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

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Oil Conservation Divsiion
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	[2] OGRID Number
OXY USA Inc. P.O. Box 50250 Midland, TX 79710-0250	16696
	[3] API Number 30- 059- 20499

[4] Property Code	[5] Property Name	[6] Well No.
27111	Bravo Dome Carbon Dioxide Gas Unit 2233	081

[9] Proposed Pool 1	[10] Proposed Pool 2
Bravo Dome Carbon Dioxide Gas 640 96010	

[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
J	8	22 N	33 E		1700	South	1700	east	Union

[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	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
N	C	R	S-406243	5028.2'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
No	2600'	Tubb	N/A	6/1/08

Depth to ground water	Distance from nearest fresh water well	Distance from nearest surface water
>100'	>1000'	>1000'

Pit: Liner: Synthetic [X] 12 mils thick Clay ☐ Pit Volume 4000 bbls Drilling Method:

Closed-Loop System ☐ Fresh Water [X] Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

[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#	+/-750'	400sx	Surface
7-7/8"	5-1/2"	5.9#FG/15.5#	+/-2600'	550sx	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** [X] **a general permit** ☐, **or an (attached) alternative OCD-approved plan** ☐.

Signature:

Printed name: David Stewart

Title: Sr. Regulatory Analyst

E-mail Address: david_stewart@oxy.com

Date: 4/1/08 Phone: 432-685-5717

OIL CONSERVATION DIVISION

Approved by: Ed Martin

Title: DISTRICT SUPERVISOR

Approval Date: 4/4/08 Expiration Date: 4/4/10

Conditions of Approval:

Attached ☐

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
Submit to 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
30-059- 20499	96010	BRAVO DOME CARBON DIOXIDE GAS 640

Property Code	Property Name	Well Number
27111	BRAVO DOME CARBON DIOXIDE GAS UNIT 2233	081

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	5028.2

Surface Location

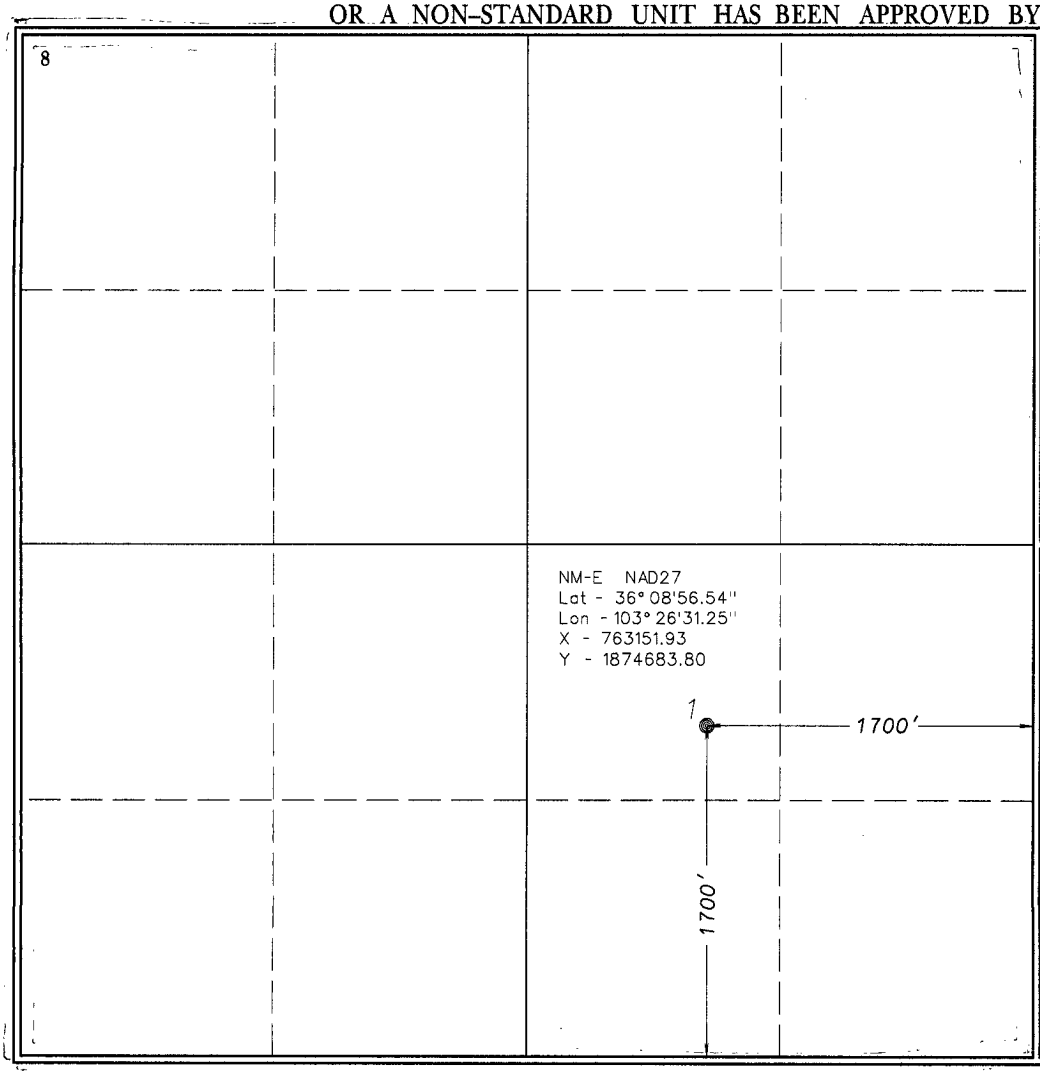
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
J	8	22 N	33 E		1700'	SOUTH	1700'	EAST	UNION

