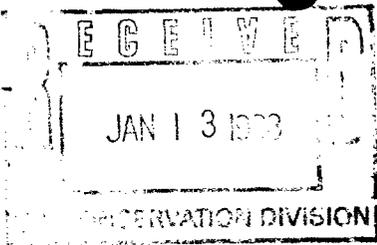


Plan of Operation

NMOCD



Jennifer San Andres Unit
 Chaveroo San Andres Field
 Unit No. NM 82040 X
 Roosevelt County, New Mexico

RECEIVED
 1998 JAN -7 A 10:12

BUREAU OF LAND MANAGEMENT
 ROOSEVELT COUNTY, N.M.

Permian Resources, Inc. (the "Company") operates the Jennifer San Andres Unit ("JSAU") which is located in part of the Chaveroo Field, Roosevelt County, New Mexico. The JSAU covers approximately 5,147 acres of land including the following lands:

Sections 18, 19, 20, 29, and 30 in Township 7 South, Range 34 East
 Section 25, 26(S/2), 35, and 36 in Township 7 South, Range 33 East.

CURRENT OPERATIONS

There are 69 total wells in the JSAU of which 58 are actively producing into 2 central tank batteries. The producing wells produced 7,806 barrels of oil and 9,400 mcf of gas from January through October, 1997. There are also 2 water injection wells (JSAU #29-6 and JSAU #36-7) currently servicing the field.

The accompanying production decline curve shows that the production rates have been increased during the years the company has operated the property.

A personnel field management and staff change during middle 1997 has resulted in a dramatic decrease in daily production and profitability of the JSAU. The company believes that over time the current personnel will be able to better manage the property. Because of the isolation from typical oilfield services, the low producibility of the unit, and low oil prices, the company has to use its own employees to do all of well servicing operations. To date the company employs 13 people who drive to the field from the towns of Lovington and Tatum, New Mexico.

SHUT IN WELLS

There are several wells which have been inactive and they will be re-entered to place back on production or plugged during 1998. These include the following:

- | | |
|------------|------------|
| JSAU 26-16 | JSAU 26-9 |
| JSAU 26-15 | JSAU 26-10 |
| JSAU 26-14 | JSAU 26-12 |
| JSAU 26-13 | JSAU 18-15 |
| JSAU 19-1 | JSAU 20-5 |
| JSAU 20-6 | |

Work on these wells is scheduled to be completed on or before October 15, 1998 with the permission of the Bureau of Land Management.

WELL PLUGGING

If any of the above wells have to be plugged they will be plugged in accordance with the NMOCD rules and regulations. They will be plugged as follows:

1. Set CIBP above perforations and dump 35' of cement on top or set a 25 sack plug
2. 100' plugs at 2300' and 1850'(bottom and top of salt section)
3. If 4 1/2" casing is not pulled below 2500' place a 25 sack cement plug inside 4 1/2" casing in interval 2300-2500, or 100' plug in and out of 4 1/2" stub.
4. 100' plug across surface casing shoe and 50' plug in top of surface casing with dry hole marker installed.

PRODUCTION ENHANCEMENT

The company is planning workovers on several wells that are either producing or shut-in. A detailed well file and electric log analysis of every well in the JSAU has been completed. That study has revealed several added new pay zones and workover candidates that will be perforated and treated(acid, frac, or CO₂) and if successful will greatly increase the daily production. The depressed oil and gas prices will dictate the number of wells worked over and the amount of capital spent on this enhancement project but the company believes that significant reserves can be found.

Work on these wells will begin on or before July 15, 1998 with the permission of the Bureau of Land Management.

FUTURE OPERATIONS

The company firmly believes that the influx of production technology especially in the secondary recovery field will enable the field to ultimately produce substantial secondary reserves. The company has reviewed several opportunities which include continuous hot water systems, polymer waterflooding, water flow obstruction methods, CO₂ Huff and Puff, and CO₂ Flooding. It is believed that only 5% of the original oil in place has been produced using conventional primary production methods.

In many of the San Andres secondary recovery fields in New Mexico and Texas a 1:1 primary to secondary oil recovery ratio is used. If this ratio is achieved in the JSAU then there may be 4.5 million barrels of oil possible recovery.

PRODUCT PRICING

Oil production is sold via to Scurlock Permian Corporation(not an affiliate or business relation to Permian Resources, Inc.). The company has been able to negotiate with Scurlock to have the 20 degree sour crude sold at a better 34 degree sour price. The isolation from market pipelines forces even lower oil prices because of the higher trucking costs than can be anticipated at locations further south and east.

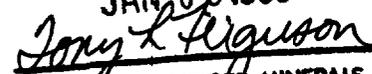
Plan of Operation
Jennifer San Andres Unit
Chaveroo Field
Roosevelt County, New Mexico
Page 3 (cont.)

Gas production is sold via pipeline to Warren Petroleum to a plant located near Bluit, New Mexico. The company has recently re-negotiated a gas contract with Warren that should increase the previously poor gas prices.



Robert H. Marshall
Vice President
December 31, 1997

APPROVED

JAN 08 1998

AUTHORIZED OFFICER, MINERALS
BUREAU OF LAND MANAGEMENT

9742



RAY B. POWELL
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-1331

November 24, 1993

Permian Resources, Inc.
P.O. Drawer 590
Midland, Texas 79702

Attn: Mr. Robert Marshall

Re: 1993 Plan of Development
Jennifer Chaverro San Andres Unit
Roosevelt 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,

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

BY: *Floyd O. Prando*

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

RBP/FOP/pm
cc: OCD
BLM



State of New Mexico

OFFICE OF THE

Commissioner of Public Lands

Santa Fe

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

RAY B. POWELL
COMMISSIONER

July 12, 1993

Permian Resources Inc.
P.O. Drawer 590
Midland, Texas 79702

Attn: Mr. Robert H. Marshall

Re: Designation of Successor Unit Operator
Jennifer Chaveroo San Andres Unit Area
Roosevelt County, New Mexico

Dear Mr. Marshall:

The Bureau of Land Management has advised this office that Permian Resources, Inc. has been Designated as the Successor Unit Operator of the Jennifer Chaveroo San Andres Unit Area, Roosevelt County, New Mexico.

Our records reflect that Snyder Oil Company is still the operator of record for this unit. Pursuant to the terms of the Jennifer Chaveroo San Andres Unit Agreement, any change in unit operators must also be approved by the Commissioner of Public Lands.

In view of the above, please submit a resignation/designation of successor unit operator or other authorization to operate in this unit to this office for approval. If the change of operator has not been filed with and approved by this office, you are operating the Jennifer Chaveroo San Andres Pool Unit without authority.

Please submit the appropriate documents for designation of successor operator of the Jennifer Chaveroo San Andres Pool Unit within thirty (30) days from receipt of this letter. Failure to timely submit the requested documents may jeopardize the state leases committed to this 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,

RAY B. POWELL
COMMISSIONER OF PUBLIC LANDS

BY: *F. Coyle Ruan*
FLOYD O. PRANDO, Director
Oil/Gas and Minerals Division
(505) 827-5744

RBP/FOP/pm
encls.

cc: Reader File
BLM
OCD



RAY B. POWELL
COMMISSIONER

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

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

July 26, 1993

Permian Resources, Inc.
P.O. Drawer 1359
Midland, Texas 79702

Attention: Mr. L. Kent Burkhart

Re: Resignation/Designation of Successor Unit Operator
Jennifer Chaveroo San Andres Unit
Roosevelt County, New Mexico

Dear Mr. Burkhart:

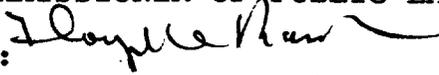
This office is in receipt of a designation of successor unit operator, wherein Snyder Oil Corporation has resigned as unit operator of the Jennifer Chaveroo San Andres Unit and designated Permian Resources, Inc. as the successor unit operator.

The Commissioner of Public Lands has this date approved the resignation of Snyder Oil Corporation and the designation of Permian Resources, Inc. as the successor unit operator of this unit. This change in operators is effective June 15, 1993. In accordance with this approval, Permian Resources, Inc. is now responsible for all operations and the reporting of all production from the unit.

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
COMMISSIONER OF PUBLIC LANDS

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

cc: Reader File
BLM - Roswell
Snyder Oil Company
OCD - Ben Stone
TRD

#9742

DESIGNATION OF SUCCESSOR UNIT OPERATOR

Jennifer Chaveroo San Andres Unit

County of Roosevelt, State of New Mexico

THIS INDENTURE, dated as of the 1st day of October, 1991, by and between SNYDER OIL CORPORATION, hereinafter designated as "Successor Operator", MURPHY OPERATING CORPORATION, as Operator and as an owner of unitized working interests, hereinafter designated as "Resigning Unit Operator", and P.A.J.W. CORPORATION, as an owner of unitized working interests.

W I T N E S S E T H

WHEREAS, under the provisions of the Mineral Leasing Act of February 25, 1920, 41 Stat. 437, 30 U.S.C. §181, et seq, as amended by the Act of August 3, 1946, 60 Stat. 950, the Secretary of the Interior, on the 1st day of October, 1989, approved the Unit Agreement for the Jennifer Chaveroo San Andres Unit, wherein Murphy Operating Corporation is designated as Unit Operator; and

WHEREAS, under the provisions of an Act of the Legislature (§3, Chap. 88, Laws of 1943, as amended by §1, Chapter 162, Laws of 1951; Chapter 19, Article 10, Section 47, New Mexico Statutes 1978 Annotated), the Commissioner of Public Lands on the 1st day of October, 1989, approved a Unit Agreement for the Jennifer Chaveroo San Andres Unit, wherein Murphy Operating Corporation is designated as Unit Operator; and

WHEREAS, said Murphy Operating Corporation has resigned as such Operator, and the designation of a Successor Unit Operator is now required pursuant to the terms hereof; and

WHEREAS, Successor Unit Operator has been and hereby designated by Resigning Unit Operator as the Unit Operator, and said Successor Operator desires to assume all the rights, duties, and obligations of Unit Operator under the said Unit Agreement.

NOW, THEREFORE, in consideration of the premises herein set forth and the promises hereinafter stated, the Successor Unit Operator hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all terms of the Jennifer Chaveroo San Andres Unit Agreement, and the Resigning Operator covenants and agrees that, effective upon the approval of this indenture by the authorized officer in the proper Bureau of Land Management office and the Commissioner of Public Lands, Successor Operator shall be granted exclusive right and privilege of exercising any and all rights and privileges of Unit Operator pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated by references and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

OIL CONSERVATION DIVISION
RECEIVED

'92 FEB 10 AM 9 28

#9140
SOCO

Snyder Oil Corporation

777 Main Street, Suite 2500
Fort Worth, Texas 76102
817 / 338-4043

2-13-92

January 30, 1992

Oil Conservation Division
Energy and Minerals Department
State of New Mexico
Post Office Box 2088
Sante Fe, New Mexico 87504-2088

Attention: Mr. David R. Catanach, Engineer

Re: Plan Of Operation for 1992
Jennifer Chavaroo (San Andres) Unit
Chavaroo (San Andres) Field
Roosevelt County, New Mexico

Gentlemen:

Snyder Oil Corporation ("SOCO") assumed operatorship of the referenced unit on 10/1/91. Pursuant to the provisions of the existing unit agreement, Snyder respectfully submits for your consideration and approval, this Plan of Operation for 1992.

- I. Review of 1991: All wells in the unit capable of producing oil at economic levels were active throughout the year. All water production was reinjected into the productive zone using one permitted disposal well.
- II. Proposed 1992 Plan of Operation: SOCO and the working interest owners of the Jennifer Unit propose that unit development be deferred until the end of 1992. This will allow more time to evaluate the performance of the immediately adjacent Haley Chavaroo and Kerr-McGee Chavaroo Units.
- III. Discussion: The two units mentioned above have been injecting water into the Chavaroo reservoir for about 2 1/2 years. There has been little or no increase in oil production during that time. Although a significant time lag between first injection and production response was expected, some unanticipated problems have emerged. The most troubling of these is premature water breakthrough in some areas of the Haley Unit. Given this situation, it appears prudent to defer development activity on the Jennifer Unit until the offsetting waterfloods respond and/or the breakthrough problems are more clearly understood.

The impact of this delay on the remaining Jennifer Unit hydrocarbon resource will be minimal. The unit area is extremely depleted with very low fluid levels in each wellbore. Consequently, a delay in development will not materially alter reservoir conditions or effect the success of future secondary operations. In addition, this depleted condition eliminates the threat of contaminating shallow fresh water supplies.

Another factor to consider is the significant capital investment required to install a waterflood in the Jennifer Unit. If this investment is made without full understanding of all reservoir parameters, some of this financial resource could be wasted.

- IV. Modification: Subject to your further approval, the Plan of Operation may be modified or supplemented during the year to meet changed conditions and to protect the interests of all parties to the unit agreement.

If you have any questions or need further information, please contact the undersigned at (817) 882-5932.

