CONFIRM	PF06 PF12		PF05 PF11	PF04 GoTo IT PF10 TLOG	03 EXIT 09 COMME		ਸੰਸ਼ੇ	PF01 HELP PF07 PF07
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TOC (feet) Code 	· · ·	(Sacks)	Hole Size (inches)	Depth(ft) Bot-Liner	Depth(ft) Top-Liner	Weight (lb/ft)	Grade) 	S Size (inches)
: 2501	: 181 : (Feet)	Well No : 181 Lot Idn : D Depth (Feet)	4E L MVD	338 18 Twp : 22N Range Depth (Feet) : 250 5 P/A Date :	59 20 Sec : TVD 0-199	1	Identifier : Locn - UL : comp (S/M/C) : .e : .inear Record :	vell nce L ble c Date ng/Li
CGCMERS - IENI			م م	INC INC	11 BRAVO DOME C	стоз-менн : 1669 · 2711	Identifier Identifier	OGRID Iden
••	13/04		CASTNC LOC			ייז טע [–] אובע		CMD :

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M0025: Enter PF keys to scroll PF01 HELP PF02 PF03 EXIT PF04 GoTo PF07 PF08 PF09 PF10 NEXT-WC	18 22N 34E FTG 1961] 40.00 tion (Comm, Unit, Forced Pooling	ec Township Range North/Sou	API Well No : 30 59 20338 Eff Date : 01-01-2001 Pool Idn : 96010 BRAVO DOME CARBON DIOXIDE GAS OGRID Idn : 16696 OXY USA INC Prop Idn : 27111 BRAVO DOME CARBON DIOXIDE GAS	CMD : ONGARD OG6IWCM INQUIRE WELL COMPLETIONS	Page: 1 Document Name: untitled
To PF05 PF06 XT-WC PF11 HISTORY PF12 NXTREC	F N FTG - C/U/	East/West Prop/Act	2001 WC Status : A GAS 640 GAS UNIT	09/13/04 14:33:33 OGOMES -TPRT	

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2N 34E 40.00 2N 34E 40.00 PF keys to sc PF04 GoTo PF10 LAND	ARD CATE ACREAGE ate : 10-26-19 BON DIOXIDE GA RBON DIOXIDE G RBON DIOXIDE G : 640.00 p Rng Acreage
SCroll PF01 NXTS	5 640 S UNIT imultar evised L/W Ow
FE FE FE FE FE FE FE FE FE FE FE FE FE F	09/13/04 14:33:39 OGOMES -TPRT Page No : 1 Well No : 181 Well cation: C102? (Y/N) :

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PF01 HELP PF07 BKWD	CMD : OG6ACRE API Well No : Pool Idn : Spacing Unit : Sect/Twp/Rng : Dedicated Land:
PF02 PF08	
FWD	1 S - 1 2 30 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
PF03 PF09	C102-] 20338 E BRAVO DOME BRAVO DOME 34E Acrea 34E Acrea Se U/L Sec
3 EXIT 9	
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PF04 PF10	GARD ICATE A Date : RBON DI ARBON DI ARBON D : 64 : 64 : 64 : 64 : 64 : 64 : 7 2N 34E 2N 34E 2N 34E 2N 34E 2N 34E 2N 34E 2N 34E
l GoTo LAND	CREAGE 10-26-1 OXIDE 0.00 10XIDE Acreage 40.00 40.00 40.01 39.90 39.78
PF05 PF11	AS 640 GAS UNIT GAS UNIT Simulta Revised N U N N N N N N N N
NXTSEC	- 2 - 10 - 2 - 10 - 10 - 100 - 17 - 100 - 17 - 100 - 17 - 100
PF06 PF12	09/13/04 14:3 OGOMES - Page No : Well No : 02? (Y/N) : rship Lot Idn E E E E E E
	13/04 14: OGOMES Page No : Well No : edication (Y/N) p Lot Id
CONF I RM RECONF	09/13/04 14:33:42 OGOMES -TPRT Page No : 2 Well No : 181 S Dedication: 2? (Y/N) : ship Lot Idn
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RM	CONFIRM	PF06 PF12	NXTOGD	PF05 OOL PF11		scroll XIT PF04 PF10	keys to scr PF03 EXIT PF09	: Enter PF PF02 PF08 FWD	M0025 HELP BKWD	PF01 PF07
	1		 	 	· · ·	(Gas, Oil)	Period Total (Ga	Reporting Perio	Repo	
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	2004		.0 . 2003 To	GAS 64 om : 01	N DIOXIDE riod - Fr	USA INC DOME CARBON 8 Report Per	6 OXY 1 BRAVO 9 2033:	r : 166 : 9601 : 30	D Identif Identifi Well No	OGRID Pool API W
·TPR	/04 14:33:54 OGOMES -TPRT Page No: 1	09/13/04 14:33:54 OGOMES -TPRT Page No: 1	60	POOL/WELL	ву рос	ONGARD PRODUCTION BY	INQUIRE PROI	н	: PRD	CMD : OG6IPRD

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 CONFIRM	יסרס4 מטי יסטיטיטיטיטי י	/04 14:33:58 OGOMES -TPRT Page No: 2 08 2004

Date: 9/13/2004 Time: 02:34:42 PM

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	Q	PF06 PF12	NXTOGD	PF05 OOL PF11	GoT	scrolling. IT PF04 PF10	scro IT	ue EX		User may 02 08 FWD	רי די	E0049: HELP P BKWD P	PF01 HI PF07 BI
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			3 I I				י י די	 	Name -	n	י י ד		 Apt Well
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ω	Page No:	Pag				L					- -	ł ⊿ -	
:34:00 -TPRT	/04 14:3 OGOMES -	09/13/04 14:34:00 OGOMES -TPRT	60	POOL/WELL	ву рос	ONGARD PRODUCTION	ODUC		INQUIRE			0	CMD : OG6IPRD

Date: 9/13/2004 Time: 02:34:44 PM

Page:

Fee owned U 39.90 Fee owned U Fee owned U 2 40.02 Fee owned U 39.78 ب 40.14 Sec : ι. 18 Twp : 22N Rng : C 40.00 Fee owned U Fee owned U Fee owned U F 40.00 Fee owned U 40.00 K 40.00 Z 34E Section Type : NORMAL Fee owned U 40.00 Fee owned U ل 40.00 G 40.00 Fee owned U B 40.00 ⊳ Fee owned G Fee owned U Fee owned U 40.00 I 40.00 Fee owned U H 40.00 Fee owned U A 40.00 Ψ

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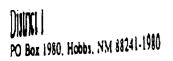
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District II PO Drawer DD. Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aziec, NM 87410 District IV PO Box 2088, Santa Fe, NH 87504-2088



OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-101 Revised February 21 1994

