

# Gulf Oil Exploration and Production Company

D. L. Joiner  
MANAGER TECHNICAL  
WESTERN DIVISION

September 21, 1984

P. O. Drawer 1150  
Midland, TX 79702

*Bill*

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. R. L. Stamets

Gentlemen:

RE: September 26, 1984 Docket  
Cases 8351 and 8352

Gulf Oil Corporation has reviewed both applications made by Cities Service with respect to formation of the West Bravo Dome Unit, Harding and San Miguel Counties, New Mexico. We support both Cities Service's application for approval of the West Bravo Dome Unit (Case No. 8351) and their request to establish temporary 640 acre spacing rules for the Unit (Case No. 8352).

Yours very truly,

*D. F. Berlin*  
for: D. L. JOINER

LDM/csd

cc: Cities Service Oil and Gas Corporation  
P.O. Box 300  
Tulsa, Oklahoma 74102

Attention: Mr. Charles E. Creekmore



A DIVISION OF GULF OIL CORPORATION



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

April 29, 1986

AIRBORNE

State of New Mexico  
Commissioner of Public Lands  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

ATTN: Mr. Floyd O. Prando,  
Director

Re: First Enlargement and  
Expansion of the Unit Area  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico  
Unit Operator-Cities Service  
Oil and Gas Corporation

Gentlemen:

Please find enclosed check in the amount of two hundred ten dollars (\$210.00) representing the filing fee for seven (7) additional sections in the captioned Enlargement and Expansion, where no fee was paid under the initial filing for the Unit.

Cities Service, as Unit Operator, sent out packets in February, 1986 by certified mail to all Royalty Interest Owners describing and explaining the Working Interest Owner's plans for the captioned Enlargement and Expansion. We received no objections to the First Enlargement from the Royalty Interest Owners.

We are enclosing two Exhibits A, B, and C to the Unit Agreement, as revised, and an Exhibit showing just the Enlargement and Expansion acreage. Since we mailed our last Exhibits to you, we have made two significant revisions to the Exhibits. First, we discovered that the NE/4 NW/4 Section 19, T17N, R29E, was not a part of Federal Lease NM-63276, covered by Tract F-117. This acreage is covered by a separate Federal Lease NM-52573, which is held by current Lessees of Record and Working Interest Owners: William H. Martin, Edward H. Judson, and R. Ken Williams (individually, and in equal shares). There is also a 3% Overriding Royalty Interest on this forty (40) acre tract attributed to James W. Phillips. We removed this acreage from Tract F-117 and created Tract F-118, making 18 Federal Tracts. The total federal acreage and percentage of Unit remains unchanged. Second, Chevron U.S.A. Inc. has recently acquired a significant portion of CO<sub>2</sub>-In-Action, Inc.'s Working Interest in the Unit.

We are enclosing two original Ratifications for the Enlargement and Expansion of the captioned Unit from the following parties:

WORKING INTEREST OWNERS

Amerigas II, Inc.  
Amerada Hess Corporation  
CO<sub>2</sub>-In-Action, Inc.  
Cities Service Oil and Gas Corporation

OVERRIDING ROYALTY INTEREST OWNERS

Public Lands Royalty Trust  
Rio Petro, Ltd.  
George L. Scott

ROYALTY INTEREST OWNERS

The Enlargement and Expansion Area includes only  
Federal and State lands.

I have been informed that Chevron U.S.A. Inc.'s Ratifications are enroute to us in Tulsa, and we will forward two of them to you as soon as we receive them.

Ratifications from the new Working Interest Owners in Tract F-118, William H. Martin, Edward H. Judson, and R. Ken Williams will be sent from our Region office in Midland. Cities has not received a reply from Overriding Royalty Owner, James W. Phillips.

Pursuant to Section 12.3, Effective Date, of Enlargement of Unit Area, found in the Unit Agreement on page 20, a revised set of Exhibits A, B, and C are being filed of Record in Harding County, New Mexico prior to May 1, 1986, in anticipation of making that the effective date of the Enlargement and Expansion.

I am also enclosing two copies of Exhibit F and the First, Second, and Third Amendments to the Unit Operating Agreement.

Thank you for all your assistance in this matter, and should you have any questions, please do not hesitate to call on me.

Yours very truly,



Charles E. Creekmore  
Staff Landman  
Unitization and Acquisitions

West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

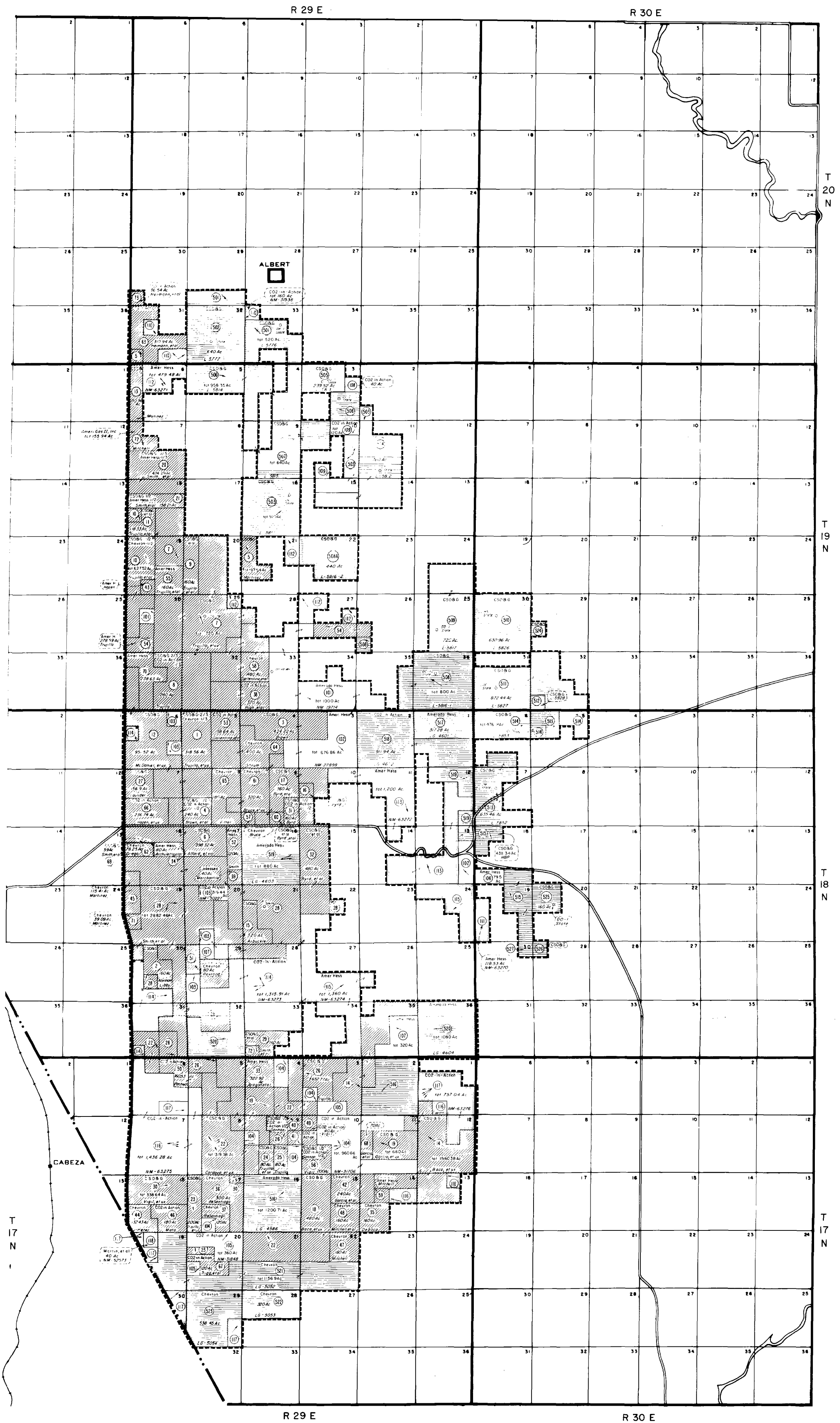
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cc: Mr. R. L. Stamets      ← THIS COPY FOR ←  
State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
P. O. Box 288  
Santa Fe, New Mexico 87501  
(with 1 copy of all above-mentioned  
Exhibits and 1 set of original  
signature Ratifications)

Mr. Gary A. Stephens  
Bureau of Land Management  
Albuquerque District Office  
505 Marquette, N.W.  
P. O. Box 6770  
Albuquerque, New Mexico 87197-6770  
Ref: West Bravo Dome CO<sub>2</sub> Gas Unit  
3180 (015) (GC)  
(with 4 copies of all above-mentioned  
Exhibits and 2 original signature and  
2 copies of the Ratifications)

Gene Motter      - Midland  
David Evans      - Midland  
Russ Ledbetter - Room 2431/CSB  
Nicole Nauman   - Room 11 ADB/TC





18 FEDERAL TRACTS 10,743.70 AC. 21.48 % OF UNIT  
 27 STATE TRACTS 16,416.53 AC. 32.82 % OF UNIT  
 73 PATENTED TRACTS 22,860.55 AC. 45.70 % OF UNIT  
 TOTAL 50,020.78 AC. 100.00 % OF UNIT

- FEDERAL LANDS (F-Series numbers on Exhibit "B")
- ▨ STATE OF NEW MEXICO LANDS (S-Series numbers on Exhibit "B")
- ▩ PATENTED LANDS (2000 Series numbers on Exhibit "B")
- TRACT NUMBERS AS LISTED IN EXHIBIT "B"
- UNIT BOUNDARY
- FIRST ENLARGEMENT

**EXHIBIT "A"**  
**WEST BRAVO DOME UNIT AREA**  
**HARDING COUNTY, NEW MEXICO**

0 1/2 1  
 MILE

EXHIBIT "B" - FIRST ENLARGEMENT  
WEST BRAVO DOME CO<sub>2</sub> GAS UNIT  
HARDING COUNTY, NEW MEXICO

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
<u>ALL IN HARDING COUNTY</u>							
F-101	T-19N, R-29E NWSW SEC. 27 E/2SE & SWSE SEC. 28; SESW SEC. 30; E/2 SEC. 33; S/2 & SWNE SEC. 34; S/2SW & NWSW SEC. 35	1000.00	NW-19714 3-31-84	U.S.A. - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
F-102	T-18N, R-29E LOTS 1 & 2 & S/2 NE & S/2 SEC. 3; E/2SE SEC. 4; SENE, E/2SE SEC. 13	676.86	NW-27898 8-31-86	U.S.A. - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
F-103	T-18N, R-29E LOTS 1 & NESE SEC. 6; NEW & NWNE SESW SEC. 20; NWNE & W/2SW SEC. 29	319.44	NW-30227 8-31-87	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.	CHEVRON U.S.A. INC. 100%	
F-104	T-17N, R-29E NWSW SEC. 3; LOT 2 & SWNE SEC. 4; SWNW & E/2SE SEC. 9; E/2NW & E/2 SEC. 10; N/2NW & NWNE & S/2S/2 SEC. 11; SESW SEC. 17	960.66	NW-31706 12-31-87	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.	CHEVRON U.S.A. INC. 100%	

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F-105	T-17N, R-29E SWSE & SESW SEC. 3; N/2NW & NWSW & NE SEC. 20	360.00	NM-31848 1-31-88	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.		CHEVRON U.S.A. INC. 100%
F-106	T-18N, R-30E LOT 4, SESW SEC. 18	79.50	NM-19705 11-30-84	U.S.A. - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
F-107	T-18N, R-29E NEW SEC. 29; SESW & SE & S/2NE SEC. 35	320.00	NM-31154 10-30-87	U.S.A. - ALL	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
F-108	T-19N, R-29E SENE SEC. 3	40.00	NM-44598 6-30-86	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.		CHEVRON U.S.A. INC. 100%
F-109	T-19N, R-29E N/2NE & SESW SEC. 10	120.00	NM-44599 6-30-86	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.		CHEVRON U.S.A. INC. 100%
F-110	T-20N, R-29E SESW, S/2 SE SEC. 31; NWNW SEC. 33	160.00	NM-61445 12-31-87	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.		CHEVRON U.S.A. INC. 100%
F-111	T-18N, R-30E LOTS 2, 3, 4 SEC. 19	118.53	NM-63270 HBP	U.S.A. - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
F-112	T-19N, R-29E LOTS 1, 2, 3, SWNE, SESEW SEC. 6; E/2NE SEC. 21; SENE, N/2NW, SWNW SEC. 27; NENE SEC. 29	479.48	NM-63271 HBP	U.S.A. - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
F-113	T-18N, R-29E N/2NE SEC. 10; E/2, N/2NW, SESW SEC. 11; SWNE, N/2SE, SWSE SEC. 12; W/2NE, SW, W/2SE SEC. 13; NWNE, SE SEC. 14	1200.00	NM-63272 HBP	U.S.A. - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
F-114	T-18N, R-29E LOT 5 SEC. 6; N/2SW, SWSEW SEC. 22; NENE, S/2N/2, S/2 SEC. 28; SENE, SESEW, NESE, S/2SE SEC. 29; LOTS 2, 3, 4, SESW, SWSE SEC. 30; LOTS 1, 2, 4, NWNE, E/2NW SEC. 31	1315.91	NM-63273 8-31-87	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, RIO PETRO LTD. INC.	2.2% 100%	CHEVRON U.S.A. INC. 100%

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F-115	T-18N, R-29E NE, N/2 NW, E/2SE SEC. 24; NWSW SEC. 26; W/2NW, S/2 SEC. 27; N/2 SEC. 33; N/2NE, SENE, NENW, NESE, S/2SE SEC. 34	1360.00	NM-63274 10-30-87	U.S.A. - ALL	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
F-116	T-17N, R-29E SESW SEC. 1; W/2SW SEC. 5; LOTS 4, 5, 6, 7, SWNE, SENW, E/2SW, N/2SE SEC. 6; LOTS 1, 2, 3, 4, E/2, E/2W/2 SEC. 7; W/2W/2 SEC. 8; NWNE SEC. 13; S/2NE SEC. 14	1436.28	NM-63275 12-31-87	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.	2.2%	CHEVRON U.S.A. INC. 100%
F-117	T-17N, R-29E SWNE, S/2NW, N/2SW, SE SEC. 1; S/2SE SEC. 6; N/2NE, SWNE SEC. 12;	757.04	NM-63276 1-31-88	U.S.A. - ALL	CO <sub>2</sub> -IN-ACTION, INC.		CHEVRON U.S.A. INC. 100%

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F-117	(CONT'D):  LOTS 1, 2, 3, SEC. 19; E/2SE SEC. 29; LOTS 1, 2, 3, 5 SEC. 30						
F-118	T-17N, R-29E NEW SEC. 19	40.00	NW-52573 6-30-92	USA - ALL	WILLIAM H. MARTIN, EDWARD H. JUDSON, AND R. KEN WILLIAMS	JAMES W. PHILLIPS 3%	WILLIAM H. MARTIN, EDWARD H. JUDSON, AND R. KEN WILLIAMS (INDIVIDUALLY AND IN EQUAL SHARES)

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18 FEDERAL TRACTS CONTAINING 10,743.70 ACRES OR 21.48% OF THE UNIT AREA

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TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
S-501	T-20N, R-29E S/2S/2 SEC. 29; S/2NW & SWNE & N/2S/2 & SESE & SWSW SEC. 33	520.00	L-5776-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-502	T-20N, R-29E ALL SEC. 32	640.00	L-5777-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-503	T-19N, R-29E SWSW SEC. 2; SENE & E/2SE SEC. 10; N/2NE & NE NW SEC. 15; ALL SEC. 16	920.00	L-5811-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-504	T-19N, R-29E SW & W/2SE & SWNE & S/2NW & NNW SEC. 11; W/2NE & NW SEC. 14; S/2NE & SENW SEC. 15	760.00	L-5812-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-505	T-19N, R-29E LOTS 2, 3 & 4 & S/2NW & SWNE SEC. 3	239.52	L-5813-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-506	T-19N, R-29E SE SEC. 3; LOTS 1, 3 & 4 & S/2NW & SENE & SE & W/2SW SEC. 4; LOTS 1, 2, 3 & 4 & S/2N/2 SEC. 5	958.35	L-5814-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
S-507	T-19N, R-29E E/2 & W/2NW & E/2SW SEC. 9; NW SEC. 10	640.00	L-5815-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-508	T-19N, R-29E SWSW SEC. 26 SENE & E/2SE SEC. 35; ALL SEC. 36	800.00	L-5816-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-508A	T-19N, R-29E N/2, N/2SE, NESW SEC. 22	440.00	L-5816-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-509	T-19N, R-29E E/2SW & SE SEC. 24; E/2 & E/2W/2 SEC. 25	720.00	L-5817-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-510	T-19N, R-30E LOTS 1, 2, 3 & 4 & E/2W/2 & E/2 SEC. 30	630.96	L-5826-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-511	T-19N, R-30E LOTS 2, 3 & 4 & E/2SW & SENW & S/2NE & SE SEC. 31; NW & N/2SW & SESW & W/2SE & SESE SEC. 32	872.44	L-5827-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%



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S-512	<u>T-19N, R-30E</u> SWSW SEC. 32	40.00	L-5828-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION	CITIES SERVICE OIL AND GAS CORPORATION	100%
S-513	<u>T-18N, R-30E</u> LOTS 3, 4 & SENW SEC. 5; SWSE & SESW SEC. 6; LOTS 1, 2, 3 & 4 & E/2W/2 & NWNE & S/2SE SEC. 7	635.46	L-5852-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION	CITIES SERVICE OIL AND GAS CORPORATION	100%
S-514	<u>T-18N, R-30E</u> LOTS 1, 2 & SWNW, SENE SEC. 5; LOTS 1, 2, 3, 4 & 5 & SENW & S/2NE SEC. 6	476.18	L-5853-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION	CITIES SERVICE OIL AND GAS CORPORATION	100%
S-515	<u>T-18N, R-30E</u> LOTS 1 & 2 & NEW & S/2SE SEC. 18; NE & E/2SE SEC. 19	438.34	L-5856-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION	CITIES SERVICE OIL AND GAS CORPORATION	100%
S-516	<u>T-17N, R-29E</u> LOTS 1, 2 & 3 & S/2NE & SENW & S/2 SEC. 2; ALL SEC. 16	1200.71	LG-4586 9-1-87	STATE OF NEW MEXICO - ALL	AMERADA HESS CORPORATION	AMERADA HESS CORPORATION	100%
S-517	<u>T-18N, R-29E</u> LOTS 1, 2 3 & 4 & S/2N/2 SEC. 1	317.28	LG-4601 9-1-87	STATE OF NEW MEXICO - ALL	AMERADA HESS CORPORATION	CLARENCE BRICE AND ANNE B. BRICE, HIS WIFE	AMERADA HESS CORPORATION 100%

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S-518	<u>T-18N, R-29E</u> N/2S/2, SESE S/2SE SEC. 1; ALL SEC. 2	911.94	LG-4602-3 9-1-87	STATE OF NEW MEXICO - ALL	CO <sub>2</sub> -IN-ACTION, INC.		CHEVRON U.S.A. INC. 100%
S-519	<u>T-18N, R-29E</u> NEW & N/2NE & SENE & SESE SEC. 12; NENE SEC. 13; ALL SEC. 16	880.00	LG-4603 9-1-87	STATE OF NEW MEXICO - ALL	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
S-520	<u>T-18N, R-29E</u> E/2NE & SSW & S/2 SEC. 32; ALL SEC. 36	1080.00	LG-4604 9-1-87	STATE OF NEW MEXICO - ALL	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
S-521	<u>T-17N, R-29E</u> LOTS 4, 5 & 6 & NE & E/2SE SEC. 19; S/2S/2 & NESE SEC. 20; S/2 SEC. 21; S/2 SEC. 22	1156.90	LG-5052 1-1-88	STATE OF NEW MEXICO - ALL	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
S-522	<u>T-17N, R-29E</u> N/2 SEC. 28	320.00	LG-5053 1-1-88	STATE OF NEW MEXICO - ALL	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
S-523	<u>T-17N, R-29E</u> LOTS 4 & 6 & N/2 & W/2SE & E/2SW SEC. 29	538.45	LG-5054 1-1-88	STATE OF NEW MEXICO - ALL	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
S-524	<u>T-19N, R-30E</u> NWSW SEC. 29	40.00	L-5823-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

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S-525	T-18N, R-30E NW SEC. 20	160.00	L-5857-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-526	T-18N, R-30E NNW SEC. 29	40.00	L-5859-2 HBP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
S-527	T-18N, R-30E NENE SEC. 30	40.00	LH-3499 6-1-95	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

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28 STATE TRACTS CONTAINING 16,416.53 ACRES OR 32.82% OF THE UNIT AREA

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2001	T-18N, R-29E W/2 SEC. 5	318.56	5-19-85 HBP	R. E. TRUJILLO SR. ET UX 4.16667% GEORGE E. TRUJILLO 4.16667% ERNEST V. TRUJILLO 4.16666% 12.50000%	CITIES SERVICE OIL AND GAS CORPORATION 67%  CHEVRON U.S.A. INC. 33% 100.00000%	CITIES SERVICE OIL AND GAS CORPORATION 66.66667%	CITIES SERVICE OIL AND GAS CORPORATION 66.66667%
2002	T-18N, R-29E SWNE & E/2NW & NWSE SEC. 30	160.00	9-22-85	NORMAN W. LIBBY ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION	CITIES SERVICE OIL AND GAS CORPORATION 100%	CITIES SERVICE OIL AND GAS CORPORATION 100%
2003	T-18N, R-29E NW SEC. 3; NE & N/2NW & SEW SEC. 4	434.22	3-15-85	BESSIE BROWN ESTATE 12.5% R.E.BROWN PERSONAL REP., FRED GARMS BETTY LOU WHITE	CITIES SERVICE OIL AND GAS CORPORATION	CITIES SERVICE OIL AND GAS CORPORATION 100%	CITIES SERVICE OIL AND GAS CORPORATION 100%
2004	T-18N, R-29E E/2SE SEC. 7 SW SEC. 8	240.00	3-15-85  2-7-89  2-22-89	R. E. BROWN ET UX 6.25000%  (KATHERINE C. ACKER)  REGINA ACKER WARREN ET VIR 0.52084%	CITIES SERVICE OIL AND GAS CORPORATION 50% CO <sub>2</sub> -IN-ACTION, INC. 50%	CITIES SERVICE OIL AND GAS CORPORATION 50%  G. D. BOWIE, JR., ET AL 6.625% ON 85% OF 50% TOTAL PRODUCTION	CITIES SERVICE OIL AND GAS CORPORATION 50%  CO <sub>2</sub> -IN-ACTION, INC. 50% 100%

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2004 CONT'D							
			2-22-89	MARY ANN ACKER WALTERSCHIED ET VIR 0.52084%			
			2-22-89	AURELIA ACKER SCHOENENBERGER ET VIR 0.52084%			
			2-22-89	LAWRENCE ACKER ET UX 0.52084%			
			2-22-89	JOSETTA ACKER HEINRICH ET VIR 0.52083%			
			2-22-89	GERALD ACKER ET UX 0.52083%			
			2-22-89	LORENE ACKER DICK ET VIR 0.52083%			
			2-22-89	JAMES ACKER ET UX 0.52083%			
			2-22-89	ROBERT ACKER ET UX 0.52083%			
			2-22-89	IRENE ACKER GIDDEN ET VIR 0.52083%			
			2-22-89	BERNICE ACKER BREWER 0.52083%			
			2-22-89	CHARLES ACKER ET UX 0.52083%			
				12.50000%			

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2005	T-19N, R-29E W/2NW & N/2SW SEC. 21 T-20N, R-29E LOT 4 SEC. 31	197.54	5-21-85	SAM MARTINEZ 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2006	T-18N, R-29E NW & W/2NE SEC. 17; N/2N/2 SEC. 18	398.32	5-17-85	JANETTE J. ALFORD, ET VIR 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2007	T-19N, R-29E NE SEC. 19 E/2W/2 & W/2E/2 SEC. 20; SWNW SEC. 28; W/2 & W/2E/2 & SENE & NESE SEC. 29; E/2 SEC. 30; W/2 SEC. 32	1720.00	5-19-85	R. E. TRUJILLO SR., ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2008	T-19N, R-29E N/2NE & SENE & SE SEC. 31	280.00	5-19-85  5-20-85  2-24-88	R. E. TRUJILLO SR., ET UX 4.16667% GEORGE E. TRUJILLO 4.16667% ERNEST V. TRUJILLO 4.16666% 12.50000%	CITIES SERVICE OIL AND GAS CORPORATION 67%  CO2-IN-ACTION, INC. 33%		CITIES SERVICE OIL AND GAS CORPORATION 66.66667% CO2-IN-ACTION, INC. 33.33333% 100.00000%

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2009	T-19N, R-29E W/2W/2 SEC. 20	160.00	2-24-88	ERNEST V. TRUJILLO 2.08334%	CO <sub>2</sub> -IN-ACTION, INC. 17%	CO <sub>2</sub> -IN-ACTION, INC. 16.66667%	
			5-19-85	R. E. TRUJILLO SR., ET UX 2.08333%	CITIES SERVICE OIL AND GAS CORPORATION 83%	CITIES SERVICE OIL AND GAS CORPORATION 83.33333%	
			5-20-85	GEORGE E. TRUJILLO 2.08333%			100.00000%
			6-18-89	CHARLES G. PARKE ET AL 9.37500%			
				15.62500%			
2010	T-19N, R-29E LOT 3 & SE SEC. 18; LOTS 1, 2, 3 & 4 & E/2NW & NESW SEC. 19; LOTS 1, 2 & 3 & NEW SEC. 30	627.52	5-20-85	GEORGE E. TRUJILLO 6.25%	CITIES SERVICE OIL AND GAS CORPORATION 50% CHEVRON U.S.A. INC. 50%	CITIES SERVICE OIL AND GAS CORPORATION 50% CHEVRON U.S.A. INC. 50%	
			2-24-88	ERNEST V. TRUJILLO 6.25%			100%
				12.50%			

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2011	T-19N, R-29E LOT 4 & E/2SW SEC. 18	118.33	5-20-85	GEORGE E. TRUJILLO 3.125% ELLEN DRAKE KINGSBURY 2.34375% BETTY DRAKE RIPPEL 2.34375% ERNEST V. TRUJILLO 3.125% FEDERAL LAND BANK OF WICHITA 4.6875% 15.625%	CITIES SERVICE OIL AND GAS CORPORATION 50%	CITIES SERVICE OIL AND GAS CORPORATION 50%	
			2-24-88	CHEVRON U.S.A. INC. 25%	CHEVRON U.S.A. INC. 25%		
			3-19-85	AMERADA HESS CORPORATION 25% 4.6875% 15.625%	AMERADA HESS CORPORATION 25%		



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2012	<u>T-18N, R-29E</u> LOTS 2, 3, 4, 6 & 7 & SENE & S/2NE & E/2SW & NWSE & S/2SE SEC. 6; NE SEC. 7; NW SEC. 8;	951.52	6-4-85	RAY C. MCDANIEL ET UX <u>12.5%</u>	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
	<u>T-19N, R-29E</u> LOTS 2, 3 & 4 SEC. 31						
2013	<u>T-19N, R-29E</u> LOTS 4, 5, 6 & 7 SEC. 6	150.96	6-10-85	CELSO MARTINEZ <u>12.5%</u>	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2014	<u>T-17N, R-29E</u> SWSW SEC. 1; LOT 4 & SWNW SEC. 2; LOT 1 & S/2NE & N/2SE & SESE SEC. 3; NENE SEC. 11; W/2 & SE & SENE SEC. 12; NW & SWNE SEC. 13; N/2NE & NENE SEC. 14;	1560.38	7-7-85	EUFACIO BACA ET UX <u>12.5%</u>	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
	<u>T-18N, R-29E</u> N/2NE & NENE & S/2NW & N/2SW & SWSW SEC. 35						

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2015	<u>T-18N, R-29E</u> SWNE & NWSE & S/2SE SEC. 20; SWNW & NWSW & S/2SW SEC. 21	320.00	7-3-85	EDWARD ARBUCKLE ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2016	<u>T-18N, R-29E</u> SWNW SEC. 10	40.00	9-15-91	JAMES K. BYRD ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2017	<u>T-18N, R-29E</u> NE & NWSE & SESW SEC. 9; NWNW & E/2NW SEC. 10	360.00	9-15-91  1-24-90	JAMES K. BYRD ET UX 6.25%  SUN EXPL. & PROD. CO. 9.375% 15.625%	CITIES SERVICE OIL AND GAS CORPORATION  CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2018	<u>T-17N, R-29E</u> W/2 SEC. 15 NW SEC. 22	480.00	7-8-85	ELOY BACA ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2019	<u>T-17N, R-29E</u> SW SEC. 4; NESE & S/2SE SEC. 5; NENE SEC. 8; NWNW & W/2NEW & W. 30 AC. OF SENW SEC. 9; S/2NE & N/2SE & SENW & NESW & E/2E/2E/2SWNW & E/2E/2E/2NWSW SEC. 11	660.00	7-9-85	MARGARITO GARCIA ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

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2020	T-19N, R-29E LOTS 3 & 4 & E/2 SW & SE SEC. 7; LOT 1 & NEW & N/2NE SEC. 18	474.29	7-2-85	ARMAND L. SMITH AND S. CRAIG SMITH 8.3333% BETTY DRAKE RIPPEL 2.0833% ELLEN DRAKE KINGSBURY 2.0833% 12.5000%	CITIES SERVICE OIL AND GAS CORPORATION 66.6666% AMERADA HESS CORPORATION 33.3333% 100.0000%		
2021	T-19N, R-29E LOT 2 & SEW & S/2NE SEC. 18	158.21	7-2-85	ARMAND L. SMITH AND S. CRAIG SMITH 6.25% FEDERAL LAND BANK OF WICHITA 4.6875% BETTY DRAKE RIPPEL 1.5625% ELLEN DRAKE KINGSBURY 1.5625% 14.0625%	CITIES SERVICE OIL AND GAS CORPORATION 50% AMERADA HESS CORPORATION 50% 100%		

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2022	<u>T-17N, R-29E</u> SWSW SEC. 3; SESE & W/2SE SEC. 4; SESW & E/2SW & NWSE SEC. 5; LOT 3 SEC. 6; E/2W/2 & W/2E/2 & SENE & E/2SE SEC. 8; W/2SW SEC. 9; N/2 SEC. 21;	1319.38	7-23-85	JOE N. CORDOVA ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2023	<u>T-18N, R-29E</u> LOT 3 & E/2SW SEC. 31						
2023	<u>T-17N, R-29E</u> W/2W/2 SEC. 17; N/2S/2NW SEC. 20	200.00	8-1-85	ALECIO TRUJILLO ET AL 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2024	<u>T-17N, R-29E</u> E/2SW SEC. 9	80.00	8-2-85	ALECIO TRUJILLO ET UX 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2025	<u>T-17N, R-29E</u> W/2SE SEC. 9	80.00	8-2-85	JUAN J. TRUJILLO 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

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2026	T-17N, R-29E LOTS 2, 3 & 4 & S/2NW & NESW SEC. 3; LOT 1 & SENE & NESE SEC. 4; LOTS 3 & 4 SEC. 5; W/2NE & E/2NENW & E. 10 AC. OF SESW SEC. 9	652.77	8-5-85	ALECIO TRUJILLO & JUAN J. TRUJILLO 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2027	T-18N, R-29E LOTS 1 & 2 & E/2NW SEC. 7	156.90	6-5-85	DOROTHY J. LAUNDER 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

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2028	T-18N, R-29E W/2SE & SW SEC. 17; SE & E/2SW & LOT 3 SEC. 18, EXCEPT 5.85 ACRES DESCRIBED IN TRACT 2062; LOT 4 & E/2W/2 & E/2 SEC. 19; W/2W/2 & SENW & NESW & E/2NE & NESE SEC. 20; NNW & E/2NW & NESW & E/2 SEC. 21; SWNE SEC. 22; NWNE & N/2NW SEC. 28; NENE & SWNE & NWSE & NESW & SESW SEC. 29; E/2E/2 & NWNE & NESW & LOT 1 SEC. 30; NENE & S/2NE & E. 51 AC. OF SE SEC. 31; N/2NW & W/2NE & SENW SEC. 32	2882.46	7-30-85	ARMAND LEE SMITH ET AL 12.5%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2029	T-18N, R-29E N/2SW & SESW & NWSE SEC. 33	160.00	7-30-85  11-14-89  11-14-89	ARMAND LEE SMITH ET AL 6.25% ALFRED BROWN, JR. AND METTIE BROWN 2.34375% LENA BROWN 2.34375%	CITIES SERVICE OIL AND GAS CORPORATION 75%		CITIES SERVICE OIL AND GAS CORPORATION 75%