Respectfully submitted,



Matt Eagleston
Production Engineer

attachments: Unit Map
Unit Performance Curve

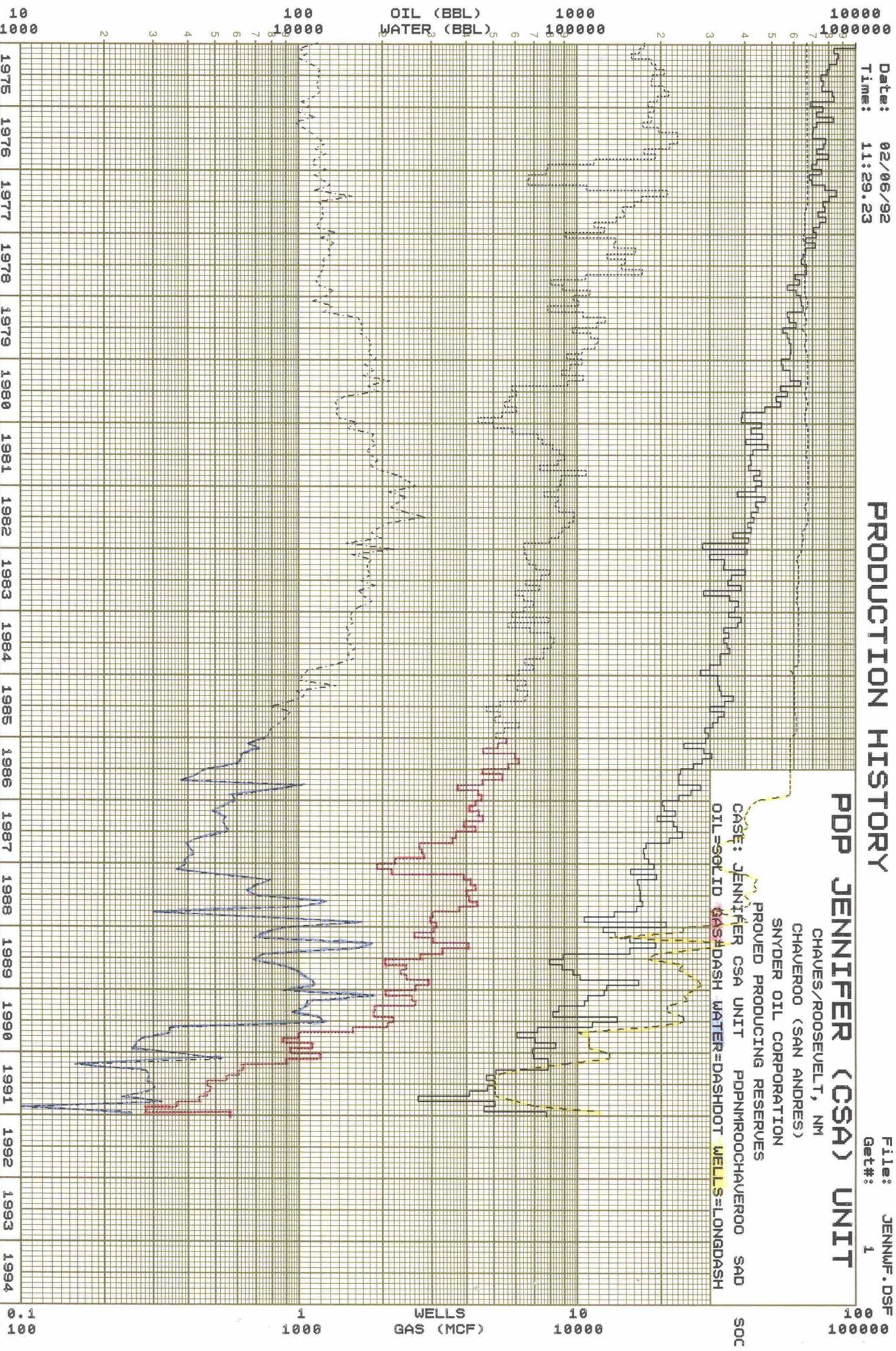
Date: 02/06/92
Time: 11:29.23

PRODUCTION HISTORY

File: JENNWF.DSF
Get#: 1

PDP JENNIFER (CSA) UNIT

CHAVES/ROOSEVELT, NM
CHAUVEROD (SAN ANDRES)
SNYDER OIL CORPORATION
PROVED PRODUCING RESERVES
CASE: JENNIFER CSA UNIT PDPNPROCHAUVEROD SAD
OIL=SGRID GAS=DASH WATER=DASHDOT WELLS=LONGDASH



CUMULATIVE OIL (BBL) = 823105.

SNYDER OIL CO.

YEARS

SL 20 3 3

CUMULATIVE GAS (MCF) = 1607776.

0.1
100

1
1000

WELLS
GAS (MCF)

10
10000

SOC

100
100000



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

May 4, 1992

Snyder Oil Corporation
777 Main Street, Suite 2500
Fort Worth, Texas 76102

Attn: Ms. Janet Dryden

Re: Designation of Successor Unit Operator, Jennifer Chaveroo Unit
Roosevelt County, New Mexico

Dear Ms. Dryden:

This office is in receipt of your letter of April 15, 1992 together with a copy of your designation of successor unit operator for the Jennifer Chaveroo San Andres Unit, Roosevelt County, New Mexico.

The Commissioner of Public Lands has this date approved the designation of Snyder Oil Corporation as the unit operator for the Jennifer Chaveroo San Andres Unit effective October 1, 1991.

Our approval is subject to like approval by the Bureau of Land Management.

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/Gas and Minerals Division
(505) 827-5744
JB/FOP/pm
encls.

cc: Reader File
BLM - Roswell
OCD



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 6, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Murphy Operating Corporation
United Bank Plaza, Suite 300
400 North Pennsylvania Avenue
P.O. Box 2648
Roswell, New Mexico 88202-2648

Attn: Mr. Mark B. Murphy

Re: Change of Unit Operator
Jennifer (San Andres) Unit
Roosevelt County, New Mexico

Dear Mr. Murphy:

Our records reflect that Murphy Operating Corporation is the current operator of record for the Jennifer Chavaroo San Andres Unit. It has been brought to our attention that Snyder Oil Corporation is now operating this unit.

Pursuant to Section 8 (b) of the Jennifer Chaveroo San Andres Unit Agreement, the selection of a successor unit operator shall be approved by the Commissioner and Division.

Please be advised that you have thirty days from the date of this letter to submit for approval to this office, the resignation of Murphy Operating Corporation and the designation of Snyder Oil Corporation as the successor unit operator of the Jennifer Chaveroo San Andres Unit. Also, our records indicate that a Surface Improvement Damage Bond has not been filed with this office by Snyder Oil Corporation. Snyder Oil Corporation cannot be approved as the successor operator until the proper bonds have been filed.

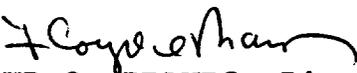
Failure to submit the above required information will subject the Jennifer Chaveroo San Andres Unit to termination pursuant to Section 8 of Unit Agreement.

Murphy Operating Corporation
Jennifer Chavaroo (San Andres) Unit
April 6, 1992
Page 2

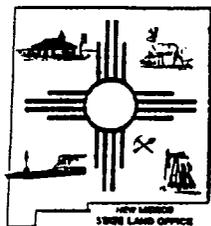
If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

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

cc: Reader File
Snyder Oil Corporation
OCD



State of New Mexico
Commissioner of Public Lands

#9742

W. R. Humphries
COMMISSIONER

Advisory Board April 23, 1990

George Clark
Chairman

Kristin Conniff
Vice Chairman Murphy Operating Corporation
P.O. Box 2648

Melvin Cordova Roswell, New Mexico 88202-2648

Joe Kelly

Robert Portillos

ATTN: Mr. Mark Murphy

Nancy Lynch Vigil

Rex Wilson

RE: Jennifer Chaveroo San Andres Unit
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the Jennifer Chaveroo San Andres 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 of the Unit may exist. You will be contacted at a later date regarding these possibilities.

Enclosed is an approved copy of the 1990 Plan of Development for your files. If we may be of further help, please do not hesitate to contact this office at (505) 827-5746.

Very truly yours,

W.R. HUMPHRIES,
COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5746

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



MURPHY OPERATING CORPORATION

UNITED BANK PLAZA, SUITE 300
400 NORTH PENNSYLVANIA AVENUE
POST OFFICE BOX 2648
ROSWELL, NEW MEXICO 88202-2648

TELEPHONE
505 623-7210

#9742

April 5, 1990

Mr. Francis R. Cherry, Jr., District Manager
United States Department of the Interior
Bureau of Land Management
Roswell District Office
Post Office Box 1397
Roswell, New Mexico 88202-1397

46-90
D-Unit letter
Tax
Ky

Attention: Mr. Armando Lopez, Branch Chief
Branch of Fluids

Mr. William J. LeMay, Director
Oil Conservation Division
Energy and Minerals Department
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87504-2088

Attention: Mr. David R. Catanach, Engineer

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

Re: PLAN OF OPERATION FOR 1990
~~Proposed~~ Jennifer Chaveroo San Andres Unit
Chaveroo San Andres Field
Roosevelt County, New Mexico

Gentlemen:

Pursuant to the provisions of Section 11. of the Unit Agreement, Murphy Operating Corporation ("MOC"), designated Unit Operator of the Jennifer Chaveroo San Andres Unit, Roosevelt County, New Mexico, respectfully submits for your consideration and approval, this Plan of Operation for the secondary recovery of oil by waterflood on the subject unitized land.

- I. Review of 1989: The Jennifer Unit became effective on November 1, 1989. All wells capable of production were activated to establish baseline well production tests. These wells have been continuously produced until April 1, 1990.
- II. Proposed 1990 Plan of Operation: MOC and the working interest owners of the Jennifer Unit propose that unit development be immediately undertaken in three phases as proposed below:

Phase I: Initiate injection by gravity into six (6) proposed injection Wells #26-14, #26-16, #35-06, #35-08, #35-14, and #35-16. The conversion of these wells to injection will facilitate a double inverted nine-spot pattern allowing MOC to monitor injection and production performance.

In addition to the injection conversions, rework and return to production the following twenty-three (23) wells: #25-13, #26-09, #26-10, #26-11, #26-12, #26-13, #26-15, #35-01, #35-02, #35-03, #35-04, #35-05, #35-07, #35-09, #35-10, #35-11, #35-12, #35-13, #35-15, #36-04, #36-05, #36-12, and #36-13.

After monitoring injection and production for approximately 90 days, MOC will perform tracer surveys on the six initial injectors. If indications are favorable and injection rates and pressures are satisfactory, then MOC proposes to implement Phase II.

Phase II: Upon completion of the injection plant and related facilities, MOC proposes to convert the existing inverted nine-spot pattern to a five-spot pattern. Utilizing existing well bores, MOC also proposes to expand the inverted nine-spot pattern to evaluate injection

characteristics in undeveloped unit areas. The reworking of certain producing wells located in developed injection areas to monitor performance will also be required.

To convert the initial inverted nine-spot pattern to a five-spot pattern, the following eight (8) wells will be converted to injection: #26-10, #26-12, #35-02, #35-04, #35-10, #35-12, #36-04, and #36-12.

To expand the inverted nine-spot pattern in undeveloped unit areas, the following nine (9) wells will be converted to injection: #25-06, #25-16, #36-07, #18-15, #19-07, #19-15, #20-05, #29-06, and #30-07.

To monitor waterflood performance, the following thirty-three (33) wells will be worked over and returned to production: #25-01, #25-02, #25-03, #25-04, #25-05, #25-09, #25-10, #25-11, #25-15, #36-03, #36-06, #36-11, #19-01, #19-02, #19-08, #19-09, #19-10, #19-11, #19-14, #19-16, #20-03, #20-06, #29-03, #29-04, #29-05, #30-01, #30-02, #30-03, #30-06, #30-08, #30-09, #30-10, and #30-11.

After monitoring injection and production for 120 to 180 days, MOC plans to perform injection profiles on the seventeen (17) proposed Phase II injectors. If indications are favorable and injection rates and pressures are satisfactory, then MOC proposes to implement Phase III.

Phase III: Complete unit-wide development by establishing five-spot pattern. This will require converting the following fourteen (14) wells to injection: #25-02, #25-04, #25-10, #36-06, #19-01, #19-09, #19-11, #20-03, #29-03, #29-05, #30-01, #30-03, #30-09, and #30-11.

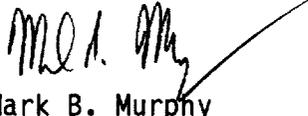
To fully develop the Jennifer Unit, a total of eleven (11) wells will be drilled in the third or fourth quarter of 1991. These eleven (11) wells consist of seven (7) injection wells (#25-08, #25-12, #25-14, #36-02, #19-03, #20-11, and #20-13) and four (4) producing wells (#25-07, #19-06, #20-12, and #20-14.)

