING PROJECT BOP DIAGRAM