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2029 CONT'D				ALFRED KRESS <u>3.1250%</u> <u>14.0625%</u>	ALFRED KRESS UNLEASED	25%	ALFRED KRESS <u>25%</u> <u>100%</u>
2030	T-17N, R-29E N/2NE NE SEC. 17; LOTS 1 & 2 & E/2NW & NE SEC. 18	338.64	7-31-85	CELEDONIO VIGIL <u>12.5%</u>	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%
2031	T-18N, R-29E E/2SE SEC. 9; W/2SW SEC. 10	160.00	9-15-91	JAMES K. BYRD ET UX 6.25%	CITIES SERVICE OIL AND GAS CORPORATION 50%		CITIES SERVICE OIL AND GAS CORPORATION 50%
			7-25-89	RUFUS P. RANDOLPH ET AL 6.25% <u>12.50%</u>	CHEVRON U.S.A. INC. 50%	G. D. BOWIE, JR., ET AL 6.625% OF 85% OF 50% TOTAL PRODUCTION	CHEVRON U.S.A. INC. <u>50%</u> <u>100%</u>
2032	T-18N, R-29E W/2 SEC. 15; NW SEC. 22	480.00	9-15-91	JAMES K. BYRD ET UX 6.25%	CITIES SERVICE OIL AND GAS CORPORATION 50%		CITIES SERVICE OIL AND GAS CORPORATION 50%
			11-3-88	H. W. ALLEN ET UX 6.25% <u>12.50%</u>	CHEVRON U.S.A. INC. 50%		CHEVRON U.S.A. INC. 30% AMERADA HESS CORPORATION <u>20%</u> <u>100%</u>

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2033	T-17N, R-29E LOTS 3, 4 & S/2NW SEC. 4; LOTS 1 & 2 & S/2NE SEC. 5	322.92	1-10-90	ANNIE ARAGON 1.3888% ABENECIO ARCHULETA, AKA JOE A. ARCHULETA 1.3888% ADELINA ACOSTA 1.3888% NICK ARCHULETA 1.3888% PAULA PACHECO 1.3888% PROCPPIO ARCHULETA 1.3888% TOMASITA ARCHULETA MARTINEZ 1.3888% RAFAELITA ARGUELLO 1.3888% MARY GARCIA 1.3888% 12.5000%	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
2034	T-18N, R-29E S/2NE SEC. 18	80.00	5-9-85	ANCELETO ARCHULETA AKA NICK ARCHULETA, ET UX 14.58333%	CO <sub>2</sub> -IN-ACTION, INC. 78%		CO <sub>2</sub> -IN-ACTION, INC. 77.78%



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2034 CONT'D							
			1-10-90	ADELINA ACOSTA 1.38889%	AMERADA HESS CORPORATION 22%		AMERADA HESS CORPORATION 22.22%
			1-10-90	PROOPTIO ARCHULETA 1.38889% 17.36111%			
2035	T-17N, R-29E SW SEC. 14	160.00	11-13-88	FRANK L. C. DERACA 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2036	T-17N, R-29E E/2NW & W/2NE & S/2NENE & E/2SE & SENE SEC. 17	300.00	7-5-88	ANTONIA V. DESANTIAGO 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2037	T-17N, R-29E W/2SE & NESW SEC. 17	120.00	7-5-88	LUGARDITA DESANTIAGO 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2038	T-19N, R-29E SE SEC. 32; SW SEC. 33	320.00	4-16-89	DOROTHY D. HIGH ET AL 12.5%	CO <sub>2</sub> -IN-ACTION, G. D. BOWIE, JR., ET AL INC. 6.625% ON 85% OF TOTAL PRODUCTION		CO <sub>2</sub> -IN-ACTION, INC. 100%
2039	T-18N, R-29E SESE SEC. 17	40.00	5-22-89	FLOERSHEIM MERCANTILE COMPANY 18.75%	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%



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2041							
CONT'D							
			7-13-89	PATSY GANNON CAMPELL .87891%			
			7-13-89	PATSY GANNON CAMPELL CHILDREN'S TRUST 1.46484%			
			7-13-89	JEANNE GANNON HUNT .87891%			
			7-13-89	JEANNE GANNON HUNT CHILDREN'S TRUST 1.46484%			
			7-13-89	LUCILLE GANNON MURCHISON .87890%			
			7-13-89	LUCILLE GANNON MURCHISON CHILDREN'S TRUST 1.46484%			
			11-21-88	IGNACIO VIGIL 6.25%	CHEVRON U.S.A. INC. 50%		CHEVRON U.S.A. INC. 50.0%
				15.625%			100.0%
2042	T-17N, R-29E W/2NW SEC. 14; NE SEC. 15	240.00	6-19-88	MAGDALENA PACHECO 6.94444%	CHEVRON U.S.A. INC.		
				FRANK GARCIA AKA FRANCISCO GARCIA 5.55556%			
				12.50000%			
2043	T-19N, R-29E SESW SEC. 19	40.00	12-10-89	LYELL G. HAZEN ET UX 12.5%	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%

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2044	T-17N, R-29E LOTS 3 & 4 & W/2NESW & SESW SEC. 18	132.43	7-31-88	CLORINDA JIMENEZ 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2045	T-18N, R-29E LOT 4 SEC. 18; LOTS 1 & 2 SEC. 19	115.41	5-3-88	ALBIRIA MARTINEZ 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2046	T-17N, R-29E SE & E/2NESW SEC. 18	180.00	11-18-88	VICENTITA MATA 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2047	T-17N, R-29E NE SEC. 22	160.00	9-1-88	SAMUEL T. MITCHELL 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%

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2048	T-17N, R-29E SE SEC. 15	160.00	9-1-88	SAMUEL T. MITCHELL 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2049	T-17N, R-29E NNW SEC. 10	40.00	11-21-88	IGNACIO VIGIL ET UX 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2050	T-17N, R-29E SWW SEC. 5; LOTS 1 & 2 & SENE SEC. 6	160.53	6-16-89 6-16-89	BENITO PACHECO 6.25% JOE A. PACHECO 6.25% 12.50%	CO <sub>2</sub> -IN-ACTION, G. D. BOWIE, JR., ET AL INC. 6.625% ON 85% OF TOTAL PRODUCTION		CO <sub>2</sub> -IN-ACTION, INC. 100%

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2051	T-18N, R-29E W/2NW SEC. 29	80.00	12-27-88	ESTATE OF ALICE MABEL REXROAD 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2052	T-18N, R-29E E/2NE & NESE SEC. 17	120.00	2-25-85  2-25-85	ARMAND L. SMITH ET UX 6.25% SIDNEY C. SMITH ET UX 6.25% 12.50%	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
2053	T-18N, R-29E LOTS 1 & 2 & S/2NE SEC. 5	158.64	5-16-85  5-16-85  5-16-85  5-16-85  5-16-85	SAMANTHA S. GALLENTINE ET VIR 2.5000% BARBARA G. SCHEIBLING ET VIR .62500% JAMES S. STICKEL ET UX .62500% MARK STEVEN STICKEL .62500% PATRICIA HENSEL ET VIR .83333%	CO <sub>2</sub> -IN-ACTION, G. D. BOWIE, JR., ET AL 6.625% ON 85% OF TOTAL PRODUCTION  INC.		CO <sub>2</sub> -IN-ACTION, INC. 95%

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2053							
CONT'D							
			5-16-85	JOYCE K. MILLER ET VIR .83333%			
			5-16-85	AUGUST C. STICKEL III .83333%			
			5-16-85	DANIEL A. STICKEL .41667%			
			5-16-85	EUGENE S. STICKEL III, ET UX .41667%			
			5-16-85	DORTHEA K. STICKEL ET AL .41667%			
			5-16-85	T. J. STICKEL ET UX 1.25000%			
			5-16-85	SARAH E. WORK ET VIR 2.50000%			
				DAVID STICKEL .62500%	UNLEASED		UNLEASED 5%
				<u>12.50000%</u>			
2054	T-19N, R-29E NWSW SEC. 26; NESW & N/2SE SEC. 27; LOT 4 & E/2SW SEC. 30	278.59	7-19-87	ANTONIO TRUJILLO <u>12.5%</u>	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
2055	T-19N, R-29E SE SEC. 19	160.00	8-15-87	R. E. TRUJILLO ET UX <u>12.5%</u>	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
2056	T-17N, R-29E SW & SSW SEC. 10	200.00	11-21-88	IGNACIO VIGIL ET UX 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2057	T-18N, R-29E SSW SEC. 9	40.00	2-14-88	MARION BRUCE ET UX 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2058	T-19N, R-29E W/2SW & SESE SEC. 28; SESE SEC. 29; NE SEC. 32; NW SEC. 33	480.00	6-22-78	SAMANTHA S. GALLETINE ET VIR 2.5% BARBARA G. SCHEIBLING .62500% JAMES S. STICKEL .62500% MARK STEVEN STICKEL .62500% PATRICIA HENSEL .83333% JOYCE K. MILLER .83333%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%



TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
2058							
CONT'D							
			6-22-78	AUGUST C. STICKEL, III .83333%			
			6-22-78	DANIEL A. STICKEL .41667%			
			6-22-78	EUGENE S. STICKEL, III .41667%			
			6-22-78	MARY C. STICKEL ET AL .41667%			
			6-22-78	T. J. STICKEL 1.25000%			
			6-22-78	SARAH E. WORK ET VIR 2.50000%			
			6-22-78	DAVID STICKEL .62500%			
				<u>12.50000%</u>			
2059	T-17N, R-29E SEW SEC. 14	40.00	12-8-79	NATALIE G. MITCHELL AND SHERRIE H. MITCHELL, JOINT TENANTS <u>12.5%</u>	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
2060	T-18N, R-29E SWSE SEC. 9	40.00	9-15-91  1-24-90	JAMES K. BYRD ET UX 6.25% SUN EXPL. & PROD. CO. <u>9.375%</u> <u>15.625%</u>	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

EXHIBIT "B" - FIRST ENLARGEMENT

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
2061	T-18N, R-29E SWSE SEC. 4; NESE SEC. 8; NW & N/2SW SEC. 9	320.00	2-14-88	MARION BRUCE ET UX 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2062	T-18N, R-29E LOT 2 & SEW SEC. 18 INCLUDING TWO TRACTS IN N/2 SW/4 CON- TAINING 3.85 ACRES, M/L, AND 2.00 ACRES, M/L, RESPECTFULLY, AND EXCLUDING TRACTS IN THE SE/4 NW/4 CONTAINING 3.9 ACRES, M/L AND SW/4NW/4 CON- TAINING 2.00 ACRES, M/L.	78.25	2-24-88	ANTONIO GRIEGO ET UX 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
2063	T-20N, R-29E LOTS 1, 2 & 3 & NE1/4 & E/2SW & N/2SE SEC. 31	310.94	5-18-88	KATHERINE V. HEIMANN 6.25% E. J. GANNON, IV. 1.17188% W. D. GANNON 1.17188% PATSY GANNON CAMPBELL .87891% PATSY GANNON CAMPBELL CHILDRENS TRUST 1.46484% JEANNE GANNON HUNT .87891% JEANNE GANNON HUNT CHILDRENS TRUST 1.46484% LUCILLE GANNON MURCHISON .58593% LUCILLE GANNON MURCHISON CHILDRENS TRUST .97656% 14.84375%	CO <sub>2</sub> -IN-ACTION, INC. 50% CITIES SERVICE OIL AND GAS CORPORATION 37.5%		CO <sub>2</sub> -IN-ACTION, INC. 50% CITIES SERVICE OIL AND GAS CORPORATION 37.5%
2064	T-18N, R-29E SW & NWSE & S1/4 SEC. 4; SE SEC. 5	400.00	2-10-88	EDITH SHRUM 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
2065	T-18N, R-29E NE & W/2SE & SESE SEC. 8	280.00	2-24-88	LOLA B. FITTER 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2066	T-18N, R-29E LOTS 3 & 4 & E/2 SW & W/2SE SEC. 7	236.74	4-3-88	BILLY M. HAZEN ET UX 12.5%	CHEVRON U.S.A. INC.		CHEVRON U.S.A. INC. 100%
2067	T-17N, R-29E S/2S/2NW & NESW & NWSE SEC. 20	120.00	5-13-85	KRISTEN GALEN TRIGG 3.51562% STEPHEN TALBOT TRIGG ET AL 10.54688% THOMAS E. MOCULLOUGH 1.17188% LOUISE TALBOT TRIGG 2.34375% LINDA M. DECKER 1.17187% 18.75000%	CO <sub>2</sub> -IN-ACTION, INC. G. D. BOWIE, JR., ET AL 6.625% ON 85% OF TOTAL PRODUCTION		CO <sub>2</sub> -IN-ACTION, INC. 100%
2068	T-17N, R-29E W/2SWNW & W/2E/2SWNW & W/2E/2E/2SWNW & W/2NWSW & W/2E/2NWSW & W/2E/2E/2NWSW SEC. 11	70.00	6-19-88  6-19-88	MAGDALENA PACHECO 6.94444% FRANK GARCIA 5.55556% 12.50000%	UNLEASED		UNLEASED 100%

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
2069	T-18N, R-29E 5.9 ACRES DESCRIBED AS FOLLOWS; A STRIP OF LAND 4 RODS WIDE AND 80 RODS LONG ADJOINING THE EASTERN BOUND- ARY, AND A STRIP OF LAND 4 RODS WIDE AND 76 RODS LONG ADJOINING THE NORTHERN BOUNDARY, SE/4NW/4, CONTAINING 3.9 ACRES, MORE OR LESS; AND A STRIP OF LAND 4 RODS WIDE AND 80 RODS LONG ALONG THE NORTHERN BOUNDARY, SW/4NW/4, CONTAINING 2.00 ACRES, M/L IN SEC. 18	5.9	6-19-89	ARMAND LEE SMITH AND SIDNEY CRAIG SMITH 18.75%	CITIES SERVICE OIL AND GAS CORPORATION	CITIES SERVICE OIL AND GAS CORPORATION 100%	
2070	T-19N, R-29E LOT 1, E/2W/2 SWNE SEC. 31	238.63	7-19-87	ANTONIO TRUJILLO 12.5%	AMERADA HESS CORPORATION	AMERADA HESS CORPORATION 100%	
2071	T-18N, R-29E LOT 3, SEC. 19	39.09	5-3-88	ALBIRIA MARTINEZ 12.5%	CHEVRON U.S.A. INC.	CHEVRON U.S.A. INC. 100%	

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF BASIC ROYALTY	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
2072	T-18N. R-29E SWSW SEC. 33 T-19N. R-29E LOTS 1, 2, & SESW SEC. 7	155.94	HBP	T. E. MITCHELL & SON INC.-ALL	AMERIGAS II, INC.	AMERIGAS II, INC. 100%	
2073	T-20N. R-29E LOT 4 SEC. 30	36.54	5-18-88	KATHERINE V. HEIMANN 12.5%	CO <sub>2</sub> -IN-ACTION, INC.	CO <sub>2</sub> -IN-ACTION, INC. 100%	

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73 FEE TRACTS CONTAINING 22,860.55 ACRES OR 45.70% OF THE UNIT AREA

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FIRST ENLARGEMENT  
EXHIBIT "C"  
WEST BRAVO DOME CO2 GAS UNIT  
HARDING COUNTY, NM

TRACT NO.	PERCENTAGE OF PARTICIPATION
F-101	.0199917
F-102	.0135316
F-103	.0063861
F-104	.0192052
F-105	.0071970
F-106	.0015893
F-107	.0063973
F-108	.0007997
F-109	.0023990
F-110	.0031987
F-111	.0023696
F-112	.0095856
F-113	.0239900
F-114	.0263073
F-115	.0271887
F-116	.0287137
F-117	.0151345
F-118	.0007997
S-501	.0103957
S-502	.0127947
S-503	.0183924
S-504	.0151937
S-505	.0047884
S-506	.0191590
S-507	.0127947
S-508	.0159934
S-508A	.0087963
S-509	.0143940
S-510	.0126140
S-511	.0174415
S-512	.0007997
S-513	.0127039
S-514	.0095196
S-515	.0087632
S-516	.0240042
S-517	.0063430
S-518	.0182312
S-519	.0175927
S-520	.0215910
S-521	.0231284
S-522	.0063973
S-523	.0107645
S-524	.0007997
S-525	.0031987
S-526	.0007997
S-527	.0007997

FIRST ENLARGEMENT EXHIBIT "C"  
Page Two

TRACT NO.	PERCENTAGE OF PARTICIPATION
2001	.0063685
2002	.0031987
2003	.0086808
2004	.0047980
2005	.0039492
2006	.0079631
2007	.0343857
2008	.0055977
2009	.0031987
2010	.0125452
2011	.0023656
2012	.0190225
2013	.0030179
2014	.0311946
2015	.0063973
2016	.0007997
2017	.0071970
2018	.0095960
2019	.0131945
2020	.0094819
2021	.0031629
2022	.0263766
2023	.0039983
2024	.0015993
2025	.0015993
2026	.0130500
2027	.0031367
2028	.0576252
2029	.0031987
2030	.0067700
2031	.0031987
2032	.0095960
2033	.0064557
2034	.0015993
2035	.0031987
2036	.0059975
2037	.0023990
2038	.0063973
2039	.0007997
2040	.0007997
2041	.0007997
2042	.0047980
2043	.0007997
2044	.0026475
2045	.0023072



FIRST ENLARGEMENT EXHIBIT "C"  
Page Three

TRACT NO.	PERCENTAGE OF PARTICIPATION
2046	.0035985
2047	.0031987
2048	.0031987
2049	.0007997
2050	.0032093
2051	.0015993
2052	.0023990
2053	.0031715
2054	.0055695
2055	.0031987
2056	.0039983
2057	.0007997
2058	.0095960
2059	.0007997
2060	.0007997
2061	.0063973
2062	.0015643
2063	.0062162
2064	.0079967
2065	.0055977
2066	.0047328
2067	.0023990
2068	.0013994
2069	.0001179
2070	.0047706
2071	.0007815
2072	.0031175
2073	.0007305
TOTAL	1.0000000

EXHIBIT "B"  
FIRST ENLARGEMENT TO  
WEST BRAVO DOME CO<sub>2</sub> GAS UNIT  
HARDING COUNTY, NEW MEXICO

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRA- TION DATE	PERCENTAGE OWNERSHIP OF RECORD	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
F-110	<u>T-20N, R-29E</u>	160.00	NM-31538	USA - ALL	CO <sub>2</sub> -IN-ACTION		CHEVRON
	SEC. 31: SE/4 NW/4, S/2 SE/4		12-31-87				U.S.A. INC. 100%
	SEC. 33: NW/4 NW/4						
F-111	<u>T-18N, R-30E</u>	118.53	NM-63270 HBP	USA - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
	SEC. 19: LOTS 2, 3, 4						
F-112	<u>T-19N, R-29E</u>	479.48	NM-63271 HBP	USA - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
	SEC. 6: LOTS 1, 2, 3, SW/4 NE/4, SE/4 NW/4						
	SEC. 21: E/2 NE/4						
	SEC. 27: SE/4 NE/4, N/2 NW/4, SW/4 NW/4						
	SEC. 29: NE/4 NE/4						
F-113	<u>T-18N, R-29E</u>	1200.00	NM-63272 HBP	USA - ALL	AMERADA HESS CORPORATION	PUBLIC LANDS ROYALTY TRUST 10% GEORGE L. SCOTT 2.5%	AMERADA HESS CORPORATION 100%
	SEC. 10: N/2 NE/4						
	SEC. 11: E/2, N/2 NW/4, SE/4 NW/4						
	SEC. 12: SW/4 NE/4, N/2 SE/4, SW/4 SE/4						
	SEC. 13: W/2 NE/4, SW/4, W/2 SE/4						
	SEC. 14: NW/4 NE/4, SE/4						

EXHIBIT "B" - FIRST ENLARGEMENT TO  
WEST BRAVO DOME CO<sub>2</sub> GAS UNIT

PAGE TWO

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRA- TION DATE	PERCENTAGE OWNERSHIP OF RECORD	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
F-114	T-18N, R-29E	1315.91	NM-63273 8-31-87	USA - ALL	CO <sub>2</sub> -IN-ACTION	RIO PETRO LTD. 2.2%	CHEVRON U.S.A. INC. 100%
	SEC. 6: LOT 5						
	SEC. 22: N/2 SW/4, SW/4						
	SEC. 28: NE/4 NE/4, S/2						
	SEC. 29: SE/4 NE/4, SE/4						
	SW/4, NE/4 SE/4, S/2 SE/4						
	SEC. 30: LOTS 2, 3, 4, SE/4 SW/4, SW/4 SE/4						
	SEC. 31: LOTS 1, 2, 4, NW/4 NE/4, E/2 NW/4						
F-115	T-18N, R-29E	1360.00	NM-63274 10-30-87	USA - ALL	AMERADA HESS CORPORATION		AMERADA HESS CORPORATION 100%
	SEC. 24: NE/4, N/2 NW/4, E/2 SE/4						
	SEC. 26: NW/4 SW/4						
	SEC. 27: W/2 NW/4, S/2						
	SEC. 33: N/2						
	SEC. 34: N/2 NE/4, SE/4 NE/4, NE/4 NW/4, NE/4 SE/4, S/2 SE/4						
F-116	T-17N, R-29E	1436.28	NM-63275 12-31-87	USA - ALL	CO <sub>2</sub> -IN-ACTION	RIO PETRO LTD. 2.2%	CHEVRON U.S.A. INC. 100%
	SEC. 1: SE/4 SW/4						
	SEC. 5: W/2 SW/4						
	SEC. 6: LOTS 4, 5, 6, 7, SW/4 NE/4, SE/4 NW/4, E/2 SW/4, N/2 SE/4						

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EXHIBIT "B" - FIRST ENLARGEMENT TO  
WEST BRAVO DOME CO<sub>2</sub> GAS UNIT

PAGE THREE

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRATION DATE	PERCENTAGE OWNERSHIP OF RECORD	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
F-116 (CONT'D)	T-17N, R-29E						
	SEC. 7: LOTS 1, 2, 3, 4, E/2, E/2 W/2						
	SEC. 8: W/2 W/2						
	SEC. 13: NW/4 NE/4						
	SEC. 14: S/2 NE/4						
F-117	T-17N, R-29E	757.04	NM-63276 1-31-88	USA - ALL	CO <sub>2</sub> -IN-ACTION		CHEVRON U.S.A. INC. 100%
	SEC. 1: SW/4 NE/4, S/2 NW/4, N/2 SW/4, SE/4						
	SEC. 6: S/2 SE/4						
	SEC. 12: N/2 NE/4, SW/4 NE/4						
	SEC. 19: LOTS 1, 2, 3						
	SEC. 29: E/2 SE/4						
	SEC. 30: LOTS 1, 2, 3, 5						
F-118	T-17N, R-29E	40.00	NM-52573 6-30-92	USA - ALL	WILLIAM H. MARTIN, EDWARD H. JUDSON, AND R. KEN WILLIAMS	JAMES W. PHILLIPS 3%	WILLIAM H. MARTIN, EDWARD H. JUDSON, AND R. KEN WILLIAMS (INDIVIDUALLY AND IN EQUAL SHARES) 100%
	SEC. 19: NE/4 NW/4						

18 FEDERAL TRACTS CONTAINING 10,743.70 ACRES (6,867.24  
ADDITIONAL ACRES UNDER FIRST ENLARGEMENT) OR 21.48% OF THE UNIT AREA.

EXHIBIT "B" - FIRST ENLARGEMENT TO  
WEST BRAVO DOME CO<sub>2</sub> GAS UNIT

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & EXPIRA- TION DATE	PERCENTAGE OWNERSHIP OF RECORD	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE
S-508A	T-19N, R-29E SEC. 22: N/2, N/2 SE/4, NE/4 SW/4	440.00	L-5816-2 HRP	STATE OF NEW MEXICO - ALL	CITIES SERVICE OIL AND GAS CORPORATION		CITIES SERVICE OIL AND GAS CORPORATION 100%

28 STATE TRACTS CONTAINING 16,416.53 ACRES (440.00  
ADDITIONAL ACRES UNDER FIRST ENLARGEMENT) OR 32.82% OF UNIT AREA.

EXHIBIT OF PROPOSED ENLARGEMENT TO  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

TOWNSHIP 17 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

- Section 1: SW/4 NE/4, SE/4, N/2 SW/4,  
SE/4 SW/4, S/2 NW/4  
containing 400 acres, more or  
less;
- Section 5: W/2 SW/4  
containing 80 acres, more or  
less;
- Section 6: SW/4 NE/4, S/2, S/2 NW/4,  
NW/4 NW/4  
containing 478.12 acres,  
more or less;
- Section 7: All  
containing 638.16 acres,  
more or less;
- Section 8: W/2 W/2  
containing 160 acres,  
more or less;
- Section 12: N/2 NE/4, SW/4 NE/4  
containing 120 acres,  
more or less;
- Section 13: NW/4 NE/4  
containing 40 acres,  
more or less;
- Section 14: S/2 NE/4  
containing 80 acres,  
more or less;
- Section 19: Lots 1, 2, 3, NE/4 NW/4  
containing 83.76 acres,  
more or less;
- Section 29: E/2 SW/4  
containing 80 acres,  
more or less;

TOWNSHIP 17 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 30: Lots 1, 2, 3, and 5  
containing 73.28 acres,  
more or less;

TOWNSHIP 18 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 6: Lot 5  
containing 38.72 acres,  
more or less;

Section 10: N/2 NE/4  
containing 80 acres,  
more or less;

Section 11: E/2, N/2 NW/4, SE/4 NW/4  
containing 440 acres,  
more or less;

Section 12: SW/4 NE/4, N/2 SE/4, SW/4 SE/4  
containing 160 acres,  
more or less;

Section 13: W/2 E/2, SW/4  
containing 320 acres,  
more or less;

Section 14: NW/4 NE/4, SE/4  
containing 200 acres,  
more or less;

Section 22: N/2 SW/4, SW/4 SW/4  
containing 120 acres,  
more or less;

Section 24: NE/4, E/2 SE/4, N/2 NW/4  
containing 320 acres,  
more or less;

Section 26: NW/4 SW/4  
containing 40 acres,  
more or less;

Section 27: S/2, W/2 NW/4  
containing 400 acres,  
more or less;

TOWNSHIP 18 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

- Section 28: NE/4 NE/4, S/2 N/2, S/2  
containing 520 acres,  
more or less;
- Section 29: SE/4 NE/4, E/2 SE/4, SW/4 SE/4  
SE/4 SW/4  
containing 200 acres,  
more or less;
- Section 30: Lots 2, 3, 4, SE/4 SW/4,  
SW/4 SE/4  
containing 198.44 acres,  
more or less;
- Section 31: Lots 1, 2, 4, E/2 NW/4, NW/4 NE/4  
containing 238.25 acres,  
more or less;
- Section 33: N/2  
containing 320 acres,  
more or less;
- Section 34: E/2 E/2, NW/4 NE/4, SW/4 SE/4,  
NE/4 NW/4  
containing 280 acres,  
more or less;

TOWNSHIP 19 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

- Section 6: Lots 1, 2, 3, SW/4 NE/4, SE/4 NW/4  
containing 199.48 acres,  
more or less;
- Section 21: E/2 NE/4  
containing 80 acres,  
more or less;
- Section 22: N/2, N/2 SE/4, NE/4 SW/4  
containing 440 acres,  
more or less;
- Section 27: SE/4 NE/4, N/2 NW/4, SW/4 NW/4  
containing 160 acres,  
more or less;



TOWNSHIP 19 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 29: NE/4 NE/4  
containing 40 acres,  
more or less;

TOWNSHIP 20 NORTH, RANGE 29 EAST,  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 31: S/2 SE/4, SE/4 NW/4  
containing 120 acres,  
more or less;

Section 33: NW/4 NW/4  
containing 40 acres,  
more or less;

TOWNSHIP 18 NORTH, RANGE 30 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 19: W/2 SW/4, SW/4 NW/2  
containing 118.53 acres,  
more or less.

EXHIBIT OF PROPOSED ENLARGEMENT TO  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

PAGE FIVE

RECAPITULATION OF LANDS  
WITHIN FIRST ENLARGEMENT

<u>TYPE</u>	<u>ACRES</u>	<u>PERCENT</u>
Federal	6,867.24	93.97857
State	440.00	6.02143
Patented	<u>-0-</u>	<u>-0-</u>
TOTAL	7,307.24	1.0000000

RECAPITULATION OF LANDS  
AFTER APPROVAL OF FIRST ENLARGEMENT

<u>TYPE</u>	<u>ACRES</u>	<u>PERCENT</u>
Federal	10,743.70	21.47847
State	16,416.53	32.81942
Patented	<u>22,860.55</u>	<u>45.70211</u>
TOTAL	50,020.78	1.0000000

EXHIBIT OF PROPOSED ENLARGEMENT TO  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

TOWNSHIP 17 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

- Section 1: SW/4 NE/4, SE/4, N/2 SW/4,  
SE/4 SW/4, S/2 NW/4  
containing 400 acres, more or  
less;
- Section 5: W/2 SW/4  
containing 80 acres, more or  
less;
- Section 6: SW/4 NE/4, S/2, S/2 NW/4,  
NW/4 NW/4  
containing 478.12 acres,  
more or less;
- Section 7: All  
containing 638.16 acres,  
more or less;
- Section 8: W/2 W/2  
containing 160 acres,  
more or less;
- Section 12: N/2 NE/4, SW/4 NE/4  
containing 120 acres,  
more or less;
- Section 13: NW/4 NE/4  
containing 40 acres,  
more or less;
- Section 14: S/2 NE/4  
containing 80 acres,  
more or less;
- Section 19: Lots 1, 2, 3, NE/4 NW/4  
containing 83.76 acres,  
more or less;
- Section 29: E/2 SW/4  
containing 80 acres,  
more or less;

EXHIBIT OF PROPOSED ENLARGEMENT TO  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

PAGE TWO

TOWNSHIP 17 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 30: Lots 1, 2, 3, and 5  
containing 73.28 acres,  
more or less;

TOWNSHIP 18 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 6: Lot 5  
containing 38.72 acres,  
more or less;

Section 10: N/2 NE/4  
containing 80 acres,  
more or less;

Section 11: E/2, N/2 NW/4, SE/4 NW/4  
containing 440 acres,  
more or less;

Section 12: SW/4 NE/4, N/2 SE/4, SW/4 SE/4  
containing 160 acres,  
more or less;

Section 13: W/2 E/2, SW/4  
containing 320 acres,  
more or less;

Section 14: NW/4 NE/4, SE/4  
containing 200 acres,  
more or less;

Section 22: N/2 SW/4, SW/4 SW/4  
containing 120 acres,  
more or less;

Section 24: NE/4, E/2 SE/4, N/2 NW/4  
containing 320 acres,  
more or less;

Section 26: NW/4 SW/4  
containing 40 acres,  
more or less;

Section 27: S/2, W/2 NW/4  
containing 400 acres,  
more or less;

TOWNSHIP 18 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

- Section 28: NE/4 NE/4, S/2 N/2, S/2  
containing 520 acres,  
more or less;
- Section 29: SE/4 NE/4, E/2 SE/4, SW/4 SE/4  
SE/4 SW/4  
containing 200 acres,  
more or less;
- Section 30: Lots 2, 3, 4, SE/4 SW/4,  
SW/4 SE/4  
containing 198.44 acres,  
more or less;
- Section 31: Lots 1, 2, 4, E/2 NW/4, NW/4 NE/4  
containing 238.25 acres,  
more or less;
- Section 33: N/2  
containing 320 acres,  
more or less;
- Section 34: E/2 E/2, NW/4 NE/4, SW/4 SE/4,  
NE/4 NW/4  
containing 280 acres,  
more or less;

TOWNSHIP 19 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

- Section 6: Lots 1, 2, 3, SW/4 NE/4, SE/4 NW/4  
containing 199.48 acres,  
more or less;
- Section 21: E/2 NE/4  
containing 80 acres,  
more or less;
- Section 22: N/2, N/2 SE/4, NE/4 SW/4  
containing 440 acres,  
more or less;
- Section 27: SE/4 NE/4, N/2 NW/4, SW/4 NW/4  
containing 160 acres,  
more or less;

EXHIBIT OF PROPOSED ENLARGEMENT TO  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

PAGE FOUR

TOWNSHIP 19 NORTH, RANGE 29 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 29: NE/4 NE/4  
containing 40 acres,  
more or less;

TOWNSHIP 20 NORTH, RANGE 29 EAST,  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 31: S/2 SE/4, SE/4 NW/4  
containing 120 acres,  
more or less;

Section 33: NW/4 NW/4  
containing 40 acres,  
more or less;

TOWNSHIP 18 NORTH, RANGE 30 EAST  
OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

Section 19: W/2 SW/4, SW/4 NW/2  
containing 118.53 acres,  
more or less.