Instructions on back

Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

> AMENDED REPORT Г

APPLICA	TION	FOR PE				TER, DEE	PEN, PLUGE	BACK.		
					me and Address.			_	1	RID Number
		MOCO PR		ON COMP	ANY				000	778
		LAYTON,		EXICO	88415				30 - 0	ITI (NUBDEr
•	rty Code			·		Toperty Name			<u> </u>	· Well No.
000335						CDGU 2234	} 			181
		······································			⁷ Surface					
UL or lot no.	Section	Township	-	Lot Ida	Feet from the	North/South t		1	Nest line	County
G	18	22N	34E	Dense	1961'	NORTH	1979'		AST	UNION
UL or lot no.	Section	Township	Range	BOttom Lot ida	Feet from the	North/South I	erent From Su		West line	Coupty
BRAVO DO		•	ed Pool I	AS (640		1	" Prop	need Pool	2	<u>1</u>
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" Work 1 N	Type Code		' Well Type	e Code	¹³ Cable R	Rotary	" Lesse Type C	ode	" Groun	ed Level Elevation
	itiple		" Proposed 2470	Depth	" For TUBB	Batica	"Cestractor SITTON	r	JUL	Spud Date Y 1, 1995
			21	Pronose	d Casing a		Ргодгат		<u> </u>	·
Hole Si			ug Size		ig weight/foot	Setting De		of Cemen		Estimated TOC
12.250"		8.625"			T STEEL	700 FT		ACKS	S	URFACE
7.875"		5.50"		5.914	/FT FGLAS	5 2400 FT	. 270 S.	ACKS	S	URFACE
				15.50	#/FT STEE					
										······
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					ditional shoets if a		ea de presest produc		ana proposa	a new productive
MUD P	ROGRAM	0~700'	FRESH	WATER/	NATIVE MUI	נ				
	1001421			•	TER/STARCE					
BOP P	ROGRAM	I ATTACH	ED							
" I bereby cerufy		formation give	a above is u	rue and comp	icie to the best	OU	CONSERVA	TION	DIVISI	
of my knowledge Signature		Q_				proved by:	2910			
Printed name LINDA	<u>NAG</u>	Ta			Ti	Ue: DISTR	CT SUPER	VISC	<u>نې د او د ا</u>	
The		TRATIVE	ASSTS	TANT		DISIR	The SUPER			16/95
Date:			Phone:		c.	andstuona of Appro	NAL:			
JUNE	1, 199	5	713/3	66-4510) .	tached 0				

JUNE 1, 1995

District 1 PO Box 1980, Hobbs, NM 88241-1980 District II

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PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

		WE	ELL LOO	CATION	AND .	ACR	REAGE DEDIC	CATION	PLAT		
1,	API Numbe	: T		² Pool Cod 96010	1		BRAVO DOM		Name		45 (640)
4 Due	Cut- I				ł						
◆ Property 0003.						perty)GU	2234				Well Number 181
⁷ OGRID	No.				*Ope	rator	Name				⁹ Elevation
0007	78		<i>F</i>	MOCO	PRODU	UCT	ION COMPA	NY		4	929.80'
							Location				
UL or lot no. G	Section 18	Township 22N	Range 34E	Lot Idn.	Feet from 1961		North/South line	Feetfrom t 1979'		tline \ST	County UNION
			¹ Bott	om Hol			lf Different Fro				
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from		North/South line	Feet from t		t line	County
¹⁹ Dedicated Acro	s ¹⁵ Joint	or infill 14	Consolidation	a Code 15 C	rder No.						<u></u>
640			U								
NO ALLO	WABLE V						ON UNTIL ALL			EEN CO	DNSOLIDATED
16///	///X			XXXX	X///	 				CEDT	IFICATION
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				5760				Date	June	1, 199	
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<u> </u>								Date of S	'		
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						 		Certificate	Number 1	<u>A. FI:</u> 1013	
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	of New Mexico Natural Resources Department	Form C-103 1 Revised 1-1-89
P.O. Bax 1950, Hobby, NM 88240 P.C	VATION DIVISION D. Box 2088 w Mexico 87504-2088	WELL API NO. 30-059-20338 5. Indicate Type of Lease
DISTRICT III 1000 Rio Brazos Rd., Arec, NM 87410		6 Sale DJ & Gas Lease No.
SUNDRY NOTICES AND REPORTS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR DIFFERENT RESERVOIR, USE "APPLICATI (FORM C-101) FOR SUCH PROPO	TO DEEPEN OR PLUG BACK TO A -	7. Lease Name or Unit Agreement Name
1. Type of Well Ot Vill Vill *til 2. Name of Operator Amoco Production Company 3. Address of Operator PO Box 606, Clayton, NM 88415		BDCDGU-2234 8. Well No. 181 9. Pool same or Wildca: Tubb
4. Well Location Unit Letter: <u>1961</u> Fort From The <u>NO</u>	rth Lize and197	19 Feet From The East Lize
	Show whether DF, RKB, RT, GR, 42.) 929, 80 GR 9 Indicate Nature of Notice, F SUE DON REMEDIAL WORK COMMENCE DRILLIN CASING TEST AND C OTHER:	BSEQUENT REPORT OF:
 2234-181G 1. MIRURT 9/20/95 2. Drill 12.25"hole to 710". 3. Run 8.625 K55 24# ST&C casing. CSA 710". 4. Cement with 375 sacks of Class C cement and additives. 5. Circulate 71 sacks to pit. 6. WOC. 7. Test casing and BOP to 500 psi. OK 	 8. Drill 7.875" hole from 7 9. Run 7 joints of 5.5" K55 and 76 joints of 5.5" 2000 j casing. 10. CSA 2501'. Cement wi C and additives. Circulate 211. RD MORT 9/22/95 12. Wait on completion uni 	10'-2501'. Run Logs. 15.50# ST&C casing psi Star fiberglass th 300 sacks of Class 27 sacks to pit
I horsty costly and the leforage store is the cost of the lot to be a second pile to b	ny howredge and baind. mus Field Fore	
(The ITHE OF SLEE UN) REPERTURN		SUPERVISOR DATE 9-28-95

