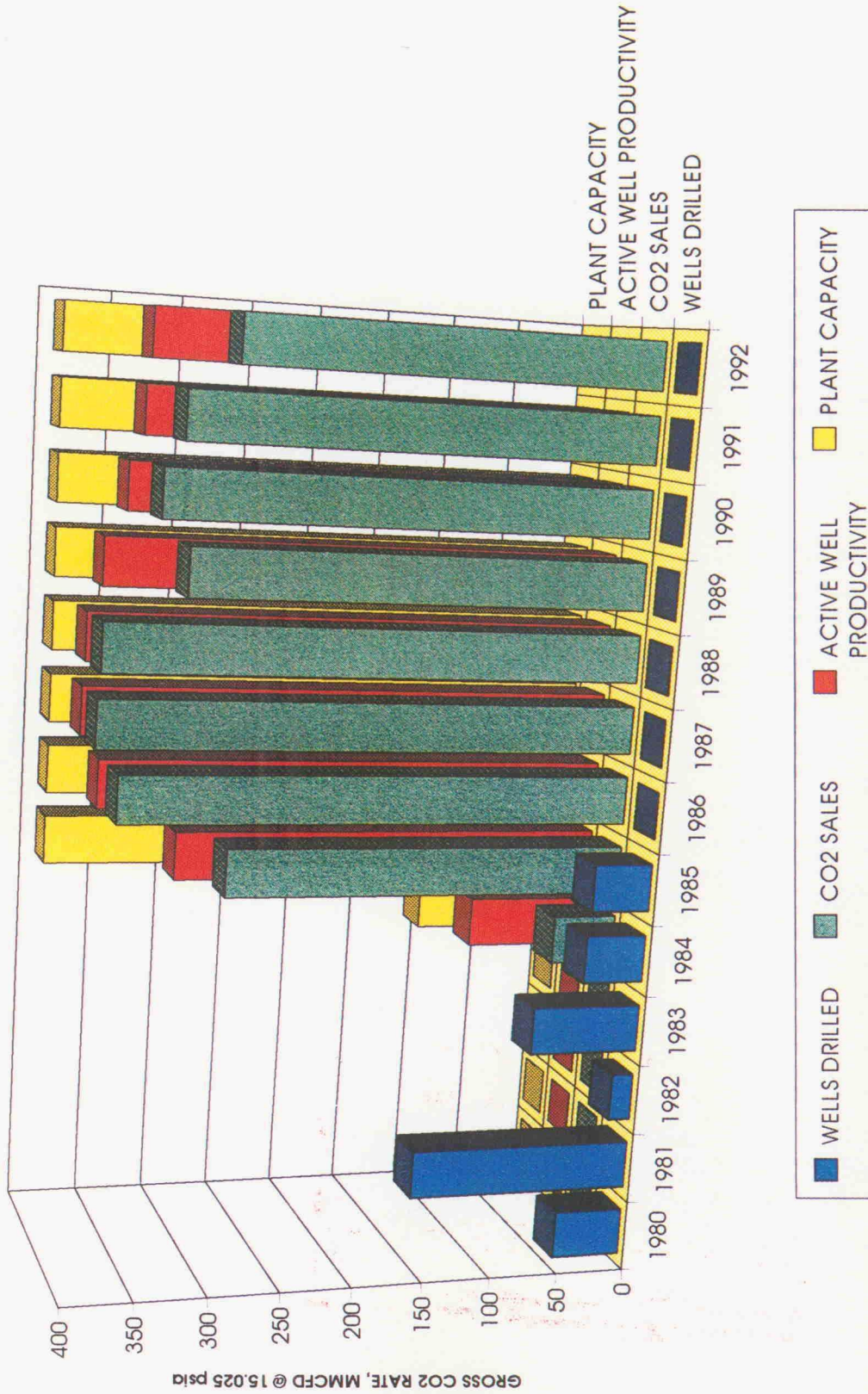
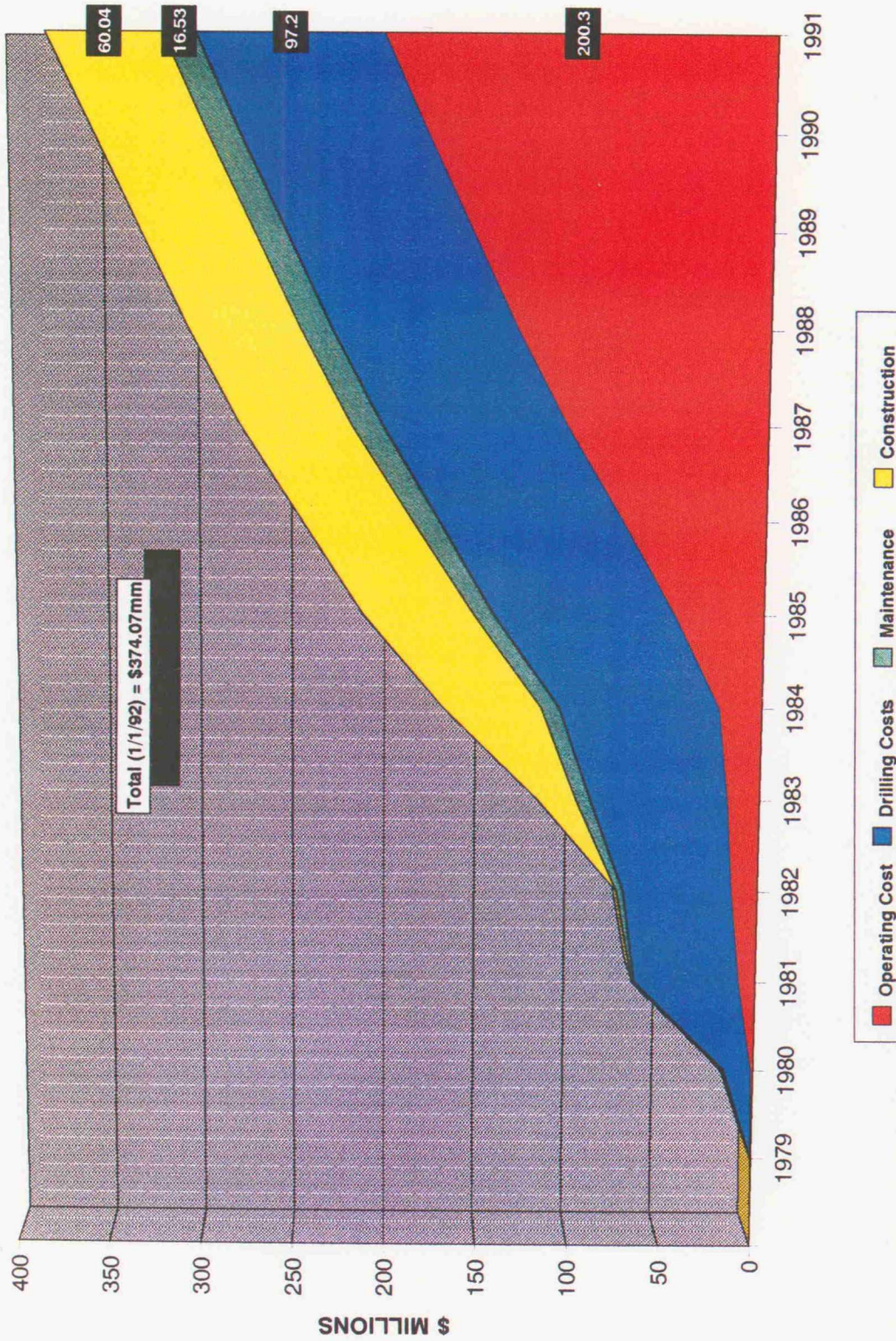