EXHIBIT OF PROPOSED ENLARGEMENT TO  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

PAGE FIVE

RECAPITULATION OF LANDS  
WITHIN FIRST ENLARGEMENT

<u>TYPE</u>	<u>ACRES</u>	<u>PERCENT</u>
Federal	6,867.24	93.97857
State	440.00	6.02143
Patented	<u>-0-</u>	<u>-0-</u>
TOTAL	7,307.24	1.0000000

RECAPITULATION OF LANDS  
AFTER APPROVAL OF FIRST ENLARGEMENT

<u>TYPE</u>	<u>ACRES</u>	<u>PERCENT</u>
Federal	10,743.70	21.47847
State	16,416.53	32.81942
Patented	<u>22,860.55</u>	<u>45.70211</u>
TOTAL	50,020.78	1.0000000

RATIFICATION OF  
THE FIRST ENLARGEMENT  
UNDER THE  
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Agreement") provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Operating Agreement") provides that an owner of a Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement; and

WHEREAS, the West Bravo Dome Carbon Dioxide Gas Unit became effective as of December 1, 1984, at 7:00 a.m., Mountain Standard Time, as found in the CERTIFICATE OF EFFECTIVENESS filed in Book 14 of O & G, Pages 388-389, Harding County, New Mexico; and

WHEREAS, it is desirous to enlarge the Unit Area to include acreage reasonably proved to be productive of Unitized Substances; and

WHEREAS, Article 12, ENLARGEMENTS OF UNIT AREA, found on pages 19 and 20 of the Unit Agreement provides for the "Working Interest Owners and owners of such acreage" to approve any such enlargement of the Unit Area; and

WHEREAS, each of the undersigned represents that it is either the owner of a Royalty Interest in one or more of the Tracts identified in exhibits describing the Enlargement acreage, or the owner of a Working Interest in the Unit Area as enlarged, or both.

NOW, THEREFORE, the undersigned owners of a Royalty Interest in the enlargement acreage:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, and C to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.



2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and hereby approve and otherwise ratify said Unit Agreement, if said owners have not previously so approved or ratified.

The undersigned owners of a Working Interest in the Unit Area as enlarged:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, C and F to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and the Unit Operating Agreement, as previously amended, and hereby approve and otherwise ratify said Unit Agreement and Unit Operating Agreement, if said owners have not previously so approved or ratified.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument on the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

ATTEST: \_\_\_\_\_ By \_\_\_\_\_

WORKING INTEREST OWNER

NAME:

DATE: March 14, 1986 \_\_\_\_\_ AMERADA HESS CORPORATION

DATE: \_\_\_\_\_ P. A. Dysert

ATTEST: [Signature] By P. A. DYSERT

Assistant Secretary

EXECUTIVE VICE-PRESIDENT [Signature]

STATE OF Oklahoma )  
COUNTY OF  Tulsa  ) SS.

(Corporation)

The foregoing instrument was acknowledged before me this 14th day of March, 19 86, by P. U. Dupert Executive, Vice President, of Amerada Hess Corp., a Delaware corporation, on behalf of said corporation.

My commission expires:

May 16, 1988

Jane Dahl  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Partnership)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, by \_\_\_\_\_, partner on behalf of \_\_\_\_\_, a partnership.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

RATIFICATION OF  
THE FIRST ENLARGEMENT  
UNDER THE  
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Agreement") provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Operating Agreement") provides that an owner of a Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement; and

WHEREAS, the West Bravo Dome Carbon Dioxide Gas Unit became effective as of December 1, 1984, at 7:00 a.m., Mountain Standard Time, as found in the CERTIFICATE OF EFFECTIVENESS filed in Book 14 of O & G, Pages 388-389, Harding County, New Mexico; and

WHEREAS, it is desirous to enlarge the Unit Area to include acreage reasonably proved to be productive of Unitized Substances; and

WHEREAS, Article 12, ENLARGEMENTS OF UNIT AREA, found on pages 19 and 20 of the Unit Agreement provides for the "Working Interest Owners and owners of such acreage" to approve any such enlargement of the Unit Area; and

WHEREAS, each of the undersigned represents that it is either the owner of a Royalty Interest in one or more of the Tracts identified in exhibits describing the Enlargement acreage, or the owner of a Working Interest in the Unit Area as enlarged, or both.

NOW, THEREFORE, the undersigned owners of a Royalty Interest in the enlargement acreage:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, and C to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.

2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and hereby approve and otherwise ratify said Unit Agreement, if said owners have not previously so approved or ratified.

The undersigned owners of a Working Interest in the Unit Area as enlarged:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, C and F to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and the Unit Operating Agreement, as previously amended, and hereby approve and otherwise ratify said Unit Agreement and Unit Operating Agreement, if said owners have not previously so approved or ratified.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument on the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

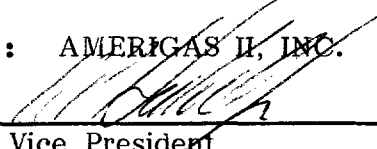
ATTEST: \_\_\_\_\_

By \_\_\_\_\_

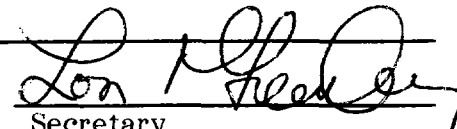
WORKING INTEREST OWNER

NAME: AMERICAS II, INC.

DATE: 2-25-86

By:   
Vice President

DATE: 

ATTEST:   
Secretary

By \_\_\_\_\_

## ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Individual)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_.

My commission expires:

Notary Public

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

(Married Couple)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_ and by \_\_\_\_\_, his wife.

My commission expires:

Notary Public

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

(Attorney-in-Fact)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_, as Attorney-in-Fact, on behalf of \_\_\_\_\_, a \_\_\_\_\_ corporation.

My commission expires:

Notary Public

STATE OF Texas )  
 ) SS.  
COUNTY OF Dallas )

(Corporation)

The foregoing instrument was acknowledged before me this  
25 day of February, 1986, by William P.  
Heckel, Jr., Vice President, of AmeriGas II, Inc., a Pennsylvania  
corporation, on behalf of said corporation.

My commission expires:

3-17-88

Teena G. Lambert  
Teena G. Lambert Notary Public

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

(Partnership)

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_, partner on behalf of \_\_\_\_\_, a partner-  
ship.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

RATIFICATION OF  
THE FIRST ENLARGEMENT  
UNDER THE  
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Agreement") provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Operating Agreement") provides that an owner of a Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement; and

WHEREAS, the West Bravo Dome Carbon Dioxide Gas Unit became effective as of December 1, 1984, at 7:00 a.m., Mountain Standard Time, as found in the CERTIFICATE OF EFFECTIVENESS filed in Book 14 of O & G, Pages 388-389, Harding County, New Mexico; and

WHEREAS, it is desirous to enlarge the Unit Area to include acreage reasonably proved to be productive of Unitized Substances; and

WHEREAS, Article 12, ENLARGEMENTS OF UNIT AREA, found on pages 19 and 20 of the Unit Agreement provides for the "Working Interest Owners and owners of such acreage" to approve any such enlargement of the Unit Area; and

WHEREAS, each of the undersigned represents that it is either the owner of a Royalty Interest in one or more of the Tracts identified in exhibits describing the Enlargement acreage, or the owner of a Working Interest in the Unit Area as enlarged, or both.

NOW, THEREFORE, the undersigned owners of a Royalty Interest in the enlargement acreage:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, and C to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.

2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and hereby approve and otherwise ratify said Unit Agreement, if said owners have not previously so approved or ratified.

The undersigned owners of a Working Interest in the Unit Area as enlarged:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, C and F to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and the Unit Operating Agreement, as previously amended, and hereby approve and otherwise ratify said Unit Agreement and Unit Operating Agreement, if said owners have not previously so approved or ratified.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument on the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

ATTEST: \_\_\_\_\_ By \_\_\_\_\_

WORKING INTEREST OWNER

NAME:

DATE: March 6, 1986 - CO<sub>2</sub> IN ACTION, INC.

DATE: \_\_\_\_\_ P. O. Box 2748, Amarillo, TX

ATTEST: *W. L. Lopez* By *Charles L. Leland*  
Assistant Secretary Vice-President  
Tax I.D. No. - 75-1581496



## ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

(Individual)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_.

My commission expires:

Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Married Couple)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_ and by \_\_\_\_\_, his wife.

My commission expires:

Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Attorney-in-Fact)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, by \_\_\_\_\_, as Attorney-in-Fact, on behalf of \_\_\_\_\_, a \_\_\_\_\_ corporation.

My commission expires:

Notary Public

STATE OF New Mexico )  
COUNTY OF Dutton ) SS.

(Corporation)

The foregoing instrument was acknowledged before me this 6th day of March, 19 86, by Chester Lambert, Vice President, of CD- In Action, a New Mexico corporation, on behalf of said corporation.

My commission expires:

August 24, 1988

Carla Jean Summy  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Partnership)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, by \_\_\_\_\_, partner on behalf of \_\_\_\_\_, a partnership.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

RATIFICATION OF  
THE FIRST ENLARGEMENT  
UNDER THE  
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Agreement") provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Operating Agreement") provides that an owner of a Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement; and

WHEREAS, the West Bravo Dome Carbon Dioxide Gas Unit became effective as of December 1, 1984, at 7:00 a.m., Mountain Standard Time, as found in the CERTIFICATE OF EFFECTIVENESS filed in Book 14 of O & G, Pages 388-389, Harding County, New Mexico; and

WHEREAS, it is desirous to enlarge the Unit Area to include acreage reasonably proved to be productive of Unitized Substances; and

WHEREAS, Article 12, ENLARGEMENTS OF UNIT AREA, found on pages 19 and 20 of the Unit Agreement provides for the "Working Interest Owners and owners of such acreage" to approve any such enlargement of the Unit Area; and

WHEREAS, each of the undersigned represents that it is either the owner of a Royalty Interest in one or more of the Tracts identified in exhibits describing the Enlargement acreage, or the owner of a Working Interest in the Unit Area as enlarged, or both.

NOW, THEREFORE, the undersigned owners of a Royalty Interest in the enlargement acreage:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, and C to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.

2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and hereby approve and otherwise ratify said Unit Agreement, if said owners have not previously so approved or ratified.

The undersigned owners of a Working Interest in the Unit Area as enlarged:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, C and F to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and the Unit Operating Agreement, as previously amended, and hereby approve and otherwise ratify said Unit Agreement and Unit Operating Agreement, if said owners have not previously so approved or ratified.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument on the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_


DATE: \_\_\_\_\_

ATTEST: \_\_\_\_\_ By \_\_\_\_\_

WORKING INTEREST OWNER

NAME: CITIES SERVICE OIL AND GAS CORPORATION

DATE: April 24, 1986

  
Charles J. Shelton, Attorney-in-Fact

DATE: \_\_\_\_\_

ATTEST: \_\_\_\_\_

By \_\_\_\_\_ *CS*

**ACKNOWLEDGMENT**

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Individual)

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Married Couple)

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_ and by \_\_\_\_\_, his wife.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF OKLAHOMA )  
COUNTY OF TULSA ) SS.

(Attorney-in-Fact)

The foregoing instrument was acknowledged before me this  
24th day of April, 19 86, by Charles J. Shelton  
PORATION, as Attorney-in-Fact, on behalf of CITIES SERVICE OIL AND GAS COR-  
Delaware corporation.

My commission expires:

September 6, 1987

Geraldine Waldschmidt  
Notary Public

RATIFICATION OF  
THE FIRST ENLARGEMENT  
UNDER THE  
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Agreement") provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Operating Agreement") provides that an owner of a Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement; and

WHEREAS, the West Bravo Dome Carbon Dioxide Gas Unit became effective as of December 1, 1984, at 7:00 a.m., Mountain Standard Time, as found in the CERTIFICATE OF EFFECTIVENESS filed in Book 14 of O & G, Pages 388-389, Harding County, New Mexico; and

WHEREAS, it is desirous to enlarge the Unit Area to include acreage reasonably proved to be productive of Unitized Substances; and

WHEREAS, Article 12, ENLARGEMENTS OF UNIT AREA, found on pages 19 and 20 of the Unit Agreement provides for the "Working Interest Owners and owners of such acreage" to approve any such enlargement of the Unit Area; and

WHEREAS, each of the undersigned represents that it is either the owner of a Royalty Interest in one or more of the Tracts identified in exhibits describing the Enlargement acreage, or the owner of a Working Interest in the Unit Area as enlarged, or both.

NOW, THEREFORE, the undersigned owners of a Royalty Interest in the enlargement acreage:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, and C to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.

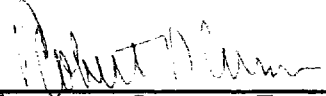
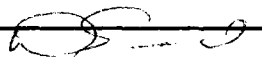
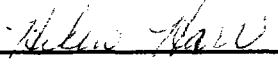
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and hereby approve and otherwise ratify said Unit Agreement, if said owners have not previously so approved or ratified.

The undersigned owners of a Working Interest in the Unit Area as enlarged:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, C and F to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and the Unit Operating Agreement, as previously amended, and hereby approve and otherwise ratify said Unit Agreement and Unit Operating Agreement, if said owners have not previously so approved or ratified.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument on the date set forth opposite its signature.

ROYALTY OWNER(S)

DATE:	<u>4-14-86</u>	NAME:	<u></u>
			<u>Robert P. Creson, Trustee</u>
DATE:	<u>4-14-86</u>		<u></u>
ATTEST:	<u></u>	By	<u>Don E. Williams, Trustee</u>

WORKING INTEREST OWNER

	NAME:	
DATE:	<u>                    </u>	<u>                    </u>
DATE:	<u>                    </u>	<u>                    </u>
ATTEST:	<u>                    </u>	By <u>                    </u>

**ACKNOWLEDGMENT**

STATE OF TEXAS )  
 ) SS.  
COUNTY OF DALLAS )

(Individual)

The foregoing instrument was acknowledged before me this  
14th day of April, 19 86, by Robert P. Creson  
and Don E. Williams, Trustees of the Public Lands Royalty Trust on behalf  
of said Trust.

My commission expires:

8-27-88

*Sandy Rapp*  
Notary Public

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

(Married Couple)

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_ and by \_\_\_\_\_, his wife.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

(Attorney-in-Fact)

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_, as Attorney-in-Fact, on behalf of \_\_\_\_\_  
\_\_\_\_\_, a \_\_\_\_\_ corporation.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public



STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Corporation)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, by \_\_\_\_\_, of \_\_\_\_\_, a \_\_\_\_\_ corporation, on behalf of said corporation.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Partnership)

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, by \_\_\_\_\_, partner on behalf of \_\_\_\_\_, a partnership.

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

RATIFICATION OF  
THE FIRST ENLARGEMENT  
UNDER THE  
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Agreement") provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Operating Agreement") provides that an owner of a Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement; and

WHEREAS, the West Bravo Dome Carbon Dioxide Gas Unit became effective as of December 1, 1984, at 7:00 a.m., Mountain Standard Time, as found in the CERTIFICATE OF EFFECTIVENESS filed in Book 14 of O & G, Pages 388-389, Harding County, New Mexico; and

WHEREAS, it is desirous to enlarge the Unit Area to include acreage reasonably proved to be productive of Unitized Substances; and

WHEREAS, Article 12, ENLARGEMENTS OF UNIT AREA, found on pages 19 and 20 of the Unit Agreement provides for the "Working Interest Owners and owners of such acreage" to approve any such enlargement of the Unit Area; and

WHEREAS, each of the undersigned represents that it is either the owner of a Royalty Interest in one or more of the Tracts identified in exhibits describing the Enlargement acreage, or the owner of a Working Interest in the Unit Area as enlarged, or both.

NOW, THEREFORE, the undersigned owners of a Royalty Interest in the enlargement acreage:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, and C to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.

2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and hereby approve and otherwise ratify said Unit Agreement, if said owners have not previously so approved or ratified.

The undersigned owners of a Working Interest in the Unit Area as enlarged:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, C and F to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and the Unit Operating Agreement, as previously amended, and hereby approve and otherwise ratify said Unit Agreement and Unit Operating Agreement, if said owners have not previously so approved or ratified.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument on the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:

DATE: \_\_\_\_\_

Rio Petro. Ltd. by Rio Petro Company

DATE: 4-14-86

ATTEST: William Davis

By

Don E. Williams, Vice President

WORKING INTEREST OWNER

NAME:

DATE: \_\_\_\_\_

\_\_\_\_\_

DATE: \_\_\_\_\_

\_\_\_\_\_

ATTEST: \_\_\_\_\_

By

\_\_\_\_\_

ACKNOWLEDGMENT

STATE OF \_\_\_\_\_ ) (Individual)  
COUNTY OF \_\_\_\_\_ ) SS.

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_.

My commission expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ ) (Married Couple)  
COUNTY OF \_\_\_\_\_ ) SS.

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
and by \_\_\_\_\_, his wife.

My commission expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ ) (Attorney-in-Fact)  
COUNTY OF \_\_\_\_\_ ) SS.

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_, as Attorney-in-Fact, on behalf of \_\_\_\_\_  
\_\_\_\_\_, a \_\_\_\_\_ corporation.

My commission expires:

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ ) (Corporation)  
COUNTY OF \_\_\_\_\_ ) SS.

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_, of \_\_\_\_\_, a \_\_\_\_\_  
corporation, on behalf of said corporation.

My commission expires:

\_\_\_\_\_  
Notary Public

STATE OF TEXAS ) (Partnership)  
COUNTY OF DALLAS ) SS.

The foregoing instrument was acknowledged before me this  
14th day of April, 19 86, by Don E. Williams,  
Vice President of Rio Petro Company, a Texas corporation, General Partner  
of Rio Petro, Ltd., a Texas limited partnership, on behalf of said partnership.

My commission expires:

2-17-88  
\_\_\_\_\_  
*Andy Parker*  
Notary Public

RATIFICATION OF  
THE FIRST ENLARGEMENT  
UNDER THE  
"UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Agreement") provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 ("Unit Operating Agreement") provides that an owner of a Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement; and

WHEREAS, the West Bravo Dome Carbon Dioxide Gas Unit became effective as of December 1, 1984, at 7:00 a.m., Mountain Standard Time, as found in the CERTIFICATE OF EFFECTIVENESS filed in Book 14 of O & G, Pages 388-389, Harding County, New Mexico; and

WHEREAS, it is desirous to enlarge the Unit Area to include acreage reasonably proved to be productive of Unitized Substances; and

WHEREAS, Article 12, ENLARGEMENTS OF UNIT AREA, found on pages 19 and 20 of the Unit Agreement provides for the "Working Interest Owners and owners of such acreage" to approve any such enlargement of the Unit Area; and

WHEREAS, each of the undersigned represents that it is either the owner of a Royalty Interest in one or more of the Tracts identified in exhibits describing the Enlargement acreage, or the owner of a Working Interest in the Unit Area as enlarged, or both.

NOW, THEREFORE, the undersigned owners of a Royalty Interest in the enlargement acreage:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, and C to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.

2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and hereby approve and otherwise ratify said Unit Agreement, if said owners have not previously so approved or ratified.

The undersigned owners of a Working Interest in the Unit Area as enlarged:

1. Hereby acknowledge receipt of First Enlargement Exhibits A, B, C and F to the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, showing the addition of Tracts F-110 to F-117 and Tract S-508A and hereby approve said enlargement of the Unit Area.
2. Hereby acknowledge receipt of a full and correct copy of the Unit Agreement and the Unit Operating Agreement, as previously amended, and hereby approve and otherwise ratify said Unit Agreement and Unit Operating Agreement, if said owners have not previously so approved or ratified.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument on the date set forth opposite its signature.

ROYALTY OWNER(S)

DATE: 4-10-86 NAME: George L. Scott  
DATE: \_\_\_\_\_  
ATTEST: \_\_\_\_\_ By \_\_\_\_\_

WORKING INTEREST OWNER

NAME: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ATTEST: \_\_\_\_\_ By \_\_\_\_\_

ACKNOWLEDGMENT

STATE OF New Mexico )  
COUNTY OF Chaves ) SS.

(Individual)

The foregoing instrument was acknowledged before me this  
10th day of April, 19 86, by George L. Scott.

My commission expires:

February 27, 1989

Alan E. Hill

Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Married Couple)

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
and by \_\_\_\_\_, his wife.

My commission expires:

\_\_\_\_\_

Notary Public

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.

(Attorney-in-Fact)

The foregoing instrument was acknowledged before me this  
\_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_, as Attorney-in-Fact, on behalf of \_\_\_\_\_  
\_\_\_\_\_, a \_\_\_\_\_ corporation.

My commission expires:

\_\_\_\_\_

Notary Public



EXHIBIT F  
PART I  
SUMMARY BY TRACT  
TO  
UNIT OPERATING AGREEMENT  
WEST BRAVO CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

<u>Tract No.</u>	<u>Working Interest Owner</u>	<u>Working Interest</u>	<u>Unit Participation</u>
F-101	Amerada Hess Corporation	1.0000000	.0199917
F-102	Amerada Hess Corporation	1.0000000	.0135316
F-103	Chevron U.S.A. Inc.	1.0000000	.0063861
F-104	Chevron U.S.A. Inc.	1.0000000	.0192052
F-105	Chevron U.S.A. Inc.	1.0000000	.0071970
F-106	Amerada Hess Corporation	1.0000000	.0015893
F-107	Amerada Hess Corporation	1.0000000	.0063973
F-108	Chevron U.S.A. Inc.	1.0000000	.0007997
F-109	Chevron U.S.A. Inc.	1.0000000	.0023990
F-110	Chevron U.S.A. Inc.	1.0000000	.0031987
F-111	Amerada Hess Corporation	1.0000000	.0023696
F-112	Amerada Hess Corporation	1.0000000	.0095856
F-113	Amerada Hess Corporation	1.0000000	.0239900
F-114	Chevron U.S.A. Inc.	1.0000000	.0263073
F-115	Amerada Hess Corporation	1.0000000	.0271887
F-116	Chevron U.S.A. Inc.	1.0000000	.0287137
F-117	Chevron U.S.A. Inc.	1.0000000	.0151345
F-118	Martin, Judson, and Williams (Individually and in equal shares)	1.0000000	.0007997
S-501	Cities Service Oil and Gas Corporation	1.0000000	.0103957
S-502	Cities Service Oil and Gas Corporation	1.0000000	.0127947
S-503	Cities Service Oil and Gas Corporation	1.0000000	.0183924
S-504	Cities Service Oil and Gas Corporation	1.0000000	.0151937

<u>Tract No.</u>	<u>Working Interest Owner</u>	<u>Working Interest</u>	<u>Unit Participation</u>
S-505	Cities Service Oil and Gas Corporation	1.0000000	.0047884
S-506	Cities Service Oil and Gas Corporation	1.0000000	.0191590
S-507	Cities Service Oil and Gas Corporation	1.0000000	.0127947
S-508	Cities Service Oil and Gas Corporation	1.0000000	.0159934
S-508 A	Cities Service Oil and Gas Corporation	1.0000000	.0087963
S-509	Cities Service Oil and Gas Corporation	1.0000000	.0143940
S-510	Cities Service Oil and Gas Corporation	1.0000000	.0126140
S-511	Cities Service Oil and Gas Corporation	1.0000000	.0174415
S-512	Cities Service Oil and Gas Corporation	1.0000000	.0007997
S-513	Cities Service Oil and Gas Corporation	1.0000000	.0127039
S-514	Cities Service Oil and Gas Corporation	1.0000000	.0095196
S-515	Cities Service Oil and Gas Corporation	1.0000000	.0087632
S-516	Amerada Hess Corporation	1.0000000	.0240042
S-517	Amerada Hess Corporation	1.0000000	.0063430
S-518	Chevron U.S.A. Inc.	1.0000000	.0182312
S-519	Amerada Hess Corporation	1.0000000	.0175927
S-520	Amerada Hess Corporation	1.0000000	.0215910
S-521	Chevron U.S.A. Inc.	1.0000000	.0231284
S-522	Chevron U.S.A. Inc.	1.0000000	.0063973
S-523	Chevron U.S.A. Inc.	1.0000000	.0107645
S-524	Cities Service Oil and Gas Corporation	1.0000000	.0007997
S-525	Cities Service Oil and Gas Corporation	1.0000000	.0031987
S-526	Cities Service Oil and Gas Corporation	1.0000000	.0007997
S-527	Cities Service Oil and Gas Corporation	1.0000000	.0007997
2001	Cities Service Oil and Gas Corporation	.6666667	.0042457
	Chevron U.S.A. Inc.	<u>.3333333</u>	<u>.0021228</u>
		1.0000000	.0063685

<u>Tract No.</u>	<u>Working Interest Owner</u>	<u>Working Interest</u>	<u>Unit Participation</u>
2002	Cities Service Oil and Gas Corporation	1.0000000	.0031987
2003	Cities Service Oil and Gas Corporation	1.0000000	.0086808
2004	Cities Service Oil and Gas Corporation CO <sub>2</sub> -In-Action, Inc.	.5000000 <u>.5000000</u> 1.0000000	.0023990 <u>.0023990</u> .0047980
2005	Cities Service Oil and Gas Corporation	1.0000000	.0039492
2006	Cities Service Oil and Gas Corporation	1.0000000	.0079631
2007	Cities Service Oil and Gas Corporation	1.0000000	.0343857
2008	Cities Service Oil and Gas Corporation CO <sub>2</sub> -In-Action, Inc.	.6666667 <u>.3333333</u> 1.0000000	.0037318 <u>.0018659</u> .0055977
2009	Cities Service Oil and Gas Corporation CO <sub>2</sub> -In-Action, Inc.	.8333333 <u>.1666667</u> 1.0000000	.0026656 <u>.0005331</u> .0031987
2010	Cities Service Oil and Gas Corporation Chevron U.S.A. Inc.	.5000000 <u>.5000000</u> 1.0000000	.0062726 <u>.0062726</u> .0125452
2011	Amerada Hess Corporation Cities Service Oil and Gas Corporation Chevron U.S.A. Inc.	.2500000 .5000000 <u>.2500000</u> 1.0000000	.0005914 .0011828 <u>.0005914</u> .0023656
2012	Cities Service Oil and Gas Corporation	1.0000000	.0190225
2013	Cities Service Oil and Gas Corporation	1.0000000	.0030179
2014	Cities Service Oil and Gas Corporation	1.0000000	.0311946
2015	Cities Service Oil and Gas Corporation	1.0000000	.0063973
2016	Cities Service Oil and Gas Corporation	1.0000000	.0007997
2017	Cities Service Oil and Gas Corporation	1.0000000	.0071970
2018	Cities Service Oil and Gas Corporation	1.0000000	.0095960
2019	Cities Service Oil and Gas Corporation	1.0000000	.0131945
2020	Amerada Hess Corporation Cities Service Oil and Gas Corporation	.3333333 <u>.6666667</u> 1.0000000	.0031606 <u>.0063213</u> .0094819

<u>Tract No.</u>	<u>Working Interest Owner</u>	<u>Working Interest</u>	<u>Unit Participation</u>
2021	Amerada Hess Corporation Cities Service Oil and Gas Corporation	.5000000 <u>.5000000</u> 1.0000000	.0015814 <u>.0015815</u> .0031629
2022	Cities Service Oil and Gas Corporation	1.0000000	.0263766
2023	Cities Service Oil and Gas Corporation	1.0000000	.0039983
2024	Cities Service Oil and Gas Corporation	1.0000000	.0015993
2025	Cities Service Oil and Gas Corporation	1.0000000	.0015993
2026	Cities Service Oil and Gas Corporation	1.0000000	.0130500
2027	Cities Service Oil and Gas Corporation	1.0000000	.0031367
2028	Cities Service Oil and Gas Corporation	1.0000000	.0576252
2029	Cities Service Oil and Gas Corporation Unleased	.7500000 <u>.2500000</u> 1.0000000	.0023990 <u>.0007997</u> .0031987
2030	Cities Service Oil and Gas Corporation	1.0000000	.0067700
2031	Cities Service Oil and Gas Corporation Chevron U.S.A. Inc.	.5000000 <u>.5000000</u> 1.0000000	.0015994 <u>.0015993</u> .0031987
2032	Amerada Hess Corporation Cities Service Oil and Gas Corporation Chevron U.S.A. Inc.	.2000000 .5000000 <u>.3000000</u> 1.0000000	.0019192 .0047980 <u>.0028788</u> .0095960
2033	Amerada Hess Corporation	1.0000000	.0064557
2034	Amerada Hess Corporation CO <sub>2</sub> -In-Action, Inc.	.2222222 <u>.7777778</u> 1.0000000	.0003554 <u>.0012439</u> .0015993
2035	Chevron U.S.A. Inc.	1.0000000	.0031987
2036	Chevron U.S.A. Inc.	1.0000000	.0059975
2037	Chevron U.S.A. Inc.	1.0000000	.0023990
2038	CO <sub>2</sub> -In-Action, Inc.	1.0000000	.0063973
2039	Cities Service Oil and Gas Corporation	1.0000000	.0007997

<u>Tract No.</u>	<u>Working Interest Owner</u>	<u>Working Interest</u>	<u>Unit Participation</u>
2040	Cities Service Oil and Gas Corporation Chevron U.S.A. Inc.	.5000000 <u>.5000000</u> 1.0000000	.0003999 <u>.0003998</u> .0007997
2041	Cities Service Oil and Gas Corporation Chevron U.S.A. Inc.	.5000000 <u>.5000000</u> 1.0000000	.0003999 <u>.0003998</u> .0007997
2042	Chevron U.S.A. Inc.	1.0000000	.0047980
2043	Amerada Hess Corporation	1.0000000	.0007997
2044	Chevron U.S.A. Inc.	1.0000000	.0026475
2045	Chevron U.S.A. Inc.	1.0000000	.0023072
2046	Chevron U.S.A. Inc.	1.0000000	.0035985
2047	Chevron U.S.A. Inc.	1.0000000	.0031987
2048	Chevron U.S.A. Inc.	1.0000000	.0031987
2049	Chevron U.S.A. Inc.	1.0000000	.0007997
2050	CO <sub>2</sub> -In-Action, Inc.	1.0000000	.0032093
2051	Chevron U.S.A. Inc.	1.0000000	.0015993
2052	Amerada Hess Corporation	1.0000000	.0023990
2053	CO <sub>2</sub> -In-Action, Inc. Unleased	.9500000 <u>.0500000</u> 1.0000000	.0030129 <u>.0001586</u> .0031715
2054	Amerada Hess Corporation	1.0000000	.0055695
2055	Amerada Hess Corporation	1.0000000	.0031987
2056	Chevron U.S.A. Inc.	1.0000000	.0039983
2057	Chevron U.S.A. Inc.	1.0000000	.0007997
2058	Chevron U.S.A. Inc.	1.0000000	.0095960
2059	Amerada Hess Corporation	1.0000000	.0007997
2060	Cities Service Oil and Gas Corporation	1.0000000	.0007997
2061	Chevron U.S.A. Inc.	1.0000000	.0063973
2062	Chevron U.S.A. Inc.	1.0000000	.0015643

<u>Tract No.</u>	<u>Working Interest Owner</u>	<u>Working Interest</u>	<u>Unit Participation</u>
2063	Cities Service Oil and Gas Corporation	.3750000	.0023311
	CO <sub>2</sub> -In-Action, Inc.	.5000000	.0031081
	Unleased	<u>.1250000</u>	<u>.0007770</u>
		1.0000000	.0062162
2064	Chevron U.S.A. Inc.	1.0000000	.0079967
2065	Chevron U.S.A. Inc.	1.0000000	.0055977
2066	Chevron U.S.A. Inc.	1.0000000	.0047328
2067	CO <sub>2</sub> -In-Action, Inc.	1.0000000	.0023990
2068	Unleased	1.0000000	.0013994
2069	Cities Service Oil and Gas Corporation	1.0000000	.0001179
2070	Amerada Hess Corporation	1.0000000	.0047706
2071	Chevron U.S.A. Inc.	1.0000000	.0007815
2072	Amerigas II, Inc.	1.0000000	.0031175
2073	CO <sub>2</sub> -In-Action, Inc.	1.0000000	.0007305

PART II  
SUMMARY BY WORKING INTEREST OWNER

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation</u>
Amerada Hess Corporation	F-101	.0199917
	F-102	.0135316
	F-106	.0015893
	F-107	.0063973
	F-111	.0023696
	F-112	.0095856
	F-113	.0239900
	F-115	.0271887
	S-516	.0240042
	S-517	.0063430
	S-519	.0175927
	S-520	.0215910
	2011	.0005914
	2020	.0031606
	2021	.0015814
	2032	.0019192
	2033	.0064557
	2034	.0003554
	2043	.0007997
	2052	.0023990
	2054	.0055695
	2055	.0031987
	2059	.0007997
	2070	<u>.0047706</u>
		.2057756
Amerigas II, Inc.	2072	.0031175
Chevron U.S.A. Inc.	F-103	.0063861
	F-104	.0192052
	F-105	.0071970
	F-108	.0007997
	F-109	.0023990
	F-110	.0031987
	F-114	.0263073
	F-116	.0287137
	F-117	.0151345
	S-518	.0182312
	S-521	.0231284
	S-522	.0063973
	S-523	.0107645
	2001	.0021228
	2010	.0062726
	2011	.0005914
	2031	.0015993
	2032	.0028788
	2035	.0031987

PART II  
SUMMARY BY WORKING INTEREST OWNER

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation</u>
Chevron U.S.A. Inc. (Cont'd)	2036	.0059975
	2037	.0023990
	2040	.0003998
	2041	.0003998
	2042	.0047980
	2044	.0026475
	2045	.0023072
	2046	.0035985
	2047	.0031987
	2048	.0031987
	2049	.0007997
	2051	.0015993
	2056	.0039983
	2057	.0007997
	2058	.0095960
	2061	.0063973
	2062	.0015643
	2064	.0079967
	2065	.0055977
	2066	.0047328
	2071	<u>.0007815</u>
		.2573342
Cities Service Oil and Gas Corporation	S-501	.0103957
	S-502	.0127947
	S-503	.0183924
	S-504	.0151937
	S-505	.0047884
	S-506	.0191590
	S-507	.0127947
	S-508	.0159934
	S-508 A	.0087963
	S-509	.0143940
	S-510	.0126140
	S-511	.0174415
	S-512	.0007997
	S-513	.0127039
	S-514	.0095196
	S-515	.0087632
	S-524	.0007997
	S-525	.0031987
	S-526	.0007997
	S-527	.0007997
	2001	.0042457
	2002	.0031987
	2003	.0086808
	2004	.0023990
	2005	.0039492



PART II  
SUMMARY BY WORKING INTEREST OWNER

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation</u>
Cities Service Oil and Gas Corporation (Cont'd)	2006	.0079631
	2007	.0343857
	2008	.0037318
	2009	.0026656
	2010	.0062726
	2011	.0011828
	2012	.0190225
	2013	.0030179
	2014	.0311946
	2015	.0063973
	2016	.0007997
	2017	.0071970
	2018	.0095960
	2019	.0131945
	2020	.0063213
	2021	.0015815
	2022	.0263766
	2023	.0039983
	2024	.0015993
	2025	.0015993
	2026	.0130500
	2027	.0031367
	2028	.0576252
	2029	.0023990
	2030	.0067700
	2031	.0015994
	2032	.0047980
	2039	.0007997
	2040	.0003999
	2041	.0003999
	2060	.0007997
	2063	.0023311
	2069	<u>.0001179</u>
		.5049393
CO <sub>2</sub> -In-Action, Inc.	2004	.0023990
	2008	.0018659
	2009	.0005331
	2034	.0012439
	2038	.0063973
	2050	.0032093
	2053	.0030129
	2063	.0031081
	2067	.0023990
	2073	<u>.0007305</u>
		.0248990

PART II  
SUMMARY BY WORKING INTEREST OWNER

<u>Working Interest Owner</u>	<u>Tract No.</u>	<u>Unit Participation</u>
William H. Martin, Edward H. Judson, and R. Ken Williams (individually and in equal shares)	F-118	<u>.0007997</u> .0007997
Unleased	2029	.0007997
	2053	.0001586
	2063	.0007770
	2068	<u>.0013994</u> .0031347

PART III  
SUMMARY

<u>Working Interest Owner</u>	<u>Total % Unit Participation</u>
Amerada Hess Corporation	.2057756
Amerigas II, Inc.	.0031175
Chevron U.S.A. Inc.	.2573342
Cities Service Oil and Gas Corporation	.5049393
CO <sub>2</sub> -In-Action, Inc.	.0248990
William H. Martin, Edward H. Judson, and R. Ken Williams (individually and in equal shares)	.0007997
Unleased	<u>.0031347</u>
	1.0000000



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

September 14, 1984

TO ALL WORKING INTEREST OWNERS:  
(See attached list)

RE: Amendment to Unit Operating  
Agreement West Bravo Dome  
Carbon Dioxide Gas Unit,  
Harding County, New Mexico

Gentlemen:

It has come to our attention that there may be a conflict of interpretation as to Sections 5.2 Redetermination of Tract Participations on pages 10 and 11 of the Unit Agreement and Section 2.2 Revision of Exhibits on page 2 of the Unit Operating Agreement. As stated in the Unit Agreement under Sub-Section 5.2.1 "Those tracts having no Productive Acres shall be automatically eliminated from the Unit Area, and no payments made to any of the Royalty Owners of such eliminated Tracts under the Initial Tract Participation shall be further accounted for".