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Submit to Appropriate District Office		Energy	-	State of New s and Natura			ranen	t					C-105 mi 1-1-89
State Lease - 6 copies Fee Lease - 5 copies DISTRICT I	NR. 88740	OIL	CONS	ERVAT		DIVISI	ION	I WI	11 APIN 30-	ю. -0.59-2	2033	8	
P.O. Box 1980, Hobbs, DISTRICT II			Santa Fe,	P.O. Box New Mex		04-2088		5.		Type of Lea			FEE
P.O. Drawer DD, Artes	10, NM 88210						· ·	6	State Oil	& Gas Lea	ae No.		
DISTRICT III 1000 Rio Brazos Rd. /	Aziec, NM 87410	-									m	m	m
WELL	COMPLETION	OR RE	COMPLE	TION REP	PORT AN	VD LOG							
In Type of Well: OIL WELL	GAS WELL		DRY	OTHER	<u>CO2</u>	<u> </u>			Lesse Nu	nne or Unit	Agreel		
b. Type of Completion NEW WORK WELL X OVER					HEA					DGU-22	2 <u>34</u>		
2. Name of Operator								8	Well No.	181	1		_
Amoco	Production	n_Cor	npany_			الاستينين بباطر			Pool pat	ns or Wilde		_ .	
•	<u>606. Cla</u>	uton	NIAL R	8/15					Շոթթ				
4. Well Location		yton											
Unit Letter	<u>G</u> : <u>196</u>	1 Feet	From The	<u>North</u>		Line and	1	979	Fee	t Frons The	E	Cast	
	10	_			_								-
Section	18		mathip 22		Razge	34E		NM		nion	1		<u>Ca</u>
10. Date Spudded	11. Date T.D. Read		-	iocopi. (Ready i 10/0/07	•	II E		•	<i>RKB. KT.</i> 0 GR	GR, ssc.)	114		Casinghead
9/20/95 15. Total Depth	9/22/9			10/9/95 17. lf Multiple			18. Inte	in an	Roury To			492 bla To	
2501'		484		17. If Multiple Many Zon	1967		Dri	lied By		 מיד כ	i		
19. Producing Interval(}							Directio	onal Su	rvey Made
2200' 1	to 2449',	Tubb									No		_
21. Type Electric and O	ther Logs Run	Dua	1 7 2 + 0	rolog					22. Was	Well Cared			
		Jud	l Late									-	
A4											N	0	
23		CA		ECORD	(Report	all strin	igs so	t in w	cll)		N		- <u></u>
CASING SIZE			SING R			all string	igs se			RECORD			OUNT PI
CASING SIZE 8,625	24#	B <i>/</i> FT.	SING R DEPI	ECORD	HOL 12.25	ESTZE	3	СЕМ 75 - 5	ENTING	Lass C)		OUNT PI
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CASING SIZE 8,625	24#	B <i>I</i> FT. 5_9	SING R DEPI	ECORD TH SET	HOL 12.25	ESTZE	3	СЕМ 75 - 5	ENTING ks Cl ks Cl	Lass C	2	AM 71 27	
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CASING SIZE 8.625 5.5 24 24 24 24 24 24 24 24 24 24 25 26 Perforation rec Perf 2200' Nole size (33	24# 15.5 & TOP cord (interval, siz to 2449",	LIN 6 s	SING R DEP1 210' 2501' 2501' ЕК RECO ЭТТОМ	ECORD IH SET	HOL 12_25 7_875 MENT 1 shot	E SIZE SCREEN 27. ACI DEPTH IN	D, SI	CEM 75 - 5 00 - 5 25. 10T, F	ENTING ks_CJ ks_CJ 1 SZZE RACTU	Lass C Lass C UBING I DE DE RE CEM	RECC PTH SI	AM 71 27 DRD ET	PACKI JEEZE, J ERIAL US
CASING SIZE 8,625 5.5 24 24 24 24 25 26 Perforation rec Perf 2200' Nole size (28 28 Data First Production	24# 15.5 & TOP cord (interval, siz to 2449",	BAFT. 5.9 LIN BC e, and s 6 S	SING R DEPI 210' 2501' 2501' ER RECO 7TTOM PT, 57	ECORD TH SET	HOL 12 25 7 875 MENT 1 shot CTION % pumping	E SIZE SCREEN 27. ACI DEPTH IN	D, SI	CEM 75 - 5 00 - 5 25. 10T, F	ENTING ks_CJ ks_CJ 1 SZZE RACTU	Lass C Lass C UBING I DE DE RE CEM	RECC PTH SI	AM 71 27 DRD ET	_PACKI
CASING SIZE 8.625 5.5 24. 24. SIZE 26. Perforation rec Perf 2200' Nole size (73. Data First Production 10/13/95	24# 15.5 & TOP cord (interval, siz to 2449", 0.52.	BAFT. 5.9 LIN BC e, and s 6 S Production F1	SING R DEP1 210' 2501' 2501' ER RECO 7TTOM ER RECO 7TTOM pf, 57	ECORD TH SET	HOL 12 25 7 875 MENT 1 shct CTION 7 parping tube	E STZE SCREEN 27. ACT DEPTH D Screen and r	D, SJ	CEM 75 s 00 s 25. HOT, F VAL	ENTING ks CJ ks CJ T SZZE RACTU AMK	UBING I DE DE CUBING I DE DE Vel Well	RECC PTH SI TENT Status	AM 71 27 DRD ET SQL MAT	PACKI JEEZE, J ERIAL US
CASING SIZE 8,625 5.5 24. 24. SIZE 26. Perforation rec Perf 2200' Nole size (78 Data First Production 10/13/95 Data of Test	24# 15.5.& TOP TOP cord (interval, siz to 2449", 0.52. Hours Tested	BAFT. 5.9 LIN BC e, and s 6 S Production F1	SING R DEPI 210' 2501' 2501' ER RECO 7TTOM PT, 57	ECORD TH SET	HOL 12 25 7 875 MENT 1 shot CTION M. pumping tube out	E SIZE SCREEN 27. ACI DEPTH IN	D, SJ	CEM 75 5 00 8 25. 10T, F VAL		UBING I UBING I DEI RE. CEM	RECC PTH SI TENT Status	AM 71 27 DRD ET SQL MAT	PACKI JEEZE, J ERIAL US
CASING SIZE 8.625 5.5 24. 24. SIZE 26. Perforation rec Perf 2200' Nole size (73. Data First Production 10/13/95	24# 15.5.& TOP TOP cord (interval, siz to 2449", 0.52. Hourn Tested 24hrs Casing Pressure	BAFT. 5.9 LIN BC e, and a 6 S Production F1	SING R DEPI 210' 2501' 2501' ER RECO 7TTOM ER RECO 7TTOM pf, 57 of , 57	ECORD TH SET TH SET TH SET TH SET TH SET TOTAL PRODUCTION Production	HOL 12 25 7 875 7 875 25 7 875 7 875	E STZE SCREEN 27. ACI DEPTH IN - Size and 1 I - Bbl. Gas - MCI	ID, SI NITERV G	CEM 75 5 00 5 225. HOT, F VAL		UBING I UBING I DEI RE, CEM DUNT AND Well Water - Bi	PTH SI RECC PTH SI KIND KIND Status	AM 71 27 DRD ET , SQU DMAT	PACKI JEEZE, J ERIAL US
CASING SIZE 8.625 5.5 24. 24. SIZE 26. Perforation rec Perf 2200' Hole size (28. Data First Production 10/13/95 Data of Test 10/9/95	24# 15.5.& TOP TOP cord (interval, siz to 2449', 0.52. Hours Tested 24hrs Csaing Pressure 28#	B /FT. 5.9 LIN BC c, and 1 6 S Production F1	SING R DEPI 210' 2501' 2501' 2501' ER RECO 7TTOM ER RECO 7TTOM DITOM DITOM DITOM DITOM DITOM DITOM	ECORD TH SET TH SET TH SET TH SET TH SET TOTAL PRODUCTION Production	HOL 12 25 7 875 7 875 25 7 875 7 875	E STZE SCREEN 27. ACI DEPTH IN - Size and 1 I - Bbl. Gas - MCI	D, SI	CEM 75 5 00 5 225. HOT, F VAL	ENTING ks Cl ks Cl T SZE RACTU AMC F 0 r - BbL	UBING I UBING I DEI RE, CEM DUNT AND Well Water - Bi	RECC PTH SI MENT KIND KIND	AM 71 27 DRD ET , SQU DMAT	PACKI JEEZE, J ERIAL US or Shad-in, Gas - Oil
CASING SIZE 8.625 5.5 24 24 24 24 25 26 Perforation rec Perf 2200' Hole size (23 Date First Production 10/13/95 Date of Test 10/9/95 Flow Tubing Press.	24# 15.5.& TOP TOP cord (interval, siz to 2449', 0.52. Hours Tested 24hrs Csaing Pressure 28#	B /FT. 5.9 LIN BC c, and 1 6 S Production F1	SING R DEPI 210' 2501' 2501' 2501' ER RECO 7TTOM ER RECO 7TTOM DITOM DITOM DITOM DITOM DITOM DITOM	ECORD TH SET TH SET TH SET TH SET TH SET TOTAL PRODUCTION Production	HOL 12 25 7 875 7 875 25 7 875 7 875	E STZE SCREEN 27. ACI DEPTH IN - Size and 1 I - Bbl. Gas - MCI	ID, SI NITERV G	CEM 75 5 00 5 225. HOT, F VAL	ENTING ks Cl ks Cl T SZE RACTU AMC F 0 r - BbL	UBING I DEI DEI RE CEM DUNT AND Water - BI	RECC PTH SI AENT Status Status By	AM 7.1 27 DRD ET , SQL DMAT	PACKI JEEZE, J ERIAL US or Shut in Gas - Oil - (Corr.)
CASING SIZE 8,625 5,5 24. 24. 24. 25. 26. Perforation rec Perf 2200' Hole size (23. Data First Production 10/13/95 Data of Test 10/9/95 Flow Tubing Press. 29. Disposition of Gas (24# 15.5.& TOP TOP cord (interval, siz to 2449", 0.52. Hours Tested 24hrs Casing Pressure 28# Sold, used for fuel. w	B /FT. 5.9 LIN BC c, and 1 6 S Production F1 C F1 C F1 C F1 C F1 C F1 C F1 C F1 C F1 C C F1 C C C C C C C C C C C C C	SING R DEPI 2501 2501 2501 ER RECO 7TTOM ER RECO 7TTOM pf, 57 pf, 57 on Method (// Olaring = Doba Size 2" alculated 24 four Rate	ECORD TH SET TH SET PRODU Protection Pitot Prote Period Pitot Out Bbl	HOL 12 25 7 875 7 875 25 7 875 7 875	E STZE SCREEN 27. ACI DEPTH IN - Size and 1 I - Bbl. Gas - MCI	ID, SI NITERV G	CEM 75 5 00 5 225. HOT, F VAL	ENTING ks Cl ks Cl T SZE RACTU AMC F 0 r - BbL	UBING I UBING I DEI RE. CEM DUNT AND Well Water - BI	RECC PTH SI AENT Status Status By	AM 7.1 27 DRD ET , SQL DMAT	PACKI JEEZE, J ERIAL US or Shut in Gas - Oil - (Corr.)
CASING SIZE 8,625 5,5 24. 24. 24. 25. 26. Perforation rec Perf 2200' Hole size (78. Data First Production 10/13/95 Data of Test 10/9/95 Flow Tubing Press. 29. Disposition of Gas (Vented 30. List Attactments	24# 15.5.6 TOP TOP cord (interval, siz to 2449", 0.52. Hours Tested 24hrs Casing Pressure 28# Sold, used for fuel. w Logs mail	B /FT. 5.9 LIN BC c, and 1 6 s Production F1 C C F1 C C E Production C C C C C C C C C C C C C	SING R DEPI 2501' 2501' 2501' ER RECO 7TTOM ER RECO 7TTOM pf, 57 on Method (/ Olar Ing- Data Size 2'' alculated 24 four Rate	ECORD TH SET TH SET	HOL 12.25 7.875 MENT 1 shot 1 shot CTION MENT 1 shot	E STZE SCREEN 27. ACI DEPTH IN - Size and I - Bbl. Gas - MCI 4 1	3 3 3 10, SI NTER NTER 90	CEM 75 5 00 s 25. 10T, F VAL		UBING I UBING I DEI RE CEM DUNT AND Well Water - Bi Water - Bi Oil 0 Witcoused I Bill	RECC PTH SI MENT D KIND CENT Status Status By Pri	AM 7.1 27 DRD ET SQL MAT	PACKI JEEZE, J ERIAL US or Shut in Gas - Oil - (Corr.)
CASING SIZE 8.625 5.5 24. 24. SIZE 26. Perforation rec Perf 2200' Hole size (28. Data First Production 10/13/95 Data of Test 10/9/95 Flow Tubing Press. 29. Disposition of Cas (vented 30. List Attactments 31. / hereby certify the	24# 15.5.6 TOP TOP cord (interval, siz to 2449", 0.52. Hours Tested 24hrs Casing Pressure 28# Sold, used for fuel. w Logs mail	B /FT. 5_9 LIN BC e, and s 6 S Production F1 C C F content of the second se	SING R DEPI 210' 2501' 2501' 2501' ER RECO 7TTOM ER RECO 7TTOM Pf, 57 on Method (P Ota' ng Dobe Size 2" alculated 24 four Rate 1 Previou m boch side	ECORD TH SET TH SET	HOL 12.25 7.875 MENT 1 shot 1 shot CTION MENT 1 shot	E STZE SCREEN 27. ACI DEPTH IN - Size and I - Size and I - Bbl. Gas - MCI 4 1	3 3 3 10, SI NTER NTER 90	CEM 75 5 00 s 25. 10T, F VAL		UBING I UBING I DEI RE CEM DUNT AND Well Water - Bi Water - Bi Oil 0 Witcoused I Bill	RECC PTH SI MENT D KIND CENT Status Status By Pri	AM 7.1 27 DRD ET SQL MAT	PACKI JEEZE, J ERIAL US or Shut in Gas - Oil - (Corr.)