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	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



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

4/1/08
Date

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

TERRY J. ASEL
NEW MEXICO
15079
REGISTERED PROFESSIONAL LAND SURVEYOR

Terry Asel

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

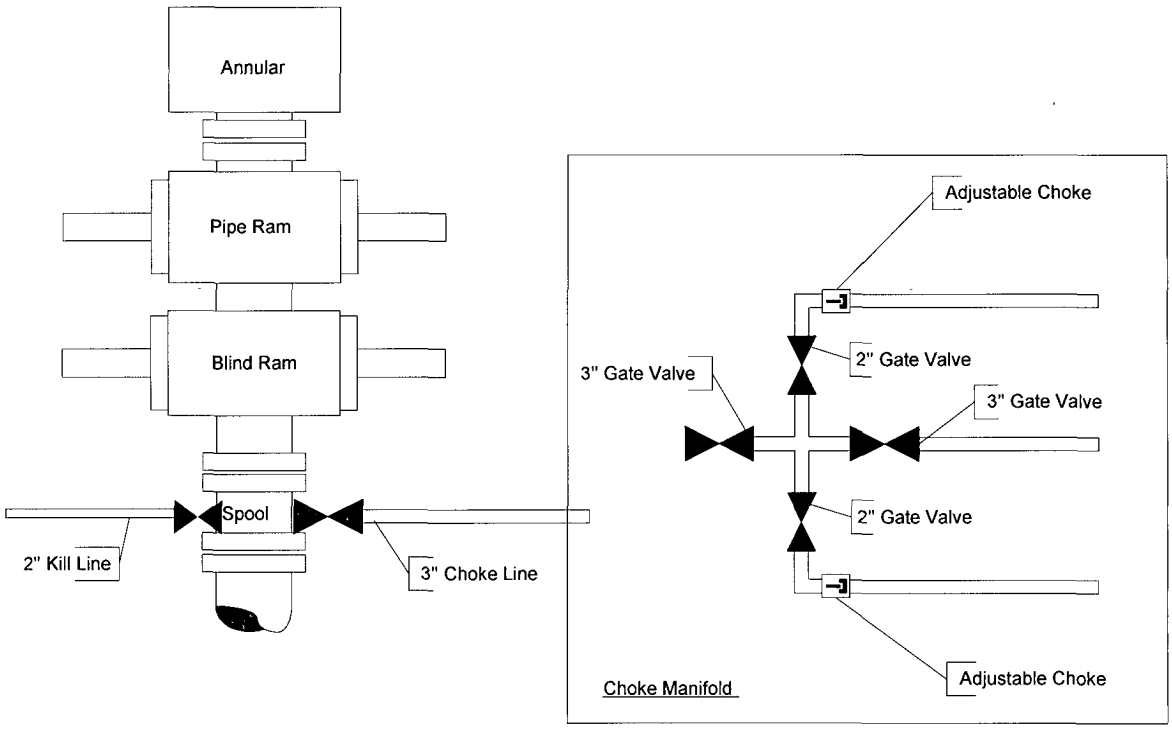
Lead Slurry	
Premium Plus	400 sx
CaCl	2%
Poly E Flake	0.125 lb/sx
Slurry Yield	1.35 cfs
Mix Water	6.3 gal/sx
Mix Water Source	Freshwater