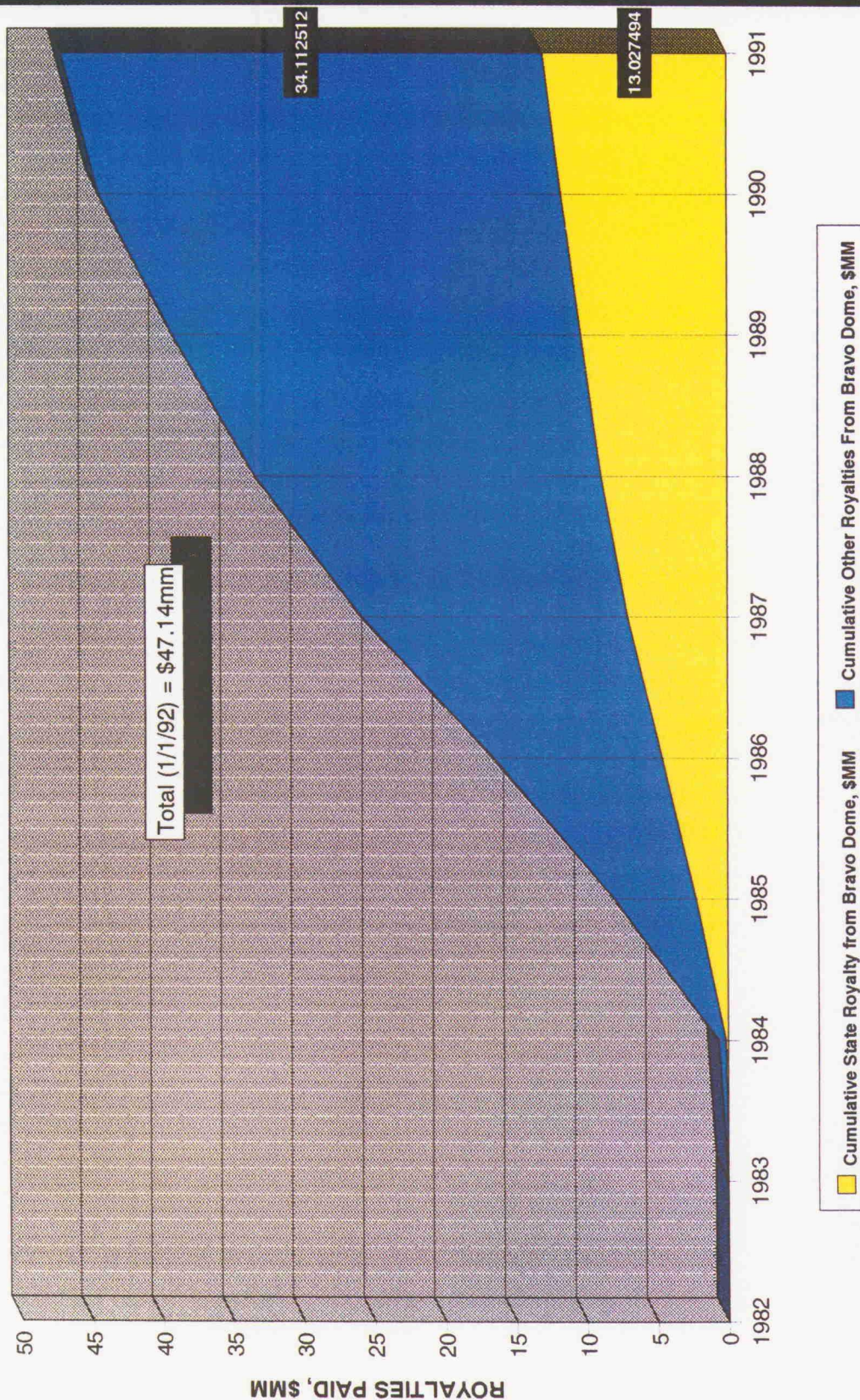
# BRAVO DOME CO2 GAS UNIT COMMODITY DEVELOPMENT