- II. Operating Guidelines: MOC plans to monitor all injection wells through daily rate and pressure checks. After 90 to 180 days of initiation of injection into any given well, a tracer survey will be run in order to insure acceptable injection profiles. If unacceptable injection profiles are observed, appropriate remedial work will be performed. As wells are converted to injection status, the annuluses of each well will be filled with inert ("packer") fluid containing corrosion inhibiting chemicals. The downhole integrity of each injection well will be determined by "pressuring up" the annulus of each well and maintaining a positive pressure of 300 psig for at least thirty (30) minutes. The procedure for conversion to injection status and all remedial and drilling operations will be performed in strict adherence to the Rules and Regulations of the Oil Conservation Division and the Bureau of Land Management.
- IV. Modification: Subject to your further approval, this Plan of Operation may be modified or supplemented during the year to meet changed conditions and to protect the interests of all parties to the Unit Agreement.

Should you have any questions or comments, please contact the undersigned.

Respectfully submitted,

MURPHY OPERATING CORPORATION



Mark B. Murphy
President and Chief Operating Officer

MBM/js

Attachments: Jennifer Chaveroo San Andres Unit Well Location and Status Map;
Jennifer Chaveroo San Andres Unit Reservoir Performance Curve;
Jennifer Chaveroo San Andres Unit 1989 Tabulated Production and Injection Data.

cc: Mr. Jerry E. Sexton, Supervisor
State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 1980
Hobbs, New Mexico 88240-1980

Oil, Gas, & Water vs Time

Retrieval Code: 150,041, SUMMARY

Dwight's [ENERGYDATA] Inc.

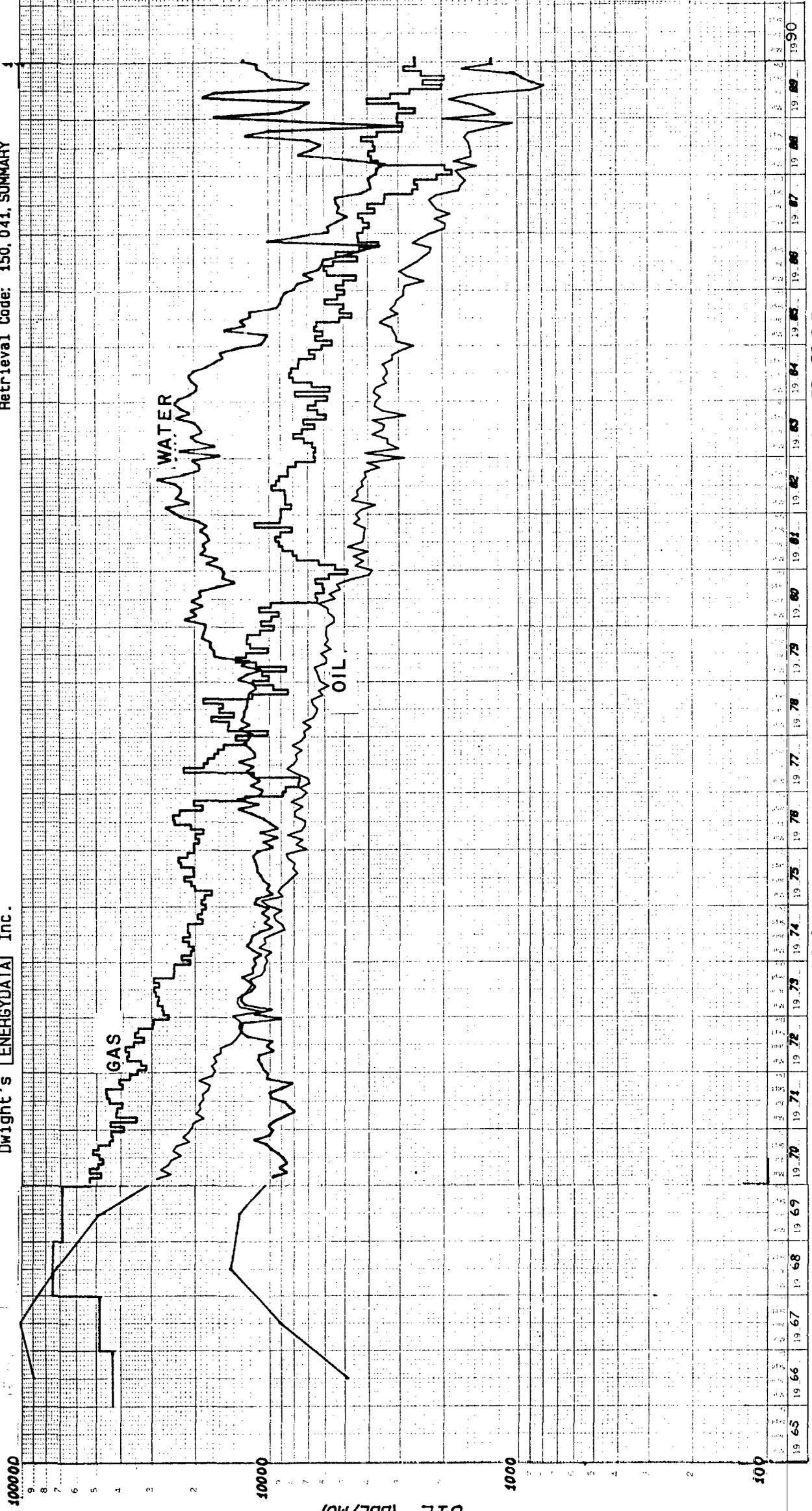


EXHIBIT 2
OIL (BBL/MO)

Location: 7S 33 34E
 API #: 30-041-0000000
 Oil CUM: 4801285
 Gas CUM: 61888-40
 Date: 12-18-89

Well/Lease: JENNIFER CHAVEIRO S A UNIT
 County: ROOSEVELT NM
 Operator:
 Field: CHAVEIRO
 Reservoir:

MURPHY OPERATING CORPORATION
4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990

JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

| PRODUCTION | | JENNIFER CHAVEROO SAN ANDRES UNIT | | CUMULATIVE 1989 | | | | | | | | | | | | 1989 | | CUM. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--------|-----------------------------------|-------|-----------------|---|-----|---------|--------|------|---------------|------|------|------|------|-----|------|----|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|--------|---------|---------|---------|---------|---------|--------|
| Computer LEASE NAME, | | Well # WELL | | S T | | R | | STATUS | | THRU 12/31/88 | | JAN. | | FEB. | | MAR. | | APR. | | MAY | | JUN. | | JUL. | | AUG. | | SEP. | | OCT. | | NOV. | | DEC. | | TOTAL | | TOTALS | | | |
| STATE CV | 090127 | 1 K | 35-11 | 35-17S-R33E | P | OIL | 120,660 | 0 | 91 | 51 | 48 | 45 | 65 | 41 | 44 | 34 | 0 | 495 | 121,155 | 0 | 38 | 135,429 | 0 | 15 | 159,554 | 0 | 0 | 182,214 | 0 | 0 | 249,372 | 0 | 0 | 4,089 | 47 | 167,143 | 43 | 165,959 | 215,324 | | |
| | | | | | | GAS | 135,391 | 0 | 28 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 135,429 | 0 | 0 | 135,429 | 0 | 0 | 159,554 | 0 | 0 | 182,214 | 0 | 0 | 249,372 | 0 | 0 | 4,089 | 47 | 167,143 | 43 | 165,959 | 215,324 | |
| | | | | | | WAT | 37,182 | 0 | 1204 | 33 | 37 | 16 | 15 | 999 | 8 | 110 | 0 | 2,437 | 1,233 | 0 | 0 | 1,233 | 0 | 0 | 159,554 | 0 | 0 | 182,214 | 0 | 0 | 249,372 | 0 | 0 | 4,089 | 47 | 167,143 | 43 | 165,959 | 215,324 | | |
| STATE CV TOTAL | | | | | | | 447,310 | 6 | 91 | 51 | 48 | 45 | 65 | 41 | 44 | 34 | 0 | 495 | 121,155 | 0 | 38 | 135,429 | 0 | 15 | 159,554 | 0 | 0 | 182,214 | 0 | 0 | 249,372 | 0 | 0 | 4,089 | 47 | 167,143 | 43 | 165,959 | 215,324 | | |
| | | | | | | GAS | 483,520 | 43 | 28 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 135,429 | 0 | 0 | 135,429 | 0 | 0 | 159,554 | 0 | 0 | 182,214 | 0 | 0 | 249,372 | 0 | 0 | 4,089 | 47 | 167,143 | 43 | 165,959 | 215,324 | |
| | | | | | | WAT | 494,304 | 1955 | 1204 | 33 | 1830 | 1630 | 1530 | 999 | 690 | 110 | 0 | 10,011 | 504,315 | 504,315 | 0 | 81 | 483,601 | 0 | 15 | 167,143 | 0 | 0 | 249,372 | 0 | 0 | 4,089 | 47 | 167,143 | 43 | 165,959 | 215,324 | | | | |
| STATE DA | 090121 | 1 E | 35-05 | 35-17S-R33E | S | OIL | 42,792 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42,792 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 4,130 | | |
| | | | | | | GAS | 56,598 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56,598 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 4,130 | |
| | | | | | | WAT | 4,130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,130 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 4,130 | |
| STATE DA TOTAL | | | | | | | 42,792 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42,792 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 0 | 0 | 42,792 | 4,130 | | |
| | | | | | | GAS | 56,598 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56,598 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 0 | 0 | 56,598 | 4,130 | |
| | | | | | | WAT | 4,130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,130 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 0 | 0 | 4,130 | 4,130 | |
| STATE DE | 090130 | 1 N | 35-14 | 35-17S-R33E | P | OIL | 58,153 | 0 | 222 | 60 | 62 | 48 | 53 | 40 | 44 | 43 | 43 | 37 | 692 | 58,845 | 0 | 0 | 95,506 | 0 | 7 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 95,506 | 11,693 | | |
| | | | | | | GAS | 95,506 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95,506 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 11,693 |
| | | | | | | WAT | 11,554 | 0 | 52 | 8 | 0 | 32 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 139 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 95,506 | 11,693 | |
| STATE DE TOTAL | | | | | | | 58,153 | 0 | 222 | 60 | 62 | 48 | 53 | 40 | 44 | 43 | 43 | 37 | 692 | 58,845 | 0 | 0 | 95,506 | 0 | 7 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 95,506 | 11,693 | | |
| | | | | | | GAS | 95,506 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95,506 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 0 | 0 | 95,506 | 11,693 |
| | | | | | | WAT | 11,554 | 0 | 52 | 8 | 0 | 32 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 139 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 11,693 | 0 | 0 | 95,506 | 11,693 | |

MURPHY OPERATING CORPORATION
4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990

PRODUCTION
JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

| Computer Lease # | WELL | S T R | STATUS | CUMULATIVE THRU 12/31/88 | 1989 JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 TOTAL | CUM. TOTALS | |
|----------------------------------|-------|-------|--------|------------------------------|----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|------------------------------|--|
| STATE G (Kerr-McGee Corporation) | | | | | | | | | | | | | | | | | | | |
| 090021 | 1 K | | S | 29,473 39,907 4,790 | --- | Last prod. date 2/83 | | | | | | | | | | | 1989 | 35,875 | |
| 090022 | 2 N | | S | 37,651 55,440 2,082 | --- | Last prod. date 2/83 | | | | | | | | | | | 1989 | 61,127 | |
| 090020 | 3 J | | S | 24,987 26,180 2,739 | --- | Last prod. date 3/87 | | | | | | | | | | | 1989 | 4,746 | |
| 090023 | 4 O | | P | 35,548 56,802 4,672 | 28 342 7 | 37 296 4 | 22 319 0 | 24 358 8 | 26 348 8 | 17 410 8 | 46 373 8 | 25 386 8 | 26 374 8 | 23 376 0 | 25 394 7 | 28 349 8 | 327 4,325 74 | 203,275 269,835 20,575 | |
| 090019 | 5 I | | S | 30,678 31,647 1,769 | --- | Last prod. date 12/86 | | | | | | | | | | | 1989 | 4,746 | |
| 090024 | 6 P | | S | 44,611 55,538 4,449 | --- | Last prod. date 3/87 | | | | | | | | | | | 1989 | 20,575 | |
| STATE G TOTAL | | | | 202,948 265,514 20,501 | 28 342 7 | 37 296 4 | 22 319 0 | 24 358 8 | 26 348 8 | 17 410 8 | 46 373 8 | 25 386 8 | 26 374 8 | 23 376 0 | 25 394 7 | 28 349 8 | 327 4,325 74 | 203,275 269,835 20,575 | |
| HOBBBS W | | | | | | | | | | | | | | | | | | | |
| 090106 | 1 B | | P | 51,082 34,868 109 | 109 | 74 | 125 | 121 | 80 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 557 | 51,639 | |
| 090105 | 2 A | | P | 20,525 65,313 45,788 | 93 | 84 | 193 | 60 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 492 | 21,017 | |
| 090109 | 3 G | | S | 28,937 25,653 69,741 | 0 | 0 | 0 | 175 | 150 | 179 | 85 | 88 | 81 | 22 | 0 | 0 | 780 | 29,717 | |
| 090110 | 4 H | | S | 42,941 17,381 51,798 | 0 | 0 | 0 | 111 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 69,873 | |
| | 30-07 | | | 30-T7S-R34E | | | | 79 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 206 | 43,147 | |
| | 30-08 | | | 30-T7S-R34E | | | | 29 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 17,441 | |
| | | | | | | | | 79 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 51,930 | |
| | | | | | | | | 116 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 216 | 38,470 | |
| | | | | | | | | 91 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 | 13,033 | |