Since the payments to and obligations of the Working Interest Owners will continue to be based on the Unit Participation which includes those Tracts eliminated from the Unit Area under the Redetermination of Tract Participations, the following additional language shall be inserted at the end of the existing Section 2.2 on page 2 of the Unit Operating Agreement.

Notwithstanding the foregoing language any revision of Exhibits A, B and C in accordance with Sections 5.2 Redetermination of Tract Participations or sub-sections thereof, found on pages 10 and 11 of the Unit Agreement, will not be reflected at any time as a revision of Exhibit F.


If you are in agreement with this proposal, please execute one copy of this letter and return it to Charles E. Creekmore at the above address.


All Working Interest Owners  
September 14, 1984  
Page No. 2

This amendment may be executed with each copy being treated as an original for all purposes.

Yours very truly,


CITIES SERVICE OIL AND GAS CORPORATION

  
Charles J. Shelton  
Attorney-in-Fact

APPROVED
A.M.C.

JCH

AGREED TO AND ACCEPTED THIS 14<sup>th</sup>  
DAY OF FEBRUARY, 1984  
5

AMERADA HESS CORPORATION

By   
J. R. ENLOE - V. PRESIDENT TECHNICAL SERVICES

CJS/dln



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

September 14, 1984

TO ALL WORKING INTEREST OWNERS:  
(See attached list)

RE: Amendment to Unit Operating  
Agreement West Bravo Dome  
Carbon Dioxide Gas Unit,  
Harding County, New Mexico

Gentlemen:

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All Working Interest Owners  
September 14, 1984  
Page No. 2

This amendment may be executed with each copy being treated as an original for all purposes.

Yours very truly,

CITIES SERVICE OIL AND GAS CORPORATION



Charles J. Shelton  
Attorney-in-Fact

AGREED TO AND ACCEPTED THIS 30th  
DAY OF November, 1984.

AmeriGas II, Inc.

By [Signature]  
President

CJS/dln



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

September 14, 1984

TO ALL WORKING INTEREST OWNERS:  
(See attached list)

RE: Amendment to Unit Operating  
Agreement West Bravo Dome  
Carbon Dioxide Gas Unit,  
Harding County, New Mexico

Gentlemen:

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All Working Interest Owners  
September 14, 1984  
Page No. 2

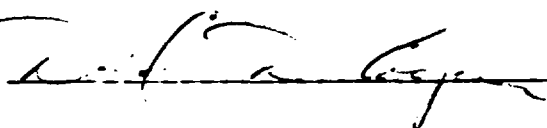
This amendment may be executed with each copy being treated as an original for all purposes.

Yours very truly,

CITIES SERVICE OIL AND GAS CORPORATION

  
\_\_\_\_\_  
Charles J. Shelton  
Attorney-in-Fact

AGREED TO AND ACCEPTED THIS 20th  
DAY OF September, 1984.

CO<sub>2</sub> In Action, Inc.  
\_\_\_\_\_  
By \_\_\_\_\_

CJS/dln



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

September 14, 1984

TO ALL WORKING INTEREST OWNERS:  
(See attached list)

RE: Amendment to Unit Operating  
Agreement West Bravo Dome  
Carbon Dioxide Gas Unit,  
Harding County, New Mexico

Gentlemen:

It has come to our attention that there may be a conflict of interpretation as to Sections 5.2 Redetermination of Tract Participations on pages 10 and 11 of the Unit Agreement and Section 2.2 Revision of Exhibits on page 2 of the Unit Operating Agreement. As stated in the Unit Agreement under Sub-Section 5.2.1 "Those tracts having no Productive Acres shall be automatically eliminated from the Unit Area, and no payments made to any of the Royalty Owners of such eliminated Tracts under the Initial Tract Participation shall be further accounted for".

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If you are in agreement with this proposal, please execute one copy of this letter and return it to Charles E. Creekmore at the above address.

All Working Interest Owners  
September 14, 1984  
Page No. 2

This amendment may be executed with each copy being treated  
as an original for all purposes.

Yours very truly,

CITIES SERVICE OIL AND GAS CORPORATION



Charles J. Shelton  
Attorney-in-Fact

AGREED TO AND ACCEPTED THIS 21<sup>st</sup>  
DAY OF September, 1984.

GULF OIL CORPORATION

By



Attorney-in-Fact

JSP

CJS/dln

CITIES SERVICE OIL AND GAS CORPORATION  
BOX 3908  
TULSA, OKLAHOMA 74102  
October 23, 1984

TO ALL WORKING INTEREST OWNERS:  
(See Attached List)

Re: Second Amendment to Unit  
Operating Agreement West Bravo  
Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

A review of the above captioned Unit Operating Agreement has brought to our attention that Section 15.1 has not been modified to include the Tax Partnership provisions described under Exhibit I thereto. Accordingly, in order to properly reflect the intentions of parties to this Agreement and for consistency purposes with Exhibit I, Tax Partnership, it is hereby agreed to delete the present language under Section 15.1 of said Unit Operating Agreement and substitute the following:

"15.1 Tax Partnership Provisions. See  
Exhibit I attached and made a part hereof."

It is further agreed that the Table of Contents for said Agreement will be changed to reflect the title modification.

If you are in agreement with this letter amendment as described hereinabove, please execute one copy and return it to the attention of Charles E. Creekmore.

This amendment may be executed with each copy being treated as an original for all purposes.

Yours very truly,

CITIES SERVICE OIL AND GAS CORPORATION

Charles J. Shelton  
Charles J. Shelton  
Attorney-In-Fact

CEC

Accepted and Agreed to this  
8 day of February, 1984

AMERADA HESS CORPORATION

By J. R. Enloe  
J. R. ENLOE - V.P. TECHNICAL SERVICES

APPROVED
A.H.C.
<i>[Signature]</i>
<i>[Signature]</i>
<i>[Signature]</i>
SCH

CITIES SERVICE OIL AND GAS CORPORATION

BOX 3908

TULSA, OKLAHOMA 74102

October 23, 1984

TO ALL WORKING INTEREST OWNERS:

(See Attached List)

Re: Second Amendment to Unit  
Operating Agreement West Bravo  
Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

A review of the above captioned Unit Operating Agreement has brought to our attention that Section 15.1 has not been modified to include the Tax Partnership provisions described under Exhibit I thereto. Accordingly, in order to properly reflect the intentions of parties to this Agreement and for consistency purposes with Exhibit I, Tax Partnership, it is hereby agreed to delete the present language under Section 15.1 of said Unit Operating Agreement and substitute the following:

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If you are in agreement with this letter amendment as described hereinabove, please execute one copy and return it to the attention of Charles E. Creekmore.

This amendment may be executed with each copy being treated as an original for all purposes.

Yours very truly,

CITIES SERVICE OIL AND GAS CORPORATION




Charles J. Shelton  
Attorney-In-Fact

CEC

Accepted and Agreed to this  
30th day of November, 1984

AmeriGas II, Inc.

By

  
Resident

CITIES SERVICE OIL AND GAS CORPORATION  
BOX 3908  
TULSA, OKLAHOMA 74102  
October 23, 1984

TO ALL WORKING INTEREST OWNERS:  
(See Attached List)

Re: Second Amendment to Unit  
Operating Agreement West Bravo  
Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

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Exhibit I attached and made a part hereof."


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If you are in agreement with this letter amendment as described hereinabove, please execute one copy and return it to the attention of Charles E. Creekmore.

This amendment may be executed with each copy being treated as an original for all purposes.

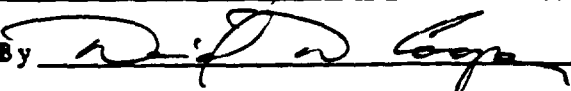
Yours very truly,

CITIES SERVICE OIL AND GAS CORPORATION

  
\_\_\_\_\_  
Charles J. Shelton  
Attorney-In-Fact

CEC

Accepted and Agreed to this  
29th day of October, 1984

CO2 In Action, Inc.  
By  \_\_\_\_\_

CITIES SERVICE OIL AND GAS CORPORATION  
BOX 3908  
TULSA, OKLAHOMA 74102  
October 23, 1984

TO ALL WORKING INTEREST OWNERS:  
(See Attached List)

Re: Second Amendment to Unit  
Operating Agreement West Bravo  
Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

A review of the above captioned Unit Operating Agreement has brought to our attention that Section 15.1 has not been modified to include the Tax Partnership provisions described under Exhibit I thereto. Accordingly, in order to properly reflect the intentions of parties to this Agreement and for consistency purposes with Exhibit I, Tax Partnership, it is hereby agreed to delete the present language under Section 15.1 of said Unit Operating Agreement and substitute the following:

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Exhibit I attached and made a part hereof."

It is further agreed that the Table of Contents for said Agreement will be changed to reflect the title modification.

If you are in agreement with this letter amendment as described hereinabove, please execute one copy and return it to the attention of Charles E. Creekmore.

This amendment may be executed with each copy being treated as an original for all purposes.

Yours very truly,

CITIES SERVICE OIL AND GAS CORPORATION

  
Charles J. Shelton  
Attorney-In-Fact

CEC

Accepted and Agreed to this  
9 day of November 1984

GULF OIL CORPORATION

By   
Attorney-in-Fact

RECEIVED

OCT 27 1984

JOINT INTEREST  
Midland



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

February 18, 1986

THIRD AMENDMENT TO THE UNIT OPERATING AGREEMENT

WORKING INTEREST OWNERS:  
(See attached list)

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

Gentlemen:

Working Interest Owners hereby agree to rescind and substitute the following language for Section 20.2, Shut-in Well Payments, of the Unit Operating Agreement:

"If any well is completed in the Unitized Formation pursuant to the Unit Agreement as a gas well and is shut-in due to the lack of a market or for any other reason, Unit Operator shall notify all of the Working Interest Owners of such action. Said notice by Unit Operator shall be at least (5) days (excluding Saturday, Sunday, and legal holidays), or at the earliest opportunity permitted by the circumstances, prior to taking such action, but Unit Operator assumes no liability for failure to do so. In the event of failure by Operator to so notify Working Interest Owners, the loss of any lease contributed hereto by Working Interest Owners for failure to make timely payments of any shut-in well payment shall be borne jointly by the Working Interest Owners hereto under the provisions of Section 13.4 hereof. Shut-in well payments which may be required either under the terms of any lease or under the terms of the Unit Agreement shall be paid by the Working Interest Owner(s) who committed such lease to the Unit Area at its or their own expense. If, through mistake or oversight, any shut-in well payment is not paid or is erroneously paid, and as a result a lease or interest therein terminates, such failure shall be treated the same as a failure of title and shall be subject to the terms and provisions of Section 13.3 hereof."



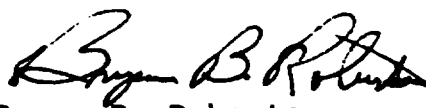
This change shall be retroactive and effective as of the Effective Date (December 1, 1984). Working Interest Owners hereby acknowledge previous notice that all existing Unit wells were shut-in on the Effective Date and that Unit Operator has not drilled any additional wells between the Effective Date and the date of this letter.

If you are in agreement with this proposal, please execute one (1) copy of this letter and return it to Charles E. Creekmore in the self-addressed, return envelope.

This Ballot may be executed with each copy being treated as an original for all purposes.

Yours very truly,

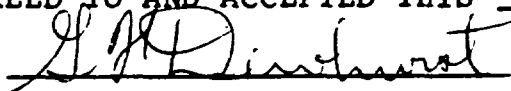
CITIES SERVICE OIL AND  
GAS CORPORATION

  
Bryan B. Roberts  
Attorney-in-Fact CEC



BBR/CEC/gw  
Encl.

AGREED TO AND ACCEPTED THIS 26 DAY OF February, 1986.

By



G. F. Dewhurst  
Vice President

APPROVED
A.H.C.

SEH

HC

WEST BRAVO DOME CO<sub>2</sub> GAS UNIT  
HARDING COUNTY, NEW MEXICO

WORKING INTEREST OWNERS

AMERADA HESS CORPORATION  
218 W. 6TH STREET  
TULSA, OK 74102  
ATTN: Mr. J. C. Hefley

AMERIGAS, INC.  
CARBON DIOXIDE DIVISION  
4455 LBJ FREEWAY, STE. 1000  
DALLAS, TX 75234  
ATTN: MR. W. P. HECKEL, JR.

AMERIGAS, INC.  
U.G.I. CORPORATION  
IRWIN BUILDING  
460 N. GULPH RD.  
KING OF PRUSSIA, PA 19406  
ATTN: MR. DAVID KNIPEL

CHEVRON U.S.A. INC.  
700 S. COLORADO BLVD.  
DENVER, CO 80222  
ATTN: MR. R. L. HODGES

CO<sub>2</sub>-IN-ACTION  
4TH FLOOR, SUITE 400  
FIRST NATIONAL BANK BUILDING  
8TH AND FILLMORE  
AMARILLO, TX 79101  
ATTN: MR. DAVID COOPER



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

February 18, 1986

THIRD AMENDMENT TO THE UNIT OPERATING AGREEMENT

WORKING INTEREST OWNERS:  
(See attached list)

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

Gentlemen:

Working Interest Owners hereby agree to rescind and substitute the following language for Section 20.2, Shut-in Well Payments, of the Unit Operating Agreement:

"If any well is completed in the Unitized Formation pursuant to the Unit Agreement as a gas well and is shut-in due to the lack of a market or for any other reason, Unit Operator shall notify all of the Working Interest Owners of such action. Said notice by Unit Operator shall be at least (5) days (excluding Saturday, Sunday, and legal holidays), or at the earliest opportunity permitted by the circumstances, prior to taking such action, but Unit Operator assumes no liability for failure to do so. In the event of failure by Operator to so notify Working Interest Owners, the loss of any lease contributed hereto by Working Interest Owners for failure to make timely payments of any shut-in well payment shall be borne jointly by the Working Interest Owners hereto under the provisions of Section 13.4 hereof. Shut-in well payments which may be required either under the terms of any lease or under the terms of the Unit Agreement shall be paid by the Working Interest Owner(s) who committed such lease to the Unit Area at its or their own expense. If, through mistake or oversight, any shut-in well payment is not paid or is erroneously paid, and as a result a lease or interest therein terminates, such failure shall be treated the same as a failure of title and shall be subject to the terms and provisions of Section 13.3 hereof."

West Bravo Dome CO<sub>2</sub> Gas Unit  
February 18, 1986

Page Two


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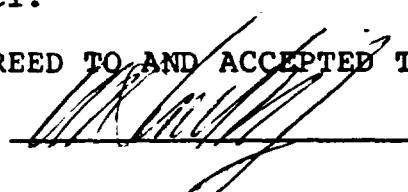
Yours very truly,

CITIES SERVICE OIL AND  
GAS CORPORATION

  
Bryan B. Roberts  
Attorney-in-Fact CEC

BBR/CEC/gw  
Encl.

AGREED TO AND ACCEPTED THIS 21 DAY OF April, 1986.

By   
\_\_\_\_\_

WEST BRAVO DOME CO<sub>2</sub> GAS UNIT  
HARDING COUNTY, NEW MEXICO

WORKING INTEREST OWNERS

AMERADA HESS CORPORATION  
218 W. 6TH STREET  
TULSA, OK 74102  
ATTN: Mr. J. C. Hefley

AMERIGAS, INC.  
CARBON DIOXIDE DIVISION  
4455 LBJ FREEWAY, STE. 1000  
DALLAS, TX 75234  
ATTN: MR. W. P. HECKEL, JR.

---

AMERIGAS, INC.  
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KING OF PRUSSIA, PA 19406  
ATTN: MR. DAVID KNIPEL

CHEVRON U.S.A. INC.  
700 S. COLORADO BLVD.  
DENVER, CO 80222  
ATTN: MR. R. L. HODGES

CO<sub>2</sub>-IN-ACTION  
4TH FLOOR, SUITE 400  
FIRST NATIONAL BANK BUILDING  
8TH AND FILLMORE  
AMARILLO, TX 79101  
ATTN: MR. DAVID COOPER



CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

February 18, 1986

THIRD AMENDMENT TO THE UNIT OPERATING AGREEMENT

WORKING INTEREST OWNERS:  
(See attached list)

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

Gentlemen:

Working Interest Owners hereby agree to rescind and substitute the following language for Section 20.2, Shut-in Well Payments, of the Unit Operating Agreement:

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West Bravo Dome CO<sub>2</sub> Gas Unit  
February 18, 1986

Page Two

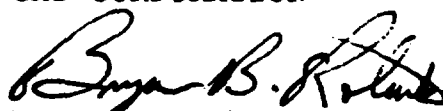
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Yours very truly,

CITIES SERVICE OIL AND  
GAS CORPORATION

  
Bryan B. Roberts  
Attorney-in-Fact CEC

BBR/CEC/gw  
Encl.

AGREED TO AND ACCEPTED THIS 28<sup>th</sup> DAY OF FEBRUARY, 1986.

By CC<sub>2</sub>-IN-ACTION, INC  


WEST BRAVO DOME CO<sub>2</sub> GAS UNIT  
HARDING COUNTY, NEW MEXICO

WORKING INTEREST OWNERS

AMERADA HESS CORPORATION  
218 W. 6TH STREET  
TULSA, OK 74102  
ATTN: Mr. J. C. Hefley

AMERIGAS, INC.  
CARBON DIOXIDE DIVISION  
4455 LBJ FREEWAY, STE. 1000  
DALLAS, TX 75234  
ATTN: MR. W. P. HECKEL, JR.

AMERIGAS, INC.  
U.G.I. CORPORATION  
IRWIN BUILDING  
460 N. GULPH RD.  
KING OF PRUSSIA, PA 19406  
ATTN: MR. DAVID KNIPEL

CHEVRON U.S.A. INC.  
700 S. COLORADO BLVD.  
DENVER, CO 80222  
ATTN: MR. R. L. HODGES

CO<sub>2</sub>-IN-ACTION  
4TH FLOOR, SUITE 400  
FIRST NATIONAL BANK BUILDING  
8TH AND FILLMORE  
AMARILLO, TX 79101  
ATTN: MR. DAVID COOPER





CITIES SERVICE OIL AND GAS CORPORATION  
P.O. BOX 300 TULSA, OKLAHOMA 74102

February 18, 1986

THIRD AMENDMENT TO THE UNIT OPERATING AGREEMENT

WORKING INTEREST OWNERS:  
(See attached list)

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

Gentlemen:

Working Interest Owners hereby agree to rescind and substitute the following language for Section 20.2, Shut-in Well Payments, of the Unit Operating Agreement:

"If any well is completed in the Unitized Formation pursuant to the Unit Agreement as a gas well and is shut-in due to the lack of a market or for any other reason, Unit Operator shall notify all of the Working Interest Owners of such action. Said notice by Unit Operator shall be at least (5) days (excluding Saturday, Sunday, and legal holidays), or at the earliest opportunity permitted by the circumstances, prior to taking such action, but Unit Operator assumes no liability for failure to do so. In the event of failure by Operator to so notify Working Interest Owners, the loss of any lease contributed hereto by Working Interest Owners for failure to make timely payments of any shut-in well payment shall be borne jointly by the Working Interest Owners hereto under the provisions of Section 13.4 hereof. Shut-in well payments which may be required either under the terms of any lease or under the terms of the Unit Agreement shall be paid by the Working Interest Owner(s) who committed such lease to the Unit Area at its or their own expense. If, through mistake or oversight, any shut-in well payment is not paid or is erroneously paid, and as a result a lease or interest therein terminates, such failure shall be treated the same as a failure of title and shall be subject to the terms and provisions of Section 13.3 hereof."

West Bravo Dome CO<sub>2</sub> Gas Unit  
February 18, 1986

Page Two

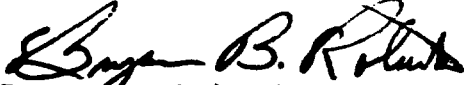
This change shall be retroactive and effective as of the Effective Date (December 1, 1984). Working Interest Owners hereby acknowledge previous notice that all existing Unit wells were shut-in on the Effective Date and that Unit Operator has not drilled any additional wells between the Effective Date and the date of this letter.

If you are in agreement with this proposal, please execute one (1) copy of this letter and return it to Charles E. Creekmore in the self-addressed, return envelope.


This Ballot may be executed with each copy being treated as an original for all purposes.

Yours very truly,

CITIES SERVICE OIL AND  
GAS CORPORATION

  
Bryan B. Roberts  
Attorney-in-Fact CEC

BBR/CEC/gw  
Encl.

AGREED TO AND ACCEPTED THIS 10<sup>th</sup> DAY OF March, 1986.  
CHEVRON U.S.A. INC.  
By 

Assistant Secretary

WEST BRAVO DOME CO<sub>2</sub> GAS UNIT  
HARDING COUNTY, NEW MEXICO

WORKING INTEREST OWNERS

AMERADA HESS CORPORATION  
218 W. 6TH STREET  
TULSA, OK 74102  
ATTN: Mr. J. C. Hefley

AMERIGAS, INC.  
CARBON DIOXIDE DIVISION  
4455 LBJ FREEWAY, STE. 1000  
DALLAS, TX 75234  
ATTN: MR. W. P. HECKEL, JR.

AMERIGAS, INC.  
U.G.I. CORPORATION  
IRWIN BUILDING  
460 N. GULPH RD.  
KING OF PRUSSIA, PA 19406  
ATTN: MR. DAVID KNIPEL

CHEVRON U.S.A. INC.  
700 S. COLORADO BLVD.  
DENVER, CO 80222  
ATTN: MR. R. L. HODGES

CO<sub>2</sub>-IN-ACTION  
4TH FLOOR, SUITE 400  
FIRST NATIONAL BANK BUILDING  
8TH AND FILLMORE  
AMARILLO, TX 79101  
ATTN: MR. DAVID COOPER



State of New Mexico

OFFICE OF THE

Commissioner of Public Lands

Santa Fe

JIM BACA  
COMMISSIONER

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

July 17, 1991

OXY USA INC.  
Box 50250  
Midland, Texas 79710

Re: West Bravo Dome CO2 Gas Unit  
Harding County, New Mexico  
1991 Plan of Development

Gentlemen:

The Commissioner of Public Lands this date approved the 1991 Plan of Development for the West Bravo Dome CO2 Gas Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help, please do not hesitate to contact us at 505-827-5744.

Sincerely,

JIM BACA

BY: Floyd O. Prando  
Floyd O. Prando, Director  
Oil, Gas & Minerals Division

JB/FOP/BS/JB/baf

cc: OCD  
Unit Corresp.  
Unit POD



# 8351

RAY POWELL, M.S., D.V.M.  
COMMISSIONER

State of New Mexico  
Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148

SANTA FE, NEW MEXICO 87504-1148

(505) 827-5760  
FAX (505) 827-5766

August 2, 1994

Campbell, Carr, Berge & Sheridan, P.A.  
P.O. Box 2208  
Santa Fe, New Mexico 87504-2208

Attention: Mr. William F. Carr

Re: Resignation/Designation of Successor Unit Operator  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Dear Mr. Carr:

This office is in receipt of a designation of successor unit operator, wherein OXY USA, Inc. has resigned as unit operator of the West Bravo Dome Carbon Dioxide Unit and designated Amerada Hess Corporation as the successor unit operator.

The Commissioner of Public Lands has this date approved the resignation of OXY USA, Inc. and the designation of Amerada Hess Corporation as the successor unit operator of this unit. This change in operators is effective August 1, 1994. In accordance with this approval, Amerada Hess Corporation is now responsible for all operations and the reporting of all production from the unit.

Please provide a contact person and official address for Amerada Hess Corporation.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.  
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*

FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744

Enclos.

RP/FOP/pm

cc: Reader File

OXY USA, Inc.

OCD - Roy Johnson

TRD - Mike Holden

BLM - Albuquerque, Robert Kent



*State of New Mexico*  
**Commissioner of Public Lands**

310 OLD SANTA FE TRAIL P.O. BOX 1148

SANTA FE, NEW MEXICO 87504-1148

**RAY POWELL, M.S., D.V.M.**  
**COMMISSIONER**

**(505) 827-5760**  
**FAX (505) 827-5766**

June 9, 1994

Kaiser-Francis Oil Company  
P.O. Box 21468  
Tulsa, Oklahoma 74121-1468

Attention: Mr. Bob Major

Re: Non-Commercial Well Determination  
Bell Lake Unit Well No.12-J  
Bell Lake Cherry Canyon Well  
Section 31-23S-34E  
Lea County, New Mexico

Dear Mr. Major:

This office is in receipt of your letter of April 5, 1994, together with the data to support your non-commercial well determination of the Bell Lake Unit Well No. 12 in the Cherry Canyon Formation. A review of our records reveals that this well, located in the NW4SE4 of Section 31, Township 23 South, Range 34 East, was recompleted in the Cherry Canyon Formation on June 24, 1987.

Please be advised that, according to the data submitted, this office concurs with your assessment that the Bell Lake Unit Well No. 12 is not capable of commercial production from the Cherry Canyon Formation and should not be included in the Cherry Canyon Participating Area. This action is subject to like approval by the Bureau of Land Management and the New Mexico Oil Conservation Division.

Kaiser-Francis Oil Company

Page 2

June 9, 1994

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.  
COMMISSIONER OF PUBLIC LANDS

BY: 

FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744

RP/FOP/pm

enclos.

cc: Reader File

OCD

BLM

TRD



State of New Mexico  
Commissioner of Public Lands

RAY POWELL, M.S., D.V.M.  
COMMISSIONER

310 OLD SANTA FE TRAIL P.O. BOX 1148

(505) 827-5760  
FAX (505) 827-5766

April 12, 1994

SANTA FE, NEW MEXICO 87504-1148

Oxy USA, Inc.  
P. O. Box 50250  
Midland, Texas 79710

Attn: Mr. P. N. McGee

Re: 1994 Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Dear Mr. McGee:

The Commissioner of Public Lands has this date approved your 1994 plan of development for the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico. The approved plan covers the time period from January 1, 1994 through December 31, 1994.

Included in your plan was a request for a one year extension to the scheduled unit contraction date provided in Article 5.2 of the Unit Agreement. The unit is currently scheduled to be contracted on December 1, 1994.

We regret to inform you that the one year extension requested in your plan of development can not be approved as submitted. The unit agreement has no provisions for extending the automatic elimination date, however, it is our opinion that Article 5.2 Redetermination of Tract Participations, could be modified to eleven (11) years (the unit currently provides for 10 years) after the effective date, with concurrence of all working interest owners. Article 20.1 of the unit provides that "amendments hereto relating wholly to Working Interest Owners may be made if signed by all working Interest Owners."

If you agree with our interpretation, please re-submit your extension request and a copy of Article 5.2 of the unit agreement as amended together with ratifications from all working interest owners in the unit. Please also submit the latest copies of Exhibits "A" and "B" to the unit agreement.

Since this unit agreement also contains federal and private lands, our approval of your 1994 plan of development and any other future changes to the unit agreement are subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.



1994 Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Page 2

If you have any questions, or if we may be of further help, please  
contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY B. POWELL, M.S., D.V.M  
COMMISSIONER OF PUBLIC LANDS

BY: 

FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744  
RBP/FOP/pm

cc: Reader File  
BLM-Albuquerque, New Mexico Attn: Mr. Robert Kent  
OCD-Attn: Mr. Roy Johnson



OXY USA INC.  
Box 50250, Midland, TX 79710

February 24, 1994

4-8-94

D-unit letter  
Tux  
Ry

State of New Mexico  
Commissioner of Public Lands  
P.O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Director of the Oil and Gas Division

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Re: Proposed Plan of Development  
for January 1, 1994 through  
December 31, 1994, West Bravo  
Dome Carbon Dioxide Gas Unit,  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the proposed Plan of Development for January 1, 1994, through December 31, 1994, on behalf of the Unit Working Interest Owners.

Presently, there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patentee tracts (22,860.55 acres).

During 1993, the Working Interest Owners continued efforts to assess the future development potential of the Unit in relation to expected market conditions and in association with their individual CO<sub>2</sub> requirements. Market conditions during the period did not warrant the proposal of additional drilling, fracture stimulation or construction work.