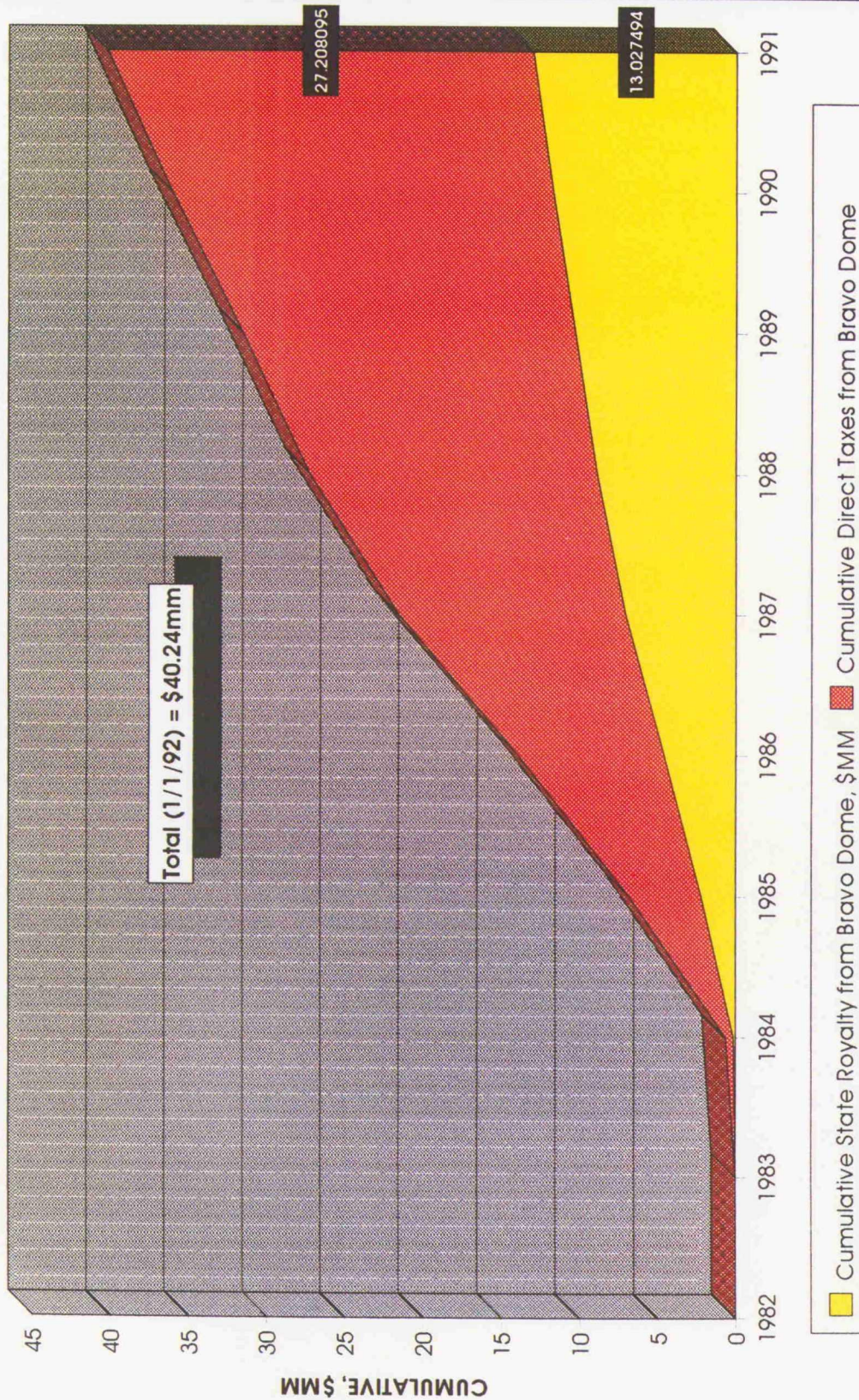
# **BRAVO DOME CO2 GAS UNIT - CUMULATIVE SPENDING BY CATEGORIES**



# CUMULATIVE ROYALTY PAYMENTS FROM BRAVO DOME CO2 GAS UNIT

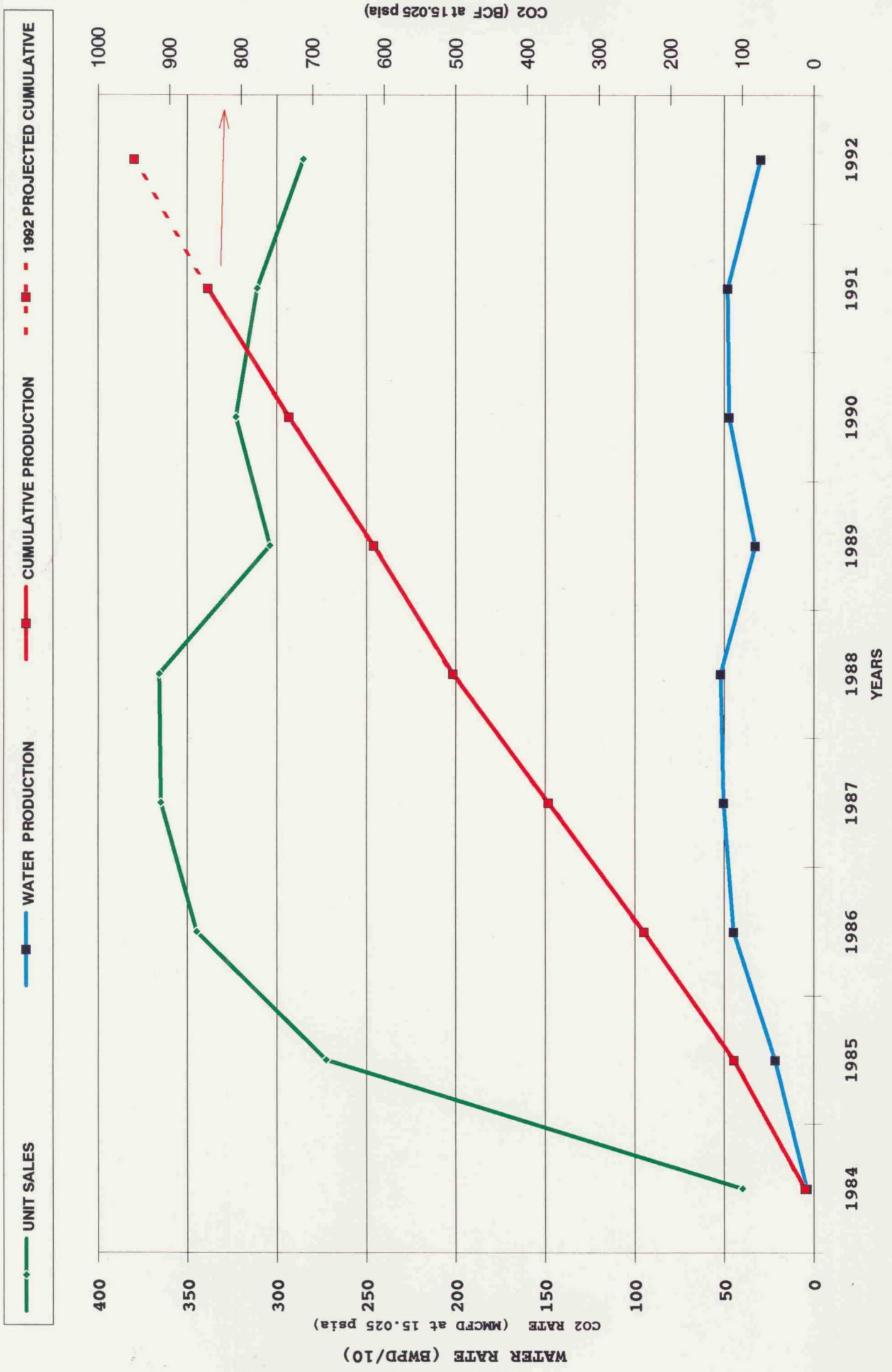


# CUMULATIVE STATE ROYALTY and TAXES PAID BY BRAVO DOME CO2 GAS UNIT

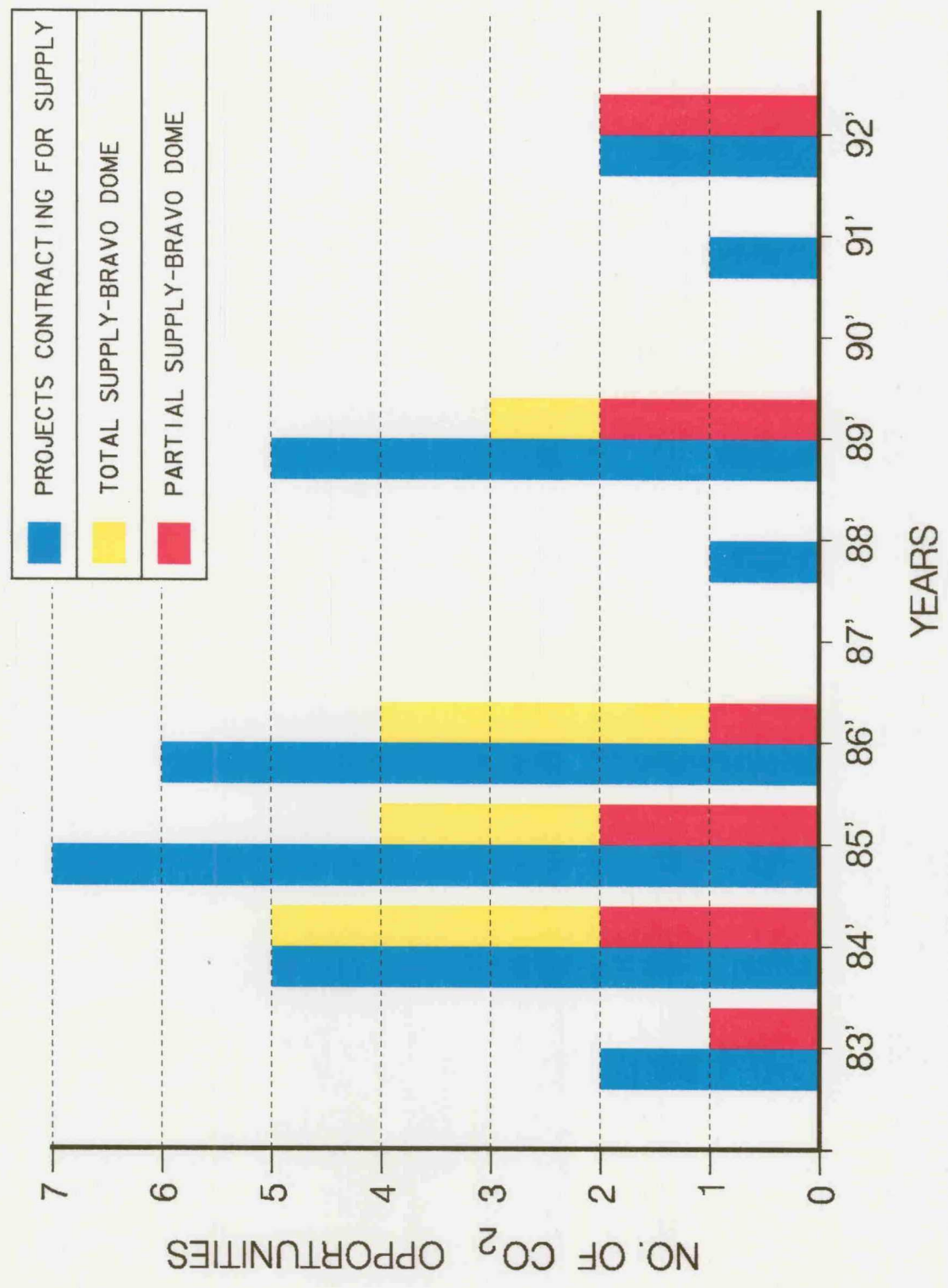


BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
CASE NO. 10508, EXHIBIT NO. **K-1**  
SUBMITTED BY: AMOCO PRODUCTION CO.  
HEARING DATE: JULY 16, 1992