MURPHY OPERATING CORPORATION
4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990

PRODUCTION
JENNIFER CHAVEROO SAN ANDRES UNIT

JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

| Computer # | WELL | LEASE NAME | S | T | R | STATUS | THRU | CUMULATIVE | 1989 | | | | | | | | | | | | TOTAL | CUM. TOTAL'S | | | | |
|-----------------------|-------|-------------|---|---|---|--------|------|------------|------|------|------|------|-----|------|------|------|------|------|------|------|-------|--------------|----|----|--------|---------|
| | | | | | | | | | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | | | | | | |
| HOBSBS W (continued): | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 090112 | 5 J | 30-T7S-R34E | | | | S | | 44,321 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44,321 | |
| | 30-10 | | | | | | | 26,958 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26,958 |
| | | | | | | | | 192,591 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 192,591 |
| 090092 | 6 D | 29-T7S-R34E | | | | S | | 67,244 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67,244 |
| | 29-04 | | | | | | | 54,019 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54,019 |
| | | | | | | | | 49,857 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49,857 |
| 090093 | 7 E | 29-T7S-R34E | | | | S | | 68,701 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68,701 |
| | 29-05 | | | | | | | 32,967 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32,967 |
| | | | | | | | | 39,154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39,154 |
| 090091 | 8 C | 29-T7S-R34E | | | | S | | 35,098 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35,098 |
| | 29-03 | | | | | | | 22,674 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22,674 |
| | | | | | | | | 124,304 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124,304 |
| 090094 | 9 F | 29-T7S-R34E | | | | I | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 29-06 | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,893 |
| | | | | | | | | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | @0 | 0 |
| HOBSBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 597,872 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | | | | | | | 482,314 | 93 | 84 | 193 | 240 | 248 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,216 |
| | | | | | | | | 595,621 | 93 | 84 | 193 | 360 | 293 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,251 |
| HOBBS W TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 453,298 | 109 | 74 | 125 | 399 | 266 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,021 |
| | | | | | | | | 281,618 | 306 | 170 | 237 | 582 | 499 | 0 | 169 | 0 | 0 | 0 | | | | | | | | |

MURPHY OPERATING CORPORATION
4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990

PRODUCTION
JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

| Computer LEASE NAME, Well # | WELL | S | T | R | STATUS | THRU 12/31/88 | 1989 JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 TOTAL | CUM. TOTALS | |
|-----------------------------|-------|---|---|---|--------|---------------|-----------|------|------|------|-----|------|------|------|------|------|------|------|------------|-------------|--------|
| STATE DB (Continued): | | | | | | | | | | | | | | | | | | | | | |
| 090071 | 9 0 | | | | P | | 64,017 | 165 | 175 | 197 | 99 | 94 | 58 | 58 | 55 | 57 | 53 | 54 | 1,117 | 65,134 | |
| | | | | | OIL | | | 0 | 0 | 389 | 223 | 153 | 191 | 133 | 130 | 120 | 118 | 103 | 1,686 | 69,357 | |
| | 25-15 | | | | GAS | | 67,671 | 0 | 0 | 248 | 237 | 249 | 237 | 248 | 248 | 248 | 240 | 248 | 2,915 | 35,587 | |
| | | | | | WAT | | 32,672 | 248 | 224 | 248 | 237 | 249 | 237 | 248 | 248 | 248 | 240 | 248 | 248 | 2,915 | 35,587 |
| STATE DB TOTAL | | | | | | | | | | | | | | | | | | | | | |
| | | | | | OIL | | 713,867 | 165 | 175 | 197 | 248 | 236 | 234 | 231 | 218 | 231 | 206 | 216 | 2,570 | 716,437 | |
| | | | | | GAS | | 729,995 | 446 | 426 | 389 | 557 | 458 | 581 | 533 | 544 | 504 | 492 | 433 | 5,885 | 735,880 | |
| | | | | | WAT | | 269,313 | 248 | 224 | 248 | 720 | 744 | 720 | 744 | 744 | 744 | 720 | 744 | 7,320 | 276,633 | |
| | | | | | INJ | | 3,303 | 403 | 364 | 398 | 720 | 879 | 720 | 744 | 744 | 744 | 720 | 744 | 7,900 | 11,203 | |

STATE DF 1 I 25-T7S-R33E SWD OIL 26,633 --- INACTIVE ---
 090065 25-09 GAS 11,571
 WAT 38,216

STATE DF TOTAL OIL 26,633
 GAS 11,571
 WAT 38,216

| WOLF FEDERAL | | | | | | | | | | | | | | | | | | | | | |
|--------------|-------|--|--|--|-----|--|--------|-----|-----|-----|-----|----|---|-----|-----|----|-----|-----|-------|--------|--------|
| 090017 | 1 G | | | | P | | 32,250 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 31 | 14 | 26 | 16 | 129 | 32,379 | |
| | 19-07 | | | | GAS | | 25,626 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25,626 | 25,626 |
| | | | | | WAT | | 17,211 | 0 | 0 | 0 | 0 | 62 | 0 | 186 | 180 | 21 | 180 | 186 | 815 | 18,026 | |
| 090014 | | | | | | | | | | | | | | | | | | | | | |
| | 2 B | | | | T | | 27,113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27,113 | |
| | 19-02 | | | | GAS | | 24,578 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24,578 | |
| | | | | | WAT | | 14,687 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14,687 | |
| 090011 | | | | | | | | | | | | | | | | | | | | | |
| | 3 D | | | | T | | 32,687 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32,687 | |
| | 18-15 | | | | GAS | | 27,747 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27,747 | |
| | | | | | WAT | | 13,106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,106 | |
| 090013 | | | | | | | | | | | | | | | | | | | | | |
| | 4 A | | | | P | | 28,695 | 35 | 63 | 60 | 35 | 14 | 1 | 20 | 31 | 14 | 26 | 15 | 342 | 29,037 | |
| | 19-01 | | | | GAS | | 20,714 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20,714 | |
| | | | | | WAT | | 14,447 | 155 | 140 | 150 | 120 | 63 | 0 | 45 | 217 | 26 | 210 | 217 | 1,553 | 16,000 | |

MURPHY OPERATING CORPORATION
 4TH QUARTER PRODUCTION REPORT
 JANUARY 1, 1990

PRODUCTION
 JENNIFER CHAVEROO SAN ANDRES UNIT
 JENNIFER CHAVEROO SAN ANDRES UNIT
 EFFECTIVE OCTOBER 1, 1989

| Computer LEASE NAME, Well # WELL | S T R | STATUS | THRU 12/31/88 | 1989 JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 TOTAL | CUM. TOTALS | | |
|-------------------------------------|-------|-------------|---------------|--------------|---------|------------------------------|------|-----|------|------|------|------|------|------|------|---------------|----------------|--------|---------|
| WOLF FEDERAL (continued): | | | | | | | | | | | | | | | | | | | |
| 090018 | 5 H | 19-T7S-R34E | P | OIL | 37,670 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 14 | 37,684 | |
| | 19-08 | | | GAS | 28,647 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28,647 | |
| | | | | WAT | 23,451 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 253 | 0 | 0 | 0 | 253 | 23,704 | |
| WOLF FEDERAL TOTAL | | | | OIL | 158,415 | 35 | 63 | 60 | 35 | 28 | 1 | 20 | 62 | 52 | 42 | 56 | 31 | 485 | 158,900 |
| | | | | GAS | 127,312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127,312 |
| | | | | WAT | 82,902 | 155 | 140 | 150 | 120 | 125 | 0 | 45 | 403 | 390 | 300 | 390 | 403 | 2,621 | 85,523 |
| STATE J (Myco Petroleum Co.) | | | | | | | | | | | | | | | | | | | |
| 090058 | 1 B | 25-T7S-R33E | S | OIL | 73,707 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73,707 | |
| | 25-02 | | | GAS | 73,250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73,250 | |
| | | | | WAT | 47,557 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47,557 | |
| 090063 2 G 25-T7S-R33E P&A | | | | OIL | 47,492 | ---Plugging approved 1980--- | | | | | | | | | | | | 0 | 0 |
| | 25-07 | | | GAS | | | | | | | | | | | | | | 0 | 0 |
| | | | | WAT | | | | | | | | | | | | | | 0 | 0 |
| 090057 | 3 A | 25-T7S-R33E | S | OIL | 52,490 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 52,531 |
| | 25-01 | | | GAS | 43,062 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43,062 |
| | | | | WAT | 38,130 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 38,191 |
| 090072 4 P 25-T7S-R33E P | | | | OIL | 23,528 | 43 | 49 | 52 | 20 | 0 | 34 | 0 | 33 | 36 | 36 | 40 | 41 | 384 | 23,912 |
| | 25-16 | | | GAS | 19,182 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,182 |
| | | | | WAT | 21,345 | 186 | 168 | 186 | 30 | 0 | 29 | 0 | 31 | 30 | 30 | 30 | 30 | 750 | 22,095 |
| STATE J TOTAL | | | | OIL | 197,217 | 43 | 49 | 52 | 20 | 19 | 34 | 22 | 33 | 36 | 36 | 40 | 41 | 425 | 197,642 |
| | | | | GAS | 135,494 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 135,494 |
| | | | | WAT | 107,032 | 186 | 168 | 186 | 30 | 30 | 29 | 31 | 31 | 30 | 30 | 30 | 30 | 811 | 107,843 |

MURPHY OPERATING CORPORATION
4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990

PRODUCTION
JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

| Computer # | LEASE NAME | STATUS | CUMULATIVE THRU 12/31/88 | 1989 JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 TOTAL | CUM. TOTALS |
|----------------------------------|-------------------------------------------------|--------|--------------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------------|-------------|
| 090136 | STATE K (Myco Petroleum Co.) 1 D 36-T7S-R33E | S | 77,262 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77,262 |
| | 36-04 | | GAS 76,351 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76,351 |
| | | | WAT 34,161 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34,161 |
| 090137 | 2 E 36-T7S-R33E | P | 74,701 | 101 | 78 | 177 | 47 | 41 | 40 | 50 | 43 | 62 | 47 | 50 | 52 | 788 | 2,285 |
| | 36-05 | | GAS 74,503 | 465 | 325 | 533 | 142 | 117 | 23 | 158 | 130 | 101 | 103 | 98 | 90 | 90 | 76,788 |
| | | | WAT 43,068 | 93 | 84 | 93 | 85 | 87 | 101 | 93 | 93 | 90 | 93 | 90 | 93 | 1,095 | 44,163 |
| 090135 | 3 C 36-T7S-R33E | S | 120,329 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,329 |
| | 36-03 | | GAS 146,573 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146,573 |
| | | | WAT 301,492 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 301,492 |
| 090144 | 4 L 36-T7S-R33E | P | 62,611 | 0 | 0 | 0 | 47 | 41 | 41 | 50 | 43 | 0 | 47 | 25 | 26 | 320 | 62,931 |
| | 36-12 | | GAS 63,118 | 0 | 0 | 0 | 142 | 117 | 81 | 158 | 130 | 101 | 103 | 98 | 90 | 90 | 64,138 |
| | | | WAT 47,983 | 0 | 0 | 0 | 367 | 379 | 353 | 372 | 372 | 0 | 93 | 600 | 310 | 2,846 | 50,829 |
| 090145 | 5 M 36-T7S-R33E | S | 81,027 | 0 | 0 | 0 | 47 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 81,115 |
| | 36-13 | | GAS 91,756 | 0 | 0 | 0 | 142 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 259 | 92,015 |
| | | | WAT 80,217 | 0 | 0 | 0 | 310 | 321 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 631 | 80,848 |
| 090138 | 6 F 36-T7S-R33E | P | 52,689 | 0 | 0 | 0 | 47 | 41 | 41 | 51 | 43 | 62 | 47 | 50 | 52 | 434 | 53,123 |
| | 36-06 | | GAS 53,326 | 0 | 0 | 0 | 142 | 117 | 64 | 158 | 130 | 101 | 103 | 98 | 90 | 1,003 | 54,329 |
| | | | WAT 107,409 | 0 | 0 | 0 | 254 | 291 | 277 | 279 | 279 | 270 | 279 | 270 | 279 | 2,478 | 109,887 |
| 090143 | 7 K 36-T7S-R33E | P | 29,142 | 0 | 0 | 0 | 26 | 24 | 20 | 25 | 21 | 32 | 22 | 26 | 27 | 223 | 29,365 |
| | 36-11 | | GAS 44,814 | 0 | 0 | 0 | 76 | 63 | 411 | 79 | 58 | 46 | 46 | 44 | 42 | 865 | 45,679 |
| | | | WAT 86,493 | 0 | 0 | 0 | 1804 | 1836 | 1789 | 1860 | 1860 | 1800 | 1860 | 1800 | 1860 | 16,469 | 102,962 |
| STATE K TOTAL | | | 497,761 | 101 | 78 | 177 | 214 | 188 | 142 | 176 | 150 | 156 | 163 | 151 | 157 | 1,853 | 499,614 |
| | | | GAS 550,441 | 465 | 325 | 533 | 644 | 531 | 579 | 553 | 448 | 349 | 355 | 338 | 312 | 5,432 | 555,873 |
| | | | WAT 700,823 | 93 | 84 | 93 | 2820 | 2914 | 2520 | 2604 | 2604 | 2160 | 2325 | 2760 | 2542 | 23,519 | 724,342 |
| STATE I (Kerr-McGee Corporation) | | | | | | | | | | | | | | | | | |
| 090066 | 1 J 25-T7S-R33E | P | 53,127 | 93 | 91 | 92 | 87 | 90 | 85 | 73 | 96 | 91 | 89 | 87 | 84 | 1,058 | 54,185 |
| | 25-10 | | GAS 26,670 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26,670 |
| | | | WAT 2,269 | 7 | 4 | 0 | 8 | 0 | 8 | 8 | 8 | 8 | 7 | 7 | 8 | 73 | 2,342 |