APPROVED FOR SUBMITTAL:

OXY USA Inc.

By: \_\_\_\_\_



Name: P. N. McGee

Title: Attorney-in-Fact

Page 2  
Revised Plan of Development  
1/1/94 through 12/31/94  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

The Working Interest Owners propose a Plan of Development for January 1, 1994, through December 1, 1994, to include:

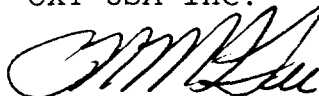
1. Continue to monitor market conditions and Working Interest Owner's need for CO<sub>2</sub> supply.
2. Continue Unit payments which escalate 5% yearly until the Unit is connected and producing.
3. Monitor and evaluate the condition of the existing wellbores in accordance with State regulations.
4. Drilling, fracture stimulation and construction work may be proposed if market conditions improve and the Working Interest Owner's need for CO<sub>2</sub> warrants.

In addition, the Working Interest Owners request approval of a one year extension to the scheduled Unit contraction date provided in Article 5.2 of the Unit Agreement. Said extension would result in a planned unit contraction to productive limits on December 1, 1995.

If there are questions regarding this proposed Plan of Development for 1994, please call the undersigned at (915) 685-5642. Your earliest consideration of this proposal would be appreciated.

Yours very truly,

OXY USA Inc.



P. N. McGee *PM*  
Manager Land - Western Region

PNM/df:ls

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401

Attention: Mr. Duane Spence

CAMPBELL, CARR, BERGE  
& SHERIDAN, P.A.  
LAWYERS

MICHAEL B. CAMPBELL  
WILLIAM F. CARR  
BRADFORD C. BERGE  
MARK F. SHERIDAN

PATRICIA A. MATTHEWS  
MICHAEL H. FELDEWERT  
DAVID B. LAWRENZ  
TANYA M. TRUJILLO

JACK M. CAMPBELL  
OF COUNSEL

**HAND-DELIVERED**

Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Attn: William J. LeMay and  
Roy Johnson

Re: *West Bravo Dome Carbon Dioxide Gas Unit, Successor Unit Operator*

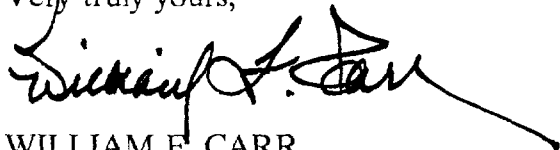
Gentlemen:

Enclosed for your files is a copy of the Designation of Successor Operator for the West Bravo Dome Carbon Dioxide Gas Unit located in Harding County, New Mexico, which has been executed by both remaining working interest owners in this unit. This change of operator will become effective at 7:00 a.m. on August 1, 1994, at which time Amerada Hess Corporation will assume all duties as Unit Operator pursuant to the provisions of Sections 6.2 and 6.3 of the Unit Operating Agreement.

OXY USA, INC., the previous Unit Operator, has withdrawn from the Unit pursuant to the provisions of Section 17 of the Unit Operating Agreement and will assign its interest therein to Chevron and Amerada Hess. As soon as these transfers are completed and have been approved as required by the Commissioner of Public Lands and the Bureau of Land Management, Amerada Hess will file with your office revised schedules to the Unit Operating Agreement.

Your attention to this matter is appreciated.

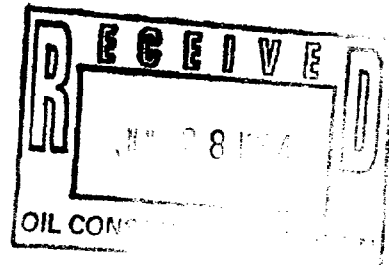
Very truly yours,



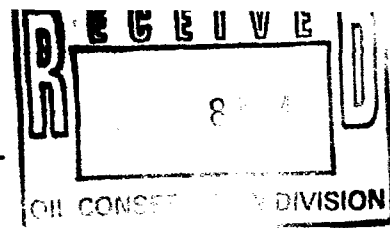
WILLIAM F. CARR  
ATTORNEY FOR AMERADA HESS CORPORATION  
WFC:mlh  
Enc.

JEFFERSON PLACE  
SUITE 1 - 110 NORTH GUADALUPE  
POST OFFICE BOX 2208  
SANTA FE, NEW MEXICO 87504-2208  
TELEPHONE: (505) 988-4421  
TELECOPIER: (505) 983-6043

July 28, 1994



**DESIGNATION OF SUCCESSOR OPERATOR  
FOR THE WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO**



THIS DESIGNATION OF SUCCESSOR OPERATOR, entered into by and between Amerada Hess Corporation, hereinafter designated "Amerada Hess", and the owners of the unitized working interest in the West Bravo Dome Carbon Dioxide Gas Unit Area, hereinafter designated "Working Interest Owners".

WITNESSETH THAT:

WHEREAS, pursuant to the provisions of Chapter 19, Article 10, Section 4, New Mexico Statutes Annotated, 1978, the New Mexico Commissioner of Public Lands, on November 20, 1984, approved the West Bravo Dome Carbon Dioxide Gas Unit Agreement wherein Cities Service Oil and Gas Corporation, now OXY USA, INC., is designated as Unit Operator; and

WHEREAS, under the provisions of the Act of February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C. Sec. 181, et seq., the Secretary of the Interior, on November 21, 1984, approved the West Bravo Dome Carbon Dioxide Gas Unit Agreement wherein Cities Service Oil and Gas Corporation, now OXY USA, INC., is designated as Unit Operator; and

WHEREAS, by letter dated April 12, 1994, OXY USA INC. notified the Working Interest Owners in the West Bravo Dome Carbon Dioxide Gas Unit of its intention to withdraw from the Unit, pursuant to Section 17.1 of the Unit Operating Agreement; and

WHEREAS, on June 9, 1994, OXY USA INC. tendered its resignation as Unit Operator of the West Bravo Dome Carbon Dioxide Gas Unit to the Working Interest Owners, pursuant to Section 6.2 of the Unit Operating Agreement; and

WHEREAS, pursuant to Section 6.3 of the Unit Operating Agreement, Amerada Hess has been and is hereby designated by the Working Interest Owners as successor Unit Operator, and Amerada Hess desires to assume all rights, duties and obligations of Unit Operator under the Unit Agreement and the Unit Operating Agreement.

NOW, THEREFORE, in consideration of the premises and the mutual covenants and agreements herein contained, Amerada Hess covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all the terms of the Unit Agreement and the Unit Operating Agreement for the West Bravo Dome Carbon Dioxide Gas Unit, and the Working Interest Owners covenant and agree that, effective upon approval of this Designation of Successor Unit Operator by the New Mexico Commissioner of Public Lands and the Secretary of the Interior, Amerada Hess shall be granted the exclusive right and privilege of exercising any and all rights and privileges of Unit Operator, pursuant to the terms and conditions of the Unit Agreement and the Unit Operating Agreement, which are incorporated herein by reference.

IN WITNESS WHEREOF, this instrument is executed on this the 18<sup>TH</sup> day of July, 1994, to be effective as of August 1, 1994.

WITNESS:

\_\_\_\_\_  
\_\_\_\_\_

AMERADA HESS CORPORATION

BY:

Raymond L. Wickett *RLW*  
Raymond L. Wickett

TITLE:

Attorney-in-Fact

WITNESS

\_\_\_\_\_  
\_\_\_\_\_

CHEVRON U.S.A. INC.

BY:

W.M. Sellers

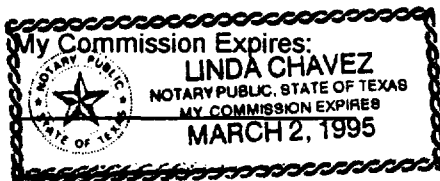
**W. M. SELLERS**  
**ATTORNEY-IN-FACT**

TITLE:

STATE OF TEXAS

COUNTY OF HARRIS

The foregoing instrument was acknowledged before me this 18<sup>TH</sup> day of July, 1994, by W.M. Sellers, as Attorney-in-Fact of CHEVRON U.S.A INC., on behalf of said corporation.



Linda Chavez  
Notary Public

STATE OF Oklahoma

COUNTY OF Tulsa

The foregoing instrument was acknowledged before me this 26th day of July, 1994, by Raymond L. Wickett, as Attorney-in-Fact of AMERADA HESS CORPORATION., on behalf of said corporation.

My Commission Expires:  
MY COMMISSION EXPIRES  
JANUARY 11, 1997

Abigail Ann Wells  
Notary Public



OXY USA INC.

Box 50250, Midland, TX 79710

March 17, 1993

State of New Mexico  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Director of the Oil and Gas Division

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Re: Revised Plan of Development  
for January 1, 1993 through  
December 31, 1993  
West Bravo Dome Carbon  
Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Revised Plan of Development for January 1, 1993 through December 31, 1993 on behalf of the Unit Working Interest Owners.

Presently, there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patentee tracts (22,860.55 acres).

During 1992, in an effort to fully assess the productive boundaries of the unitized acreage, and in accordance with the approved 1992 Plan of Development, seismic data covering 700 miles across the Bravo Dome field was acquired and reviewed along with the purchase and the interpretation of a regional gravity survey covering the greater West Bravo Dome Unit Area. The analysis of this geophysical data will allow us to target areas for potential future seismic surveys and development, and aid in determination of the



Page 2  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

productive unit boundaries for the December 1, 1994 unit contraction.

The Working Interest Owners propose a Plan of Development for January 1, 1993 through December 1, 1993 to include:

1. Continue to monitor market conditions and Working Interest Owners need for CO<sub>2</sub> supply.
2. Continue Unit payments which escalate 5% yearly until the unit is connected and producing.
3. Monitor and evaluate the condition of the existing wellbores in accordance with State regulations.
4. A. OXY plans to form a geological subcommittee comprised of Working Interest Owner representatives, whose charge will be to review the engineering and geological data and recommend to the Working Interest Owners a contraction plan pursuant to Article 5.2 of the Unit Agreement. The plan, when approved by the Working Interest Owners, will be presented to the NMOCD, BLM and the SLO for approval prior to the December 1, 1994 unit contraction date.  
  
B. OXY is unable to supply the SLO with maps or other data purporting to show the productive limits of the unit area because the information has not been evaluated or approved by the geological subcommittee or the Working Interest Owners.
5. Drilling, fracture stimulation and construction work may be proposed if market conditions improve and the Working Interest Owners need for CO<sub>2</sub> warrants.

In response to your letter dated January 12, 1993, please find enclosed a current West Bravo Dome Unit map reflecting the working interest ownership and location of all wells drilled in the Unit. Also enclosed is a list reflecting the current status of all unit wells. The wells are identified by section, township, range, and lease number.

Your remaining inquiries directed to the individual Working Interest Owners will be responded to under separate letter.

Page 3  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

If there are questions regarding this Revised Plan of Development for 1993, please call Mr. David R. Evans at 915/685-5769. Your earliest consideration of this proposal would be appreciated.

Very truly yours,

OXY USA Inc.



P. N. McGee  
Manager Land - Western Region

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401  
Attention: Mr. Duane Spence

APPROVED FOR SUBMITTAL:

AMERADA HESS CORPORATION

By: J. C. Hefley

WEST BRAVO DOME CARBON DIOXIDE UNIT  
HARDING COUNTY, NEW MEXICO

<u>Well Name</u>	<u>Location</u>	<u>Lease Name</u>	<u>Unit Tract</u>	<u>Status</u>
West Bravo Dome #12	Sec. 32-20N-29E	L-5777	502	Shut-in
West Bravo Dome #11	Sec. 33-20N-29E	L-5776	501	" "
West Bravo Dome #10	Sec. 3-19N-29E	L-5813	505	" "
West Bravo Dome #9	Sec. 3-19N-29E	L-5813	506	" "
West Bravo Dome #8	Sec. 9-19N-29E	L-5815	507	" "
West Bravo Dome #1	Sec. 11-19N-29E	L-5812	504	" "
West Bravo Dome #18	Sec. 18-19N-29E	Smith	2021	" "
West Bravo Dome #7	Sec. 16-19N-29E	L-5811	503	" "
West Bravo Dome #15	Sec. 29-19N-29E	Trujillo	2007	" "
West Bravo Dome #4	Sec. 25-19N-29E	L-5817	509	" "
West Bravo Dome #2	Sec. 30-19N-30E	L-5826	510	" "
West Bravo Dome #17	Sec. 33-19N-29E	NM-19714	101	" "
West Bravo Dome #3	Sec. 36-19N-29E	L-5816-1	508	" "
West Bravo Dome #5	Sec. 31-19N-30E	L-5827	511	" "
West Bravo Dome #20	Sec. 32-19N-30E	L-5827	511	" "
West Bravo Dome #6	Sec. 6-18N-30E	L-5853	514	" "
West Bravo Dome #19	Sec. 7-18N-29E	Lauder	2027	P & A
West Bravo Dome #13	Sec. 7-18N-30E	L-5852	513	Shut-in
West Bravo Dome #22	Sec. 13-18N-29E	NM-27898	102	" "
West Bravo Dome #16	Sec. 21-18N-29E	Smith	2028	" "
West Bravo Dome #14	Sec. 20-18N-30E	L-5857-2	525	" "
West Bravo Dome #21	Sec. 2-17N-29E	L-4586	516	P & A



OIL CONSERVATION DIVISION  
NOV 10 1992  
11 10 03

OXY USA INC.  
Box 50250, Midland, TX 79710

November 10, 1992

New Mexico Oil and Conservation Division  
310 Old Santa Fe Trail  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Roy E. Johnson, Senior Petroleum Geologist

**RE: Five Year Plan of Development**

Dear Roy,

As we discussed, please find enclosed five (5) approved sets of the Five Year Plan of Development for your approval. If you have any questions, please call me at 915/685-5913.

Thank you for your consideration of our request.

Very truly yours,

Richard E. Foppiano  
Regulatory Affairs Advisor  
Western Region - Midland

REF:cm  
ENCLOSURE



OXY USA INC.

Box 50250, Midland, TX 79710

October 1, 1992

Director, Oil and Gas Division  
Commission of Public Lands Office  
P. O. Box 1148  
Santa Fe, New Mexico 87501

11-20-92  
D - Unit letter  
Thx Ky

State of New Mexico, Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Re: Five Year Plan of Development - 1993-1997  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Plan of Development for the years 1993-1997 on behalf of the Unit Working Interest Owners.

Presently there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1992, in an effort to fully assess the productive boundaries of the unitized acreage, and in accordance with the approved 1992 Plan of Development, seismic data totaling 700 miles across the Bravo Dome Field was acquired and reviewed along with the purchase and the interpretation of a regional gravity survey covering the greater West Bravo Dome Unit Area. The analysis of this geophysical data will allow us to target areas for potential future seismic surveys, development and unit contraction.

The Working Interest Owners propose a Plan of Development for 1993-1997 to include:

Page 2  
Five Year Plan of Development 1993-1997  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico  
10-1-92

1. Continue to monitor market conditions and Working Interest Owners needs for CO<sub>2</sub> supply.
2. Unit payments escalating 5% yearly until the unit is connected and producing.
3. Monitoring and evaluating the condition of the existing wellbores in accordance with State regulations.
4. Contract the West Bravo Dome Unit to proven productive boundaries in accordance with the Unit Agreement.
5. Drilling, additional fracture stimulation and construction work may be proposed under a revised Plan of Development if market conditions improve and the Working Interest Owners need for CO<sub>2</sub> warrants.

If there are questions regarding this proposed Plan of Development for 1993-1997, please feel free to call Mr. David Evans at 915/685-5769. Your earliest consideration of this proposal would be appreciated.

Very truly yours,

OXY USA Inc.



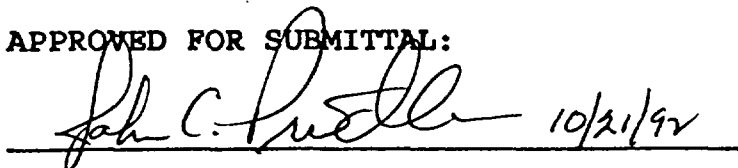
F. A. Vitrano  
Operations Manager

DRE:PNM:ls

Encl.

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401  
Attention: Mr. Duane Spence

APPROVED FOR SUBMITTAL:



10/21/92



F  
OXY USA INC.

Box 50250, Midland, TX 79710

June 25, 1991

Director Oil and Gas Division  
Commissioner of Public Lands Office  
P. O. Box 1148  
Santa Fe, New Mexico 87504

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Plan of Development - 1991  
Harding County, New Mexico

Gentlemen:

Enclosed for your files is one (1) copy of the captioned development plan which has been approved by the Bureau of Land Management.

Your earliest consideration on the 1991 Plan of Development would be most appreciated.

Very truly yours,

A handwritten signature in cursive script, reading "David R. Evans".

David R. Evans  
Landman

DRE:ls

Encl.



OXY USA INC.

Box 50250, Midland, TX 79710

May 21, 1991

Director Oil and Gas Division  
Commissioner of Public Lands Office  
P. O. Box 1148  
Santa Fe, New Mexico 87504

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Plan of Development - 1991  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Division Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Plan of Development for 1991 on behalf of the Unit Working Interest Owners.

Presently there are nineteen (19) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1990, in an effort to more fully assess the productive capability, establish the productive limits of the unitized acreage, and in accordance with the approved 1990 Plan of Development, four (4) wells were drilled and completed. The wells were designated as #18, #19, #20, #21 and were located in Section 18-T19N-R29E; Section 7-T18N-R29E; Section 32-T19N-R30E, and Section 2-T17N-R29E, respectively.

Two (2) of the four (4) wells drilled, after testing, were deemed productive and completed as shut-in gas wells. Table I summarizes this 1990 activity. The enclosed plat identifies the locations of these wells ("1990 wells").

In preparation for the proposed 1991 Plan of Development discussed below, the West Bravo Dome Working Interest Owners met and activated a Geological subcommittee. The subcommittee was charged with determining a prudent development plan for 1991. In addition, certain working interest owners jointly participated in engineering studies of a proposed field-wide gathering system, a central compression facility, a

APPROVED

Next POD Due 3/31/92.

JUN 18 1991

AREA MANAGER

*Donna A. Spencer*



Page 2  
1991 Plan of Development  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

pipeline system and field electrical study. This work was completed during 1990-91 and is currently under review.

The Working Interest Owners propose a Plan of Development for 1991 to include:

1. The drilling of one (1) WBDCDUGU well. The well is tentatively to be drilled on the location shown on the attached plat ("1991 Proposed Location").
2. In order to better judge well performance, two existing wells will be fracture stimulated and tested.
3. In light of the results of the 1990 drilling program, we are currently studying the feasibility of performing geophysical surveys to aid in determining reservoir extent.

If there are questions regarding this proposed 1991 Plan of Development, please feel free to call Mr. David Evans at 915/685-5769. Your early consideration of this proposal would be appreciated.

Very truly yours,

OXY USA INC.

*P.N. McGee*

P. N. McGee, Manager-Land  
Western Region *one*

DRE:PNM:ls

Enclosures

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
P. O. Box 6770  
Albuquerque, New Mexico 87197

APPROVED FOR SUBMITTAL:

AMERADA HESS CORPORATION

WORKING INTEREST OWNER

By: *J.O. Hefley*  
J. O. HEFLEY  
MANAGER CO<sub>2</sub> SUPPLY

TABLE I

# 1990 WELLS

## WEST BRAVO DOME CARBON DIOXIDE GAS UNIT

WELL #	18	19	20	21
PERFORATIONS	2756-2796	3034-3129	1924-1954	2819-2866
COMPLETION TREATMENT	1000 GALS 7.5%	2000 GALS 7.5%	1000 GALS 7.5%	1000 GALS 7.5%
FRAC. TREATMENT <sup>1</sup>	17,000#		31,000#	
RATE	1.8 MMCFPD	P&A	2.3 MMCFPD	P&A
FTP <sup>2</sup>	250 PSI		400 PSI	

<sup>1</sup> 65 QUALITY CO<sub>2</sub> FOAM FRAC. PUMPED AT 12 BPM

<sup>2</sup> 2.5" ORIFICE, 150 PSI BACK PRESSURE

WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

WORKING INTEREST OWNERS

AMERADA HESS CORPORATION  
Attention: Mr. Jim Hefley  
P. O. Box 2040  
Tulsa, OK 74102

CHEVRON USA, INC.  
Attention: Mr. Charles Frisbie  
P. O. Box 1150  
Midland, Texas 79702

MARTIN, WILLIAMS AND JUDSON  
400 West Illinois, Suite 1000  
Midland, TX 79701



#8351

OXY USA INC.

Box 50250, Midland, TX 79710

September 20, 1991

9-23-91

DHL EXPRESS MAIL

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Attention: Mr. Roy Johnson

D - letter  
Unit letter  
The Ry

Re: Plan of Development - 1991  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

Pursuant to my conversation with Mr. Rick Foppiano this date, I have been informed that the NMOCD did not receive its copy of the above referenced Plan of Development. Inasmuch as the State of New Mexico, Commissioner of Public Lands and the Bureau of Land Management have approved the Plan of Development (copies enclosed), please provide your comments as soon as possible.

Enclosed is my business card. Please do not hesitate to call me if there are any questions.

Very truly yours,

David R. Evans  
Senior Landman

DRE:ls

Enclosures:

- 1) OXY transmittal letter dtd. 6-25-91
- 2) Plan of Development approved by BLM Area Manager 6-18-91
- 3) Letter dtd. 7-17-91 from State of New Mexico Commissioner of Public Lands
- 4) Plat
- 5) Copy of Certified Mail receipt

cc: Mr. Rick Foppiano



#351

OIL CONSERVATION DIVISION  
RECEIVED

OXY USA INC.

Box 50250, Midland, TX 79710

November 13, 1991

'91 DE:16 AM 9 16

12-19-91

Director Oil and Gas Division  
Commissioner of Public Lands Office  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148  
Attention: Mr. Floyd Prando, Director  
Oil, Gas & Minerals Division

D-  
Unit letter  
Thx Ry

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501  
Attention: Mr. Roy Johnson,  
Senior Petroleum Geologist

Re: Plan of Development - 1992  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Division Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Plan of Development for 1992 on behalf of the Unit Working Interest Owners.

Presently there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1991, in an effort to more fully assess the productive capability, establish the productive limits of the unitized acreage, and in accordance with the approved 1991 Plan of Development, one (1) well, designated as #22 and located in Section 13-T18N-R29E, was drilled and completed as a shut-in gas well. The enclosed plat identifies the location of this well. Also, two (2) wells, #4 and #10 located in Section 25-T19N-R29E and in Section 3-T19N-R29E, respectively, were fracture stimulated. Table I summarizes this activity. Finally, a high-altitude aerial photo study of West Bravo Dome Carbon Dioxide Gas Unit was performed and seismic data totaling 700 miles across Bravo Dome

TABLE I

RESULTS OF 1991 ACTIVITY  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT

Well #	<u>#4</u>	<u>#10</u>	<u>#22</u>
Activity	Fracture stimulate	Fracture stimulate	Drill and complete
Perforations	1950-1989'	2072-2094'	2099-2198'
Fracture treatment	15,000 gal + 31,000# sand	13,600 gal + 24,000# sand	15,000 gal + 31,000# sand
Rate	2.304 MMCFD	*See note*	2.262 MMCFD
FTP	340 psi BP = 250 psi 39/64" choke	30-50 psi	330 psi BP = 210 psi 39/64" choke

\*note\*      The fracture treatment on WBDCDGU #10 screened out. Afterward, the well produced carbon dioxide, small amounts of water and frac sand. After 2 weeks of flow time, WBDCDGU #10 continued to produce sand, precluding the metering of gas rate. The well is now shut in.

Page 2  
1992 Plan of Development  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

Field is being acquired. The analysis of this data will allow us to target areas for future seismic surveys and development.

The Working Interest Owners propose a Plan of Development for 1992 to include:

1. Fracture stimulate and test four (4) existing wells.
2. Analyze the geophysical data acquired in 1991 and study the feasibility of performing further seismic surveys to aid in determining reservoir extent and predicting well performance.
3. Additional drilling and construction work may be proposed, depending upon the Working Interest Owners' need for CO<sub>2</sub> supply.

If there are questions regarding this proposed 1992 Plan of Development, please feel free to call Mr. David Evans at 915/685-5769. Your early consideration of this proposal would be appreciated.

Very truly yours,

OXY USA INC.



P. N. McGee, Manager-Land  
Western Region

PNM:ls

Enclosures

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401  
Attention: Mr. Duane Spence

APPROVED FOR SUBMITTAL:

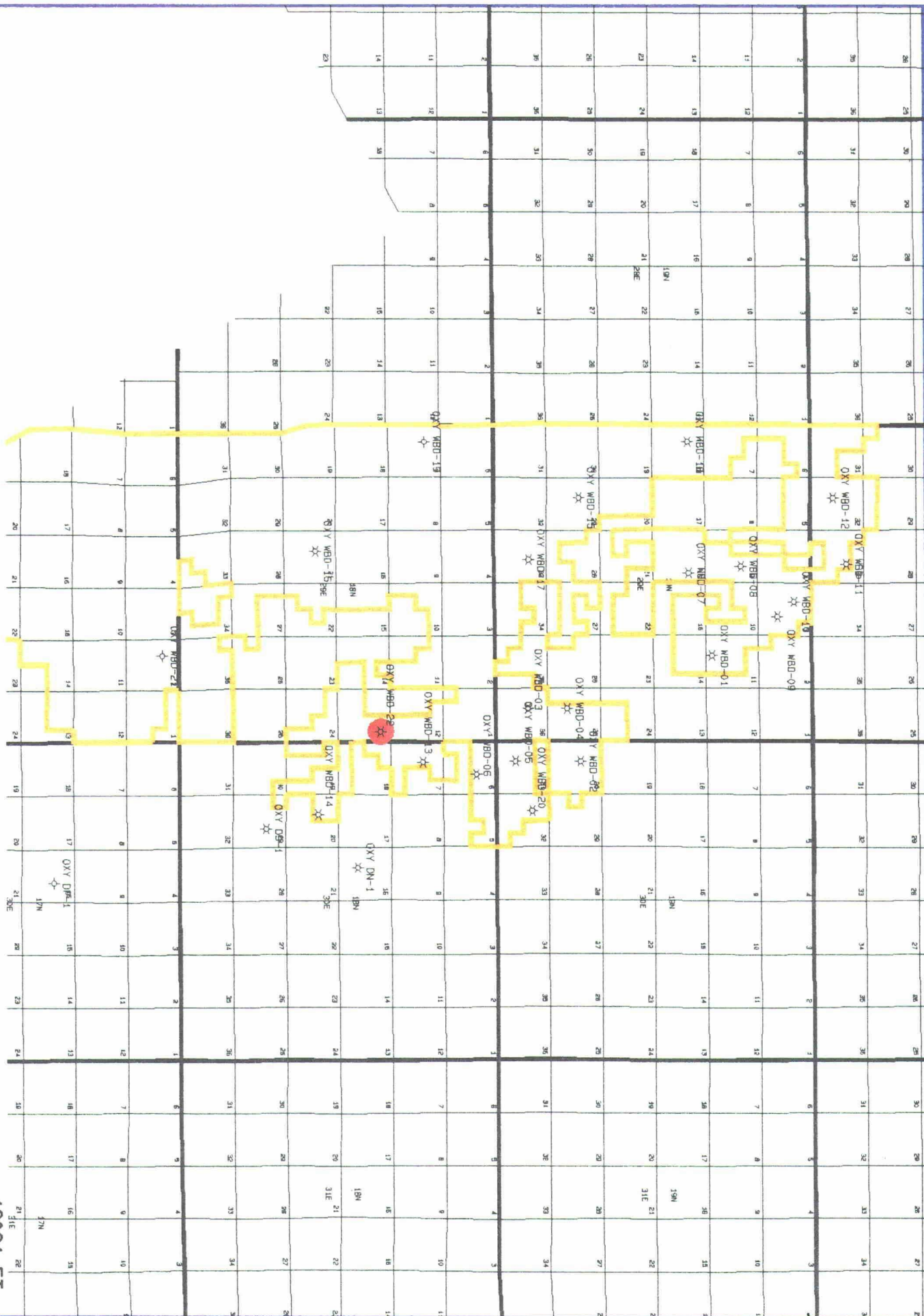
OXY USA Inc.

By: 

P. N. McGee



# WEST BRAVO DOME CO2 UNIT -





David R. Evans  
Senior Landman  
(915) 685-5769  
FAX (915) 685-5931

OXY USA INC.  
Box 50250, Midland TX 79710

July 28, 1992

8-6-92  
D- Unit letter  
Tuc  
R7

Director, Oil and Gas Division  
Commission of Public Lands Office  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Mr. Floyd Prando, Director  
Oil, Gas and Minerals Division

State of New Mexico, Energy & Minerals Department  
Oil Conservation Division  
P O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Attention: Mr. Roy Johnson, Sr. Petroleum Geologist

Re: Revised Plan of Development - 1992  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Revised Plan of Development for 1992 on behalf of the Unit Working Interest Owners.

Presently there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in this revised plan of development and in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acre) and 73 patentee tracts (22,860.55 acres).

During 1991, in an effort to more fully assess the productive capability, establish the productive limits of the unitized acreage, and in accordance with the approved 1991 Plan of Development, one (1) well, designated as #22 and located in Section 13-T18N-R29E, was drilled and completed as a shut-in gas well. Also, two (2) wells, #4 and #10 located in Section 25-T19N-R29E and in Section 3-T19N-R29E, respectfully, were fracture stimulated. Table I summarizes this activity. Finally, a high-altitude aerial

Page 2

Revised Plan of Development - 1992

West Bravo Dome CO<sub>2</sub> Gas Unit

Harding County, New Mexico

7-28-92

photo study of West Bravo Dome Carbon Dioxide Gas Unit was performed and seismic data totaling 700 miles across Bravo Dome Field was acquired. The analysis of this data will allow us to target areas for potential future seismic surveys and development.

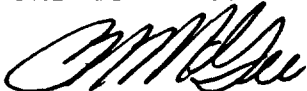
The Working Interest Owners have revised its approved Plan of Development of 1992 to the following:

1. Due to continuing lack of market, defer the previously proposed fracture stimulation and testing of four (4) existing wells.
2. Analyze the geophysical data acquired in 1991 and study the feasibility of performing further seismic surveys to aid in determining reservoir extent and predicting well performances.
3. Additional fracture stimulation, drilling and construction work maybe proposed, depending upon improvement in market conditions and the Working Interest Owner's need for CO<sub>2</sub> supply.

If there are questions regarding this revised proposal for the 1992 Plan of Development, please feel free to call Mr. David R. Evans at 915/685-5769. Your earliest consideration of this proposal would be appreciated.

Very truly yours,

OXY USA Inc.



P. N. McGee, Manager-Land  
Western Region

DRE:PNMc:ls

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, NM 87401  
Attention: Mr. Duane Spence

APPROVED FOR SUBMITTAL:

OXY USA Inc.

By:  \_\_\_\_\_

TABLE I

RESULTS OF 1991 ACTIVITY  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT

Well #	<u>#4</u>	<u>#10</u>	<u>#22</u>
Activity	Fracture stimulate	Fracture stimulate	Drill and complete
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Fracture treatment	15,000 gal + 31,000# sand	13,600 gal + 24,000# sand	15,000 gal + 31,000# sand
Rate	2.304 MMCFD	*See note*	2.262 MMCFD
FTP	340 psi BP = 250 psi 39/64" choke	30-50 psi	330 psi BP = 210 psi 39/64" choke

**\*note\***    The fracture treatment on WBDCDGU #10 screened out. Afterward, the well produced carbon dioxide, small amounts of water and frac sand. After 2 weeks of flow time, WBDCDGU #10 continued to produce sand, precluding the metering of gas rate. The well is now shut in.



JIM BACA  
COMMISSIONER

State of New Mexico  
OFFICE OF THE  
Commissioner of Public Lands  
Santa Fe

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1210

September 29, 1992

Oxy USA Inc.  
Box 50250  
Midland, Texas 79710

Attn: P.N. McGee, Manager

Re: 1992 (Revised) Plan of Development  
W Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*  
FLOYD O. PRANDO, Director  
Oil and Gas Division  
(505) 827-5744

JB/FOP/pm  
cc: OCD  
BLM



JIM BACA  
COMMISSIONER

State of New Mexico  
OFFICE OF THE  
Commissioner of Public Lands  
Santa Fe

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1099

February 19, 1992

OXY USA INC.  
Box 50250  
Midland, Texas 79710

Attn: P. N. McGee

Re: 1992 Plan of Development  
West Bravo Dome CO2 Gas Unit  
Harding, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*  
FLOYD O. PRANDO, Director  
Oil and Gas Division  
(505) 827-5744

cc: OCD  
BLM



JIM BACA  
COMMISSIONER

State of New Mexico

OFFICE OF THE

Commissioner of Public Lands

Santa Fe

8351

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

January 12, 1993

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

Attn: Mr. Richard E. Foppiano

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Five Year Plan of Development 1993-1997  
Harding County, New Mexico

Dear Mr. Foppiano:

This office is in receipt of your letter of November 10, 1992 together with five sets of the Five Year Plan of Development for the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico.