**BRAVO DOME CO2 GAS UNIT**

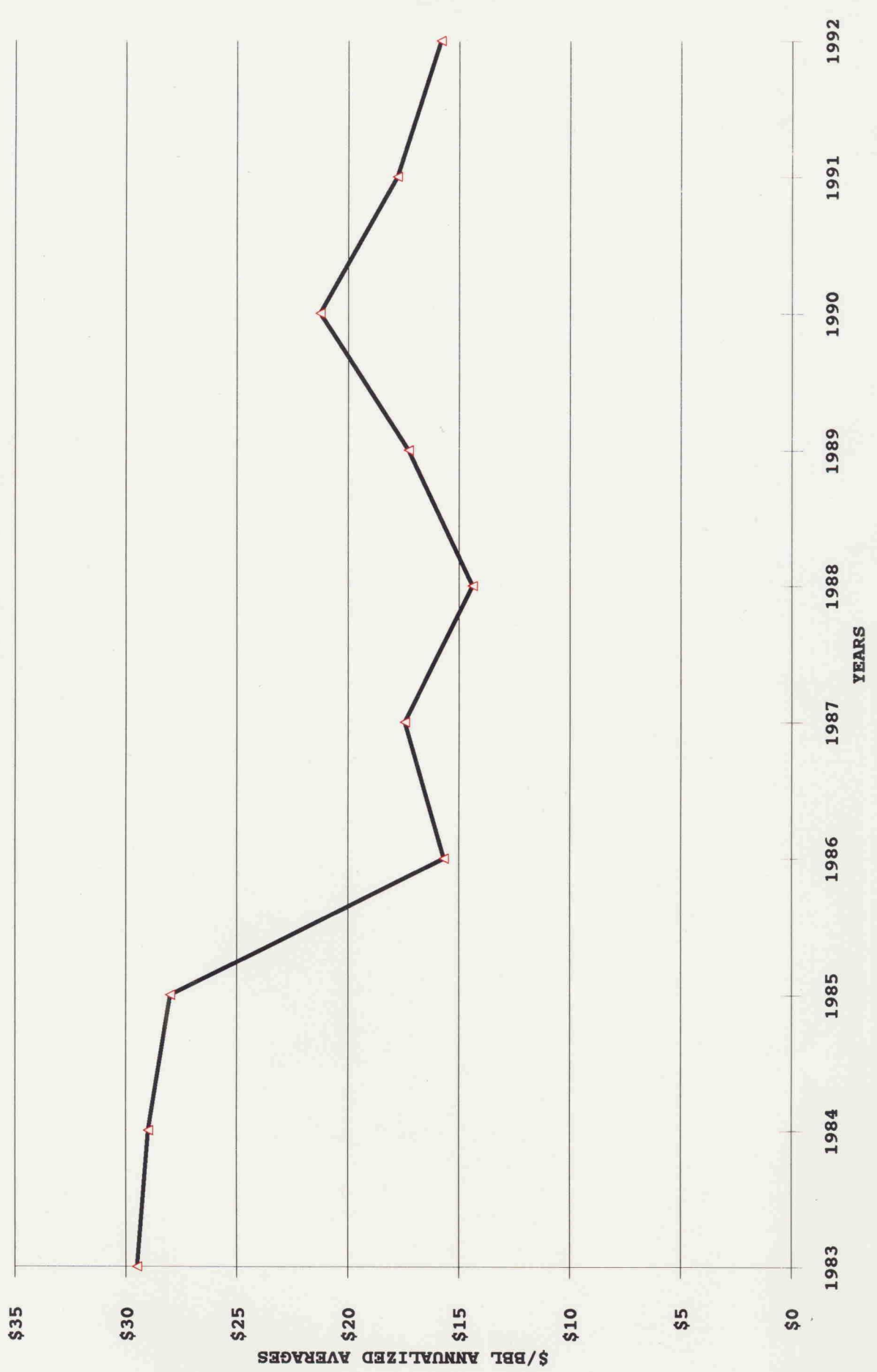


# CO<sub>2</sub> SUPPLY OPPORTUNITIES



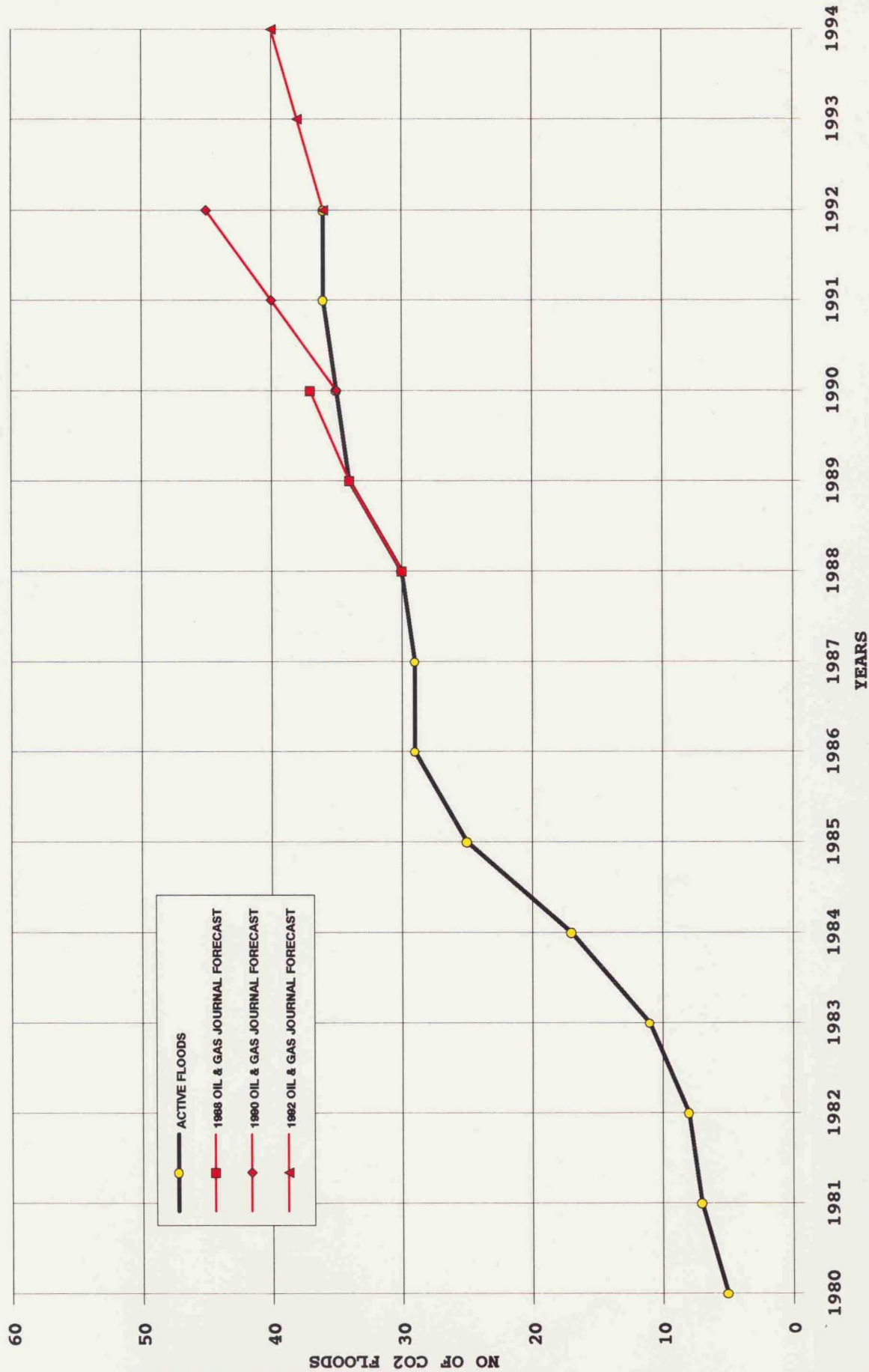
BRAVO DOME SUPPLY  
19/29 (66%)

**WEST TEXAS SOUR OIL PRICE**



# CO2 FLOODS IN THE PERMIAN BASIN

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
CASE NO. 10508, EXHIBIT NO. K-4  
SUBMITTED BY: AMOCO PRODUCTION CO.  
HEARING DATE: JULY 16, 1992