INCLINATION REPORT

OPERATOR	AMOCO RPODUCTION COMPANY CO.	ADDRES	S P. O	. BOX 2000 LEVE	ELLAND, TX. 79336	
LEASE NAME		WELL NO.	2234-	FIELD		
	BDCDGU	••••	181-G			
LOCATION						

DEPTH	ANGLE INCLINATION DEGREES	DISPLACEMENT	DISPLACEMENT ACCUMULATED
460	.50	4.03	4.03
676	.75	2.85	6.88
1167	.75	6.48	13.36
1666	.75	6.59	19.94
2254	1.00	10.29	30.23
2501	1.25	5.40	35.63

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.

SITTON DRILLING COMP Title_ PRESIDENT

AFFIDAVIT:

Before me, the undersigned authority, appeared <u>Ronald Sitton</u> known to me to be the person whose name is subscribed herebelow, who, on making deposition, under oath states that he is acting for and in behalf of the operator of the well identified above, and that to the best of his knowledge and belief such well was not intentionally deviated from the true vertical whatsoever.

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Sworn and subscribed to in my presence on this the _

AFFIAN SIGNATURE day of 19<u>95</u>.

Notary Public in and for the County of Lubbock, State of Texas

SEAL

Amoco Production Company PO Box 606 Clayton, New Mexico 88415

NOTICE OF GAS CONNECTION

This is to notify the Oil Conservation Division that connection for the transportation of gas from Amoco Production's Bravo Dome Carbon Dioxide Gas Unit Well No. 2234-181G, Meter Station No. 632377, Located in Unit letter G, Section 18 Township 22 North, Range 34 East, Union County, New Mexico, Bravo Dome 640 acre spacing area was made on 10/13/95 by Amoco Production Company.

First delivery date: 10/13/95.

Amoco Production Company

Representive Billy E. Fruchen

Title: Field Foreman

2816193

- Submit 3 Copies to Appropriate District Office		New Mexico Itural Resources Department	Form C+103 Revised 1-1-8
DISTRICT		ATION DIVISION	WELL API NO.
P.O. BOX 1960, HODD & NM 88240		30x 2088 Jexico 87504-2088	30-059-20338
P.O. Drawer DD, Artesia, NM 88210	· · ·		S. Indicate Type of Lease STATE F
DISTRICT III 1000 Ro Brizor Rd., Azec, NM 87410			6 Sale OI & Gas Lease No.
(DO NOT USE THIS FORM FOR PRO DIFFERENT RESE (FORM C	ICES AND REPORTS O PROSALS TO DRILL OR TO RVOR. USE "APPLICATION -101) FOR SUCH PROPOSA	DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
L. Type of Well: OL GAS WELL WELL	OTHER	CO2	BDCDCU 2224
2. Name of Operator			BDCDGU-2234 8. Well No.
Amoco Production (3. Address of Operator	ompany	<u> </u>	9. Pool same or Wildcas
PO Box 606, Clayto	on, NM 88415	·····	Tubb
	1_ Foot From The Nort	h Line and9	79 Feet From The East
Socion 18	Township 22N	Range 34 F	NMPM Union
	10. Elevation (Sho	Range 34 F. w whether DF, RKB, RT, GR, ecc 1	
ii. Check		9.80 GR dicate Nature of Notice, J	Report, or Other Data
	••••		-
NOTICE OF IN	TENTION TO:	SU	BSEQUENT REPORT OF:
m	PLUG AND ABANDO		BSEQUENT REPORT OF:
	PLUG AND ABANDO		ALTERING CASING
PERFORM REMEDIAL WORK	PLUG AND ABANDO	REMEDIAL WORK	ALTERING CASING NG OPNS. PLUG AND ABANDON CEMENT JOB
PERFORM REMEDIAL WORK	PLUG AND ABANDOR CHANGE PLANS 2000 (Clearly state all pertinen 4° x spot perf 70 Total shots.	REMEDIAL WORK	ALTERING CASING
PERFORM REMEDIAL WORK	PLUG AND ABANDON CHANGE PLANS	REMEDIAL WORK	ALTERING CASING NG OPNS. PLUG AND ABANDON CEMENT JOB pletion Unders entimated date of starting any proposed