Production:

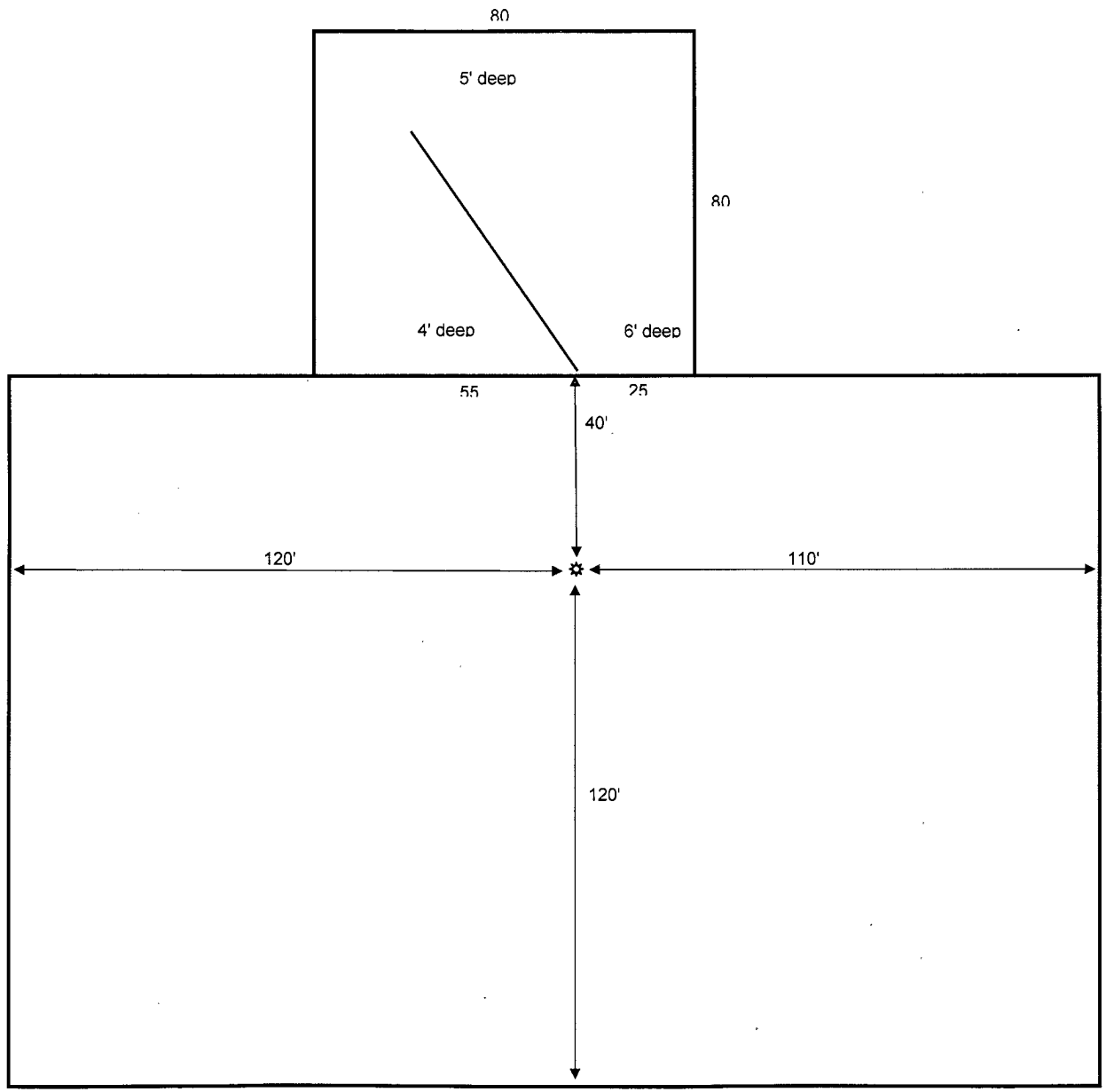
Cement Design							
Slurry	Weight (ppg)	TOC (feet)	BOC (feet)		Slurry Volume (Bbls)	Cement Required (sx.)	Comment
Lead	11.1	0	±1830		233	400	TOC to Surface
Tail	13.2	±1830	2600		50	150	TOC ±600' above Cimarron

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

9" BOP - 3000psi



Bravo Dome Unit
Location and Pit Design
Cheyenne Rig 8



Bravo Dome Unit
Cellar and Sump Pit
Cheyenne Rig 8