**BRAVO DOME CARBON DIOXIDE GAS UNIT**  
**REPRESENTATIVE OPERATIONAL IMPROVEMENTS**  
**1988-1992**

- INSTALLED 79 FIBERGLASS TUBING STRINGS FOR IMPROVED CORROSION CONTROL AND REDUCTION OF WELL OPERATING COSTS. TOTAL REPLACED IS 229 OUT OF 258 TUBING STRINGS.
- DRILLED AND COMPLETED ONE ADDITIONAL DEVELOPMENT WELL AND EQUIPPED IT WITH FIBERGLASS CASING TO REDUCE CORROSION AND MINIMIZE COSTS. WELL IS PRODUCED SUCCESSFULLY WITHOUT TUBING.
- NEGOTIATED A NEW ELECTRIC POWER CONTRACT TO PROVIDE INTERRUPTIBLE POWER AT REDUCED RATES AND INCREASE MARKET COMPETITIVENESS
- INSTALLED 49 ADDITIONAL BLOCK VALVES IN THE GAS COLLECTION SYSTEM TO ALLOW FOR BETTER ISOLATION AND MINIMIZE VENTING DURING LEAK REPAIRS
- INSTALLED 356 STAINLESS STEEL VALVES TO PREVENT CORROSION AT THE WELLHEAD AND RESULTING CO2 LEAKS
- INSTALLED 198 INTERNALLY PLASTIC COATED METER RUNS TO PREVENT CORROSION AND LEAKS
- INSTALLED NEW ELECTRONIC FLOW COMPUTERS AT ALL SALES POINTS, THUS IMPROVING LEAK DETECTION AND REPAIR TIME
- PERFORMED 8 WORKOVERS TO IMPROVE WELL PRODUCTIVITY
- INSTALLED A SALT WATER DISPOSAL SYSTEM TO SERVE SIX HIGH WATER PRODUCING WELLS AND MINIMIZE TRUCK HAULING
- ELIMINATED POTENTIAL VIBRATION AND PULSATION PROBLEMS AT THE PLANT THROUGH EXTENSIVE COMPRESSOR BOTTLE MODIFICATIONS
- UPGRADED ENVIRONMENTAL CONTROLS AT THE PLANT SITE

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
CASE NO. 10508, EXHIBIT NO. 2-5  
SUBMITTED BY: AMOCO PRODUCTION CO.  
HEARING DATE: JULY 16, 1992

**BRAVO DOME CARBON DIOXIDE GAS UNIT**  
**FINANCIAL SUMMARY**

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
CASE NO. 10608, EXHIBIT NO. K-5  
SUBMITTED BY: AMOCO PRODUCTION CO.  
HEARING DATE: JULY 16, 1992

**\$ MILLIONS**

**97.2**  
**60.2**  
**16.58**  
**204.5**

**378.48**

**26.5**

**13.3**

**34.9**

**48.2**

DRILLING  
PLANT AND GATHERING FACILITIES  
MAINTENANCE  
OPERATING EXPENSE  
TOTAL COSTS (THROUGH 3/31/92)

DIRECT TAXES PAID WITHIN STATE  
(THROUGH 3/31/92)

ROYALTIES PAID  
STATE  
OTHERS

TOTAL ROYALTIES (THROUGH 3/31/92)

39.8

# BRAVO DOME CARBON DIOXIDE GAS UNIT

## STATISTICAL SUMMARY

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BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
CASE NO. 10608, EXHIBIT NO. 14-6  
SUBMITTED BY: AMOCO PRODUCTION CO.  
HEARING DATE: JULY 16, 1982

CO2 PRODUCED TO DATE (BCF) 872  
1991 AVG PRODUCING RATE (MMCFD) 311  
PEAK PRODUCING RATE (MMCFD) 381  
CURRENT DELIVERABILITY (MMCFD) 340  
CURRENT PLANT CAPACITY (MMCFD) 390

NO. OF WELLS DRILLED 391  
ACTIVE WELLS 258  
INACTIVE WELLS 111  
P x A WELLS 20  
SWD WELLS 2

ROADS BUILT & IMPROVED (MILES) 751  
LEASE ROADS 375  
COUNTY ROADS 376

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

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

CASE NO. 10508

IN THE MATTER OF CASE 10508 BEING CALLED  
BY THE OIL CONSERVATION COMMISSION ON ITS  
OWN MOTION PURSUANT TO THE PROVISIONS OF  
DIVISION ORDER NO. R-6446-B WHICH  
APPROVED THE BRAVO DOME CARBON DIOXIDE  
GAS UNIT AGREEMENT IN HARDING,  
UNION AND QUAY COUNTIES, NEW MEXICO.

RECEIVED

OIL CONSERVATION DIVISION

**PRE-HEARING STATEMENT**

This prehearing statement for Amoco Production Company is submitted by William F. Carr, as required by the Oil Conservation Division Memorandum 2-90.

**APPEARANCES OF PARTIES**

**APPLICANT**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
name, address, phone and  
contact person

**ATTORNEY**

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

( ) \_\_\_\_\_

**OPPOSITION OR OTHER PARTY**

Amoco Production Company\_\_\_\_\_  
c/o Daniel R. Currens\_\_\_\_\_  
501 WestLake Park Blvd.\_\_\_\_\_  
Houston, Texas 77253\_\_\_\_\_

(713) 556-3246\_\_\_\_\_

name, address, phone and  
contact person

**ATTORNEY**

William F. Carr\_\_\_\_\_  
Campbell, Carr, Berge & Sheridan\_\_\_\_\_  
Post Office Box 2208\_\_\_\_\_  
Santa Fe, New Mexico 87504\_\_\_\_\_

(505) 988-4421\_\_\_\_\_

**STATEMENT OF CASE**

**APPLICANT**

**OPPOSITION OR OTHER PARTY**

(Please make a concise statement of the basis for opposing this application or otherwise state the position of the party filing this statement.)

Amoco Production Company will review its operation of the Bravo Dome Carbon Dioxide Unit. It will review its efforts to define the limits of the Tubb reservoir in the Unit Area and will present geological and engineering testimony which will demonstrate that operation of this unit prevents waste and protects correlative rights on a continuing basis.

**PROPOSED EVIDENCE**

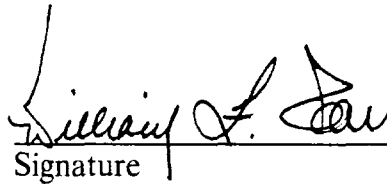
APPLICANT

WITNESSES (Name and expertise)	EST. TIME	EXHIBITS
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OPPOSITION

WITNESSES (Name and expertise)	EST. TIME	EXHIBITS
Herb Wacker, (Geologist)	45 Minutes	Approximately 11
Jim Collier (Petroleum Engineer)	25 Minutes	Approximately 8
Ron Krenk (Petroleum Engineer, Manager of CO <sub>2</sub> Sales and Supply)	20 Minutes	Approximately 6

**PROCEDURAL MATTERS**

  
\_\_\_\_\_  
Signature

**STATE OF NEW MEXICO  
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**APPEARANCES OF PARTIES**

APPLICANT

ATTORNEY

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name, address, phone and  
contact person

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OPPOSITION OR OTHER PARTY

ATTORNEY

Amoco Production Company\_\_\_\_\_  
c/o Daniel R. Currens\_\_\_\_\_  
501 WestLake Park Blvd.\_\_\_\_\_  
Houston, Texas 77253\_\_\_\_\_

William F. Carr\_\_\_\_\_  
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Post Office Box 2208\_\_\_\_\_  
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**WITNESSES**  
(Name and expertise)

**EST. TIME**

**EXHIBITS**

**OPPOSITION**

**WITNESSES**  
(Name and expertise)

**EST. TIME**

**EXHIBITS**

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45 Minutes

Approximately 11

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25 Minutes

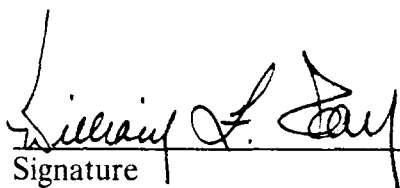
Approximately 8

Ron Krenek (Petroleum Engineer, Manager  
of CO<sub>2</sub> Sales and Supply)

20 Minutes

Approximately 6

**PROCEDURAL MATTERS**

  
Signature

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

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**APPEARANCES OF PARTIES**

APPLICANT

ATTORNEY

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name, address, phone and  
contact person

( ) \_\_\_\_\_

OPPOSITION OR OTHER PARTY

ATTORNEY

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501 WestLake Park Blvd.\_\_\_\_\_  
Houston, Texas 77253\_\_\_\_\_

William F. Carr\_\_\_\_\_  
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(505) 988-4421\_\_\_\_\_

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**APPLICANT**

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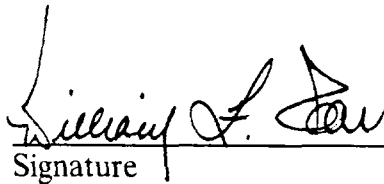
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GAS UNIT AGREEMENT IN HARDING,  
UNION AND QUAY COUNTIES, NEW MEXICO.