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istrict I O Box 1980, Hobbs, NM 88241-1980 istrict II	Ez	Stat Stat	e of New als & Natural	Mexi Resource	CO Departus	icat			Revi		Form C-10 ebruary 21, 199 aructions on bac
O Drawer DD, Artesia, NM 88211-075 istrict III			ERVATI PO Box	2088		ON	Sul	omit to	о Аррі		ite District Offic 5 Copie
000 Rio Brazos Kd., Aztec, NM 87410 fistrict IV		Santa	Fe, NM 8	37504-	2088			AMENDED REPORT			
O Box 2088 Santa Fe NM 87504-208	s ST FOR AL	LOWAI	BLE ANI	D AU1	THOR	IZATI	ON TO T	۲RAI	NSPO	ORT	
· _ · · · · · · · · · · · · · · · · · ·	Operator name	and Addre		· · · · · · · · · · · · · · · · · · ·				¹ OGRID Number			
Amoco Productio PO Box 606	n Compan	Y					0007	_	aon lor	Filing	Cude
Clayton, NM 884	15										3
* API Number				ol Name							'uol Code
30 - 0 59-20338 ' Property Code	BRAVO DI	OME CA		ICXII zerty Nam		AS (6	40)		9	<u>601</u>	0 ell Number
335	BDCDGU	- 22	34						18		
I. ¹⁰ Surface Locatic	the second second second second second second second second second second second second second second second se			······							
Ul or lot no. Section Township		Lot.len	Feet from t				Feet from the		axi/Was	t line	County
G 18 22N ¹¹ Bottom Hole L	<u>34E</u>		1961	<u> </u>	North	<u> </u>	1979	<u>Ea</u>	ist]	<u>Union</u>
UL or lot no. Section Townshi		Lot Idu	Feet from	the	North/S	outh line	Feet from th	e F.	ast/Wes	i linc	County
G 18 22N	34E	onaction D	1961	29 Permit	Nort		1979		East		Union 129 Expiration Date
" Lae Code " Producing Method P E		0/13/9		-> • • • • • • • • •	, tudiocr		C-127 Effect	*C 1741C		ς.	192 CYLINCHIOD Date
II. Oil and Gas Transpo	orters		·						L-		
Transporter OGRID	" Transporter N and Address	вше		" POD)	" 0/C		* 1°C	DD ULS and De		
	roductio	n Co.	28	761	93	G					
РО Бох	606								·		······································
· .											<u>, , , , , , , , , , , , , , , , , , , </u>
V. Produced Water							1				
doy ^e			14	POD UL	STR Luci	ation and	Description				
7. Well Completion Da	ita										
" Spud Date	" Ready Da	l¢		" TD			TTHY "				" Perforations
9/20/95 * Hole Size	<u>10/9/95</u> *c	asing & Tub	2501 ing Size			" Depth S	2484 a	-1	22	_	-2449 '
12.25	8.625			71	0'				375		······································
7.875	5,5			250	1.				300		
VI. Well Test Data						<u> </u>					
	o Delivery Date		Test Date	1	" Toi L	ength	" Tb	g. Press	vre	Ţ	" Cag. Pressure
	13/95	10/1/	The local division of the local division of		24 hi						28#
" Choke Size	4 OI		Waler		"с. 4190	43	1	4 AOF			⁴⁰ Test Method
" I hereby certify that the rules of the (190 		<u> </u>	F
with and that the infomiation given abo knowledge and belief. Signature:	and belief. Billy E- Fructure Approved by: Hy Conservation DIVISION										
Printed name: Billy E F											
Tiut: Field For		·		Approva	_	1012	16/95	-			
Date: 10/17/95	Inone: 37	4-305	3			 					
4 If this is a change of operator fill i	a the OGRID aug	iper and uni	uc of the previ	ous opera	lar						
Previous Operator S					d Name	~~ <u>~</u> ~~			Tiu		Dute

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INCLINATION REPORT

OPERATOR	AMOCO RPODUCTION COMPA	NY	ADDRES	SS P. C). BOX 2000 LEVELLAND, TX. 79336	
LEASE NAME			- WELL NO.	2234-	FIELD	
	BDCDGU		•	181-G		
LOCATION						

DEPTH	ANGLE INCLINATION DEGREES	DISPLACEMENT	DISPLACEMENT ACCUMULATED
460	.50	4.03	4.03
676	.75	2.85	6.88
1167	.75	6.48	13.36
1666	.75	6.59	19.94
2254	1.00	10.29	30.23
2501	1.25	5.40	35.63

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.

TON DRILLING COMPA Title PRESIDENT

AFFIDAVIT:

Before me, the undersigned authority, appeared <u>Ronald Sitton</u> known to me to be the person whose name is subscribed herebelow, who, on making deposition, under oath states that he is acting for and in behalf of the operator of the well identified above, and that to the best of his knowledge and belief such well was not intentionally deviated from the true vertical whatsoever.

AFFIANT SIGNATURE コウ Sworn and subscribed to in my presence on this the day of 19<u>95</u>.

Notary Public in and for the County of Lubbock, State of Texas

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD. Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aziec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Netural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-101 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

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

							_				· · · · · · · · · · · · · · · · · · ·
		NOCO PR			me and Address.					000	RID Number
		0.80		JN COMP	ANI						PI Number
]	-	LAYTON,		FYTCO	88415						
		LATION,	NEW M					<u> </u>		30 - 09	7-20338
	erty Code				i p	roperty Name					• Well No.
000335			-		BE	CDGU 223	4				181
					⁷ Surface	Location				· · · · ·	
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South	line	Feet from the	East/V	Vent line	County
G	18	22N	34E		1961'	NORTH		1979'	EA	ST	UNION
		^s Pr	oposed	Bottom	Hole Locat	ion If Diff	erer	nt From Sur	face	- *	····
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South	lioc	Feet from the	East/V	Vest line	County
1	1								1		
	<u></u>	' Propos	ed Pool 1		·			" Propo	ed Pool	2	<u></u>
BRAVO DO	ME CAR	BON DIO	XIDE G	AS (640)						
							r				
	Type Code	1	' Well Typ	e Code	" Cabie	/Rolary		" Lease Type Co	de	" Group	d Level Elevation
N			C		R			P			
" Ma NO	ltiple	'	2470	Depth	" For TUBB	atioa		"Centrector SITTON		ש התודר.	Sped Date Y 1, 1995
					1025						
	-		21	Propos	ed Casing a	nd Cement	Pri	ogram –			
Elole Si			e Size		sg weight/fool	Setting D	epub		(Cement		Estimated TOC
12.250"		8.625"		24#/E	T STEEL	700 FT	•	450 SA	CKS	S	URFACE
7.875"		5.50"		5.91	/FT FGLAS	5 2400 FT	•	270 SA	CKS	S	URFACE
				15.50	#/FT STEE	, , ,					
		<u></u>							_		
" Describe the	proposed pr	ogram. If the	is applicati	a is to DEE	PEN or PLUG BA	CK give the data	1 02 1	e present producti		ad propose	a new productive
					ditional sheets if a						• • • • • • • • • • • • • • • • • • • •
		0 7001				_					
HUD P	ROGRAM				NATIVE MU						
1		/00 -2	400 F	KE2H WA	ALER/SIARC	I/GEL					
BOPP	ROCRAM	ATTACH	FD								
501 1	KOGIUUI	. ALLAON	20								
²³ I bereby certify of my knowledge		ormation give	a above is t	rue and comp	icte to the best	O	1-0	ONSERVA	TION	DIVISI	ON
Signature	?	C.	h			oproved by	\neq	310-			·
Printed name: LINDA		1 m				"DISTR	74	SUPERI	NSC	1	
Tiste.				<u> </u>		DEJITA	7	······································	Expinuo		tu lai
SR. A	DHINIS	TRATIVE	· · · · · · · · · · · · · · · · · · ·	TANI		6	//4	.195		6	16/96
	1, 199	5	Phone: 713/3	66-451	11	nditions of Appr itsched	OAN :				