We regret to inform you that your five year plan of development, as submitted, is not in order for approval. Because of the upcoming automatic elimination, we would like to continue to be advised of the unit status through your plans of development on a yearly basis.

We would also like to acknowledge your willingness to meet with us regarding your five year plan, however, we do not think this is necessary at this point in time. Also, we would like time to review your revised plan regarding this unit.

Please re-submit a revised plan of development for 1993. Your revised plan should include the following:

1. Clearly advise us of the time period for which your plan of development is for. For example, your plan should cover the time period from January 1, 1993 to December 1, 1993.
2. We would like you to clearly address your plans for contraction of the unit area. Do you acknowledge that the automatic elimination date is December 1, 1994?
3. A map showing the productive limits of the unit area should be submitted. This will enable us to determine how many leases might be affected by the automatic elimination of non-productive acreage.

4. A copy of the supporting documentation used in determining the productive limits of the unit area.
5. A current map should be submitted showing the ownership status and location/status of all wells in the unit.
6. Also, please provide a list of all wells by section, township, range, lease number and well status.

In addition, to the above, a review of the West Bravo Dome Unit also reflects the following:

- A. Chevron U.S.A. Inc. is paying Shut-In royalty payments in addition to the annual rentals on Lease Nos. LG-4602-4, LG-5052, LG-5053 and LG-5054. If Chevron wants to continue to exercise their option to make shut-in royalty payments, they will have to get their leases stipulated. Chevron must also advise us of which wells the shut-in payment is intended for. Additional shut-in payments cannot be accepted on these leases until the leases have been stipulated.
- B. Oxy USA Inc., is paying Shut-In royalty payments in addition to the annual rentals on Lease Nos. LH-3499. OXY must also advise us of which well the shut-in payment is intended for. In addition, our records also reveal that on June 1, 1995 the E $\frac{1}{4}$ SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$  of Sec. 30-18N-30E, 120.00 acres will expire. This acreage is not committed to the unit and is subject to the modified segregation clause (Section 3.4.2) of the unit agreement. Unless stipulated, the payment of shut-in royalties for this lease can be accepted until June 1, 2000.
- C. Amoco Production Company is the lessee of record for Lease No. L-5856-2. Part of the lease is committed to the West Bravo Dome CO<sub>2</sub> Gas Unit and part of this lease is not committed to the unit. Our records reflect that the State "DN" Well No. 1-K, Sec. 16-18N-30E, is not a unit well. The last shut-in royalty payment received for this lease covered the period of May 1, 1986 to May 1, 1987. Pursuant to the modified segregation clause (Section 3.4.2) of the unit agreement, the following described lands expired effective May 1, 1987: All Sec. 16-18N-30E, N $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 15-18N-30E, containing 760.00 acres. These lands are not committed to the West Bravo Dome Carbon Dioxide Gas Unit.



West Bravo Dome CO<sub>2</sub> Gas Unit  
January 12, 1993  
Page 3

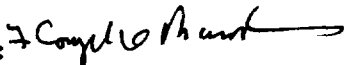
D. OXY USA, Inc. is the Lessee of record for Lease No. L-5859-2. Part of this lease is committed to the West Bravo Dome Carbon Dioxide Gas Unit and part of this lease is not committed to the unit. Our records reflect that the State "DS" Well No. 1-G, located in Section 29-18N-30E is not a unit well. The last shut-in royalty payment received covered the period May 1, 1986 to May 1, 1987. Pursuant to the modified segregation clause (Section 3.4.2) of the unit agreement the following described lands expired effective May 1, 1987: S $\frac{1}{2}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , Section 29-18N-30E, N $\frac{1}{2}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , Sec. 27-18N-30E, containing 320.00 acres. These lands are not committed to the West Bravo Dome Carbon Dioxide Gas Unit.

In addition, when your revised plan is re-evaluated, there might also be additional acreage identified for expiration. For example, leases that have a plugged and abandoned well will be reviewed. Pursuant to the modified segregation clause of the unit, a well that has been plugged and abandoned cannot hold lease acreage which is not committed to the unit agreement.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY:   
FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744  
JB/FOP/pm  
encls.

cc: Reader File  
OCD-Santa Fe  
BLM-Farmington  
Amoco Production Company  
Chevron USA, Inc.



David R. Evans  
Senior Landman  
(915) 685-5769  
FAX (915) 685-5931

OXY USA INC.

Box 50250, Midland, TX 79710

March 25, 1993

State of New Mexico  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Director of the Oil and Gas Division

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Attention: Mr. Roy Johnson

Re: West Bravo Dome Carbon  
Dioxide Gas Unit Agreement  
Effective December 1, 1984  
Harding County, New Mexico

Gentlemen:

In accordance with Article 5.1 of the West Bravo Dome Unit Agreement, the Working Interest Owners in 1994 will redetermine the tract participation of each tract and eliminate the known non-productive lands from the Unit.

With respect to the above contraction, it is the Working Interest Owners opinion that after December 1, 1994, the West Bravo Dome Unit (as contracted) will continue in full force and effect by payment of Article 6.1 rentals until such time that Unitized Substances are delivered to field facilities.

Page 2  
WBDCO<sub>2</sub> Gas Unit Agreement  
Harding County, New Mexico  
3-25-93

OXY USA Inc., as Operator, respectfully requests to be advised in the event you do not agree with the above.

Yours very truly,

A handwritten signature in black ink, appearing to read "David R. Evans", with a long, sweeping horizontal line extending to the right.

David R. Evans  
Senior Landman

DRE:ls

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401  
Attention: Mr. Duane Spence



OXY USA INC.

Box 50250, Midland, TX 79710

March 17, 1993

State of New Mexico  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Director of the Oil and Gas Division

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Re: Revised Plan of Development  
for January 1, 1993 through  
December 31, 1993  
West Bravo Dome Carbon  
Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Revised Plan of Development for January 1, 1993 through December 31, 1993 on behalf of the Unit Working Interest Owners.

Presently, there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patentee tracts (22,860.55 acres).

During 1992, in an effort to fully assess the productive boundaries of the unitized acreage, and in accordance with the approved 1992 Plan of Development, seismic data covering 700 miles across the Bravo Dome field was acquired and reviewed along with the purchase and the interpretation of a regional gravity survey covering the greater West Bravo Dome Unit Area. The analysis of this geophysical data will allow us to target areas for potential future seismic surveys and development, and aid in determination of the

Page 2  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

productive unit boundaries for the December 1, 1994 unit contraction.

The Working Interest Owners propose a Plan of Development for January 1, 1993 through December 1, 1993 to include:

1. Continue to monitor market conditions and Working Interest Owners need for CO<sub>2</sub> supply.
2. Continue Unit payments which escalate 5% yearly until the unit is connected and producing.
3. Monitor and evaluate the condition of the existing wellbores in accordance with State regulations.
4. A. OXY plans to form a geological subcommittee comprised of Working Interest Owner representatives, whose charge will be to review the engineering and geological data and recommend to the Working Interest Owners a contraction plan pursuant to Article 5.2 of the Unit Agreement. The plan, when approved by the Working Interest Owners, will be presented to the NMOCD, BLM and the SLO for approval prior to the December 1, 1994 unit contraction date.  
  
B. OXY is unable to supply the SLO with maps or other data purporting to show the productive limits of the unit area because the information has not been evaluated or approved by the geological subcommittee or the Working Interest Owners.
5. Drilling, fracture stimulation and construction work may be proposed if market conditions improve and the Working Interest Owners need for CO<sub>2</sub> warrants.

In response to your letter dated January 12, 1993, please find enclosed a current West Bravo Dome Unit map reflecting the working interest ownership and location of all wells drilled in the Unit. Also enclosed is a list reflecting the current status of all unit wells. The wells are identified by section, township, range, and lease number.

Your remaining inquiries directed to the individual Working Interest Owners will be responded to under separate letter.

Page 3  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

If there are questions regarding this Revised Plan of Development for 1993, please call Mr. David R. Evans at 915/685-5769. Your earliest consideration of this proposal would be appreciated.

Very truly yours,

OXY USA Inc.



P. N. McGee *Dr*  
Manager Land - Western Region

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401  
Attention: Mr. Duane Spence

APPROVED FOR SUBMITTAL:

OXY USA Inc.

By:   
P. N. McGee, Attorney-in-Fact

WEST BRAVO DOME CARBON DIOXIDE UNIT  
HARDING COUNTY, NEW MEXICO

<u>Well Name</u>	<u>Location</u>	<u>Lease Name</u>	<u>Unit Tract</u>	<u>Status</u>
West Bravo Dome #12	Sec. 32-20N-29E	L-5777	502	Shut-in
West Bravo Dome #11	Sec. 33-20N-29E	L-5776	501	" "
West Bravo Dome #10	Sec. 3-19N-29E	L-5813	505	" "
West Bravo Dome #9	Sec. 3-19N-29E	L-5813	506	" "
West Bravo Dome #8	Sec. 9-19N-29E	L-5815	507	" "
West Bravo Dome #1	Sec. 11-19N-29E	L-5812	504	" "
West Bravo Dome #18	Sec. 18-19N-29E	Smith	2021	" "
West Bravo Dome #7	Sec. 16-19N-29E	L-5811	503	" "
West Bravo Dome #15	Sec. 29-19N-29E	Trujillo	2007	" "
West Bravo Dome #4	Sec. 25-19N-29E	L-5817	509	" "
West Bravo Dome #2	Sec. 30-19N-30E	L-5826	510	" "
West Bravo Dome #17	Sec. 33-19N-29E	NM-19714	101	" "
West Bravo Dome #3	Sec. 36-19N-29E	L-5816-1	508	" "
West Bravo Dome #5	Sec. 31-19N-30E	L-5827	511	" "
West Bravo Dome #20	Sec. 32-19N-30E	L-5827	511	" "
West Bravo Dome #6	Sec. 6-18N-30E	L-5853	514	" "
West Bravo Dome #19	Sec. 7-18N-29E	Lauder	2027	P & A
West Bravo Dome #13	Sec. 7-18N-30E	L-5852	513	Shut-in
West Bravo Dome #22	Sec. 13-18N-29E	NM-27898	102	" "
West Bravo Dome #16	Sec. 21-18N-29E	Smith	2028	" "
West Bravo Dome #14	Sec. 20-18N-30E	L-5857-2	525	" "
West Bravo Dome #21	Sec. 2-17N-29E	L-4586	516	P & A



David R. Evans  
Senior Landman  
(915) 685-5769  
FAX (915) 685-5931

OXY USA INC.

Box 50250, Midland, TX 79710

April 14, 1993

State of New Mexico  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Mr. Floyd D. Prando

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Attention: Mr. Roy Johnson

Bureau of Land Management  
Assistant District Manager - Minerals  
1235 LaPlata Highway  
Farmington, NM 87401

Attention: Mr. Duane Spence

Re: Revised Plan of Development  
for January 1, 1993 through December 31, 1993 for  
the West Bravo Dome Carbon Dioxide Gas Unit Agreement  
Harding County, New Mexico

Gentlemen:

The State of New Mexico, Commissioner of Public Lands, reviewed OXY USA Inc.'s, et al, five (5) year Plan of Development dated October 1, 1992 and declined to approve said plan requesting instead a year to year plan of development. Enclosed, please find OXY's Revised Plan of Development for the West Bravo Dome Unit dated March 17, 1993. Also enclosed please find five (5) revised and updated plats pursuant to the State of New Mexico's request.

OXY USA Inc., as Operator, respectfully requests your earliest consideration of the enclosed plan.



Page 2  
WBDCO<sub>2</sub> Gas Unit Agreement  
Harding County, New Mexico  
4-14-93

If there are any questions, please feel free to call me at 915/685-5769.

Yours very truly,

OXY USA Inc.

A handwritten signature in black ink, appearing to read "David R. Evans", with a stylized flourish at the end.

David R. Evans  
Senior Landman

DRE:ls

cc: AMERADA HESS CORPORATION  
Attention: Mr. Jim Hefley  
218 West 6th Street  
P. O. Box 2040  
Tulsa, OK 74102

CHEVRON USA, INC.  
Attention: Mr. G. T. Wilkinson  
1301 McKinney, Room 1722  
P. O. Box 1635 (77251)  
Houston, Texas 77010

MARTIN, WILLIAMS AND JUDSON  
Attention: Mr. Robert W. Hodge  
400 West Illinois, Suite 1100  
Midland, TX 79701



JIM BACA  
COMMISSIONER

State of New Mexico  
OFFICE OF THE  
Commissioner of Public Lands  
Santa Fe

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

April 27, 1993

OXY USA Inc.  
Box 50250  
Midland, Texas 79710

Attention: Mr. David R. Evans

Re: Revised 1993 Plan of Development  
West Bravo Dome CO<sub>2</sub> Gas Unit  
January 1, 1993 thru December 31, 1993  
Harding County, New Mexico

Dear Mr. Evans:

The Commissioner of Public Lands has this date approved your revised 1993 Plan of Development for the West Bravo Dome CO<sub>2</sub> Gas Unit. Our approval is subject to like approval by all other appropriate agencies.

Your 1993 Plan as submitted includes the following:

1. Continue to monitor market conditions and Working Interest Owners need for CO<sub>2</sub> supply.
2. Continue Unit payments which escalate 5% yearly until the unit is connected and producing and continue paying shut-in royalty payments.
3. Monitor and evaluate the condition of the existing wellbores in accordance with state regulations.
4. OXY plans to form a geological subcommittee comprised of Working Interest Owner representatives, whose charge will be to review the engineering and geological data and recommend to the Working Interest Owners a contraction plan pursuant to Article 5.2 of the Unit Agreement. The plan, when approved by the Working Interest Owners, will be presented to the NMOC, BLM and the SLO for approval prior to the December 1, 1994 unit contraction date.

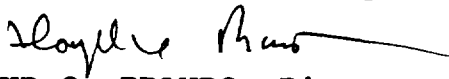
OXY USA Inc.  
April 27, 1993  
Page 2

5. Drilling, fracture stimulation and construction work may be proposed if market conditions improve and the Working Interest Owners need for CO<sub>2</sub> warrants.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY:   
FLOYD O. PRANDO, Director  
Oil/Gas and Minerals Division  
(505) 827-5744  
JB/FOP/pm  
encls.  
cc: Reader File



OXY USA INC.

Box 50250, Midland, TX 79710

March 17, 1993

State of New Mexico  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Director of the Oil and Gas Division

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Re: Revised Plan of Development  
for January 1, 1993 through  
December 31, 1993  
West Bravo Dome Carbon  
Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Revised Plan of Development for January 1, 1993 through December 31, 1993 on behalf of the Unit Working Interest Owners.

Presently, there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patentee tracts (22,860.55 acres).

During 1992, in an effort to fully assess the productive boundaries of the unitized acreage, and in accordance with the approved 1992 Plan of Development, seismic data covering 700 miles across the Bravo Dome field was acquired and reviewed along with the purchase and the interpretation of a regional gravity survey covering the greater West Bravo Dome Unit Area. The analysis of this geophysical data will allow us to target areas for potential future seismic surveys and development, and aid in determination of the

Page 2  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

productive unit boundaries for the December 1, 1994 unit contraction.

The Working Interest Owners propose a Plan of Development for January 1, 1993 through December 1, 1993 to include:

1. Continue to monitor market conditions and Working Interest Owners need for CO<sub>2</sub> supply.
2. Continue Unit payments which escalate 5% yearly until the unit is connected and producing.
3. Monitor and evaluate the condition of the existing wellbores in accordance with State regulations.
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B. OXY is unable to supply the SLO with maps or other data purporting to show the productive limits of the unit area because the information has not been evaluated or approved by the geological subcommittee or the Working Interest Owners.
5. Drilling, fracture stimulation and construction work may be proposed if market conditions improve and the Working Interest Owners need for CO<sub>2</sub> warrants.

In response to your letter dated January 12, 1993, please find enclosed a current West Bravo Dome Unit map reflecting the working interest ownership and location of all wells drilled in the Unit. Also enclosed is a list reflecting the current status of all unit wells. The wells are identified by section, township, range, and lease number.

Your remaining inquiries directed to the individual Working Interest Owners will be responded to under separate letter.

Page 3  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

If there are questions regarding this Revised Plan of Development for 1993, please call Mr. David R. Evans at 915/685-5769. Your earliest consideration of this proposal would be appreciated.

Very truly yours,

OXY USA Inc.



P. N. McGee  
Manager Land - Western Region

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401  
Attention: Mr. Duane Spence

APPROVED FOR SUBMITTAL:

CHEVRON USA, INC.

By: H. Y. Wilkinson  
~~John Prindle~~  
G.T. Wilkinson

WEST BRAVO DOME CARBON DIOXIDE UNIT  
HARDING COUNTY, NEW MEXICO

<u>Well Name</u>	<u>Location</u>	<u>Lease Name</u>	<u>Unit Tract</u>	<u>Status</u>
West Bravo Dome #12	Sec. 32-20N-29E	L-5777	502	Shut-in
West Bravo Dome #11	Sec. 33-20N-29E	L-5776	501	" "
West Bravo Dome #10	Sec. 3-19N-29E	L-5813	505	" "
West Bravo Dome #9	Sec. 3-19N-29E	L-5813	506	" "
West Bravo Dome #8	Sec. 9-19N-29E	L-5815	507	" "
West Bravo Dome #1	Sec. 11-19N-29E	L-5812	504	" "
West Bravo Dome #18	Sec. 18-19N-29E	Smith	2021	" "
West Bravo Dome #7	Sec. 16-19N-29E	L-5811	503	" "
West Bravo Dome #15	Sec. 29-19N-29E	Trujillo	2007	" "
West Bravo Dome #4	Sec. 25-19N-29E	L-5817	509	" "
West Bravo Dome #2	Sec. 30-19N-30E	L-5826	510	" "
West Bravo Dome #17	Sec. 33-19N-29E	NM-19714	101	" "
West Bravo Dome #3	Sec. 36-19N-29E	L-5816-1	508	" "
West Bravo Dome #5	Sec. 31-19N-30E	L-5827	511	" "
West Bravo Dome #20	Sec. 32-19N-30E	L-5827	511	" "
West Bravo Dome #6	Sec. 6-18N-30E	L-5853	514	" "
West Bravo Dome #19	Sec. 7-18N-29E	Launder	2027	P & A
West Bravo Dome #13	Sec. 7-18N-30E	L-5852	513	Shut-in
West Bravo Dome #22	Sec. 13-18N-29E	NM-27898	102	" "
West Bravo Dome #16	Sec. 21-18N-29E	Smith	2028	" "
West Bravo Dome #14	Sec. 20-18N-30E	L-5857-2	525	" "
West Bravo Dome #21	Sec. 2-17N-29E	L-4586	516	P & A

Unit Name WEST BRAVO DOGE CARBON DIOXIDE GAS UNIT  
Operator Cities Service Oil and Gas Corporation  
County Harding County, New Mexico

DATE	OCC CASE NO. 8351	EFFECTIVE DATE	TOTAL ACREAGE	STATE	FEDERAL	INDIAN-FEE	SEGREGATION CLAUSE	TERM
APPROVED	OCC ORDER NO. R-7707	DECEMBER 1, 1984	42,713.54	15,967.53	3,876.46	22,860.55	Modified	so long as

OCD: November 1, 1984  
Commissioner: November 20, 1984  
BLM: November 21, 1984

UNIT AREA

TOWNSHIP 20 NORTH, RANGE 29 EAST

Section 29: S/2S/2  
Section 30: SW/4SW/4  
Section 31: N/2NW/4, SW/4NW/4, SW/4, N/2SE/4  
Section 32: All  
Section 33: SW/4NE/4, S/2NW/4, N/2SW/4, SW/4SW/4, N/2SE/4, SE/4SE/4

TOWNSHIP 19 NORTH, RANGE 29 EAST

Section 2: SW/4SW/4  
Section 3: S/2NE/4, NW/4NE/4, NW/4, se/4  
Section 4: E/2NE/4, NW/4, W/2SW/4, SE/4  
Section 5: N/2  
Section 6: W/2W/2  
Section 7: NW/4NW/4, S/2NW/2, S/2  
Section 9: NE/4, W/2NW/4, E/2SW/4, SE/4  
Section 10: N/2NE/4, SE/4NE/4, NW/4, SE/4SW/4, E/2SE/4  
Section 11: SW/4NE/4, NW/4NW/4, S/2NW/4, SW/4, W/2SE/4  
Section 14: W/2NE/4, NW/4  
Section 15: NE/4, E/2NW/4  
Section 16: All  
Sections 18 and 19: All  
Section 20: W/2, W/2E/2  
Section 21: W/2NW/4, N/2SW/4  
Section 24: E/2SW/4, SE/4  
Section 25: E/2, E/2W/2  
Section 26: W/2SW/4

TOWNSHIP 19 NORTH, RANGE 29 EAST CONT....

Section 26: N/2S/2  
Section 28: SW/4NW/4, W/2SW/4, SE/4SW/4, S/2SE/4, NE/4SE/4  
Section 29: NW/4NE/4, W/2, SE/4, S/2NE/4  
Sections 30 through 33: All  
Section 34: S/2, SW/4NE/4  
Section 35: SE/4NE/4, W/2SW/4, SE/4SW/4, E/2SE/4  
Section 36: All

TOWNSHIP 39 NORTH, RANGE 30 EAST

Section 29: NW/4SW/4  
Section 30: All  
Section 31: S/2, S/2N2  
Section 32: W/2, W/2SE/4, SE/4SE/4

TOWNSHIP 18 NORTH, RANGE 29 EAST

Section 1: N/2, N/2SW/4, SE/4SW/4, SE/4  
Sections 2 through 5: All  
Section 6: NE/4, N/2NW/4, SE/4NW/4, S/2  
Sections 7 through 9: All  
Section 10: W/2W/2, E/2NW/4  
Section 12: N/2NE/4, SE/4NE/4, NE/4NW/4, SE/4SE/4  
Section 13: E/2E/2  
Section 15: W/2  
CONTINUED ON NEXT PAGE....



UNIT AREA CONTINUED

TOWNSHIP 18 NORTH, RANGE 29 EAST, CONTINUED FROM PAGE 1

Sections 16 through 21: All  
Section 22: SW/4NE/4, NW/4  
Section 28: NW/4NE/4, N/2NW/4  
Section 29: N/2N/2, SW/4NE/4, S/2NW/4, N/2SW/4, NW/4SE/4, SW/4SW/4  
Section 30: NE/4, E/2NW/4, NW/4NW/4, NE/4SW/4, N/2SE/4, SE/4SE/4  
Section 31: NE/4NE/4, S/2NE/4, N/2SW/4, SE/4SW/4, SE/4  
Section 32: All  
Section 33: SW/4, NW/4SE/4  
Section 35: E/2, E/2W/2, SW/4NW/4, W/2SW/4  
Section 36: All

TOWNSHIP 18 NORTH, RANGE 30 EAST

Section 5: E/2NE/4, NW/4NE/4, NW/4  
Section 6: N/2, SE/4SW/4, SW/4SE/4  
Section 7: NW/4NE/4, NW/4, SW/4, S/2SE/4  
Section 18: N/2NW/4, SW/4NW/4, S/2S/2  
Section 19: E/2E/2, W/2NE/4  
Section 20: NW/4  
Section 29: NW/4NW/4  
Section 30: NE/4NE/4

TOWNSHIP 17 NORTH, RANGE 29 EAST

Section 1: SW/4SW/4  
Sections 2 through 4: All  
Section 5: E/2, E/2W/2, W/2NW/4  
Section 6: N/2NE/4, SE/4NE/4, NE/4NW/4  
Section 8: E/2, E/2W/2  
Sections 9 through 11: All  
Section 12: SE/4NE/4, W/2, SE/4  
Section 13: SW/4NE/4, NW/4  
Section 14: N/2NE/4, W/2  
Sections 15 through 17: All  
Section 18: All (only those portions in Harding County)  
Section 19: E/2, NE/4SW/4 (only those portions in Harding County)  
Sections 20 through 22: All  
Section 28: N/2  
Section 29: N/2, W/2SE/4, SW/4 (only those portions in Harding County)

Unit Name
Bravo Dome Carbon Dioxide Gas Unit
Operator
Cities Service Oil and Gas Corporation
County
Harding County, New Mexico

STATE TRACT NO.	LEASE NO.	INSTI-TUTION	SEC.	TWP.	RGE.	SUBSECTION	RATIFIED		ACRES	ACREAGE		LESSEE
							DATE			NOT	RATIFIED	
S-501	L-5776-2	PEN	29	20N	29E	S $\frac{1}{2}$ S $\frac{1}{2}$						
		PEN	33	20N	29E	S $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SW $\frac{1}{4}$	9/10/84		520.00			Cities Service O&G Corp.
S-502	L-5777-2	C. S.	32	20N	29E	ALL	9/10/84		640.00			Cities Service O&G Corp.
S-503	L-5811-2	C. S.	2	19N	29E	SW $\frac{1}{4}$ SW $\frac{1}{4}$						
		C. S.	10	19N	29E	SE $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$						
		C. S.	15	19N	29E	N $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NW $\frac{1}{4}$						
		C. S.	16	19N	29E	ALL	9/10/84		920.00			Cities Service O&G Corp.
S-504	L-5812-2	T. Wat Res	11	19N	29E	SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ NNW $\frac{1}{4}$						
		T. Wat Res	14	19N	29E	W $\frac{1}{2}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$						
		T. Wat Res	15	19N	29E	S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$	9/10/84		760.00			Cities Service O&G Corp.
S-505	L-5813-2	UNIV.	3	19N	29E	Lots 2, 3, 4, S $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$	9/10/84		239.52			Cities Service O&G Corp.
S-506	L-5814-2	MIN. HOSP	3	19N	29E	SE $\frac{1}{4}$						
		MIN HOSP.	4	19N	29E	Lots 1, 3, 4, S $\frac{1}{2}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$	9/10/84		958.35			Cities Service O&G Corp.
S-507	L-5815-2	MIN. HOSP.	5	19N	29E	Lots 1, 2, 3, 4, S $\frac{1}{2}$ N $\frac{1}{2}$ , E $\frac{1}{2}$						
		MIN HOSP.	9	19N	29E	E $\frac{1}{2}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$	9/10/84		640.00			Cities Service O&G Corp.
S-508	L-5816-2	Min Hosp.	10	19N	29E	NW $\frac{1}{4}$						
		C. S.	26	19N	29E	SW $\frac{1}{4}$ SW $\frac{1}{4}$						
		C. S.	35	19N	29E	SE $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$						
		C. S.	36	19N	29E	ALL	9/10/84		800.00			Cities Service O&G Corp.
S-509	L-5817-2	T. WAT RES	24	19N	29E	E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$						
		T. WAT RES.	25	19N	29E	E $\frac{1}{2}$ , E $\frac{1}{2}$ N $\frac{1}{2}$	9/10/84		720.00			Cities Service O&G Corp.
S-510	L-5826-2	T. WAT RES	30	19N	30E	Lots 1, 2, 3, 4, E $\frac{1}{2}$ N $\frac{1}{2}$ , E $\frac{1}{2}$	9/10/84		630.96			Cities Service O&G Corp.
S-511	L-5827-2	T. WAT RES	31	19N	30E	Lots 2, 3, 4, E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$						
		T. WAT RES	32	19N	30E	NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$	9/10/84		872.44			Cities Service O&G Corp.
S-512	L-5828-2	C. S.	32	19N	30E	SW $\frac{1}{4}$ SW $\frac{1}{4}$	9/10/84		40.00			Cities Service O&G Corp.
S-513	L-5852-2	C. S.	5	18N	30E	Lots 3, 4, SE $\frac{1}{4}$ NNW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$						
		C. S.	6	18N	30E	SW $\frac{1}{4}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$	9/10/84		635.46			Cities Service O&G Corp.
S-514	L-5853-2	C. S.	7	18N	30E	Lots 1, 2, 3, 4, E $\frac{1}{2}$ N $\frac{1}{2}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$	9/10/84		476.18			Cities Service O&G Corp.
		T. WAT RES	5	18N	30E	Lots 1, 2, SW $\frac{1}{4}$ NNW $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$	9/10/84		438.34			Cities Service O&G Corp.
S-515	L-5856-2	C. S.	18	18N	30E	Lots 1, 2, 3, 4, 5, SE $\frac{1}{4}$ NNW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$	9/10/84					
		C. S.	19	18N	30E	Lots 1, 2, NE $\frac{1}{4}$ NNW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$	9/10/84					
		C. S.	16	17N	29E	NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$	8/15/84	1,200.71				Amerada Hess Corp.
S-516	LG-4586	C. S.	2	17N	29E	Lots 1, 2, 3, S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NNW $\frac{1}{4}$ , S $\frac{1}{2}$	8/15/84		317.28			Amerada Hess Corp.
S-517	LG-4601	T. WAT RES	1	18N	29E	ALL						
		T. WAT RES	1	18N	29E	Lots 1, 2, 3, 4, S $\frac{1}{2}$ N $\frac{1}{2}$						

Unit Name BRAVO DOME CARBON DIOXIDE GAS UNIT  
 Operator Cities Service Oil and Gas Corporation  
 County Harding

STATE TRACT NO.	LEASE NO.	INSTI-TUTION	SEC.	TWP.	RGE.	SUBSECTION	RATIFIED DATE	ACRES	ACREAGE NOT RATIFIED	LESSEE
S-518	LG-4603-2	C. S.	1	18N	29E	N $\frac{1}{2}$ S $\frac{1}{2}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ ALL	9/21/84	911.94		CO2-IN-ACTION
S-519	LG-4603	C. S.	12	18N	29E	NE $\frac{1}{4}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$				Amerada Hess Corp.
S-520	LG-4604	C. S.	16	18N	29E	ALL	8/15/84	880.00		Amerada Hess Corp.
S-521	LG-5052	C. S.	32	18N	29E	E $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ ALL	8/15/84	1,080.00		Amerada Hess Corp.
		C. S.	36	18N	29E					
		C. S.	19	17N	29E	Lots 4,5,6, NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$ S $\frac{1}{2}$ S $\frac{1}{2}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$				
		C. S.	20	17N	29E					
		C. S.	21	17N	29E	S $\frac{1}{2}$				
		C. S.	22	17N	29E	S $\frac{1}{2}$	9/21/84	1,156.90		Gulf Oil Corporation
S-522	LG-5053	C. S.	28	17N	29E	N $\frac{1}{2}$	9/21/84	320.00		Gulf Oil Corporation
S-523	LG-5054	C. S.	29	17N	29E	Lots 4,6,N $\frac{1}{2}$ ,W $\frac{1}{2}$ SE $\frac{1}{4}$ ,E $\frac{1}{2}$ SW $\frac{1}{4}$	9/21/84	538.45		Gulf Oil Corporation
S-524	L-5823-2	T. Wat Res	29	19N	30E	NW $\frac{1}{4}$ SW $\frac{1}{4}$	9/10/84	40.00		Cities Service O&G Corp.
S-525	L-5857-2	C. S.	20	18N	30E	NW $\frac{1}{4}$	9/10/84	160.00		Cities Service O&G Corp.
S-526	L-5859-2	C. S.	29	18N	30E	NW $\frac{1}{4}$ NW $\frac{1}{4}$	9/10/84	40.00		Cities Service O&G Corp.
S-527	L-5860-1	C. S.	30	18N	30E	NE $\frac{1}{4}$ NE $\frac{1}{4}$	9/10/84	40.00		Cities Service O&G Corp.



CARBON DIOXIDE DIVISION

February 24, 1984

Mr. Eugene F. Motter  
Engineering Manager  
Cities Service Company  
Box 1919  
Midland, TX 79702

Re: Proposed West Bravo Dome Unit

Dear Mr. Motter:

We have carefully reviewed, both internally and with our lessor, the extent of our participation in your proposed West Bravo Dome Unit as described in the draft documents you sent to us most recently on February 3, 1984.

We have concluded that we wish to participate with no more than a 160 acre tract. Please let us know which of our 160 acre tracts you would prefer to include and we will advise.

We appreciate all you have done to keep us informed regarding this proposal, and wish you success in implementing it.