RECEIVED  
JUL 10 1990  
OIL CONSERVATION DIVISION

**PRE-HEARING STATEMENT**

This prehearing statement for Amoco Production Company is submitted by William F. Carr, as required by the Oil Conservation Division Memorandum 2-90.

**APPEARANCES OF PARTIES**

**APPLICANT**

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\_\_\_\_\_  
name, address, phone and  
contact person

**ATTORNEY**

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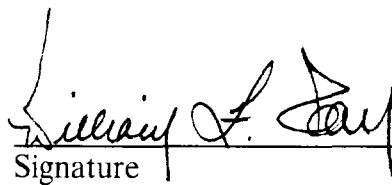
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**PROCEDURAL MATTERS**

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

RECEIVED

IN THE MATTER OF CASE 10508 BEING  
CALLED BY THE OIL CONSERVATION COMMISSION  
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WHICH APPROVED THE BRAVO DOME CARBON  
DIOXIDE GAS UNIT AGREEMENT IN HARDING,  
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OIL CONSERVATION DIVISION

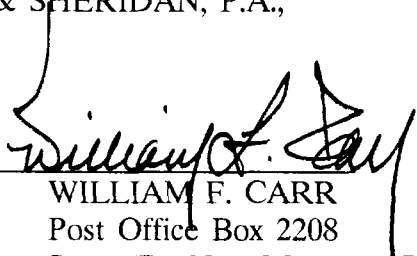
CASE NO. 10508

ENTRY OF APPEARANCE

COMES NOW CAMPBELL, CARR, BERGE & SHERIDAN, P.A., and hereby  
enters its appearance in the above referenced case on behalf of Amoco Production  
Company.

Respectfully submitted,

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

By:   
WILLIAM F. CARR  
Post Office Box 2208  
Santa Fe, New Mexico 87504  
Telephone: (505) 988-4421

ATTORNEYS FOR AMOCO  
PRODUCTION COMPANY



**Amoco Production Company**

Southeast Business Unit  
501 WestLake Park Boulevard  
Post Office Box 3092  
Houston, Texas 77253-3092

James F. Trickett  
Manager, Environmental Safety & Regulatory Affairs

June 24, 1992

New Mexico Oil Conservation Division  
State Land Office Building  
P. O. Box 2088  
Santa Fe, New Mexico 87504

Attention: Mr. Robert G. Stovall

Amoco Production Company anticipates that the hearing pursuant to NMOCD Order No. R-6446-B of January 23, 1981, will be called for July 16, 1992. This hearing is required every four years for the purpose of allowing the operator of the Bravo Dome Carbon Dioxide Gas Unit, Union, Harding and Quay Counties, New Mexico, to review unit operations. The last hearing was held on July 14, 1988.

Amoco has sent a letter to all unit working interest owners to advise them of the anticipated July 16 hearing date.

We have not seen an NMOCD notice of this hearing. To expedite notice, we are furnishing the attached addressee list for your use as appropriate.

If there are any questions, please call Mr. Jim Collier at (713) 556-3371.

Yours very truly,

JWC/kf

Attachment

C02 Marketing Inc.  
14875 Landmark Blvd. - Ste. 310  
Dallas, TX 75240-6714

Robert O. Clark  
c/o Trust Dept. Citizens National  
Bank  
Box 90001  
Bowling Green, KY 42102-9001

American Exploration Company  
1331 Lamar - Ste. 900  
Houston, TX 77010-3088

Exxon Company USA  
Attn: Joint Interest, P. O. Box 1700  
Midland, TX 79702-1700

Ed French  
P.O. Box 540  
Chillicothe, TX 79225-0540

Oxy USA Inc  
Operations Contracts  
P.O. Box 3908, Tulsa, OK, 74102-  
3908

Shell Oil Company  
Attn: Domestic Ventures - 29th  
Floor  
Joint Interest Billing, P.O. Box 4655  
Houston, TX 77210-4655

Shell Oil Company  
Attn: Domestic Ventures - 29th  
Floor  
Joint Interest Billing Western  
P.O. Box 4655  
Houston, TX 77210-4655

Clyde H. Tyler Estate  
Jinx Butler Trustee  
5631 North 75th Place  
Scottsdale, AZ 95250-6471

Markland Corporation  
14901 Quorum Dr. - Ste. 890  
Dallas, TX 75240-6736

Markland Corporation  
14901 Quorum Dr. - Ste. 890  
Dallas, TX 75240-6736

Effie D. Sanford Coon Estate  
Richard S. Coon, Indv. & Extr.  
2505 Lakeview - Ste. 300  
Amarillo, TX 79109-1523

Richard S. Coon  
2505 Lakeview Dr. - Ste. 300  
Amarillo, TX 79109-1523

Edna Rosenwald Elias Johnston  
760 Juan Tabo NE - No. A-1  
Albuquerque, NM 87123-1443

Allen B. Floersheim  
P. O. Drawer A  
Roy, NM 87743

Donald Floersheim  
213 Cimarron Avenue  
Springer, NM 87747

Dr. Milton Floersheim  
Box 1066  
Raton, NM 87740-1066

Irma Belle Floersheim  
213 Cimarron Ave.  
Springer, NM 87747

Myron Floersheim  
184 Spring Drive  
Roswell, GA 30075-4849

Alan Rosenwald  
600 Vernon  
Glencoe, IL 60022-1630

Eleanor Seligman  
2525 Vista Larga NE  
Albuquerque, NM 87106-2647

Stanley Floersheim  
1157 Hancock  
Atlanta, GA 30306-2576

Raymond Thomas  
28382 W. Park Ave.  
Mauconda, IL 60084-2242

Amerada Hess Corporation  
Attn: Special Projects &  
Unitization  
P. O. Box 2040  
Tulsa, OK 74102-2040

Amerada Hess Corporation  
Edwin L. Cox Interest  
Attn: Special Projects &  
Unitization  
P. O. Box 2040  
Tulsa, OK 74102-2040

Beard Oil Company  
c/o Carbonic Reserves  
Enterprise Plaza - Ste. 200  
5600 North May Avenue  
Oklahoma City, OK 73112-4275

Pacific Enterprises Oil Company  
USA  
4245 Kempt - Ste. 600  
Wichita Falls, TX 76308-2822

Exxon Company USA  
Attn: Joint Interest  
P. O. Box 1700  
Midland, TX 79702-1700

Amerada Hess Corporation  
Attn: Special Projects &  
Unitization  
P. O. Box 2040  
Tulsa, OK 74102-2040

Amerada Hess Corporation  
Edwin L. Cox Interest  
Attn: Special Projects &  
Unitization  
P. O. Box 2040  
Tulsa, OK 74102-2040

RIM Carbon Dioxide Inc.  
c/o S.S. Energy Inc.  
7430 East Caley Ave. - Ste. 310  
Englewood, CO 80111-6718

Dockets Nos. 22-92 and 23-92 are tentatively set for July 23, 1992 and August 6, 1992. Applications for hearing must be filed at least 23 days in advance of hearing date.

**DOCKET: EXAMINER HEARING - THURSDAY - JULY 9, 1992**  
**8:15 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING,**  
**SANTA FE, NEW MEXICO**

The following cases will be heard before Michael E. Stogner, Examiner or David R. Catanach, Alternate Examiner:

**CASE 10499:** **Application of Mitchell Energy Corporation for a unit agreement, Lea County, New Mexico.** Applicant, in the above-styled cause, seeks approval of the Comanche State Unit Agreement for an area comprising 2556.56 acres, more or less, of State lands in all or portions of Sections 3, 4, 9, and 10 of Township 21 South, Range 33 East, which is centered approximately 1.5 miles south of State Highway No. 176 at mile marker 19.