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719

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PO Drawer DD, Artesta, NM 88211-0/19

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

		W	ELL LOO	CATION	AND AC	REAGE DEDI	CATION PI	LAT		
1 /	API Numb	er		² Pool Code 96010 BRAVO DOME CARBON DIOXIDE GAS (64)						
				96010		BRAVO DOM	E CARBON	DIOXI	DE GA	S (640)
+ Property	Code				*Propert				6	Well Number
0003.	35			BDCDGU 2234 181						
⁷ OGRID					⁸ Operato					⁹ Elevation
00077	78		<i>F</i>	MOCO	PRODUC	TION COMP	ANY		4:	929.80'
					¹⁰ Surface	Location				
UL or lot no.	Section	Townshi		Lot Idn.	Feet from the	North/South line	Feet from the	EastWest		County
G	18	22N			1961'	NORTH	1979'	EA	ST	UNION
			¹¹ Bott	om Hol	e Location	If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	EastWest	line	County
Dedicated Acre	as 15 Joint	or infill	¹⁴ Consolidation	Code ¹⁵ C	rder No.					
640			U							
NO ALLOV	NABLE 1					ION UNTIL ALL SEEN APPROVED			EN CO	NSOLIDATED
16////	1// 1									
							70			IFICATION
V,	1						ZH '	•		contained herein is knowledge and belief.
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F	I			-			-Aine	la V	tt	Le la
1	i i						Signature	LINDA	OAT	ES
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	1			Well N	• 	1979'		ministr	ative	Assistant
				AMO	CO		Title	June	1 199	5
	1			5760	000		Date		.,	<u> </u>
K						<u> </u>	18 CTIDY	FVOD	CEDT	IFICATION
							·			bown on this plat
							was plotted fro	om field nou	es of actual	surveys made by
1							and correct to	· •	•	the same is true
							.11	bruary	•	1995
1	1						Date of Surve			
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District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Azee, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088 Form C-101 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

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

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District I PO Box 1980, Hobbs, NM 88241–1980 District II PO Drawer DD, Artesia, NM 88211–0719

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District 111 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor Joanna Prukop Cabinet Secretary

August 12, 2004

Mark E. Fesmire, P.E. Director Oil Conservation Division

OXY USA, Inc. P. O. Box 50250 Midland, Texas 79710-0250

Attention:

David Stewart david stewart@oxy.com

Administrative Order NSL-5096

Dear Mr. Stewart:

Reference is made to the following: (i) your initial application submitted to the New Mexico Oil Conservation Division ("Division") on June 1, 2004 (administrative application reference No. pSEM0-415530509); (ii) the Division's initial response by letter dated June 23, 2004 from Mr. Michael E. Stogner's, Engineer/Hearing Officer in Santa Fe, requesting additional information to complete your application; (iii) Mr. Richard E. Foppiano's response on your behalf by letter dated July 8, 2004 with attachments; (iv) Mr. Foppiano's e-mail correspondence of Monday, July 12, 2004; (v) Mr. Stogner's reply to Mr. Foppiano by e-mail on Tuesday morning, July 13, 2004; (vi) Mr. Alan J. Schwartz's e-mail letter to Mr. Roy Johnson, Supervisor District IV - Santa Fe, concerning this matter dated July 14, 2004; (vii) Mr. Schwartz's e-mail correspondence to Mr. Johnson on Monday, July 19, 2004; (viii) Mr. Stogner's telephone conversation with Mr. J. E. Gallegos on Thursday, July 29, 2004; (ix) Mr. J. E. Gallegos's telefax letter, on behalf of Poole Leasing Inc. and Poole Chemical Inc., of objection to Mr. Stogner on July 30, 2004; (x) your telefax and e-mail correspondence with Messrs. Stogner and Johnson on August 2 and 3, 2004 addressing Mr. Gallegos's concerns; (xi) Mr. Danny Holcomb's e-mail correspondence with Mr. Johnson on Wednesday, August 4, 2004; (xii) Mr. Stogner's response to Mr. Gallegos by hand-written note on August 11, 2004; and (xiii) the records of the Division in Santa Fe, including the files in Division Cases No. 8190 and 11497 and Division Administrative Orders NSL-3966 (SD), as amended, NSL-3688 (SD), NSL-4762, and NSL-4873 (SD): all concerning OXY USA, Inc.'s ("OXY") request for:

(a) five (5) unorthodox "infill" Bravo Dome carbon dioxide gas (CO₂) well locations, all within existing standard 640-acre, more or less, gas spacing units for the Bravo Dome Carbon Dioxide (640-acre) Gas Pool (96010) within its Bravo Dome Carbon Dioxide Gas Unit (BDCDGU), Union and Harding Counties, New Mexico;

OXY USA, Inc. August 12, 2004 Page 2

> (b) three (3) "initial" Bravo Dome carbon dioxide gas (CO_2) wells, each well to be drilled at an unorthodox location on a proposed 640acre, more or less, gas spacing unit within the Bravo Dome Carbon Dioxide (640-acre) Gas Pool in Union County, New Mexico; and

> (c) two (2) "replacement" Bravo Dome carbon dioxide gas (CO_2) wells, each well to be drilled at an unorthodox location on a 640-acre, more or less, gas spacing unit within the Bravo Dome Carbon Dioxide (640-acre) Gas Pool in Union County, New Mexico.

All of Section 17, Township 21 North, Range 33 East, NMPM, Harding County, New Mexico, comprising 640 acres, which is currently dedicated to the BDCDGU "2133" Well No. 171 (API No. 30-021-20136), located at a standard CO₂ gas well location 1980 feet from the North and West lines (Unit F) of Section 17, is to be simultaneously dedicated to Well No. 171 and to OXY's proposed BDCDGU "2133" Well No. 172 (API No. 30-021-20333) to be drilled at an unorthodox infill CO₂ gas well location 1002 feet from the South line and 1650 feet from the East line (Unit O) of Section 17.

All of Section 21, Township 21 North, Range 33 East, NMPM, Harding County, New Mexico, comprising 640 acres, which is currently dedicated to the BDCDGU "2133" Well No. 211 (API No. 30-021-20269), located at a standard CO₂ gas well location 1926 feet from the North line and 2008 feet from the East line (Unit G) of Section 21, is to be simultaneously dedicated to Well No. 211 and to OXY's proposed BDCDGU "2133" Well No. 212 (API No. 30-021-20334) to be drilled at an unorthodox infill CO₂ gas well location 660 feet from the South line and 330 feet from the West line (Unit M) of Section 21.