Sincerely yours,



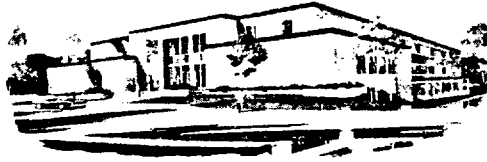
W. P. Heckel, Jr.  
Vice President and General Manager

WPH/tg1

cc Albert J. Mitchell  
William Kerr  
Walter F. X. Healy

State of New Mexico

#8351



JIM BACA  
COMMISSIONER

Commissioner of Public Lands

November 20, 1984

Cities Service Oil and Gas Corp.  
P. O. Box 300  
Tulsa, Oklahoma 74102

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148  
Express Mail Delivery Uses  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

ATTENTION: Mr. Charles E. Creekmore

Gentlemen:

The Commissioner of Public Lands has this date approved the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico. Our approval is subject to all of the conditions as stated on our Certificate of Approval. The Effective date is December 1, 1984.

Enclosed are (5) Certificates of Approval.

Your filing fee in the amount of \$2,940.00 has been received.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Ray D. Graham*  
RAY D. GRAHAM, Director  
Oil and Gas Division  
AC 505/827-5744

JB/RDG/pm  
encls.

cc: OCD-Santa Fe, New Mexico  
BLM-Albuquerque, New Mexico  
BLM-Roswell, New Mexico

Cities Service Oil and Gas Corporation  
Attention: Mr. Charles E. Creekmore  
P.O. Box 300  
Tulsa, OK 74102

Gentlemen:

We have received five copies of the proposed form of unit agreement for the West Bravo Dome Carbon Dioxide Gas Unit. In view of the small percentage of Federal lands (2.08%), designation of this unit by the Bureau of Land Management is not required. This unit will be treated as a non-federal control unit, and normal Federal supervision will be maintained only over the Federal leases involved. Four copies of the unit agreement with appropriate collateral material should be filed with this office after final approval thereof by the New Mexico Oil Conservation Division and performance of all requirements necessary to establish the effective date.

Notwithstanding the above procedure, we would appreciate being kept informed of your progress towards unitization of the area and of the docket dates arranged for the New Mexico Oil Conservation Division hearing.

We are also returning three extra copies of the proposed form of unit agreement.

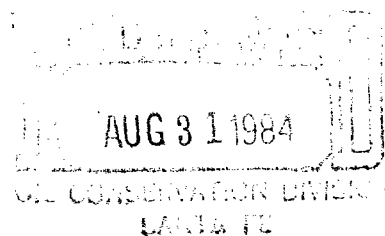
Sincerely yours,

(ORIG. SGD.) GARY A. STEPHENS

L. Paul Applegate  
District Manager

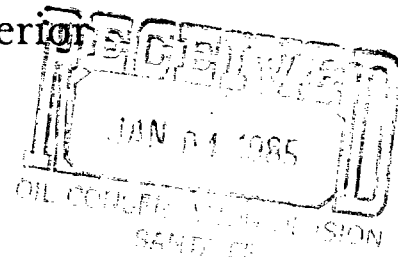
cc  
NMOCD, Santa Fe  
Micrographics  
Fluids Section (PRAH)  
Unit File  
O&G Chrono

015:RUent:sj:8/24/84:0428B





## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
ALBUQUERQUE DISTRICT OFFICE505 Marquette, N.W.  
P.O. Box 6770  
Albuquerque, New Mexico 87197-6770

Cities Service Oil & Gas Corporation  
Attn: Charles E. Creekmore  
P.O. Box 300  
Tulsa, OK 74102

Gentlemen:

One accepted copy of the West Bravo Dome Carbon Dioxide Gas Unit Agreement, Harding County, New Mexico, is enclosed. Such agreement has been assigned No. 14-08-0001-19588.

You are requested to furnish the State of New Mexico and other interested principals with appropriate evidence of this approval.

Please furnish this office the Certificate of Effectiveness as to the effective date of this unit.

Sincerely yours,

(ORIG. SGD.) GARY A. STEPHENS

For District Manager

Enclosure

cc:

Micrographics

✓ NMOCD, Santa Fe

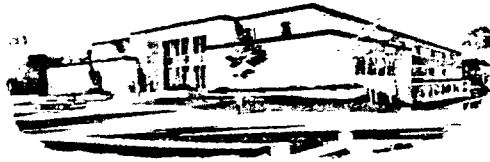
Comm. of Public Lands, Santa Fe (ltr only)

FRAH

Unit File

O&amp;G Chron

# State of New Mexico



JIM BACA  
COMMISSIONER

## Commissioner of Public Lands

December 17, 1984

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148  
Express Mail Delivery Used  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Cities Service Oil and Gas Corp.  
P. O. Box 300  
Tulsa, Oklahoma 74102

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

ATTENTION: Mr. Charles E. Creekmore

Gentlemen:

This office is in receipt of your letter dated December 7, 1984, together with two copies from Working Interest Owners and new Royalty Interest Owners from AmeriGas II, Inc., Alfred Brown, Sherrie A. Mitchell, Natalie H. Mitchell, Celedonio Vigil, Velma Stanridge, G. D. Bowie, Jr., T. E. Mitchell & Son, Inc. and Bernice Brewer.

This office has also received certified copies of the Unit Agreement and Ratifications to the West Bravo Dome CO<sub>2</sub> Gas Unit, together with revised pages 9, 11, 23 and 16 to the unit agreement and revised Exhibits A, B and C.

These ratifications and Revised Exhibits have been accepted and filed in our unit file effective as of December 1, 1984.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Ray D. Graham*  
RAY D. GRAHAM, Director  
Oil and Gas Division  
AC 505/827-5744

JB/RDG/pm

cc: OCD-Santa Fe, New Mexico  
BLM-Albuquerque, New Mexico Attn: Fluids Branch  
BLM-Roswell, New Mexico Attn: Armando Lopez



State of New Mexico

#8351



JIM BACA  
COMMISSIONER

Commissioner of Public Lands

January 24, 1985

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148  
Express Mail Delivery Uses  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Cities Service Oil and Gas Corp.  
P. O. Box 300  
Tulsa, Oklahoma 74102

Re: West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

ATTENTION: Mr. Charles E. Creekmore

Gentlemen:

This office is in receipt of your letter dated December 26, 1984, together with the Certificate of Effectiveness and ratifications to the West Bravo Dome CO<sub>2</sub> Gas Unit from Antonia V. DeSantiago, Nora Trujillo, Juanita Trujillo and Frank Garcia.

This Certificate of Effectiveness and additional ratifications have this date been accepted and filed in our unit file.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Ray D. Graham*  
RAY D. GRAHAM, Director  
Oil and Gas Division  
AC 505/827-5744

JB/RDG/pm  
cc:

OCD-Santa Fe, New Mexico  
BLM-Albuquerque, New Mexico Attn: Fluids Branch  
BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

CERTIFICATE OF EFFECTIVENESS  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

---

THIS CERTIFICATE OF EFFECTIVENESS for the UNIT AGREEMENT for the DEVELOPMENT and OPERATION of the WEST BRAVO DOME CARBON DIOXIDE GAS UNIT, located in HARDING COUNTY, NEW MEXICO, prepared for recordation and executed by CITIES SERVICE OIL AND GAS CORPORATION, a Delaware Corporation, the UNIT OPERATOR:

WITNESSETH, That in accordance with Article 9 of the UNIT AGREEMENT for the DEVELOPMENT and OPERATION of the WEST BRAVO DOME CARBON DIOXIDE GAS UNIT AGREEMENT that more than seventy-five percent (75%) of the Tract Participation in the Unit Area as shown on Exhibit C of said Unit Agreement have qualified to be included in the Unit, by execution of the Unit Agreement or a Ratification thereof, or pursuant to specific provisions in certain leases allowing the interests to be contributed to a Unit of this type, or as otherwise provided in Article 9; and

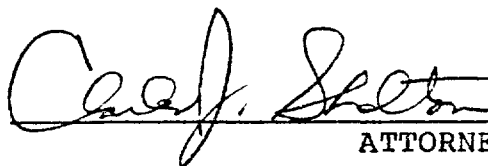
THAT the Oil Conservation Division of the State of New Mexico, by order dated November 1, 1984, Case No. 8351, Order No. R-7707, approved said WEST BRAVO DOME CARBON DIOXIDE GAS UNIT, said order became effective subsequent to the approval of the Unit by a New Mexico State Land Office Certificate of Approval executed by the Commissioner of Public Lands, State of New Mexico dated November 20, 1984, and a Certificate of Determination approved by the District Manager, Bureau of Land Management, Department of the Interior dated November 21, 1984, Contract Number 14-08-0001-19588; and

THAT a Counterpart of the UNIT AGREEMENT for the DEVELOPMENT and OPERATION of the WEST BRAVO DOME CARBON DIOXIDE GAS UNIT, and Ratifications thereof, were filed of record in Harding County on December 12, 1984, in Book 14, Page 18, et seq., Oil and Gas Lease Records, Harding County, New Mexico; and

THAT, the EFFECTIVE DATE of the UNIT AGREEMENT for the DEVELOPMENT and OPERATION of the WEST BRAVO DOME CARBON DIOXIDE GAS UNIT is December 1, 1984, at 7:00 a.m., Mountain Standard Time.

IN WITNESS WHEREOF, this CERTIFICATE OF EFFECTIVENESS executed on the date of acknowledgment by UNIT OPERATOR.

CITIES SERVICE OIL AND GAS CORPORATION



ATTORNEY-IN-FACT

CE

ACKNOWLEDGMENT

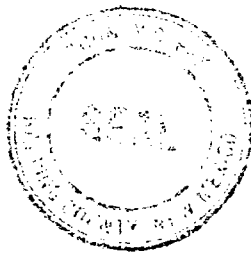
STATE OF OKLAHOMA )  
 ) SS  
COUNTY OF TULSA )

The foregoing instrument was acknowledged before me this 19<sup>th</sup>  
day of December, 1984, by Charles J. Shelton, as  
Attorney-in-Fact on behalf of CITIES SERVICE OIL AND GAS CORPORATION.

My Commission Expires:

September 6, 1987

Geraldine Waldschmidt  
Notary Public in and for  
Tulsa County, Oklahoma



State of New Mexico }  
County of Harding } ss

This instrument was filed for record on this  
21<sup>st</sup> day of December A. D. 1984  
At 5:30 o'clock P.M. and duly recorded in  
Book 14 of O&G page 388-389

\_\_\_\_\_  
County Clerk  
By Julie Martinez Deputy



State of New Mexico )  
County of Harding ) ss 12-21-84  
Date

I hereby certify this to be  
a true copy of the original  
filed in this office.

Julie Martinez by a.n.  
Clerk of Harding Co.



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
ALBUQUERQUE DISTRICT OFFICE  
435 MONTANO N.E.  
ALBUQUERQUE, NEW MEXICO 87107



West Bravo Dome (POD)  
3180 (015)

JAN 11 1989

OXY USA Inc.  
Attn: Robert D. Hunt  
Box 50250  
Midland, TX 79710

#8351

Gentlemen:

One approved copy of your 1989 Plan of Development for the West Bravo Dome Unit area, Harding County, New Mexico is enclosed. Such plan, proposing no development drilling for 1989 was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

If you have any questions, please contact Gail Keller at the above address or telephone (505) 761-4503.

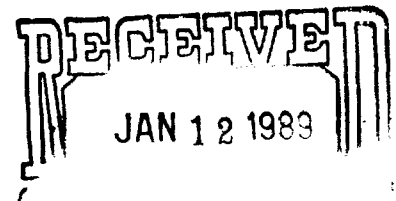
Sincerely,

(Orig. Signed) - Sid Vogelpohl

Assistant District Manager  
Mineral Resources

Enclosure

✓ NMOCD, Santa Fe (w/o encl.)





OXY USA INC.

Box 50250, Midland, TX 79710

November 23, 1988

Re: Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Mr. Floyd O. Prando  
Director Oil and Gas Division  
Commissioner of Public Lands Office  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87504

State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

In accordance with Article 4 of the West Bravo Dome Carbon Dioxide Gas Unit (WBDCDGU) Agreement, and New Mexico Oil Conservation Division Order No. 7707, OXY USA Inc., as Unit Operator, hereby submits three (3) copies of our Plan of Development for 1988-1989 on behalf of the Unit Working Interest Owners.

There are seventeen (17) shut-in carbon dioxide gas wells in the Unit which are capable of carbon dioxide production. No additional wells have been drilled since unitization. There has been no production of CO<sub>2</sub> since unitization. The Unit contains 50,020.78 acres consisting of 17 federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1987, bottom hole pressure measurements were taken on thirteen (13) wells. Reservoir models were updated and testimony supporting the current 640 acre spacing was presented to the New Mexico Oil Conservation Division at a hearing held August 26, 1987.

Due to the continued depression of oil prices and CO<sub>2</sub> demand, we have no specific plans for development drilling or hook up work during 1988. We have, however, continued to monitor economic conditions required for development at WBDCDGU. At current price levels, Working Interest Owners cannot support immediate development at WBDCDGU.

**Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico  
Page - 2**

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For 1989, no development drilling is planned. OXY will continue to monitor market conditions in order to determine appropriate timing for additional development. We do intend, however, to recommend some workover activity within the Unit. Completion techniques have been improved over the years, primarily as a result of Amoco's experiences at Bravo Dome. In order to assess more fully the true productive capacity of WBDCDGU wells, OXY intends to recommend to Working Interest Owners that at least three (3) workovers of existing wells be approved. These workovers would consist of adding new perforations where justified, fracing the pay using the latest techniques and flow testing. Specific wells have yet to be identified.

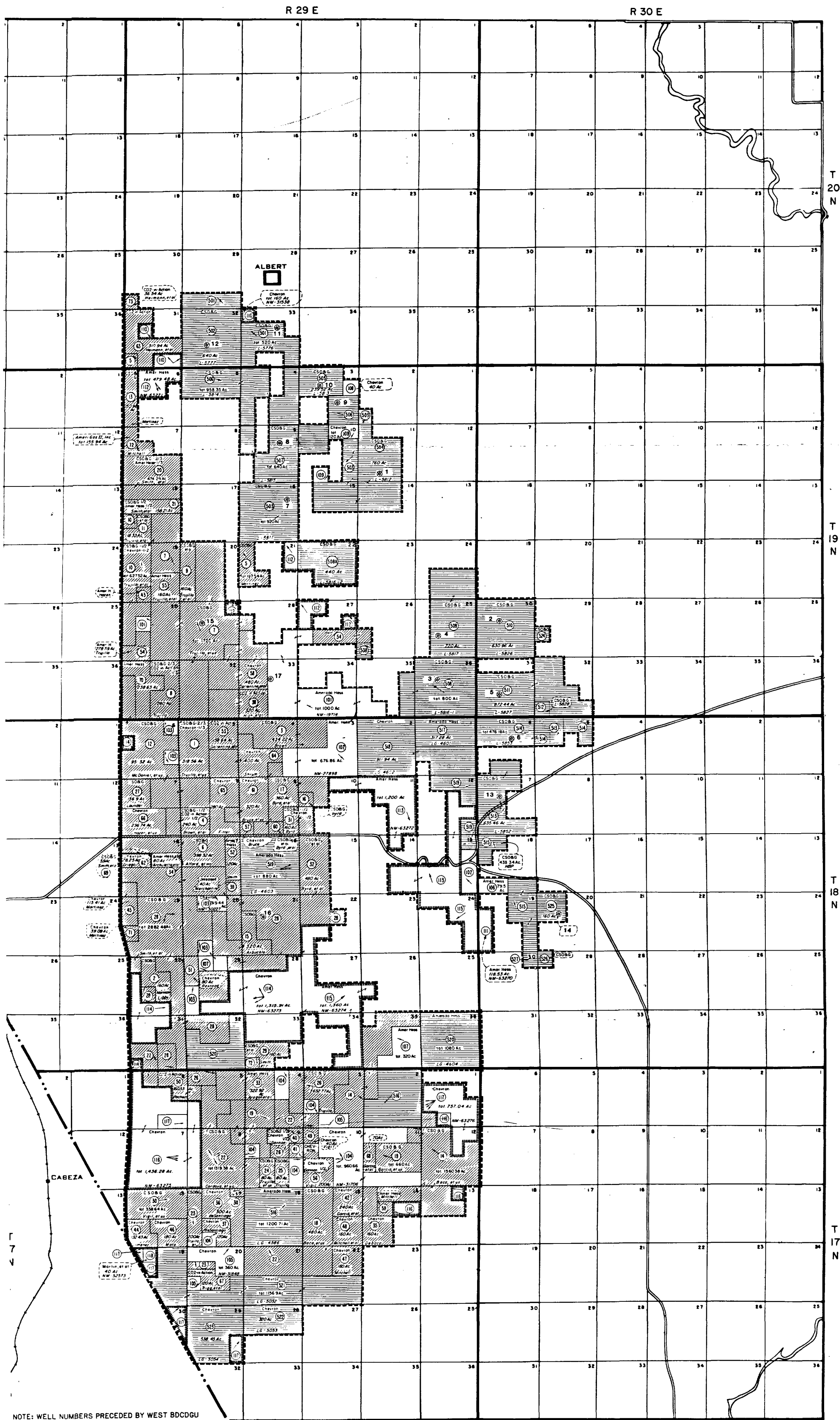
A plat of the WBDCDGU is attached showing the Unit outline and the location of wells drilled to date. If you have any questions on this matter, please feel free to call me at 915/685-5744. Your early approval of this proposed plan of development would be appreciated.

Sincerely.



Robert D. Hunt  
Engineering Manager  
Midland District

RDH:cm  
Enc/xc: Assistant District Manager - Minerals  
Bureau of Land Management  
P. O. Box 6770  
Albuquerque, New Mexico 87197

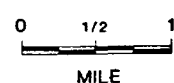


NOTE: WELL NUMBERS PRECEDED BY WEST BDCDGU  
AS DESIGNATED BY NEW MEXICO OIL CORPORATION  
COMMISSION.

18 FEDERAL TRACTS	10,743.70 AC.	21.48 % OF UNIT
27 STATE TRACTS	16,416.53 AC.	32.82 % OF UNIT
73 PATENTED TRACTS	22,860.55 AC.	45.70 % OF UNIT
<b>TOTAL</b>	<b>50,020.78 AC.</b>	<b>100.00 % OF UNIT</b>

- FEDERAL LANDS (F - Series numbers on Exhibit "B")
- ▨ STATE OF NEW MEXICO LANDS (S - Series numbers on Exhibit "B")
- ▩ PATENTED LANDS (2000 Series numbers on Exhibit "B")
- TRACT NUMBERS AS LISTED IN EXHIBIT "B"
- UNIT BOUNDARY
- FIRST ENLARGEMENT

**EXHIBIT "A"**  
**WEST BRAVO DOME UNIT AREA**  
**HARDING COUNTY, NEW MEXICO**



REVISED 9-30-86



OXY USA INC.  
Box 50250, Midland, TX 79710

November 23, 1988

Re: Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Mr. Floyd O. Prando  
Director Oil and Gas Division  
Commissioner of Public Lands Office  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87504

State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

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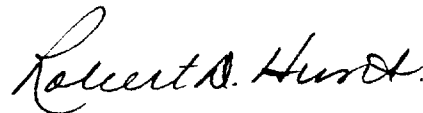
**Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico  
Page - 2**

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For 1989, no development drilling is planned. OXY will continue to monitor market conditions in order to determine appropriate timing for additional development. We do intend, however, to recommend some workover activity within the Unit. Completion techniques have been improved over the years, primarily as a result of Amoco's experiences at Bravo Dome. In order to assess more fully the true productive capacity of WBDCDUGU wells, OXY intends to recommend to Working Interest Owners that at least three (3) workovers of existing wells be approved. These workovers would consist of adding new perforations where justified, fracing the pay using the latest techniques and flow testing. Specific wells have yet to be identified.

A plat of the WBDCDUGU is attached showing the Unit outline and the location of wells drilled to date. If you have any questions on this matter, please feel free to call me at 915/685-5744. Your early approval of this proposed plan of development would be appreciated.

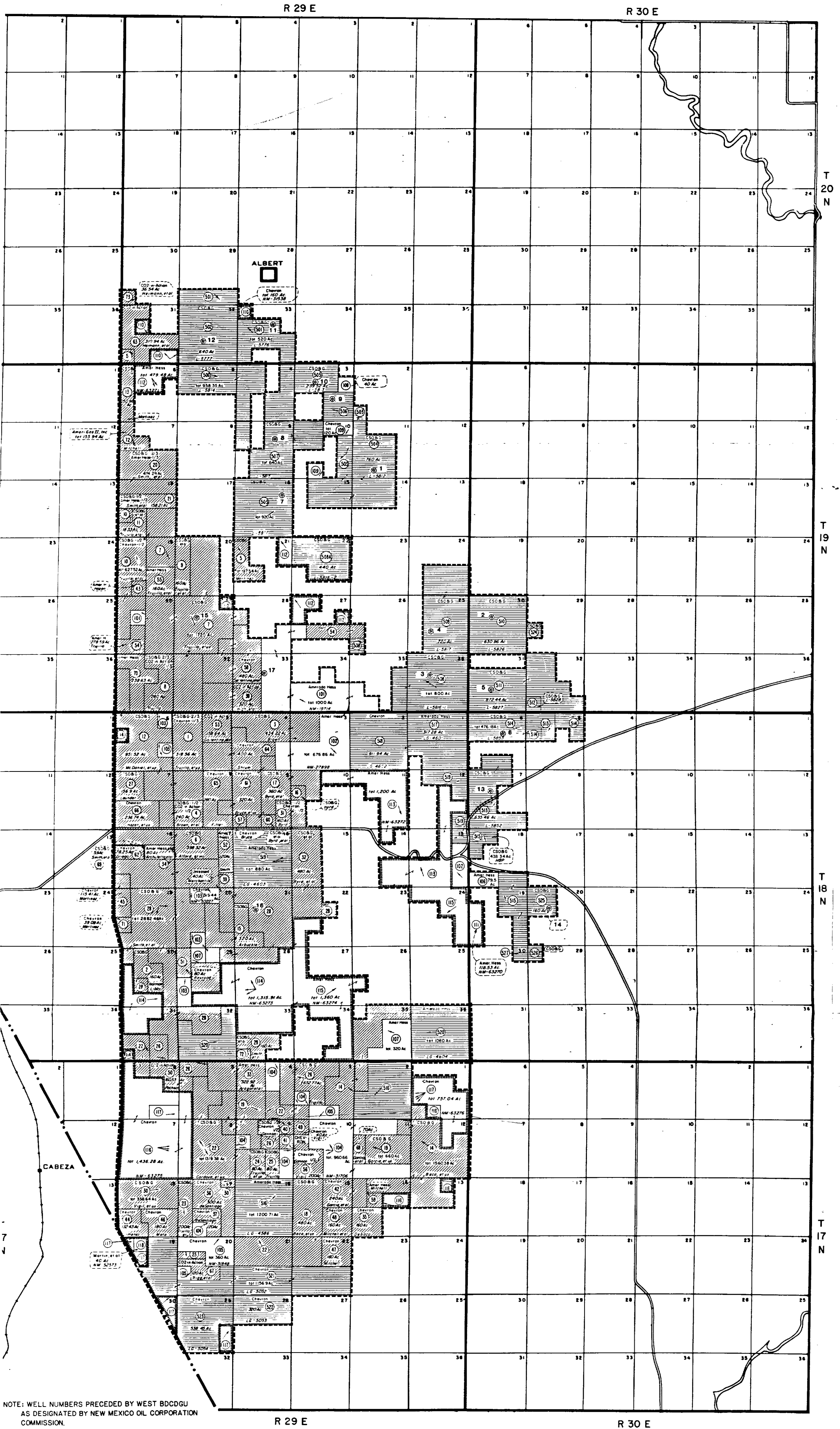
Sincerely.



Robert D. Hunt  
Engineering Manager  
Midland District

RDH:cm

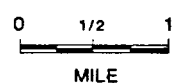
Enc/xc: Assistant District Manager - Minerals  
Bureau of Land Management  
P. O. Box 6770  
Albuquerque, New Mexico 87197



18 FEDERAL TRACTS	10,743.70 AC.	21.48 % OF UNIT
27 STATE TRACTS	16,416.53 AC.	32.82 % OF UNIT
73 PATENTED TRACTS	22,860.55 AC.	45.70 % OF UNIT
TOTAL	50,020.78 AC.	100.00 % OF UNIT

- FEDERAL LANDS (F-- Series numbers on Exhibit "B")
- STATE OF NEW MEXICO LANDS (S--Series numbers on Exhibit "B")
- PATENTED LANDS (2000 Series numbers on Exhibit "B")
- TRACT NUMBERS AS LISTED IN EXHIBIT "B"
- UNIT BOUNDARY
- FIRST ENLARGEMENT

EXHIBIT "A"  
WEST BRAVO DOME UNIT AREA  
HARDING COUNTY, NEW MEXICO



REVISED 9-30-86



OXY USA INC.

Box 50250, Midland, TX 79710

November 23, 1988

Re: Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico

Mr. Floyd O. Prando  
Director Oil and Gas Division  
Commissioner of Public Lands Office  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87504

State of New Mexico  
Energy and Minerals Dept.  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

In accordance with Article 4 of the West Bravo Dome Carbon Dioxide Gas Unit (WBDCDGU) Agreement, and New Mexico Oil Conservation Division Order No. 7707, OXY USA Inc., as Unit Operator, hereby submits three (3) copies of our Plan of Development for 1988-1989 on behalf of the Unit Working Interest Owners.

There are seventeen (17) shut-in carbon dioxide gas wells in the Unit which are capable of carbon dioxide production. No additional wells have been drilled since unitization. There has been no production of CO<sub>2</sub> since unitization. The Unit contains 50,020.78 acres consisting of 17 federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1987, bottom hole pressure measurements were taken on thirteen (13) wells. Reservoir models were updated and testimony supporting the current 640 acre spacing was presented to the New Mexico Oil Conservation Division at a hearing held August 26, 1987.

Due to the continued depression of oil prices and CO<sub>2</sub> demand, we have no specific plans for development drilling or hook up work during 1988. We have, however, continued to monitor economic conditions required for development at WBDCDGU. At current price levels, Working Interest Owners cannot support immediate development at WBDCDGU.

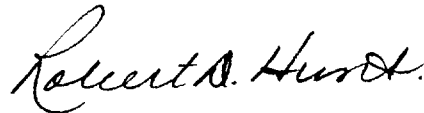
**Plan of Development  
West Bravo Dome Carbon Dioxide Gas Unit  
Harding County, New Mexico  
Page - 2**

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For 1989, no development drilling is planned. OXY will continue to monitor market conditions in order to determine appropriate timing for additional development. We do intend, however, to recommend some workover activity within the Unit. Completion techniques have been improved over the years, primarily as a result of Amoco's experiences at Bravo Dome. In order to assess more fully the true productive capacity of WBDCDUGU wells, OXY intends to recommend to Working Interest Owners that at least three (3) workovers of existing wells be approved. These workovers would consist of adding new perforations where justified, fracing the pay using the latest techniques and flow testing. Specific wells have yet to be identified.

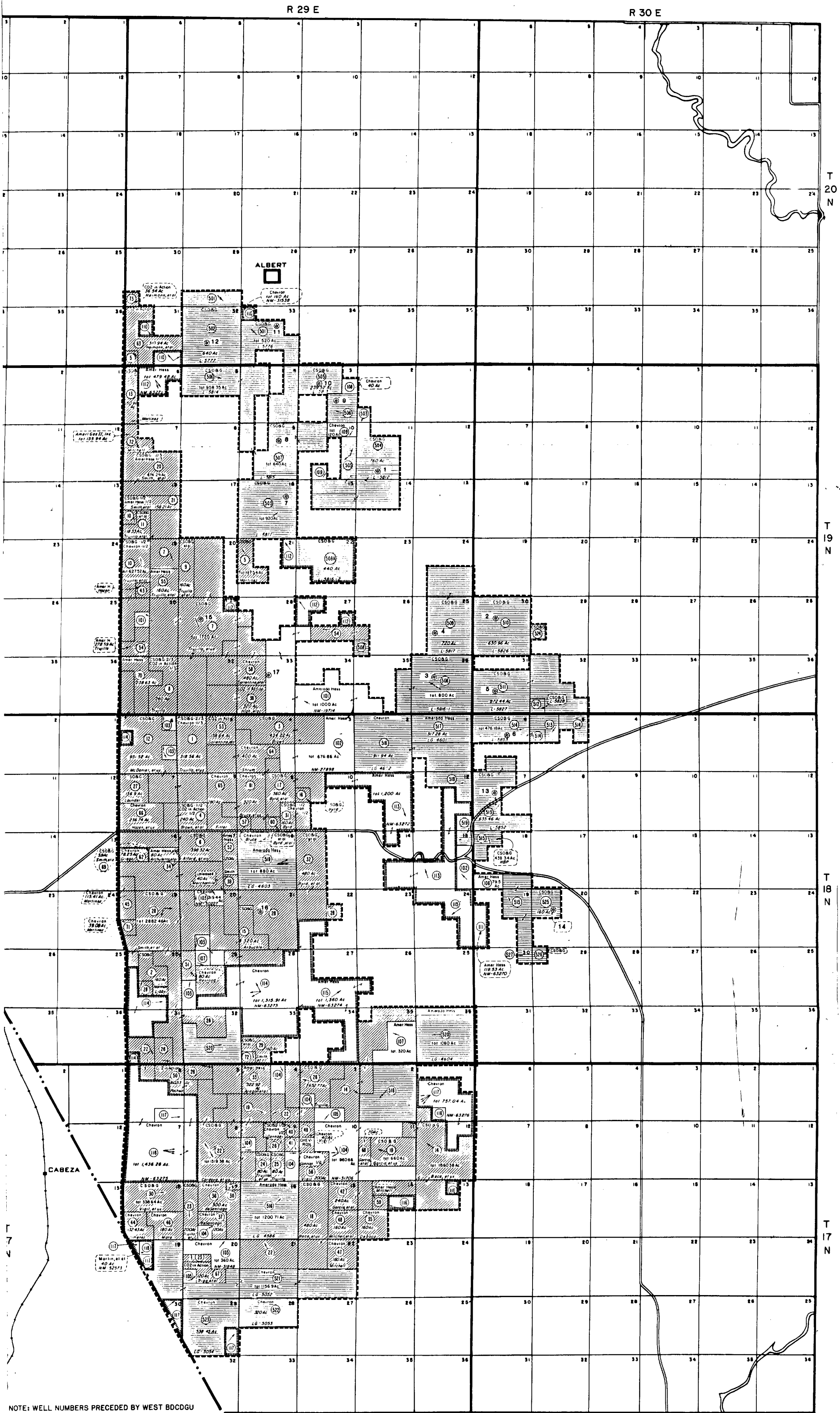
A plat of the WBDCDUGU is attached showing the Unit outline and the location of wells drilled to date. If you have any questions on this matter, please feel free to call me at 915/685-5744. Your early approval of this proposed plan of development would be appreciated.

Sincerely.



Robert D. Hunt  
Engineering Manager  
Midland District

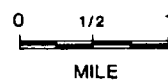
RDH:cm  
Enc/xc: Assistant District Manager - Minerals  
Bureau of Land Management  
P. O. Box 6770  
Albuquerque, New Mexico 87197



18 FEDERAL TRACTS 10,743.70 AC. 21.48 % OF UNIT  
27 STATE TRACTS 16,416.53 AC. 32.82 % OF UNIT  
73 PATENTED TRACTS 22,860.55 AC. 45.70 % OF UNIT  
TOTAL 50,020.78 AC. 100.00 % OF UNIT

- FEDERAL LANDS (F-- Series numbers on Exhibit "B")
- STATE OF NEW MEXICO LANDS (S-- Series numbers on Exhibit "B")
- PATENTED LANDS (2000 Series numbers on Exhibit "B")
- TRACT NUMBERS AS LISTED IN EXHIBIT "B"
- UNIT BOUNDARY
- FIRST ENLARGEMENT

EXHIBIT "A"  
WEST BRAVO DOME UNIT AREA  
HARDING COUNTY, NEW MEXICO



REVISED 9-30-86

# State of New Mexico



W.R. HUMPHRIES  
COMMISSIONER



## Commissioner of Public Lands

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-947

November 28, 1988

Oxy USA, Inc.  
Attn: Attn: Mr. Robert D. Hunt  
P. O. Box 50250  
Midland, Texas 79710

Re: 1988-1989 Plan of Development Plan of Development  
West Bravo Dome Carbon Dioxide Ut. Unit  
Harding County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development.

Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES  
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*  
FLOYD O. PRANDO, Director  
Oil and Gas Division  
(505) 827-5744

cc: OCD  
BLM

Land Management  
Generals Division  
435 Montano NE  
Albuquerque, NM 87107

West Bravo Dome  
Unit POD  
3180 (015)

8351

Cities Service Oil and Gas Co.  
Attention E. F. Motter  
P.O. Box 1919  
Midland, Texas 79702

Gentlemen:

Two approved copies of your 1987 Plan of Development for the West Bravo Dome Unit area, Harding County, New Mexico are enclosed. Such plan, proposing no additional development of the West Bravo Dome Carbon Dioxide Gas Unit, is approved this date subject to like approval by the appropriate officials of the State of New Mexico.