MURPHY OPERATING CORPORATION
4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990

PRODUCTION
JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

| Computer # | WELL | S | T | R | STATUS | THRU 12/31/88 | 1989 | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 | CUM. | |
|---------------|-------|------------------------|---|---|--------|---------------|-----------|------|------|------|------|------|------|------|------|------|------|------|--------|---------|-----------|
| | | | | | | CUMULATIVE | JAN. | | | | | | | | | | | | | TOTAL | TOTALS |
| HOBBS T | - T-2 | BATTERY | | | | | | | | | | | | | | | | | | | |
| 090126 | 14 J | 35-T7S-R33E | | | P | OIL | 140,139 | 0 | 0 | 71 | 33 | 0 | 0 | 0 | 0 | 0 | 126 | 76 | 306 | 140,445 | |
| | 35-10 | | | | | GAS | 296,734 | 0 | 0 | 209 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 349 | 297,083 | |
| | | | | | | WAT | 171,437 | 0 | 0 | 71 | 401 | 0 | 0 | 0 | 0 | 0 | 150 | 155 | 777 | 172,214 | |
| 090119 | 16 C | 35-T7S-R33E | | | P | OIL | 94,174 | 0 | 0 | 22 | 33 | 0 | 0 | 0 | 0 | 0 | 83 | 51 | 189 | 94,363 | |
| | 35-03 | | | | | GAS | 194,519 | 0 | 0 | 65 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 194,628 | |
| | | | | | | WAT | 20,005 | 0 | 0 | 1522 | 1783 | 0 | 0 | 0 | 0 | 0 | 900 | 930 | 5,135 | 25,140 | |
| 090117 | 17 A | 35-T7S-R33E | | | P | OIL | 114,624 | 0 | 0 | 22 | 33 | 0 | 0 | 0 | 0 | 0 | 83 | 51 | 189 | 114,813 | |
| | 35-01 | | | | | GAS | 251,470 | 0 | 0 | 65 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 251,578 | |
| | | | | | | WAT | 138,504 | 0 | 0 | 1770 | 2051 | 0 | 0 | 0 | 0 | 0 | 720 | 744 | 5,285 | 143,769 | |
| 090131 | 18 O | 35-T7S-R33E | | | P | OIL | 103,771 | 163 | 94 | 90 | 134 | 0 | 0 | 0 | 0 | 0 | 166 | 101 | 963 | 104,734 | |
| | 35-15 | | | | | GAS | 255,058 | 570 | 453 | 511 | 179 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,980 | 257,038 | |
| | | | | | | WAT | 44,494 | 82 | 38 | 71 | 89 | 0 | 0 | 0 | 0 | 0 | 60 | 62 | 495 | 44,989 | |
| 090132 | 19 P | 35-T7S-R33E | | | P | OIL | 103,495 | 133 | 77 | 68 | 101 | 0 | 0 | 0 | 0 | 0 | 166 | 102 | 822 | 104,317 | |
| | 35-16 | | | | | GAS | 258,888 | 413 | 328 | 370 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,448 | 260,336 | |
| | | | | | | WAT | 50,192 | 82 | 38 | 106 | 134 | 0 | 0 | 0 | 0 | 0 | 90 | 93 | 636 | 50,828 | |
| HOBBS T | TOTAL | | | | | OIL | 556,203 | 296 | 171 | 273 | 334 | 0 | 0 | 0 | 0 | 0 | 624 | 381 | 2,469 | 558,672 | |
| | | | | | | GAS | 1,256,669 | 983 | 781 | 808 | 541 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,994 | 1,260,663 |
| | | | | | | WAT | 424,632 | 164 | 76 | 3540 | 4458 | 0 | 0 | 0 | 0 | 0 | 1920 | 1984 | 12,328 | 436,960 | |
| STATE SECTION | 35 | (Marathon Oil Company) | | | | | | | | | | | | | | | | | | | |
| 090128 | 1 L | 35-T7S-R33E | | | P | OIL | 68,993 | 0 | 0 | 41 | 29 | 0 | 0 | 0 | 0 | 114 | 83 | 51 | 318 | 69,311 | |
| | 35-12 | | | | | GAS | 132,644 | 0 | 0 | 142 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 254 | 132,898 | |
| | | | | | | WAT | 47,244 | 0 | 0 | 424 | 296 | 0 | 0 | 0 | 0 | 596 | 300 | 310 | 1,926 | 49,170 | |
| 090129 | 2 M | 35-T7S-R33E | | | P | OIL | 44,151 | 0 | 0 | 63 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 147 | 44,298 | |
| | 35-13 | | | | | GAS | 62,570 | 0 | 0 | 218 | 172 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 390 | 62,960 | |
| | | | | | | WAT | 20,313 | 0 | 0 | 338 | 237 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 637 | 20,950 | |

MURPHY OPERATING CORPORATION
4TH QUARTER PRODUCTION REPORT
JANUARY 01, 1990

PRODUCTION
JENNIFER CHAVEROO SAN ANDRES UNIT

JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

Computer LEASE NAME, Well # WELL S T R STATUS THRU 12/31/88 1989 JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC. 1989 TOTAL CUM. TOTALS

STATE SECTION 35 (continued):

| Well # | WELL | S | T | R | STATUS | THRU 12/31/88 | 1989 JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 TOTAL | CUM. TOTALS | |
|--------|-------|---|---|---|--------|---------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------------|-------------|--------|
| 090122 | 3 F | | | | P | 090122 | 0 | 0 | 0 | 63 | 58 | 57 | 37 | 61 | 67 | 115 | 83 | 51 | 592 | 70,625 | |
| | 35-06 | | | | GAS | 090122 | 0 | 0 | 0 | 218 | 172 | 31 | 196 | 319 | 337 | 378 | 568 | 492 | 2,711 | 84,117 | |
| | | | | | WAT | 090122 | 0 | 0 | 0 | 169 | 118 | 98 | 93 | 93 | 90 | 1977 | 90 | 93 | 2,821 | 28,395 | |
| 090123 | 4 G | | | | P | 090123 | 58 | 51 | 234 | 44 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 416 | 79,701 | |
| | 35-07 | | | | GAS | 090123 | 106 | 130 | 638 | 152 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,146 | 145,213 | |
| | | | | | WAT | 090123 | 3125 | 2822 | 5580 | 4230 | 3079 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44,362 | 44,362 |
| 090124 | 5 H | | | | P | 090124 | 141 | 123 | 0 | 103 | 91 | 115 | 37 | 61 | 68 | 0 | 84 | 51 | 874 | 102,952 | |
| | 35-08 | | | | GAS | 090124 | 337 | 413 | 0 | 359 | 282 | 744 | 196 | 320 | 337 | 378 | 567 | 492 | 4,425 | 132,147 | |
| | | | | | WAT | 090124 | 2455 | 2218 | 0 | 3299 | 2191 | 2362 | 2170 | 2170 | 2100 | 0 | 2100 | 2170 | 23,235 | 95,525 | |

STATE SECTION 35 TOTAL

| WELL | 1989 JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 TOTAL | CUM. TOTALS |
|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------------|-------------|
| OIL | 199 | 174 | 234 | 314 | 266 | 172 | 74 | 122 | 135 | 229 | 250 | 178 | 2,347 | 366,971 |
| GAS | 443 | 543 | 638 | 1089 | 858 | 775 | 392 | 639 | 674 | 756 | 1135 | 984 | 8,926 | 557,335 |
| WAT | 5580 | 5040 | 5580 | 8460 | 5921 | 2460 | 2263 | 2263 | 2263 | 2573 | 2490 | 2635 | 47,528 | 238,483 |

STATE SECTION 36 (Marathon Oil Company)
090139 1 G 36-T7S-R33E SWD INJ 2,051,807 10517 9058 8496 15840 15158 14029 5897 7659 8780 9350 10515 10423 125,722 2,177,529
36-07

STATE (Jim Conine Incorporated)
090064 1 H 25-T7S-R33E T
25-08
OIL 39,758
GAS 26,870
WAT 45,925
----- Plugging approved 1974 -----

STATE TOTAL

| WELL | OIL | GAS | WAT |
|------|--------|-----|-----|
| OIL | 39,758 | | |
| GAS | 26,870 | | |
| WAT | 45,925 | | |
| OIL | 39,758 | | |
| GAS | 26,870 | | |
| WAT | 45,925 | | |

4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990

PRODUCTION
JENNIFER CHAVEROO SAN ANDRES UNIT

JENNIFER CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1989

| Computer LEASE NAME, Well # | WELL | S | T | R | STATUS | THRU 12/31/88 | 1989 JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | 1989 TOTAL | CUM. TOTALS | |
|--------------------------------|------------------|---|---|---|--------|---------------|--------------|-------|------|------|-------|-------|-------|------|------|------|-------|-------|---------------|----------------|----------|
| FEDERAL 26 (continued): | | | | | | | | | | | | | | | | | | | | | |
| 090088 | 8 P | | | | P | | 70685 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 70,74 |
| | 26-16 | | | | | OIL | 92325 | | | | | 0 | 0 | 114 | 144 | 185 | 295 | 293 | 1,031 | 93,34 | |
| | | | | | | GAS | 62246 | | | | | 0 | 0 | 672 | 1890 | 2015 | 600 | 620 | 5,797 | 68,04 | |
| | | | | | | WAT | | | | | | | | 0 | 0 | 0 | 50 | 6 | | | |
| | FEDERAL 26 TOTAL | | | | | OIL | 525765 | | | | | 0 | 0 | 0 | 0 | 0 | 50 | 6 | 56 | 525,82 | |
| | | | | | | GAS | 783471 | | | | | 0 | 0 | 203 | 187 | 240 | 383 | 380 | 1,393 | 784,84 | |
| | | | | | | WAT | 299779 | | | | | 0 | 0 | 1260 | 3690 | 3875 | 2400 | 2480 | 13,705 | 313,44 | |
| SHACKELFORD | | | | | | | | | | | | | | | | | | | | | |
| 090149 | 1 D | | | | S | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4-T8S-R33E | | | | | OIL | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | GAS | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | WAT | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SHACKELFORD TOTAL | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | OIL | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | GAS | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | WAT | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| JENNIFER CHAVEROO SAN ANDRES | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | OIL | 4589386 | 1075 | 1225 | 1460 | 1724 | 1546 | 851 | 793 | 878 | 963 | 1022 | 1663 | 1283 | 14,483 | 4,603,84 |
| | | | | | | GAS | 5715909 | 3028 | 2569 | 3007 | 4038 | 3235 | 2345 | 2020 | 2395 | 1989 | 2408 | 2870 | 2582 | 32,486 | 5,748,34 |
| | | | | | | WAT | 3307239 | 8488 | 7088 | 6677 | 17776 | 16110 | 7641 | 6774 | 8329 | 9689 | 10154 | 11046 | 11167 | 120,939 | 3,428,17 |
| | | | | | | INJ | 2650731 | 11013 | 9506 | 9087 | 16920 | 16330 | 15107 | 6641 | 8713 | 9800 | 10354 | 11235 | 11167 | 135,873 | 2,786,60 |
| | | | | | | | 90 | 94 | 121 | 62 | 53 | 53 | 50 | 46 | 54 | 51 | 64 | 49 | 787 | 74 | |
| AVERAGE BBLs/WELL | | | | | | | | | | | | | | | | | | | | | |

State of New Mexico



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

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

September 29, 1989

Murphy Operating Corporation
P.O. Box 2648
Roswell, New Mexico 88202-2648

#9742

ATTN: Ann Murphy Ezzell

RE: Approval of Jennifer Chaveroo San Andres Unit
Roosevelt County, New Mexico

Gentlemen:

Please be advised that the Commissioner of Public Lands has this date granted final approval to the Jennifer Chaveroo San Andres Unit Agreement, Roosevelt County, New Mexico. It is our understanding that all tracts are committed at this time.