**CASE 10500:** **Application of Giant Exploration and Production Company for a cooperative lease secondary recovery pilot project, San Juan County, New Mexico.** Applicant, in the above-styled cause, seeks to initiate a secondary recovery pilot project in the Bisti-Lower Gallup Oil Pool by the injection of water into the perforated interval from approximately 4747 feet to 4757 feet in the Colleen Simpson Well No. 1 located 330 feet from the South line and 1650 feet from the East line (Unit O) of Section 25, Township 25 North, Range 12 West. The proposed project area is to consist of two or more of the applicant's leases in Sections 25 and 36 of Township 25 North, Range 12 West, which is located approximately 7 miles south-southwest of the B.I.A. Huerfano Community School.

**CASE 10497:** **(Readvertised)**

**Application of Mewbourne Oil Company for two secondary recovery pilot projects, Lea County, New Mexico.** Applicant, in the above-styled cause, seeks authorization to institute two secondary recovery pilot projects in the Querecho Plains-Upper Bone Spring Pool within Township 18 South, Range 32 East, on its Government "K" Lease by the injection of water from approximately 8454 feet to 8515 feet in Well No. 2 located 1950 feet from the South line and 1980 feet from the West line (Unit K) of Section 23 and on its Federal "E" Lease by the injection of water into the perforated interval from approximately 8501 feet to 8530 feet in Well No. 10 located 2310 feet from the North and East lines (Unit G) and from approximately 8360 feet to 8486 feet in Well No. 11 located 660 feet from the North line and 530 feet from the East line (Unit A) both in Section 27. Said pool is centered approximately 9 miles south by east of Maljamar, New Mexico.

**CASE 10501:** **Application of Mewbourne Oil Company for compulsory pooling, Eddy County, New Mexico.** Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Morrow formation underlying the following described acreage in Section 23, Township 19 South, Range 27 East, and in the following manner: the S/2 forming a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre gas spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated McMillan-Atoka Gas Pool, Undesignated Angell Ranch-Atoka Morrow Gas Pool, Undesignated North McMillan-Morrow Gas Pool, and Undesignated South Millman-Morrow Gas Pool; the SE/4 forming a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre gas spacing within said vertical extent; and the NW/4 SE/4 forming a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre oil spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Millman-Grayburg Pool and Undesignated West Millman-Grayburg Pool. Said units are to be dedicated to a single well to be drilled at a standard location in Unit J. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said area is located approximately 7 miles east by north of Lakewood, New Mexico.

**CASE 10502:** **(This Case will be continued to August 6, 1992.)**

**Application of Meridian Oil Inc. for compulsory pooling, Lea County, New Mexico.** Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Delaware formation or to a depth of 8700 feet, whichever is deeper, underlying the NW/4 NW/4 (Unit D) of Section 23, Township 22 South, Range 33 East, forming a standard 40-acre oil spacing and proration unit within said vertical extent. Said unit is to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 6.25 miles north-northwest of the junction of State Highway No. 128 and the Delaware Basin Road.

**CASE 10503:** (This Case will be continued to August 6, 1992.)

**Application of Meridian Oil Inc. for compulsory pooling, Lea County, New Mexico.** Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Delaware formation or to a depth of 8700 feet, whichever is deeper, underlying the SW/4 NW/4 (Unit E) of Section 23, Township 22 South, Range 33 East, forming a standard 40-acre oil spacing and proration unit within said vertical extent. Said unit is to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 6 miles north-northwest of the junction of State Highway No. 128 and the Delaware Basin Road.

**CASE 10504:** (This Case will be continued to August 6, 1992.)

**Application of Meridian Oil Inc. for compulsory pooling, Lea County, New Mexico.** Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Delaware formation or to a depth of 8700 feet, whichever is deeper, underlying the NW/4 SW/4 (Unit L) of Section 24, Township 22 South, Range 33 East, forming a standard 40-acre oil spacing and proration unit within said vertical extent. Said unit is to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 5.5 miles north by west of the junction of State Highway No. 128 and the Delaware Basin Road.

**CASE 10458:** (Continued from April 2, 1992, Examiner Hearing.)

**Application of Meridian Oil Inc. for a high angle/horizontal directional drilling pilot project, special operating rules therefor, a non-standard gas-oil proration unit, an unorthodox well location and a special project allowable, San Juan County, New Mexico.** Applicant, in the above-styled cause, seeks to initiate a high angle/horizontal directional drilling pilot project in the Angel Peak-Gallup Associated Pool underlying all of Section 35, Township 27 North, Range 10 West, thereby creating a non-standard 640-acre gas or oil spacing and proration unit for said pool. The applicant proposes to drill its Huerfano Unit Well No. 306 from a tentative unorthodox surface location 1455 feet from the South line and 1550 feet from the West line (Unit K) of Section 35, Township 27 North, Range 10 West, kick-off from vertical in a southeasterly direction until an angle of approximately 90 degrees is achieved and continue drilling horizontally for approximately 3015 feet. Applicant, further seeks the adoption of special operating provisions and rules within the pilot project area including the designation of a target window for said horizontal wellbore described as a rectangle 790 feet from the South, East, and West lines and 3430 feet from the North line of said Section 35 and for a special project allowable. Said unit is centered a mile south of the U.S. Bureau of Land Management's Angel Peak Recreational Area Campground.

**CASE 10479:** (Continued from June 25, 1992, Examiner Hearing.)

**Application of Bird Creek Resources, Inc. for compulsory pooling, Eddy County, New Mexico.** Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Delaware formation underlying the NW/4 NE/4 (Unit B) of Section 22, Township 23 South, Range 28 East, forming a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent which presently includes but is not necessarily limited to the East Loving-Delaware Pool. Said unit is to be dedicated to a well to be drilled at a standard oil well location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said area is located approximately 1.75 miles east-northeast of Loving, New Mexico.

**CASE 10505:** **Application of United Gas Search, Inc. for a credit for enhanced oil recovery, Lea County, New Mexico.** Applicant, in the above-styled cause, seeks a credit for enhanced oil recovery covering the following leases: Glenn-Ryan (Leonard Federal) Lease comprising all of Section 11 and the S/2 of Section 14, Township 26 South, Range 37 East, save and except as to depths below 3600 feet subsurface in the SE/4 SE/4 of said Section 11 and as to depths between the surface and 3600 feet subsurface in the SW/4 SW/4 of said Section 14; Glenn-Ryan (Leonard Brothers) Lease comprising all of Section 13 and the N/2 of Section 14, Township 26 South, Range 37 East, save and except as to the Queen formation in the SE/4 SW/4 of said Section 13; and the Leonard Brothers "A" Lease comprising the N/2 N/2, SE/4 NW/4, and the SW/4 NE/4 of Section 23, Township 26 South, Range 37 East, save and except as to the Queen formation in the NE/4 NE/4 of said Section 23. Said leases are located approximately 5 miles east-southeast of Bennett, New Mexico.

EXAMINER HEARING - THURSDAY - JULY 9, 1992

**CASE 10506:** Application of American Hunter Exploration, Ltd. for an exception to the provisions of the Division's No-Flare Rule 306; cancellation of overproduction or, in the alternative, special provisions governing overproduction; and the adoption of special operating procedures, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order permitting the Jicarilla "3F" Well No. 1, surface location being 1845 feet from the North line and 1900 feet from the West line (Unit F) of Section 3, Township 27 North, Range 1 West, (which is approximately 24 miles south of Dulce, New Mexico), to continue to produce at a rate no higher than that which corresponds to the 800 barrels of oil per day and associated GOR of 2,000 to 1 which is established by the Special Pool Rules and Regulations for the West Puerco Chiquito-Mancos Oil Pool; granting an exception to the No-Flare Provisions of Division General Rule 306; canceling the current overproduction for the Jicarilla "3F" Well No. 1 or, in the alternative, adopting special provisions governing how this overproduction shall be calculated and made up; and adopting special operating procedures which will permit the Jicarilla "3F" Well No. 1 to be produced in accordance with a Division approved program for the effective production and development of the Mancos Formation in this area; and granting such other relief as the Division deems appropriate.

**CASE 10507:** Application of C & C Landfarm Inc. for a commercial surface waste disposal facility, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authorization to construct and operate a commercial landfarm facility for remediation of non-hazardous hydrocarbon-contaminated soils using an enhanced biodegradation process. Said area is to be located in the SW/4 NE/4 (Unit G) of Section 3, Township 20 South, Range 37 East, which is approximately 2 miles southeast of Monument, New Mexico. This application has been administratively determined to be approvable, and this hearing is scheduled to allow parties the opportunity to present technical evidence why the application should not be approved pursuant to the rules of the Division. In the absence of objection, this application will be taken under advisement.