If you have any questions, please contact Gail Keller at the above address or telephone (505) 761-4503.

Sincerely,

(Orig. Signed by Sid Vogelbach)

For District Manager

Enclosure(s)

cc  
Micrographics 943B-1  
Flu Section FRAH  
✓NMO Santa Fe  
Comf Pub. Lands, Santa Fe  
O&G on

015:er:gcb:12-286:2540M



OXY USA INC.  
Box 50250, Midland, TX 79710

April 4, 1990

APR 6 1990

#8351

CERTIFIED

Oil and Gas Conservation Division of the  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87504-1148

Re: Ratifications of Unit and  
Unit Operating Agreement,  
~~XXXXXXXXXXXXXXXXXXXX Gas Unit~~  
Harding County, New Mexico  
(NMC-5467)

Gentlemen:

Enclosed are instruments entitled "Ratification of Agreements Entitled Unit Agreement or Unit Operating Agreement or both for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit" which have been executed, acknowledged and recorded. The following is a list of the lessors that have executed:

- 1) Albiria Martinez - Lot 4, Section 18 and Lots 1, 2 and 3, Section 19, T18N-R29E, N.M.P.M., West Bravo Dome Unit Tracts 2045 and 2071; two (2) enclosures
- 2) Lonita Hazen - various lands in Section 7, T18N-R29E, West Bravo Dome Unit Tract 2066; two (2) enclosures
- 3) Antonio and Mickey Griego - various lands in Section 18, T18N-R29E, West Bravo Dome Unit Tract 2062; two (2) enclosures
- 4) William G. Rexroad - W/2NW/4 Section 29, T18N-R29E, West Bravo Dome Unit Tract 2051; two (2) enclosures
- 5) James H. Rexroad - W/2NW/4 Section 29, T18N-R29E, West Bravo Dome Unit Tract 2051; two (2) enclosures
- 6) Clorinda Jimenez - Lots 3 and 4, SE/4SW/4 and W/2NE/4 SW/4 Section 18, T17N-R29E, West Bravo Dome Unit Tract 2044; (2) enclosures

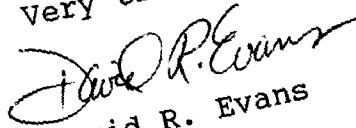
Oxy USA Inc., as operator of the West Bravo Dome Unit, requests these joinders be accepted for inclusion into the unit.



Page 2  
Ratifications of Unit  
and Unit Operating Agreement  
West Bravo Dome CO2 Gas Unit  
Harding County, New Mexico  
April 4, 1990

If there are any questions, please call me at (915) 685-5769.

Very truly yours,

A handwritten signature in dark ink, appearing to read "David R. Evans", written in a cursive style.

David R. Evans  
Landman

DRE:ls

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

DATE:	<u>November 13, 1989</u>	NAME:	
		HER ( <u>  t  </u> ) MARK	
		ALBIRIA MARTINEZ A/K/A	
		ELVIRA MARTINEZ	

WORKING INTEREST OWNER

DATE:	_____	NAME:	_____
DATE:	_____		_____
ATTEST:	<u>  S  </u>	BY:	_____

The foregoing Ratification of Agreements Entitled "Unit Agreement" or "Unit Operating Agreement" or both for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, was signed in our presence by the above named person, Albiria Martinez, by making her mark, she being unable to write, the contents of the foregoing instrument having been read to her, and she having understood the same.

WITNESS our hands this 13<sup>th</sup> day of Nov, 1989

WITNESS TO THE SIGNATURE OF ALBIRIA MARTINEZ

Jose M Martinez  
WITNESS (Name)

WITNESS TO THE SIGNATURE OF ALBIRIA MARTINEZ

Virginia H. Reyes  
WITNESS (Name)

ACKNOWLEDGEMENTS

STATE OF Quay S  
COUNTY OF New Mexico S

The foregoing instrument was acknowledged before me this 13<sup>th</sup> day of Nov, 1989, by ALBIRIA MARTINEZ

My commission expires:

4-10-93

Mary Dume  
Notary Public

THE STATE OF New Mexico S  
COUNTY OF Quay S

BEFORE ME, the undersigned authority, on this day personally appeared Jose M Martinez and Virginia H Reyes, known to me to be the persons whose names are subscribed as witnesses to the foregoing instrument of writing, and after being duly sworn by me on oath declared that they saw Albiria Martinez, make her mark on such instrument and hear such person declare, in their presence, that she had executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 13<sup>th</sup> day of Nov, 1989

My commission expires:

4-10-93

Mary Dume  
Notary Public

State of New Mexico  
County of Harding

This instrument was filed for record on the 18 day of Dec A. D. 89  
At 11:00 o'clock A.M., and duly recorded to  
Book 17 of OG page 288-289

County Clerk  
Elizabeth Martinez



RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:

DATE: \_\_\_\_\_

BILLY MAX HAZEN

DATE: \_\_\_\_\_

*Lonita Hazen*  
LONITA HAZEN

ATTEST: \_\_\_\_\_

BY: \_\_\_\_\_

WORKING INTEREST OWNER

NAME:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

ATTEST: \_\_\_\_\_

BY: \_\_\_\_\_

11578-291

ACKNOWLEDGEMENT

STATE OF New Mexico §  
COUNTY OF Harding §

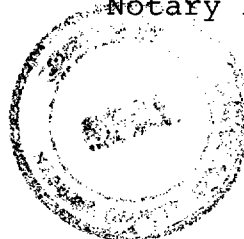
SINGLE PERSON  
(~~Married Couple~~)

The foregoing instrument was acknowledged before me this  
6<sup>th</sup> day of November, 19 89, by BILLY MAX HAZEN,  
and his wife, LONITA HAZEN.

My commission expires:

Nov. 17, 1990

Donna Sue Nelson  
Notary Public



State of New Mexico }  
County of Harding }

This instrument was filed for record on 18  
day of Dec, A. D. 89

At 11:26 o'clock A. M., and duly recorded in

Book 17 of 06 page 276-277

County Clerk  
By Elizabeth Martine Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
 "UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
 OR BOTH  
 FOR THE DEVELOPMENT AND OPERATION OF THE  
 WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
 HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

DATE: <u>10-27-89</u>	NAME: <u>Antonio Griego</u> ANTONIO GRIEGO
DATE: <u>10 27 89</u>	<u>Mickey Griego</u> MICKEY GRIEGO
ATTEST: _____	BY: _____

WORKING INTEREST OWNER

DATE: _____	NAME: _____
DATE: _____	_____
ATTEST: _____	BY: _____

11579-293

ACKNOWLEDGEMENT

STATE OF New Mexico S  
COUNTY OF Harding S

(Married Couple)

The foregoing instrument was acknowledged before me this 27th day of Oct., 19 89, by ANTONIO GRIEGO, and his wife, MICKEY GRIEGO.

My commission expires:

3-10 93

Carrie Archuleta  
Notary Public

**Carrie Archuleta**  
**Notary Public**  
**State of New Mexico**



State of New Mexico }  
County of Harding }

This instrument was filed for record on this 18 day of Dec. A. D. 89  
At 11:10 o'clock A. M., and duly recorded in  
Book 17 of OC page 292-293

County ( )  
By Elizabeth Martinez Date

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:		
DATE:	<u>Oct 23 1989</u>	<u>William G. Rexroad</u> WILLIAM G. REXROAD
DATE:	_____	_____
ATTEST:	_____	BY: _____

WORKING INTEREST OWNER

NAME:		
DATE:	_____	_____
DATE:	_____	_____
ATTEST:	_____	BY: _____



11580-295

ACKNOWLEDGEMENT

STATE OF Pennsylvania § (Individual)  
COUNTY OF Union §

The foregoing instrument was acknowledged before me this  
23rd day of October, 19 89, by WILLIAM G. REXROAD

My commission expires:

Renda J. Shively  
Notary Public

NOTARIAL SEAL  
RENDA J. SHIVELY, NOTARY PUBLIC  
MIFFLINBURG BOROUGH, UNION COUNTY  
MY COMMISSION EXPIRES NOV. 16, 1992  
Member, Pennsylvania Association of Notaries



State of New Jersey } ss  
County of Hudson

This instrument was filed for record on this

18 day of Dec, A. D. 89

at 11:14 o'clock A.M., and duly recorded in

Book 17 of OG page 294-295

County Clerk

By Elizabeth Martine Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:

DATE: October 21, 1989

James H. REXROAD  
JAMES H. REXROAD

DATE: \_\_\_\_\_

\_\_\_\_\_

ATTEST: \_\_\_\_\_

BY: \_\_\_\_\_

WORKING INTEREST OWNER

NAME:

DATE: \_\_\_\_\_

\_\_\_\_\_

DATE: \_\_\_\_\_

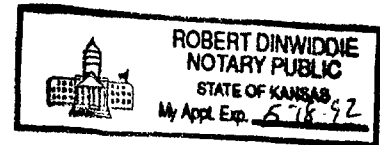
\_\_\_\_\_

ATTEST: \_\_\_\_\_

BY: \_\_\_\_\_

11581-297

ACKNOWLEDGEMENT



STATE OF Kansas § (Individual)  
COUNTY OF Reno §

The foregoing instrument was acknowledged before me this  
21st day of October, 19 89, by JAMES H. REXROAD

My commission expires:

5-18-92

Robert Dinwiddie  
Notary Public



State of New Mexico } ss  
County of Harding

This instrument was filed for record on this  
18 day of Dec, A. D. 89  
At 11:16 o'clock A. M., and duly recorded in  
Book 12 of OG page 296-297

County Clerk  
By Elizabeth Martin Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

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WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

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The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:	
DATE:	<u>OCTOBER 17, 1984</u>
	<u>Clorinda Jimenez</u> CLORINDA JIMENEZ
DATE:	_____
ATTEST:	BY: _____

WORKING INTEREST OWNER

NAME:	
DATE:	_____
DATE:	_____
ATTEST:	BY: _____

11582-299

ACKNOWLEDGEMENT

STATE OF TEXAS

§

(Individual)

§

COUNTY OF POTTER

§

The foregoing instrument was acknowledged before me this  
17th day of OCTOBER, 19 89, by CLORINDA JIMENEZ

My commission expires:

October 17 1992

Mary N. D. No. 1

Notary Public

MARION B. BRYANT



County of Harding

This instrument was filed for record on this

18 day of Dec, A. D. 89

At 11:19 o'clock A. M., and duly recorded in

Book 19 of 16 page 298-299

County Clerk

Elizabeth Martini Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

DATE:	<u>Nov 12, 1984</u>	NAME:	
		HER <u>X</u>	) MARK
		ALBIRIA MARTINEZ A/K/A	
		ELVIRA MARTINEZ	

WORKING INTEREST OWNER

DATE:	_____	NAME:	_____
DATE:	_____		_____
ATTEST:	_____	BY:	_____

1577-287

The foregoing Ratification of Agreements Entitled "Unit Agreement" or "Unit Operating Agreement" or both for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico, was signed in our presence by the above named person, Albiria Martinez, by making her mark, she being unable to write, the contents of the foregoing instrument having been read to her, and she having understood the same.

WITNESS our hands this 13<sup>th</sup> day of Nov, 1989.

WITNESS TO THE SIGNATURE OF ALBIRIA MARTINEZ

Jose N Martinez  
WITNESS (Name)

WITNESS TO THE SIGNATURE OF ALBIRIA MARTINEZ

Virginia I. Reyes  
WITNESS (Name)

ACKNOWLEDGEMENTS

STATE OF New Mexico §  
COUNTY OF QUAY §

The foregoing instrument was acknowledged before me this 13<sup>th</sup> day of Nov, 1989, by ALBIRIA MARTINEZ.

My commission expires:

4-10-93

Maria B. Jones  
Notary Public

THE STATE OF New Mex §  
COUNTY OF QUAY §

BEFORE ME, the undersigned authority, on this day personally appeared Jose N Martinez and Virginia I. Reyes, known to me to be the persons whose names are subscribed as witnesses to the foregoing instrument of writing, and after being duly sworn by me on oath declared that they saw Albiria Martinez, make her mark on such instrument and hear such person declare, in their presence, that she had executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 13<sup>th</sup> day of Nov, 1989

My commission expires:

4-10-93

Maria B. Jones  
Notary Public

State of New Mexico }  
County of Harding }

This instrument was filed for record on this  
18 day of Dec, A. D. 89  
at 11:00 o'clock A.M., and duly recorded in  
Book 17 of 66 page 288-289

County Clerk  
Elizabeth Martinez Deputy



RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:

DATE: \_\_\_\_\_

\_\_\_\_\_  
BILLY MAX HAZEN

DATE: \_\_\_\_\_

\_\_\_\_\_  
*Lonita Hazen*  
LONITA HAZEN

ATTEST: \_\_\_\_\_

BY: \_\_\_\_\_

WORKING INTEREST OWNER

NAME:

DATE: \_\_\_\_\_

\_\_\_\_\_

DATE: \_\_\_\_\_

\_\_\_\_\_

ATTEST: \_\_\_\_\_

BY: \_\_\_\_\_



11578-291

ACKNOWLEDGEMENT

STATE OF New Mexico §  
COUNTY OF Harding §

SINGLE PERSON  
(~~Married Couple~~)

The foregoing instrument was acknowledged before me this  
6<sup>th</sup> day of November, 19 89, by BILLY MAX HAZEN,  
and his wife, LONITA HAZEN.

My commission expires:

Nov. 17, 1990

Donna Sue Nelson  
Notary Public



State of New Mexico  
County of Harding }

This instrument was filed for record on this  
18 day of Dec A.D. 89  
At 11:06 o'clock A.M., and duly recorded in  
Book 17 of Ob page 290-291

County Clerk  
By Elizabeth Martinez Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

<p>DATE: <u>10-27-89</u></p> <p>DATE: <u>10 27-89</u></p> <p>ATTEST: _____</p>	<p>NAME: _____</p> <p><u>Antonio Griego</u> ANTONIO GRIEGO</p> <p><u>Mickey Griego</u> MICKEY GRIEGO</p> <p>BY: _____</p>
--	---

WORKING INTEREST OWNER

<p>DATE: _____</p> <p>DATE: _____</p> <p>ATTEST: _____</p>	<p>NAME: _____</p> <p>_____</p> <p>_____</p> <p>BY: _____</p>
--	---

11574-293

ACKNOWLEDGEMENT

STATE OF New Mexico § (Married Couple)  
COUNTY OF Harding §

The foregoing instrument was acknowledged before me this 27th day of Oct., 19 89, by ANTONIO GRIEGO, and his wife, MICKEY GRIEGO.

My commission expires:

3-10-93

Carrie Archuleta  
Notary Public

**Carrie Archuleta  
Notary Public  
State of New Mexico**



State of New Mexico } ss  
County of Harding

This instrument was filed for record on this 18 day of Dec. A. D. 89  
At 11:10 o'clock A. M. and duly recorded in  
Book 17 of OG page 292-293

County Clerk  
By Elizabeth Martinez Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:	
DATE:	<u>Oct 23 1989</u>
	<u>William G. REXROAD</u>
	WILLIAM G. REXROAD
DATE:	_____
ATTEST:	BY: _____

WORKING INTEREST OWNER

NAME:	
DATE:	_____
DATE:	_____
ATTEST:	BY: _____

11580-295

ACKNOWLEDGEMENT

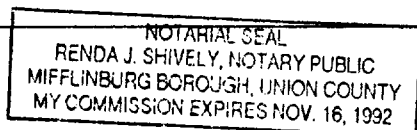
STATE OF Pennsylvania  
COUNTY OF Union

S  
S  
S

(Individual)

The foregoing instrument was acknowledged before me this  
23rd day of Oct, 19 89, by WILLIAM G. REXROAD

My commission expires:



Member, Pennsylvania Association of Notaries

Renda J. Shively  
Notary Public



State of New Mexico }  
County of Harding }

This instrument was filed for record on this  
18 day of Dec A. D. 89  
At 11:14 o'clock A. M., and duly recorded in  
Book 17 of OG page 294-295

County Clerk  
By Elizabeth Moring Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
 "UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
 OR BOTH  
 FOR THE DEVELOPMENT AND OPERATION OF THE  
 WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
 HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.


WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

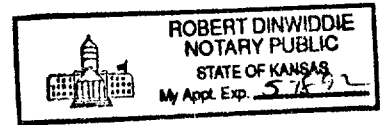
NAME:		
DATE:	<u>October 21, 1989</u>	<u></u>
		<u>JAMES H. REXROAD</u>
DATE:	_____	_____
ATTEST:	_____	BY: _____

WORKING INTEREST OWNER

NAME:		
DATE:	_____	_____
DATE:	_____	_____
ATTEST:	_____	BY: _____

11581-297

ACKNOWLEDGEMENT



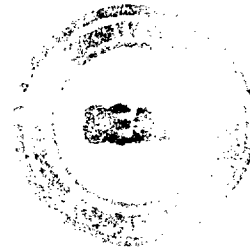
STATE OF Kansas § (Individual)  
COUNTY OF Reno §

The foregoing instrument was acknowledged before me this  
21st day of October, 19 89, by JAMES H. REXROAD

My commission expires:

5-18-92

Ret. J. H. Dinwiddie  
Notary Public



State of New Mexico }  
County of Harding }

This instrument was filed for record on this  
18 day of Dec A. D. 89  
At 11:16 o'clock A. M., and duly recorded  
Book 17 of C.G. page 296-297

County Clerk  
By Elizabeth M. M. M. Deputy

RATIFICATION OF AGREEMENTS ENTITLED  
"UNIT AGREEMENT" OR "UNIT OPERATING AGREEMENT"  
OR BOTH  
FOR THE DEVELOPMENT AND OPERATION OF THE  
WEST BRAVO DOME CARBON DIOXIDE GAS UNIT  
HARDING COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, an agreement entitled "Unit Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that any owner of Carbon Dioxide Gas Rights may sign an instrument agreeing to become a party to the Unit Agreement; and

WHEREAS, a companion agreement entitled "Unit Operating Agreement for the Development and Operation of the West Bravo Dome Carbon Dioxide Gas Unit, Harding County, New Mexico", dated September 1, 1983 provides that an owner of Working Interest may sign an instrument agreeing to become a party to the Unit Operating Agreement.

WHEREAS, each of the undersigned represents that it is the owner of a Royalty Interest, Working Interest, or both, in and to one or more of the Tracts identified in said agreements,

NOW, THEREFORE, the undersigned owners of Royalty Interest hereby approve the Unit Agreement, and the undersigned owners of the Working Interest, or owners of both Working Interest and Royalty Interest, hereby approve both the Unit Agreement and Unit Operating Agreement.

The undersigned owners of Royalty Interest hereby acknowledge receipt of a full and true copy of the Unit Agreement and the undersigned owners of Working Interest hereby acknowledge receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this instrument of the date set forth opposite its signature.

ROYALTY OWNER(S)

NAME:	
DATE:	<u>OCTOBER 11, 1989</u>
	<u>Clorinda Jimenez</u> CLORINDA JIMENEZ
DATE:	_____
ATTEST:	BY: _____

WORKING INTEREST OWNER

NAME:	
DATE:	_____
DATE:	_____
ATTEST:	BY: _____



11582-299

ACKNOWLEDGEMENT

STATE OF TEXAS

§  
§  
§

(Individual)

COUNTY OF POTTER

The foregoing instrument was acknowledged before me this  
19th day of October, 19 89, by CLORINDA JIMENEZ

My commission expires:

19 1992

W. Bryant  
Notary Public

MARK L. N. BRYANT

State of New Mexico  
County of Harding

This instrument was filed for record on this

18 day of Dec A. D. 89

At 11:19 o'clock A. M., and duly recorded in

Book 17 of CB page 298-299

County Clerk

By Elizabeth L. Martin Deputy



OXY USA INC.

Box 50250, Midland, TX 79710

December 1, 1989

Director Oil and Gas Division  
Commissioner of Public Lands Office  
P. O. Box 1148  
Santa Fe, New Mexico 87504

State of New Mexico  
Energy & Minerals Dept.  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. Floyd O. Prando

Re: Plan of Development - 1990  
~~West Bravo Dome Carbon Dioxide Gas Unit~~  
Harding County, New Mexico

Gentlemen:

In accordance with Article 4 of the West Bravo Dome Carbon Dioxide Gas Unit (WBDCDGU) Agreement, and New Mexico Oil Conservation Division Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits three (3) copies of our Plan of Development for 1990 on behalf of the Unit Working Interest Owners.

There are seventeen (17) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. Likewise, there have been no additional wells drilled since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1989, in an effort to assess more fully the productive capacity of WBDCDGU wells, and in accordance with the approved 1989 Plan of Development, three (3) wells were fracture stimulated. In addition, the wells were flow tested and pressure buildup tests were conducted. Attached hereto, as Table I, is information summarizing this 1989 work. The enclosed plat also identifies the locations of these wells ("1989 Workover").

For 1990, the Working Interest Owners propose a Plan of Development to include:

1. The drilling of four (4) WBDCDGU wells in locations tentatively selected as shown on the enclosed plat ("1990 Proposed Locations").

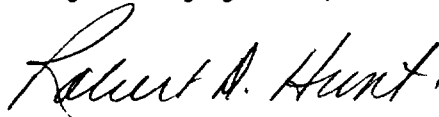
Plan of Development-1990  
West Bravo Dome Carbon Dioxide Gas Unit  
Page - 2

- (a) Three (3) of these wells at locations in Section 18-T19N-R29E; Section 7-T18N-R29E; and Section 2-T17N-R29E are located to assist in better defining the productive capabilities of the field to the south and to the west where limited drilling has taken place to date.
- (b) The fourth well, tentatively located in Section 32-T19N-R30E, is located in a slightly more developed area. It is planned to test experimental drilling and completion techniques in this well. Recent work by Amoco has indicated some advantages may be gained by utilizing open hole natural completions that produce in a tubingless configuration.
- (c) Two alternative locations have also been selected ("1990 Proposed Alternate Well") in the event the proposed well in Section 32-T19N-R30E, which has a proration Unit that includes non-unit land, encounters drilling clearance problems.

As a matter of information, the Working Interest Owners met on October 25, 1989, to discuss future plans for WBDCDGU. The Working Interest Owners recognized the need for a continuation of development drilling at WBDCDGU, as well as the need for additional study of a comprehensive plan of development. Accordingly, the WBDCDGU Engineering Subcommittee is to be reconvened immediately and is to be charged with studying the issue of future development.

If there are questions regarding this proposed 1990 Plan of Development, please feel free to call me at 915/685-5744. Your early consideration of this proposal would be appreciated.

Very truly yours,



Robert D. Hunt  
Manager of Engineering  
Western Region

RDH:cm  
Enc/xc: Assistant District Manager-Minerals  
Bureau of Land Management  
P. O. Box 6770  
Albuquerque, New Mexico 87197



OIL CONSERVATION DIVISION  
RECEIVED

OK-12-5-89  
REF

OXY USA INC.

Box 50250, Midland, TX 79710

'89 DEC 6 1989

Director Oil and Gas Division  
Commissioner of Public Lands Office  
P. O. Box 1148  
Santa Fe, New Mexico 87504

State of New Mexico  
Energy & Minerals Dept.  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. Floyd O. Prando

Re: Plan of Development - 1990  
~~West Bravo Dome Carbon Dioxide Gas Unit~~  
Harding County, New Mexico

Gentlemen:

In accordance with Article 4 of the West Bravo Dome Carbon Dioxide Gas Unit (WBDCDGU) Agreement, and New Mexico Oil Conservation Division Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits three (3) copies of our Plan of Development for 1990 on behalf of the Unit Working Interest Owners.

There are seventeen (17) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. Likewise, there have been no additional wells drilled since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1989, in an effort to assess more fully the productive capacity of WBDCDGU wells, and in accordance with the approved 1989 Plan of Development, three (3) wells were fracture stimulated. In addition, the wells were flow tested and pressure buildup tests were conducted. Attached hereto, as Table I, is information summarizing this 1989 work. The enclosed plat also identifies the locations of these wells ("1989 Workover").

For 1990, the Working Interest Owners propose a Plan of Development to include:

1. The drilling of four (4) WBDCDGU wells in locations tentatively selected as shown on the enclosed plat ("1990 Proposed Locations").

Plan of Development-1990  
West Bravo Dome Carbon Dioxide Gas Unit  
Page - 2

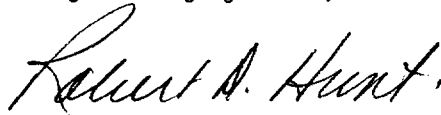
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- (a) Three (3) of these wells at locations in Section 18-T19N-R29E; Section 7-T18N-R29E; and Section 2-T17N-R29E are located to assist in better defining the productive capabilities of the field to the south and to the west where limited drilling has taken place to date.
- (b) The fourth well, tentatively located in Section 32-T19N-R30E, is located in a slightly more developed area. It is planned to test experimental drilling and completion techniques in this well. Recent work by Amoco has indicated some advantages may be gained by utilizing open hole natural completions that produce in a tubingless configuration.
- (c) Two alternative locations have also been selected ("1990 Proposed Alternate Well") in the event the proposed well in Section 32-T19N-R30E, which has a proration Unit that includes non-unit land, encounters drilling clearance problems.

As a matter of information, the Working Interest Owners met on October 25, 1989, to discuss future plans for WBDCDGU. The Working Interest Owners recognized the need for a continuation of development drilling at WBDCDGU, as well as the need for additional study of a comprehensive plan of development. Accordingly, the WBDCDGU Engineering Subcommittee is to be reconvened immediately and is to be charged with studying the issue of future development.

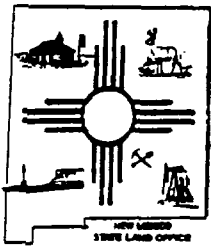
If there are questions regarding this proposed 1990 Plan of Development, please feel free to call me at 915/685-5744. Your early consideration of this proposal would be appreciated.

Very truly yours,



Robert D. Hunt  
Manager of Engineering  
Western Region

RDH:cm  
Enc/xc: Assistant District Manager-Minerals  
Bureau of Land Management  
P. O. Box 6770  
Albuquerque, New Mexico 87197



State of New Mexico  
Commissioner of Public Lands

OCD

W. R. Humphries  
COMMISSIONER

Advisory Board

George Clark  
Chairman

Kristin Conniff  
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

March 8, 1990

OXY USA INC.  
P.O. Box 50250  
Midland, Texas 79710

ATTN: Mr. Robert D. Hunt

RE: ~~West Bravo Dome Unit~~  
Harding County, New Mexico  
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the West Bravo Dome Unit. Our approval is subject to like approval by all other appropriate agencies.

Enclosed is an approved copy for your files. If we may be of further help, please do not hesitate to contact Susan Howarth at (505) 827-5791.

Very truly yours,

W.R. HUMPHRIES  
COMMISSIONER OF PUBLIC LANDS

BY:

*Floyd O. Prando*

FLOYD O. PRANDO, Director  
Oil and Gas Division  
(505) 827-5749

cc: OCD - Santa Fe, New Mexico  
BLM  
Unit Correspondence File  
Unit P.O.D. File

WRH/FOP/SMH  
P.O. Box 1148 Santa Fe, NM 87504-1148 (505) 827-5760



OXY USA INC.

Box 50250, Midland, TX 79710

March 17, 1993

State of New Mexico  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Attention: Director of the Oil and Gas Division

State of New Mexico  
Energy & Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Re: Revised Plan of Development  
for January 1, 1993 through  
December 31, 1993  
West Bravo Dome Carbon  
Dioxide Gas Unit  
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Revised Plan of Development for January 1, 1993 through December 31, 1993 on behalf of the Unit Working Interest Owners.

Presently, there are twenty (20) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO<sub>2</sub> production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patentee tracts (22,860.55 acres).

During 1992, in an effort to fully assess the productive boundaries of the unitized acreage, and in accordance with the approved 1992 Plan of Development, seismic data covering 700 miles across the Bravo Dome field was acquired and reviewed along with the purchase and the interpretation of a regional gravity survey covering the greater West Bravo Dome Unit Area. The analysis of this geophysical data will allow us to target areas for potential future seismic surveys and development, and aid in determination of the

Page 2  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

productive unit boundaries for the December 1, 1994 unit contraction.

The Working Interest Owners propose a Plan of Development for January 1, 1993 through December 1, 1993 to include:

1. Continue to monitor market conditions and Working Interest Owners need for CO<sub>2</sub> supply.
2. Continue Unit payments which escalate 5% yearly until the unit is connected and producing.
3. Monitor and evaluate the condition of the existing wellbores in accordance with State regulations.
4. A. OXY plans to form a geological subcommittee comprised of Working Interest Owner representatives, whose charge will be to review the engineering and geological data and recommend to the Working Interest Owners a contraction plan pursuant to Article 5.2 of the Unit Agreement. The plan, when approved by the Working Interest Owners, will be presented to the NMOCD, BLM and the SLO for approval prior to the December 1, 1994 unit contraction date.  
  
B. OXY is unable to supply the SLO with maps or other data purporting to show the productive limits of the unit area because the information has not been evaluated or approved by the geological subcommittee or the Working Interest Owners.
5. Drilling, fracture stimulation and construction work may be proposed if market conditions improve and the Working Interest Owners need for CO<sub>2</sub> warrants.

In response to your letter dated January 12, 1993, please find enclosed a current West Bravo Dome Unit map reflecting the working interest ownership and location of all wells drilled in the Unit. Also enclosed is a list reflecting the current status of all unit wells. The wells are identified by section, township, range, and lease number.

Your remaining inquiries directed to the individual Working Interest Owners will be responded to under separate letter.

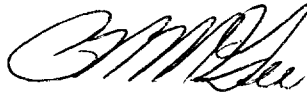


Page 3  
Revised Plan of Development  
1-1-93 through 12-31-93  
West Bravo Dome CO<sub>2</sub> Gas Unit  
Harding County, New Mexico

If there are questions regarding this Revised Plan of Development for 1993, please call Mr. David R. Evans at 915/685-5769. Your earliest consideration of this proposal would be appreciated.

Very truly yours,

OXY USA Inc.




P. N. McGee *Dr.*  
Manager Land - Western Region

cc: Assistant District Manager-Minerals  
Bureau of Land Management  
1235 LaPlata Highway  
Farmington, New Mexico 87401  
Attention: Mr. Duane Spence

APPROVED FOR SUBMITTAL:

OXY USA Inc.

By:   
P. N. McGee, Attorney-in-Fact

WEST BRAVO DOME CARBON DIOXIDE UNIT  
HARDING COUNTY, NEW MEXICO

<u>Well Name</u>	<u>Location</u>	<u>Lease Name</u>	<u>Unit Tract</u>	<u>Status</u>
West Bravo Dome #12	Sec. 32-20N-29E	L-5777	502	Shut-in
West Bravo Dome #11	Sec. 33-20N-29E	L-5776	501	" "
West Bravo Dome #10	Sec. 3-19N-29E	L-5813	505	" "
West Bravo Dome #9	Sec. 3-19N-29E	L-5813	506	" "
West Bravo Dome #8	Sec. 9-19N-29E	L-5815	507	" "
West Bravo Dome #1	Sec. 11-19N-29E	L-5812	504	" "
West Bravo Dome #18	Sec. 18-19N-29E	Smith	2021	" "
West Bravo Dome #7	Sec. 16-19N-29E	L-5811	503	" "
West Bravo Dome #15	Sec. 29-19N-29E	Trujillo	2007	" "
West Bravo Dome #4	Sec. 25-19N-29E	L-5817	509	" "
West Bravo Dome #2	Sec. 30-19N-30E	L-5826	510	" "
West Bravo Dome #17	Sec. 33-19N-29E	NM-19714	101	" "
West Bravo Dome #3	Sec. 36-19N-29E	L-5816-1	508	" "
West Bravo Dome #5	Sec. 31-19N-30E	L-5827	511	" "
West Bravo Dome #20	Sec. 32-19N-30E	L-5827	511	" "
West Bravo Dome #6	Sec. 6-18N-30E	L-5853	514	" "
West Bravo Dome #19	Sec. 7-18N-29E	Laundry	2027	P & A
West Bravo Dome #13	Sec. 7-18N-30E	L-5852	513	Shut-in
West Bravo Dome #22	Sec. 13-18N-29E	NM-27898	102	" "
West Bravo Dome #16	Sec. 21-18N-29E	Smith	2028	" "
West Bravo Dome #14	Sec. 20-18N-30E	L-5857-2	525	" "
West Bravo Dome #21	Sec. 2-17N-29E	L-4586	516	P & A