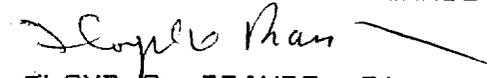
Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management. Enclosed are five (5) Certificates of Approval.

Your total filing fee in the amount of three hundred dollars (\$300.00) was received. This includes the original thirty dollar (\$30.00) check submitted to this office and the supplemental two hundred seventy dollar (\$270.00) check we received with your letter dated September 27, 1989.

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 D. PRANDO, Director
Oil and Gas Division
(505) 827-5749

WRH/FOP/SMH
enclosures
cc: OCD - Santa Fe, New Mexico
BLM - Roswell, New Mexico

State of New Mexico



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

September 29, 1989

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

Murphy Operating Corporation
P.O. Box 2648
Roswell, NM 88202-2648

ATTN: Ann Murphy Ezzell

RE: Jennifer Chaveroo San Andres Unit
Roosevelt County, New Mexico
Initial Plan of Operations

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Initial Plan of Operations. 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:

A handwritten signature in cursive script, appearing to read "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

Unit Name JENNIFER CHAVEROO SAN ANDRES UNIT (W.F.)
 Operator MURPHY OPERATING CORPORATION
 County ROOSEVELT COUNTY, NM

| DATE | OCC CASE NO. | EFFECTIVE DATE | TOTAL ACREAGE | STATE | FEDERAL | INDIAN-FEE | SEGREGATION CLAUSE | TERM |
|--------------------|---------------------------------------|-----------------|---------------|---------|---------|------------|--------------------|---------|
| APPROVED | OCC ORDER NO. | | | | | | | |
| September 29, 1989 | Case No. : 9742 Order No. : R-9006 | October 1, 1898 | 5147.00 | 3597.07 | 1549.93 | -0- | Modified | so long |

UNIT AREA

T-7-S, R-33-E

- Section 25: All
- Section 26: S/2
- Section 35: All
- Section 36: All

T-7-S, R-34-E

- Section 18: All
- Section 19: All
- Section 20: All
- Section 21: NW/4
- Section 29: N/2, SW/4, NW/4SE/4, S/2SE/4
- Section 30: All

ALL Tracts are Committed to the Unit Agreement

JENNIFER CHAVEROO SAN ANDRES UNIT
 REPORT TO DEPARTMENTS

APPROVED: 9-29-89
 EFFECTIVE: 10-1-89

BENEFICIARY

| Tract No. | Lease Name, Description of Land, and No. Acres | Serial No. & Lease Date | Lessee of Record | Basic Royalty & Percentage | Overriding Royalty | | San Andres Production W.I. Ownership | W.I. | | | | | | | | | | | |
|-----------|-----------------------------------------------------------------------------------------------|--------------------------|--------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----|---------------------------------------------------------------------------------------------------------|------------------------|------------------------------|----------------------------------|---------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| | | | | | Owner or Production Payment Interest (PPI) | Ownership | | Percent Ownership | Percent Unit Participation | | | | | | | | | | |
| 1. | Federal "26" T-7-S, R-33-E Sec. 26: SX 320.00 acres Roosevelt County, N.M. | NM-0108997-B 09/01/60 | BHP Petroleum (Americas), Inc. | United States of America 12.5 | Amoco Production Co. M. McDonald, Jr. William F. Pipes Westway Petro Southwest Royalties, Inc. | 1.00000 0.75000 0.75000 2.50000 2.50000 | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 1.309590 3.273973 5.893152 10.476715 | | | | | | | | | | |
| | | | | | | | | | | 2. | Homme Federal T-7-S, R-34-E Sec. 20: NX Sec. 21: NMX 480.00 acres Roosevelt County, N.M. | NM-0142393 06/01/61 | ENE Resources GP, Inc. | United States of America 12.5 | Murphy Operating Corporation Barbara B. Sweeney Santa Fe Andover Oil Co. | 1.50000 1.00000 2.50000 | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 0.369763 0.924408 1.653934 2.958105 |
| | | | | | | | | | | | | | | | | | | | |
| 4. | Federal "19" T-7-S, R-34-E Sec. 19: Lots 1 & 2 90.77 acres Roosevelt County, N.M. | NM-81278 04/01/89 | Murphy Operating Corporation | United States of America 12.5 | None Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 0.058478 0.146195 0.263151 0.467824 | | | | | | | | | | |
| | | | | | | | | | | 5. | State DB, State DF T-7-S, R-33-E Sec. 25: W½, SW¼SE¼, NE¼SE¼ 400.00 acres | K-1276-3 03/21/61 | Murphy Operating Corporation | State of N.M. 12.5 | None Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 1.751963 4.379908 7.883834 14.015705 |

W.I.

BENEFICIARY

| Tract No. | Lease Name, Description of Land and No. Acres | Serial No. & Lease Date | Lessee of Record | Basic Royalty & Percentage | Overriding Royalty | | San Andres Production M.I. Ownership | M.I. Ownership | | Percent Unit Participation | | |
|-----------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------|----------------------------|--------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|----------------------------------|----------------------------|----------------------------------|-----------|-------------|
| | | | | | Owner or Production Payment Interest (PPI) | Percent Ownership | | Percent Ownership | Percent Unit Participation | | | |
| 6. | State "J" | K-2671 08/21/62 | The Wiser Oil Co. | State of N.M. 12.5 | None | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder Oil Company | 12.50000 31.25000 56.25000 | 100.00000 | 0.496050 1.240127 2.232228 | 3.968405 | <i>Lniv</i> |
| | T-7-S, R-33-E | | | | | | | | | | | |
| | Sec. 25: NAKNEK, SWKNEK, SEKSEK 160.00 acres Roosevelt County, N.M. | | | | | | | | | | | |
| 7. | State Conine | VA-125-1 10/01/88 | Murphy Operating Corporation | State of N.M. 12.5 | None | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder Oil Company | 12.50000 31.25000 56.25000 | 100.00000 | 0.084971 0.212426 0.382367 | 0.679764 | <i>Lniv</i> |
| | T-7-S, R-33-E | | | | | | | | | | | |
| | Sec. 25: SEKSEK 40.00 acres Roosevelt County, N.M. | | | | | | | | | | | |
| 8. | State "I" | 06-575-5 02/11/57 | Murphy Operating Corporation | State of N.M. 12.5 | None | -- | Murphy Operating Corporation Snyder Oil Company P.A.J.W. Corporation | 12.50000 56.25000 31.25000 | 100.00000 | 0.138318 0.622432 0.345793 | 1.106543 | <i>Lniv</i> |
| | T-7-S, R-33-E | | | | | | | | | | | |
| | Sec. 25: NWKSEK 40.00 acres Roosevelt County, N.M. | | | | | | | | | | | |
| 9. | State "DE" | 06-1191-23 08/16/57 | Sun Operating Ltd. Partnership | State of N.M. 12.5 | Helen Hebbitt Clemens A. Werner Murphy Operating Corporation | 4.00000 1.00000 | Murphy Operating Corporation Snyder Oil Company P.A.J.W. Corporation | 12.50000 56.25000 31.25000 | 100.00000 | 0.265938 1.196719 0.664844 | 2.127997 | <i>Lniv</i> |
| | T-7-S, R-33-E | | | | | | | | | | | |
| | Sec. 35: SEKSWK 40.00 acres Roosevelt County, N.M. | | | | | | | | | | | |
| 10. | State "DA" | 06-1191-24 08/16/57 | Murphy Operating Corporation | State of N.M. 12.5 | Murphy Operating Corporation | 5.78125 | Murphy Operating Corporation Snyder Oil Company P.A.J.W. Corporation | 12.50000 56.25000 31.25000 | 100.00000 | 0.664844 1.196719 0.664844 | 2.526407 | <i>Lniv</i> |
| | T-7-S, R-33-E | | | | | | | | | | | |
| | Section 35: SWKMWK 40.00 acres Roosevelt County, N.M. | | | | | | | | | | | |
| 10. | Hobbs "T" | K-1369-3 04/18/61 | Murphy Operating Corporation | State of N.M. 12.5 | Murphy Operating Corporation | 2.34375 | Murphy Operating Corporation Snyder Oil Company P.A.J.W. Corporation | 12.50000 56.25000 31.25000 | 100.00000 | 1.277089 5.746902 3.192723 | 10.216714 | <i>Lniv</i> |
| | T-7-S, R-33-E | | | | | | | | | | | |
| | Sec. 35: NEKNEK, NEKMWK, WKSEK, SEKSEK 200.00 acres Roosevelt County, N.M. | | | | | | | | | | | |

| Tract No. | Lease Name, Description of Land, and No. Acres | Serial No. & Lease Date | Lessee of Record | Basic Royalty & Percentage | Overriding Royalty | | San Andres Production M.I. Ownership | M.I. Ownership | | Percent Unit Participation |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|----------------------------|--------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------|----------------------------|
| | | | | | Owner or Production Payment Interest (PPI) | Percent Ownership | | Percent Ownership | Percent Unit Participation | |
| 11. | State "CV" T-7-S, R-33-E Sec. 35: NW1/4NE1/4, NE1/4SW1/4, NE1/4SE1/4 120.00 acres | K-4058-3 04/21/64 | Sun Operating Ltd. Partnership | State of N.M. 12.5 | Murphy Operating Corporation | 2.34375 | Murphy Operating Corporation Snyder 011 Company P.A.J.W. Corporation | 12.50000 56.25000 31.25000 100.00000 | 0.995136 4.478113 2.487841 7.961090 | <i>Whiv</i> |
| 12. | Shackelford T-7-S, R-33-E Sec. 35: NW1/4NW1/4 40.00 acres Roosevelt County, N.M. | V-2821-1 01/01/89 | Murphy Operating Corporation | State of N.M. 16.3334 | None | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 0.195949 0.489874 0.881773 1.567596 | <i>Whiv</i> |
| 13. | State "35" & "36" T-7-S, R-33-E Sec. 35: W1/2SW1/4, SE1/4NW1/4, S1/2NE1/4 Sec. 36: NE1/4, NE1/4SE1/4, S1/2SE1/4 480.00 acres Roosevelt County, N.M. | OG-929-1 06/18/57 <i>Whiv</i> } C.S. | Murphy Operating Corporation | State of N.M. 12.5 | None | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 1.015953 2.539883 4.571789 8.127625 | <i>Whiv</i> |
| 14. | State "K" T-7-S, R-33-E Sec. 36: W1/4, NW1/4SE1/4 360.00 acres Roosevelt County, N.M. | K-2672 08/21/62 | The Wiser Oil Co. | State of N.M. 12.5 | None | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 1.231573 3.078933 5.542079 9.852585 | <i>C.S.</i> |
| 15. | State "G" T-7-S, R-34-E Sec. 19: Lots 3 & 4, SE1/4 251.59 acres Roosevelt County, N.M. | OG-1193-1 08/20/57 | Murphy Operating Corporation | State of N.M. 12.5 | None | -- | Murphy Operating Corporation Snyder 011 Company P.A.J.W. Corporation | 12.50000 56.25000 31.25000 100.00000 | 0.597946 2.690757 1.494865 4.783568 | <i>C.S.</i> |
| 16. | State "20" T-7-S, R-34-E Sec. 20: S1/4 320.0 acres Roosevelt County, N.M. | VA-141-1 11/01/88 | Murphy Operating Corporation | State of N.M. 12.5 | None | -- | Murphy Operating Corporation American Energy Capital Corp. Snyder 011 Company | 12.50000 31.25000 56.25000 100.00000 | 0.514392 1.285982 2.314767 4.115141 | <i>C.S.</i> |

BENEFICIARY

| Tract No. | Lease Name, Description of Land, and No. Acres | Serial No. & Lease Date | Lessee of Record | Basic Royalty & Percentage | Overriding Royalty Owner or Production Payment Interest (PPI) | Percent Ownership | San Andres Production M.I. Ownership | M.I. | |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|----------------------------|---------------------------------------------------------------|--------------------|-----------------------------------------------------|-----------------------------------|----------------------------------|
| | | | | | | | | Percent Ownership | Percent Unit Participation |
| 17. | State "20" | VA-142-1 | Murphy Operating Corporation | State of N.M. 12.5 | None | -- | Murphy Operating Corporation | 12.50000 | 0.019429 |
| | T-7-S, R-34-E Sec. 29: NE $\frac{1}{4}$ 160.00 acres Roosevelt County, N.M. | 11/01/88 | Corporation | | | | American Energy Capital Corp. Snyder Oil Company | 31.25000 56.25000 100.00000 | 0.048572 0.087429 0.155430 |
| 18. | Hobbs "W" | K-1370-3 | Murphy Operating Corporation | State of N.M. 12.5 | Murphy Operating Corporation | 2.34375 | Murphy Operating Corporation | 12.50000 | 1.233654 |
| | T-7-S, R-34-E Section 29: W $\frac{1}{2}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{2}$ SE $\frac{1}{4}$ Section 30: NE $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$ 680.00 acres Roosevelt County, N.M. | 04/18/61 | Corporation | | Corporation | | Snyder Oil Company P.A.J.W. Corporation | 56.25000 31.25000 100.00000 | 5.551441 3.084134 9.869229 |
| 19. | State "V" | OG-4897-3 | TOC Gulf Coast, Inc. | State of N.M. 12.5 | Southwest Royalties Inc. | 3.75000 | Murphy Operating Corporation | 12.50000 | 0.412514 |
| | T-7-S, R-34-E Sec. 30: Lots 1-4, E $\frac{1}{2}$ SE $\frac{1}{4}$ 265.48 acres Roosevelt County, N.M. | 12/16/58 | | | Ralph Dreyer, Trustee Cherilyn Priddy Loving | 2.50000 1.25000 | American Energy Capital Corp. Snyder Oil Company | 31.25000 56.25000 100.00000 | 1.031285 1.856312 3.300111 |

STATE ACREAGE: 3,597.07 = 69.89% OF UNIT AREA
 FEDERAL ACREAGE: 1,549.93 = 30.11% OF UNIT AREA
 TOTAL ACREAGE: 5,147.00 100.00%

State of New Mexico



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

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

August 31, 1989

Murphy Operating Corporation
P.O. Box 2648
Roswell, New Mexico 88202-2648

ATTN: Ann Ezzell

RE: Proposed Jennifer Chaveroo San Andres Unit
Roosevelt County, New Mexico

Gentlemen:

This office has reviewed the unexecuted copy of the unit agreement submitted for the proposed Jennifer Chaveroo San Andres Unit Area, Roosevelt County, New Mexico. This agreement meets the general requirements of the Commissioner of Public Lands who has this date granted you preliminary approval as to form and content.