All of Section 5, Township 22 North, Range 34 East, NMPM, Union County, New Mexico, comprising 634.56 acres, which is currently dedicated to the BDCDGU "2234" Well No. 51 (API No. 30-059-20259), located at a standard CO₂ gas well location 1650 feet from the South and East lines (Unit J) of Section 5, is to be simultaneously dedicated to Well No. 51 and to OXY's proposed BDCDGU "2234" Well No. 52 (API No. 30-059-20464) to be drilled at an unorthodox infill CO₂ gas well location 1650 feet from the North line and 330 feet from the West line (Unit E) of Section 5.

All of Section 6, Township 22 North, Range 34 East, NMPM, Union County, New Mexico, comprising 639.88 acres, which is currently dedicated to the BDCDGU "2234" Well No. 61 (API No. 30-059-20322), located at a standard CO₂ gas well location 2075 feet from the South line and 2031 feet from the West line (Unit K) of Section 6, is to be simultaneously dedicated to Well No. 61 and to OXY's <u>proposed</u> BDCDGU "2234" Well No. 62 (API No. 30-059-20452) to be drilled at an unorthodox infill CO₂ gas well location 990 feet from the North and West lines (Lot 4/Unit D) of Section 6.

OXY USA, Inc. August 12, 2004 Page 3

All of Section 7, Township 22 North, Range 34 East, NMPM, Union County, New Mexico, comprising 641.00 acres, which is currently dedicated to the BDCDGU "2234" Well No. 71 (API No. 30-059-20128), located at a standard CO₂ gas well location 1980 feet from the North and West lines (Unit F) of Section 7, is to be simultaneously dedicated to Well No. 71 and to OXY's proposed BDCDGU "2234" Well No. 72 (API No. 30-059-20453) to be drilled at an unorthodox infill CO₂ gas well location 2310 feet from the North line and 990 feet from the East line (Unit H) of Section 7.

All of Section 2, Township 22 North, Range 33 East, NMPM, Union County, New Mexico, comprising 640.36 acres, is to be dedicated to OXY's <u>proposed</u> **BDCDGU "2233" Well No. 021** (**API No. 30-059-20462**) to be drilled as an initial well within this unit at an unorthodox CO_2 gas well location 762 feet from the North line and 2544 feet from the West lines (Lot 2/Unit C) of Section 2.

All of Section 26, Township 23 North, Range 33 East, NMPM, Union County, New Mexico, comprising 640 acres, is to be dedicated to OXY's <u>proposed</u> **BDCDGU "2333" Well No. 261 (API No. 30-059-20456)** to be drilled as an initial well within this unit at an unorthodox CO₂ gas well location 660 feet from the North line and 330 feet from the East line (Unit A) of Section 26.

All of Section 30, Township 23 North, Range 34 East, NMPM, Union County, New Mexico, comprising 638.92 acres, is to be dedicated to OXY's proposed BDCDGU "2334" Well No. 301 (API No. 30-059-20458) to be drilled as an initial well within this unit at an unorthodox CO₂ gas well location 1650 feet from the South line and 660 feet from the West line (Lot 3/Unit L) of Section 30;

All of Section 25, Township 23 North, Range 33 East, NMPM, Union County, New Mexico, comprising 640 acres, is to be dedicated to OXY's <u>proposed</u> BDCDGU "2333" Well No. 252 (API No. 30-059-20455) to be drilled as a replacement well at an unorthodox CO₂ gas well location 504 feet from the South line and 1454 feet from the West line (Unit N) of Section 25; the Division's records indicate that the BDCDGU "2333" Well No. 251 (API No. 30-059-20127), drilled in 1981 by Amoco Production Company ("Amoco") at a standard CO₂ gas well location 1980 feet from the North and West lines (Unit F) of Section 25, never produced and was subsequently plugged and abandoned by Amoco in October, 1999.

All of Section 36, Township 23 North, Range 33 East, NMPM, Union County, New Mexico, comprising 640 acres, is to be dedicated to OXY's <u>proposed</u> **BDCDGU "2333" Well No. 362 (API** No. 30-059-20457) to be drilled as a replacement well at an unorthodox CO₂ gas well location 660 feet from the South line and 1980 feet from the West line (Unit N) of Section 36; the Division's records indicate that the **BDCDGU "2333" Well No. 361 (API No. 30-059-20033)**, drilled in 1979 by Amoco at a standard CO₂ gas well location 1980 feet from the South and East lines (Unit J) of Section 36, never produced and was also plugged and abandoned by Amoco in October, 1999.

Division Administrative Order NSL-5096

OXY USA,	Inc.
August 12,	2004
Page 4	

From the information provided by the applicant, the royalty interests in all of the affected offsetting acreage to the proposed unorthodox locations have either been notified by certified mail or have ratified the Bravo Dome Carbon Dioxide Gas Unit (BDCDGU) Agreement.

By authority granted me under the provisions of Rule 5 of the "Special Rules and Regulations for the Bravo dome 640-Acre Area," as promulgated by Division Order No. R-7556, dated June 19, 1984, as amended by Division Order No. R-7556-A, dated June 10, 1987, Decretory Paragraph No. (4) of Division Order No. R-10576, and Division Rule 104.F (2), the above-described BDCDGU "2133" Wells No. 172 and 212, BDCDGU "2233" Well No. 21, BDCDGU "2234" Well Nos. 52, 62, and 72, BDCDGU "2333" Well Nos. 252, 261, and 362, and BDCDGU "2334" Well No. 301, all to be drilled at unorthodox CO_2 gas well locations, are hereby approved.

Jurisdiction of this matter shall be further retained for the entry of any such subsequent orders, as the Division may deem necessary.

Sincerely,

5.7

Mark E. Fesmire, P. E. Director

MF/ms

cc: Roy Johnson, District Supervisor – NMOCD, Santa Fe New Mexico State Land Office - Santa Fe Danny J. Holcomb, Operations Manager (OXY USA, Inc.) - Amistad, New Mexico W. Thomas Kellahin, Legal Counsel for OXY USA, Inc. – Santa Fe Richard E. Foppiano, Regulatory Team Leader (OXY USA, Inc.) – Houston Alan J. Schwartz, Land Negotiator (OXY USA, Inc.) - Houston

STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11497 Order No. R-10576

APPLICATION OF AMOCO PRODUCTION COMPANY FOR FOURTEEN UNORTHODOX INFILL CARBON DIOXIDE GAS WELL LOCATIONS, UNION COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on March 21, 1996, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 1st day of April, 1996, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Amoco Production Company, seeks an exception to Rule No. (4) of the Special Rules and Regulations for the Bravo Dome 640-Acre Area as promulgated by Division Order No. R-7556, to allow the drilling of the following described fourteen carbon dioxide infill gas wells at unorthodox gas well locations, all located in Union County, New Mexico:

WELL NAME & NUMBER

BDCDGU 2135 Well No. 182 BDCDGU 2234 Well No. 232 BDCDGU 1835 Well No. 082 BDCDGU 2234 Well No. 262 BDCDGU 2134 Well No. 243 BDCDGU 2234 Well No. 223

WELL LOCATION

660' FNL & 660'FWL (D)-18-21N-35E 660' FSL & 660'FWL (M)-23-22N-34E 660' FSL & 1980'FWL (N)- 8-18N-35E 660' FSL & 560'FWL (M)-26-22N-34E 660' FSL & 660'FEL (P)-24-21N-34E 660' FNL & 385'FWL (D)-22-22N-34E



CASE NO. 11497 Order No. R-10576 Page -2-

1

BDCDGU 2234 Well No. 212 BDCDGU 2134 Well No. 132 BDCDGU 1835 Well No. 072 BDCDGU 2135 Well No. 183 BDCDGU 1835 Well No. 162 BDCDGU 1835 Well No. 163 BDCDGU 2234 Well No. 213 BDCDGU 2234 Well No. 172 660' FSL & 660'FWL(M)-21-22N-34E450' FSL & 450'FEL(P)-13-21N-34E1980' FSL & 1980'FWL(K)- 7-18N-35E660' FSL & 660'FEL(P)-18-21N-35E660' FSL & 660'FEL(P)-16-18N-35E660' FNL & 1980'FWL(C)-16-18N-35E560' FNL & 660'FWL(D)-21-22N-34E660' FNL & 660'FEL(A)-17-22N-34E

(3) The applicant further requests the establishment of an administrative procedure whereby additional infill wells proposed to be drilled at unorthodox locations based upon geologic and engineering considerations may be approved administratively by the Division.