DOCKET 21-92

**DOCKET: COMMISSION HEARING - THURSDAY - JULY 16, 1992**  
**9:00 A.M. - MORGAN HALL, STATE LAND OFFICE BUILDING,**  
**SANTA FE, NEW MEXICO**

**The Land Commissioner's designee for this hearing will be Gary Carlson**

**[REDACTED]** In the matter of Case 10508 being called by the Oil Conservation Commission on its own motion pursuant to the provisions of Division Order No. R-6446-B which approved the Bravo Dome Carbon Dioxide Gas Unit Agreement in Harding, Union and Quay Counties, New Mexico, to permit Amoco Production Company, the operator of said unit, to review operations and demonstrate to the Commission that its operations within the unit are resulting in the prevention of waste and the protection of correlative rights on a continuing basis.

**CASE 10462:** (De Novo)

**Application of Marathon Oil Company for termination of oil prorationing in the Vacuum-Glorieta Pool, Lea County, New Mexico.** Applicant, in the above-styled cause, seeks an exception to Division General Rule 505 for the Vacuum-Glorieta Pool, located in portions of Townships 17 and 18 South, Ranges 34 and 35 East, whereby the allowable for each well producing from said pool would equal its producing capability. Said pool is centered approximately 11 miles east of Buckeye, New Mexico. Upon application of Marathon Oil Company this case will be heard De Novo pursuant to the provisions of Rule 1220.

CAMPBELL, CARR, BERGE

& SHERIDAN, P.A.

LAWYERS

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WILLIAM F. CARR  
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April 14, 1992

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APR 1

OIL CONSERVATION DIVISION

William J. LeMay, Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
State Land Office Building  
Santa Fe, New Mexico 87503

Re: Bravo Dome Carbon Dioxide Gas Unit: Four Year Review

Dear Mr. LeMay:

As you are aware, by Order No. R-6446-B dated January 23, 1981, the Commission granted the application of Amoco Production Company for approval of the Bravo Dome Carbon Dioxide Gas Unit located in Union, Harding and Quay Counties, New Mexico. This order, among other things, provides:

"That the operator of said unit shall be required to periodically demonstrate to the Commission that its operations within the unit are resulting in the prevention of waste and the protection of correlative rights on a continuing basis."

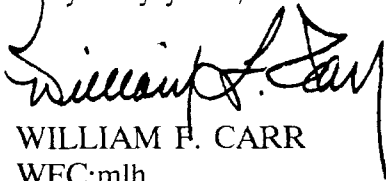
Amoco Production Company requests that a four year review of its operations in the Bravo Dome Carbon Dioxide Gas Unit be set for hearing before the full Commission on July 16, 1992.

William J. LeMay, Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
April 14, 1992  
Page 2

Enclosed is a copy of a legal advertisement for this hearing.

Your attention to this matter is appreciated.

Very truly yours,

A handwritten signature in black ink, appearing to read "William F. Carr", written over the typed name.

WILLIAM F. CARR

WFC:mlh

Enclosures

cc w/enclosures: Daniel R. Currens, Esq.  
Amoco Production Company  
Post Office Box 3092  
Houston, Texas 77253

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

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

CASE NO. 10508  
Order No. R-?

IN THE MATTER OF CASE 10508 BEING CALLED BY THE OIL  
CONSERVATION COMMISSION ON ITS OWN MOTION PURSUANT TO  
THE PROVISIONS OF DIVISION ORDER NO. R-6446-B WHICH  
APPROVED THE BRAVO DOME CARBON DIOXIDE GAS UNIT AGREEMENT,  
TO PERMIT AMOCO PRODUCTION COMPANY, THE OPERATOR OF SAID  
UNIT, TO REVIEW OPERATIONS AND DEMONSTRATE TO THE  
COMMISSION THAT ITS OPERATIONS WITHIN THE UNIT ARE  
RESULTING IN THE PREVENTION OF WASTE AND THE PROTECTION  
OF CORRELATIVE RIGHTS ON A CONTINUING BASIS, HARDING, UNION  
AND QUAY COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 16, 1992, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this \_\_\_\_\_ day of August, 1992, the Commission, a quorum being present, having considered the testimony, the record, and the exhibits, and being fully advised in the premises,

FINDS THAT:

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

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Case No. 10508  
Order No. R-?  
ROUGH DRAFT

Case 9428

(2) On January 23, 1981, the Commission entered Order No. R-6446-B which granted the application of Amoco Production Company, hereinafter referred to as "Amoco", for approval of the Bravo Dome Carbon Dioxide Gas Unit, hereinafter referred to as "the unit", located in Union, Harding and Quay Counties, New Mexico.

(3) Order R-6446-B provided, among other things:

(a) "That the operator of said unit shall be required to periodically demonstrate to the Commission that its operations within the unit are resulting in the prevention of waste and the protection of correlative rights on a continuing basis."

(b) "That such demonstration shall take place at a public hearing held at least every four years following the effective date of the unit or at such lesser intervals as the Commission may require."

(4) The unit became effective on November 1, 1980.

(5) Hearings were held on August 3, 1984 and on July 14, 1988, before the Commission pursuant to Order R-6446-B and the Commission entered Orders R-6446-C and R-6446-D finding that unit operations were preventing waste and protecting correlative rights, and further ordering that the case be reopened for additional evidence before or during August, 1992. The reopened case was originally

docketed as Case No. 9428 but subsequent docketing under case No. 10508 has fulfilled the reopening requirement under Order R-6446-B.

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Case No. 10508  
Order No. R-?  
ROUGH DRAFT

(6) Amoco presented exhibits and testimony which traced the geologic history of the Bravo Dome area, describing and defining rock units which comprise the carbon dioxide bearing reservoir units in the Tubb formation.

(7) The present productive plant capacity for the Bravo Dome Carbon Dioxide Gas Unit is 390 million cubic feet per day.

(8) The current total deliverability of all active wells connected to the Unit gathering system is approximately 325 million cubic feet per day and has been sufficient to meet Amoco's market demand for CO<sub>2</sub> throughout the life of the unit.

(9) Production and sale of carbon dioxide have varied from an average 40 million cubic feet per day in the first year of operation being 1<sup>9</sup>84, to a peak in 1988 of 366 million cubic feet per day average to a current average of 288 million cubic feet per day.

(10) Capital investment and operational expenditures over the past four years have totaled about \$93 million and have been targeted at operating efficiency and environmental controls.

(11) The current market for carbon dioxide from Bravo Dome is enhanced oil recovery projects in the Permian Basin <sup>which</sup> ~~as~~ has been the historical market for this gas.

See (11) for details  
this is correct

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Case No. 10508

Order No. R-?

ROUGH DRAFT

(12) Market demand for carbon dioxide has been sensitive to the price and anticipated <sup>future</sup> price of crude oil.

(13) Unit operations have resulted in efficient, orderly and economical exploration of the unit area and economical production, field gathering and treatment of carbon dioxide within the unit thereby preventing surface and underground waste of carbon dioxide.

(14) Amoco is carrying out their duties as unit operator of the Bravo Dome Carbon Dioxide Gas Unit and their actions within the unit area are resulting in the protection of the correlative rights of interest owners within the unit.

(15) In accordance with ordering paragraphs (4) and (5) of said Order No. R-6446-B this case should be reopened for additional testimony at a hearing during or before August ~~14~~, 1996.

IT IS THEREFORE ORDERED THAT:

(1) The operation of Amoco Production Company, as unit operator of the Bravo Dome Carbon Dioxide Gas Unit located in Harding, Union and Quay Counties, New Mexico, are hereby found to be resulting in the prevention of waste of carbon dioxide gas and the protection of correlative rights of interest owners within the unit.

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Case No. 10508

Order No. R-?

ROUGH DRAFT

(2) This case shall be reopened for additional testimony at a hearing during or before August 4, 1986.

(3) Jurisdiction of this case is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO

OIL CONSERVATION COMMISSION

GARY CARLSON, Member

WILLIAM W. WEISS, Member

WILLIAM J. LEMAY, Chairman

S E A L