Preliminary approval shall not be construed to mean final approval of this agreement in any way and will not extend any short term leases until final approval and an effective date have been given.

When submitting your agreement for final approval, please include the following items:

1. Application for final approval by the Commissioner setting forth the tracts that have been committed and those that are not committed.
2. All ratifications from the Lessees of Record and Working Interest Owners. All signatures should be acknowledged by a notary and one set must contain original signatures.
3. Order of the New Mexico Oil Conservation Division. Our approval will be contingent upon subsequent favorable approval by the New Mexico Oil Conservation Division.

4. The filing fee. The filing fee for a Unit Agreement is thirty dollars (\$30.00) for every section or partial section thereof. Ten (10) sections or partial sections are included in the Unit Area. You have submitted \$30.00 of the required three hundred dollars (\$300.00). Please submit the remaining two hundred seventy dollars (\$270.00).
5. Please send an original and one copy of the final Unit Agreement and Unit Operating Agreement for our files.

We received a copy of the letter sent to you by the Bureau of Land Management designating the Unit Area as a logical Unit. Please be advised that our final approval will be subject to like approval by the Bureau of Land Management.

If we may be of further help, please do not hesitate to call Susan Howarth at (505) 827-5791.

Very truly yours,

W.R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

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

cc: OCD - Santa Fe, NM
BLM - Roswell, NM
Unit Files



FOR YOUR INFORMATION
United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Roswell District Office
P.O. Box 1397
Roswell, New Mexico 88202-1397



IN REPLY
REFER TO:

Jennifer Chaveroo Unit
3180 (065)

RECEIVED

AUG 24 1989

OIL CONSERVATION DIV.
SANTA FE

Case No.
9742

Murphy Operating Corporation
P. O. Box 2648
Roswell, New Mexico 88202-2648

AUG 21 1989

M. S.

Gentlemen:

Your application of July 18, 1989, filed with the BLM requests the designation of the Proposed Jennifer Chaveroo unit area, embracing 5,147.00 acres, more or less, in Roosevelt County, New Mexico, as logically subject to exploration and development under the unitization provisions of the Mineral Leasing Act as amended for waterflood operations.

Pursuant to unit plan regulations 43 CFR 3180, the land requested as outlined on your plat marked "Murphy Operating Corporation, Proposed Jennifer Chaveroo Unit, Roosevelt, County, New Mexico", is hereby designated as a logical unit area for the San Andres Formation, 4,116 - 4,424 feet as measured on the Compensated Formation Density Log Run in the Murphy Operating Corporation Hobbs "W" Well No. 2.

Your proposed use of the Form of Agreement for Secondary/Enhanced Recovery Areas as submitted for preliminary review will be accepted with the modifications requested in your application.

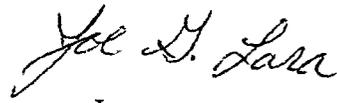
If conditions are such that further modification of said form is deemed necessary, three copies of the proposed modifications with appropriate justification must be submitted to this office for preliminary approval.

In the absence of any other type of land requiring special provisions or any objections not now apparent, a duly executed agreement identical with said form, modified as outlined above, will be approved if submitted in approvable status within a reasonable period of time. However, notice is hereby given that the right is reserved to deny approval of any executed agreements submitted which, in our opinion, does not have the full commitment of sufficient lands to afford effective control of operations in the unit area.

When the executed agreement is transmitted to the BLM for approval, include the latest status of all acreage. In preparation of Exhibits "A" and "B", follow closely the format of the exhibits attached to the aforementioned form.

Inasmuch as this unit agreement involves State land, we are sending a copy of this letter to the Commissioner of Public Lands.

Sincerely,

A handwritten signature in cursive script that reads "Joe G. Lara".

Joe G. Lara
Assistant District Manager,
Minerals



MURPHY OPERATING CORPORATION
UNITED BANK PLAZA, SUITE 300
400 NORTH PENNSYLVANIA AVENUE
POST OFFICE BOX 2648
ROSWELL, NEW MEXICO 88202-2648

TELEPHONE
505 623-7210

RECEIVED

OCT - 2 1989

OIL CONSERVATION DIV.
SANTA FE

August 29, 1989

Mr. Michael E. Stogner, Examiner
Oil Conservation Division
Energy and Minerals Department
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87504-2088

9742

Re: RATIFICATIONS OF UNIT DOCUMENTS:
Jennifer Chaveroo San Andres Unit
Roosevelt County, New Mexico.

Dear Mr. Stogner:

I have enclosed herewith to complete your files the following documents:

1. Schedule "A" contains a complete list of the working interest owners in the Jennifer Chaveroo San Andres Unit and copies of counterpart signature pages to the Unit Agreement;
2. Schedule "B" contains a complete list of the working interest owners in the Jennifer Chaveroo San Andres Unit and copies of counterpart signature pages to the Unit Operating Agreement;
3. Schedule "C" contains a complete list of the overriding royalty interest owners in the Jennifer Chaveroo San Andres Unit and copies of Ratifications of the Unit Agreement; and
4. Schedule "D" contains a complete list of the record title owners for leases within the Jennifer Chaveroo San Andres Unit and copies of Ratifications of the Unit Agreement.

Please do not hesitate to contact me if I may be of further assistance to you in this matter.

Sincerely,

MURPHY OPERATING CORPORATION

Nadine R. Reed

Nadine R. Reed
Assistant to the Chairman & C.E.O.

:nrr



MURPHY OPERATING CORPORATION
UNITED BANK PLAZA, SUITE 300
400 NORTH PENNSYLVANIA AVENUE
POST OFFICE BOX 2648
ROSWELL, NEW MEXICO 88202-2648

TELEPHONE
505 623-7210

JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

SCHEDULE A
Signature Pages to Unit Agreement
Working Interest Owners

X = Signature pages attached.

| <u>STATUS</u> | <u>WI OWNER</u> | <u>PERCENT UNIT PARTICIPATION</u> |
|---------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| X | American Energy Capital Corporation 1201 Louisiana, Suite 3320 Houston, Texas 77002 | 19.97980 |
| X | P.A.J.W. Corporation Suite 953, Watergate 600 600 New Hampshire, N.W. Washington, District of Columbia 20037 | 11.27020 |
| X | Murphy Operating Corporation Post Office Box 2648 Roswell, New Mexico 88202-2648 | 12.50000 |
| X | Snyder Oil Company 801 Cherry Street, Suite 2500 Fort Worth, Texas 76102 | 56.25000 |
| | TOTAL PERCENT COMMITTED | <u>100.00000</u> |

SECTION 37. PERSONAL PROPERTY EXCEPTED. Each Working Interest Owner has heretofore placed and used on its Tract or Tracts committed to this Agreement various well and lease equipment and other property, equipment or facilities. It is also recognized that additional equipment and facilities may hereafter be placed and used upon the Unitized Land as now or hereafter constituted. Therefore, for all purposes of this Agreement, any such equipment shall be considered to be personal property and not fixtures attached to realty. Accordingly, said well and lease equipment and personal property is hereby severed from the mineral estates affected by this Agreement, and the rights and interests therein as among Working Interest Owners are covered by the Unit Operating Agreement.

EXECUTED and effective for all purposes this 1st day of August, 1989.

"UNIT OPERATOR" AND "WORKING INTEREST OWNER"

ATTEST:

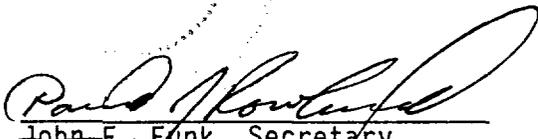

Nadine Reed, Secretary

MURPHY OPERATING CORPORATION
Post Office Box 2648
Roswell, New Mexico 88202-2648


Ann Murphy Ezzell, Chairman and
Chief Executive Officer

"NON-OPERATORS"

ATTEST:


~~John E. Funk, Secretary~~
DAVID ROWLAND

AMERICAN ENERGY CAPITAL CORPORATION
~~1111 Fannin, Suite 1470~~ 1201 LOUISIANA, SUITE 3320
Houston, Texas 77002


Marcus C. Rowland, ~~C.E.O.~~ PRESIDENT

ATTEST:

, Secretary

SNYDER OIL COMPANY
801 Cherry Street
Fort Worth, Texas 76102

Rodney L. Waller, Senior Vice President

ATTEST:

John H. Slayton, Vice President/
Secretary

P.A.J.W. CORPORATION
Suite 953, Watergate 600
600 New Hampshire Avenue, N.W.
Washington, District of Columbia 20037

Marc E. Leland, President

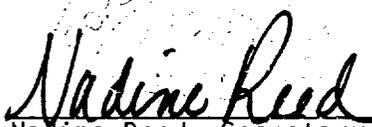
SECTION 37. PERSONAL PROPERTY EXCEPTED. Each Working Interest Owner has heretofore placed and used on its Tract or Tracts committed to this Agreement various well and lease equipment and other property, equipment or facilities. It is also recognized that additional equipment and facilities may hereafter be placed and used upon the Unitized Land as now or hereafter constituted. Therefore, for all purposes of this Agreement, any such equipment shall be considered to be personal property and not fixtures attached to realty. Accordingly, said well and lease equipment and personal property is hereby severed from the mineral estates affected by this Agreement, and the rights and interests therein as among Working Interest Owners are covered by the Unit Operating Agreement.

EXECUTED and effective for all purposes this 1st day of August, 1989.

"UNIT OPERATOR" AND "WORKING INTEREST OWNER"

MURPHY OPERATING CORPORATION
Post Office Box 2648
Roswell, New Mexico 88202-2648

ATTEST:


Nadine Reed, Secretary


Ann Murphy Ezzell, Chairman and
Chief Executive Officer

"NON-OPERATORS"

AMERICAN ENERGY CAPITAL CORPORATION
1111 Fannin, Suite 1470
Houston, Texas 77002

ATTEST:

John E. Funk, Secretary

Marcus C. Rowland, C.E.O.

SNYDER OIL COMPANY
801 Cherry Street, Suite 2500
Fort Worth, Texas 76102

ATTEST:


Linda Gosdin, Secretary


Rodney L. Waller, Senior Vice President

P.A.J.W. CORPORATION
Suite 953, Watergate 600
600 New Hampshire Avenue, N.W.
Washington, District of Columbia 20037

ATTEST:

John H. Slayton, Vice President/
Secretary

Marc E. Leland, President

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 8th day of August, 1989, by Ann Murphy Ezzell, Chairman and Chief Executive Officer of MURPHY OPERATING CORPORATION, a New Mexico corporation, on behalf of said corporation.

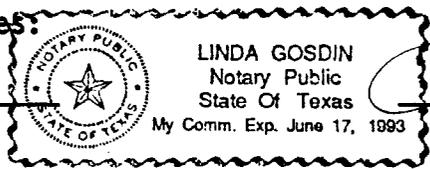
My commission expires:

_____, Notary Public

STATE OF TEXAS)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this 15th day of August, 1989, by Marcus C. Rowland, C.E.O. of AMERICAN ENERGY CAPITAL CORPORATION, a Texas corporation, on behalf of said corporation.