(4) At the time of the hearing, it was determined that the BDCDGU 1835 Well No. 072 is located at a standard gas well location, and therefore, the unorthodox location request for this well should be <u>dismissed</u>.

(5) The subject wells are all located within the Amoco Production Company Bravo Dome Carbon Dioxide Gas Unit. In addition, the wells are located within the Bravo Dome 640-Acre Area as defined within Division Order No. R-7556, entered in Case No. 8190 on June 19, 1984.

(6) The Bravo Dome 640-Acre Area is currently governed by Special Rules and Regulations as contained within said Order No. R-7556 which require, in part, 640-acre standard gas spacing and proration units with wells to be located no closer than 1,650 feet from the outer boundary of the section nor closer than 330 feet from any quarter-quarter section line or subdivision inner boundary. The rules further allow the drilling of infill gas wells within a standard spacing unit (Rule No. (2)) provided that such wells are located no closer than 1,320 feet from any other well drilling to or capable of producing from the Bravo Dome 640-Acre Area.

(7) According to applicant's evidence and testimony, it has recently undertaken a study to determine the feasibility of infill drilling within the Bravo Dome 640-Acre Area. Initially, the applicant identified approximately 450 well locations which may be candidates for infill drilling. Utilizing the following described criteria, the applicant has identified the fourteen wells described in Finding No. (2) above as being the top candidates for infill drilling at this time: CASE NO. 11497 Order No. R-10576 Page -3-

- a) areas where infill drilling can maximize ultimate recovery;
- b) areas where infill drilling will result in wells with relatively high deliverabilities (2.5 + MMCFGD); and,
- c) minimize costs by locating wells near existing surface facilities.

(8) According to applicant's testimony, the proposed unorthodox locations for those wells located on its Leg 9 Gathering System, being the BDCDGU Well Nos. 2135-182, 2234-232, 2234-262, 2134-243, 2234-223, 2234-212, 2134-132, 2135-183, 2234-213, and 2234-172, are necessary due to engineering considerations (i.e. reservoir pressure, drainage, ultimate gas recovery, etc.).

(9) Applicant's evidence further indicates that the proposed unorthodox locations for those wells located on its Leg 6 and 7 Gathering System, being the BDCDGU Well Nos. 1835-082, 1835-072, 1835-162, and 1835-163, are based upon geologic as well as engineering considerations, namely the presence of a northwest to southeast trending fault which traverses each of the well's proration units.

(10) To aid in its determination of those areas within the Bravo Dome 640-Acre Area where infill drilling can maximize recovery, the applicant has built a field-wide computer simulation model which is composed of a reservoir model component and a surface facility model component.

(11) The evidence presented indicates that the applicant has obtained a good history match between the computer simulation and past production within the model area. This indicates that applicant's computer simulation should be capable of accurately predicting future field performance.

(12) The computer simulation was utilized by the applicant to select those infill well locations where incremental gas recovery would be maximized.

(13) The results of the reservoir simulation indicate that drilling the infill wells at the proposed unorthodox locations instead of standard well locations within the subject proration units should result in the recovery of an additional 13 BCF of carbon dioxide gas which would otherwise not be recovered, thereby preventing waste.

(14) All of the affected offset acreage is located within the Amoco Production Company Bravo Dome Carbon Dioxide Gas Unit. (15) The applicant testified that it has examined the affected offset acreage to determine whether or not there are royalty interest owners who have not ratified the Unit Agreement, and therefore may be affected by the proposed unorthodox locations. Applicant determined that there are such interest owners, however, applicant testified that it has historically been unsuccessful in locating these interest owners.

(16) No other offset operator and/or interest owner appeared at the hearing in opposition to the application.

(17) Approval of the subject application will afford the applicant the opportunity to recover additional gas reserves from each of the subject proration units which may otherwise not be recovered, thereby preventing waste, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells and will not violate correlative rights.

(18) Pursuant to Division Rule No. 104.F., which was recently amended by Division Order No. R-10533, future unorthodox gas well locations within the Bravo Dome 640-Acre Area based upon geologic or engineering considerations should qualify for administrative approval, provided however, that the supervisor of the Division's Santa Fe District Office should have the authority to require additional notice by the applicant to those offset interest owners deemed to be affected by any proposed unorthodox location.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Amoco Production Company, is hereby authorized to drill the following described thirteen infill carbon dioxide gas wells within the Bravo Dome 640-Acre Area at unorthodox gas well locations, all located in Union County, New Mexico:

WELL NAME & NUMBER

WELL LOCATION

BDCDGU 2135 Well No. 182 BDCDGU 2234 Well No. 232 BDCDGU 1835 Well No. 082 BDCDGU 2234 Well No. 262 BDCDGU 2134 Well No. 243 BDCDGU 2234 Well No. 223 BDCDGU 2234 Well No. 212 BDCDGU 2134 Well No. 132 BDCDGU 2135 Well No. 183 BDCDGU 1835 Well No. 162 BDCDGU 1835 Well No. 163

660' FNL & 660'FWL (D)-18-21N-35E 660' FSL & 660'FWL (M)-23-22N-34E 660' FSL & 1980'FWL (N)- 8-18N-35E 660' FSL & 560'FWL (M)-26-22N-34E 660' FSL & 660'FEL (P)-24-21N-34E (D)-22-22N-34E 660' FNL & 385'FWL 660' FSL & 660'FWL (M)-21-22N-34E 450' FSL & 450'FEL (P)-13-21N-34E 660' FSL & 660'FEL (P)-18-21N-35E 660' FSL & 660'FEL (P)-16-18N-35E 660' FNL & 1980'FWL (C)-16-18N-35E

CASE NO. 11497 Order No. R-10576 Page -5-

BDCDGU 2234 Well No. 213 BDCDGU 2234 Well No. 172

560' FNL & 660'FWL (D)-21-22N-34E 660' FNL & 660'FEL (A)-17-22N-34E

(2) Each of the subject wells shall be dedicated to the existing 640-acre standard gas spacing and proration unit on which it is located.

(3) Applicant's request for an unorthodox location approval for its BDCDGU 1835 Well No. 072 is hereby <u>dismissed</u>.

(4) Pursuant to Division Rule No. 104.F., future unorthodox gas well locations within the Bravo Dome 640-Acre Area based upon geologic or engineering considerations shall qualify for administrative approval, provided however, that the supervisor of the Division's Santa Fe District Office shall have the authority to require additional notice by the applicant to those offset interest owners deemed to be affected by any proposed unorthodox location.

(5) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY Director

S E A L