My commission expires:



Linda Gosdin
Linda Gosdin, Notary Public

STATE OF TEXAS)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by RODNEY L. WALLER, Senior Vice President of SNYDER OIL COMPANY, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

DISTRICT OF COLUMBIA)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by MARC E. LELAND, President of P.A.J.W. CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires:

December 14, 1989

Joanne Burke, Notary Public

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 8th day of August, 1989, by Ann Murphy Ezzell, Chairman and Chief Executive Officer of MURPHY OPERATING CORPORATION, a New Mexico corporation, on behalf of said corporation.

My commission expires:

May 6, 1991

Debi Rodgers
Debi Rodgers, Notary Public

STATE OF TEXAS)
COUNTY OF HARRIS)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by Marcus C. Rowland, C.E.O. of AMERICAN ENERGY CAPITAL CORPORATION, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

STATE OF TEXAS)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this 15th day of August, 1989, by RODNEY L. WALLER, Senior Vice President of SNYDER OIL COMPANY, a Texas corporation, on behalf of said corporation.

My commission expires:

10-24-91

Donna H. Macfarlane
Donna H. Macfarlane, Notary Public

DISTRICT OF COLUMBIA)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by MARC E. LELAND, President of P.A.J.W. CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires:

December 14, 1989

Joanne Burke, Notary Public

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 8th day of August, 1989, by Ann Murphy Ezzell, Chairman and Chief Executive Officer of MURPHY OPERATING CORPORATION, a New Mexico corporation, on behalf of said corporation.

My commission expires:

May 6, 1991

Debi Rodgers
Debi Rodgers, Notary Public

STATE OF TEXAS)
COUNTY OF HARRIS)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by Marcus C. Rowland, C.E.O. of AMERICAN ENERGY CAPITAL CORPORATION, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

STATE OF TEXAS)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by RODNEY L. WALLER, Senior Vice President of SNYDER OIL COMPANY, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

DISTRICT OF COLUMBIA)

The foregoing instrument was acknowledged before me this 15th day of August, 1989, by MARC E. LELAND, President of P.A.J.W. CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires:

December 14, 1989

Jeanne Burke
Jeanne Burke, Notary Public



MURPHY OPERATING CORPORATION
UNITED BANK PLAZA, SUITE 300
400 NORTH PENNSYLVANIA AVENUE
POST OFFICE BOX 2648
ROSWELL, NEW MEXICO 88202-2648

TELEPHONE
505 623-7210

JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

SCHEDULE B
Signature Pages to Unit Operating Agreement
Working Interest Owners

X = Signature pages attached.

| <u>STATUS</u> | <u>WI OWNER</u> | <u>PERCENT UNIT PARTICIPATION</u> |
|---------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| X | American Energy Capital Corporation 1201 Louisiana, Suite 3320 Houston, Texas 77002 | 19.97980 |
| X | P.A.J.W. Corporation Suite 953, Watergate 600 600 New Hampshire, N.W. Washington, District of Columbia 20037 | 11.27020 |
| X | Murphy Operating Corporation Post Office Box 2648 Roswell, New Mexico 88202-2648 | 12.50000 |
| X | Snyder Oil Company 801 Cherry Street, Suite 2500 Fort Worth, Texas 76102 | <u>56.25000</u> |
| | TOTAL PERCENT COMMITTED | <u>100.00000</u> |

ARTICLE 23
SUCCESSORS AND ASSIGNS

23.1 Successors and Assigns. This Agreement shall extend to, be binding upon, and inure to the benefit of the parties hereto and their respective heirs, devisees, legal representatives, successors and assigns, and shall constitute a covenant running with the lands, leases and interests covered hereby.

EXECUTED and effective for all purposes this 1st day of August, 1989.

"UNIT OPERATOR" AND "WORKING INTEREST OWNER"

ATTEST:


Nadine Reed
Nadine Reed, Secretary

MURPHY OPERATING CORPORATION
Post Office Box 2648
Roswell, New Mexico 88202-2648

By: Ann Murphy Ezzell
Ann Murphy Ezzell, Chairman and
Chief Executive Officer

"NON-OPERATORS"

ATTEST:


John E. Furk
John E. Furk, Secretary
DAVID ROWLAND

AMERICAN ENERGY CAPITAL CORPORATION
~~1111 Fannin, Suite 1470~~ 1201 Louisiana, Ste 3320
Houston, Texas 77002

Marcus C. Rowland
Marcus C. Rowland, ~~C.E.O.~~ PRESIDENT

ATTEST:

SNYDER OIL COMPANY
801 Cherry Street
Fort Worth, Texas 76102

, Secretary

Rodney L. Waller, Senior Vice President

ATTEST:

P.A.J.W. CORPORATION
Suite 953, Watergate 600
600 New Hampshire Avenue, N.W.
Washington, District of Columbia 20037

John H. Slayton, Vice President/
Secretary

Marc E. Leland, President

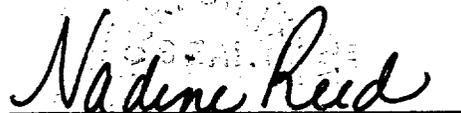
ARTICLE 23
SUCCESSORS AND ASSIGNS

23.1 Successors and Assigns. This Agreement shall extend to, be binding upon, and inure to the benefit of the parties hereto and their respective heirs, devisees, legal representatives, successors and assigns, and shall constitute a covenant running with the lands, leases and interests covered hereby.

EXECUTED and effective for all purposes this 1st day of August, 1989.

"UNIT OPERATOR" AND "WORKING INTEREST OWNER"

ATTEST:


Nadine Reed, Secretary

MURPHY OPERATING CORPORATION
Post Office Box 2648
Roswell, New Mexico 88202-2648

By: 
Ann Murphy Ezzell, Chairman and
Chief Executive Officer

"NON-OPERATORS"

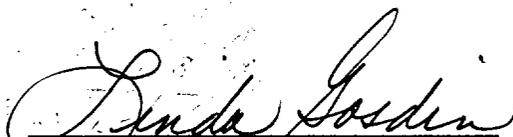
ATTEST:

John E. Funk, Secretary

AMERICAN ENERGY CAPITAL CORPORATION
1111 Fannin, Suite 1470
Houston, Texas 77002

Marcus C. Rowland, C.E.O.

ATTEST:


Linda Gosdin, Secretary

SNYDER OIL COMPANY
801 Cherry Street, Suite 2500
Fort Worth, Texas 76102


Rodney L. Waller, Senior Vice President

ATTEST:

John H. Slayton, Vice President/
Secretary

P.A.J.W. CORPORATION
Suite 953, Watergate 600
600 New Hampshire Avenue, N.W.
Washington, District of Columbia 20037

Marc E. Leland, President

ARTICLE 23
SUCCESSORS AND ASSIGNS

23.1 Successors and Assigns. This Agreement shall extend to, be binding upon, and inure to the benefit of the parties hereto and their respective heirs, devisees, legal representatives, successors and assigns, and shall constitute a covenant running with the lands, leases and interests covered hereby.

EXECUTED and effective for all purposes this 1st day of August, 1989.

"UNIT OPERATOR" AND "WORKING INTEREST OWNER"

MURPHY OPERATING CORPORATION
Post Office Box 2648
Roswell, New Mexico 88202-2648

ATTEST:



Nadine Reed, Secretary

By: 

Ann Murphy Ezzell, Chairman and
Chief Executive Officer

"NON-OPERATORS"

AMERICAN ENERGY CAPITAL CORPORATION
1111 Fannin, Suite 1470
Houston, Texas 77002

ATTEST:

John E. Funk, Secretary

Marcus C. Rowland, C.E.O.

SNYDER OIL COMPANY
801 Cherry Street
Fort Worth, Texas 76102

ATTEST:

, Secretary

Rodney L. Waller, Senior Vice President

P.A.J.W. CORPORATION
Suite 953, Watergate 600
600 New Hampshire Avenue, N.W.
Washington, District of Columbia 20037

ATTEST:



John H. Slayton, Vice President/
Secretary



Marc E. Leland, President

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 1st day of August, 1989, by Ann Murphy Ezzell, Chairman and Chief Executive Officer of MURPHY OPERATING CORPORATION, a New Mexico corporation, on behalf of said corporation.

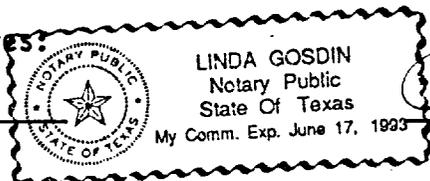
My commission expires:

_____, Notary Public

STATE OF TEXAS)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this 15th day of August, 1989, by Marcus C. Rowland, C.E.O. of AMERICAN ENERGY CAPITAL CORPORATION, a Texas corporation, on behalf of said corporation.

My commission expires:



Linda Gosdin

Linda Gosdin, Notary Public

STATE OF TEXAS)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by RODNEY L. WALLER, Senior Vice President of SNYDER OIL COMPANY, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

DISTRICT OF COLUMBIA)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by MARC E. LELAND, President of P.A.J.W. CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires:

December 14, 1989

Joanne Burke, Notary Public

STATE OF NEW MEXICO)
)
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 1st day of August, 1989, by Ann Murphy Ezzell, Chairman and Chief Executive Officer of MURPHY OPERATING CORPORATION, a New Mexico corporation, on behalf of said corporation.

My commission expires:
May 6, 1991

Debi Rodgers
Debi Rodgers, Notary Public

STATE OF TEXAS)
)
COUNTY OF HARRIS)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by Marcus C. Rowland, C.E.O. of AMERICAN ENERGY CAPITAL CORPORATION, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

STATE OF TEXAS)
)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this 15th day of August, 1989, by RODNEY L. WALLER, Senior Vice President of SNYDER OIL COMPANY, a Texas corporation, on behalf of said corporation.

My commission expires:
10-24-91

Donna H. Macfarlane
Donna H. Macfarlane, Notary Public

DISTRICT OF COLUMBIA)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by MARC E. LELAND, President of P.A.J.W. CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires:
December 14, 1989

Joanne Burke, Notary Public

STATE OF NEW MEXICO)
)
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 1st day of August, 1989, by Ann Murphy Ezzell, Chairman and Chief Executive Officer of MURPHY OPERATING CORPORATION, a New Mexico corporation, on behalf of said corporation.

My commission expires:
May 6, 1991

Debi Rodgers
Debi Rodgers, Notary Public

STATE OF TEXAS)
)
COUNTY OF HARRIS)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by Marcus C. Rowland, C.E.O. of AMERICAN ENERGY CAPITAL CORPORATION, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

STATE OF TEXAS)
)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this _____ day of August, 1989, by RODNEY L. WALLER, Senior Vice President of SNYDER OIL COMPANY, a Texas corporation, on behalf of said corporation.

My commission expires:

_____, Notary Public

DISTRICT OF COLUMBIA)

The foregoing instrument was acknowledged before me this 15th day of August, 1989, by MARC E. LELAND, President of P.A.J.W. CORPORATION, a Delaware corporation, on behalf of said corporation.

My commission expires:
December 14, 1989

Joanne E Burke
Joanne Burke, Notary Public



MURPHY OPERATING CORPORATION
UNITED BANK PLAZA, SUITE 300
400 NORTH PENNSYLVANIA AVENUE
POST OFFICE BOX 2648
ROSWELL, NEW MEXICO 88202-2648

TELEPHONE
505 623-7210

JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

SCHEDULE C
Ratification of Unit Agreement
Overriding Royalty Interest Owners

X = Ratification attached.

| STATUS | ORRI OWNER | COMMENTS |
|--------|--------------------------------------------------------------------------------------------------------------------|----------|
| X | Amoco Production Company Post Office Box 3092 Houston, Texas 77253 | |
| X | M. McDonnold, Jr. 505 North Big Spring, Suite 204 Midland, Texas 79701 | |
| X | William F. Pipes 7611 Woodhaven San Antonio, Texas 78204 | |
| X | Westway Petro Lock Box 70 500 North Akard Street Dallas, Texas 75201-3320 | |
| X | Southwest Royalties, Inc. 407 North Big Spring, Suite 300 Post Office Box 11390 Midland, Texas 79701 | |
| X | Murphy Operating Corporation Post Office Box 2648 Roswell, New Mexico 88202-2648 | |
| X | Barbara B. Sweeney Post Office Box 8248 Santa Fe, New Mexico 87504-8248 | |
| X | Santa Fe Andover Oil Co. c/o Santa Fe Minerals, Inc. 13455 Noel Road, Suite 1100 Dallas, Texas 75240-6620 | |
| X | Mark Daniel Wolf 1675 Broadway, Suite 1600 Denver, Colorado 80202 | |
| X | Ralph Dreyer, Esq., Trustee 40 West Twohig, Suite 402 San Angelo, Texas 76903 | |
| X | Helen B. Hebbeln 4470 - 270th Street Stockton, Iowa 52769 | |
| X | Clemens A. Werner 410 Union Arcade Avenue Davenport, Iowa 52801 | |
| X | Cherilyn Priddy Loving 1607 Hillcrest Drive Graham, Texas 76046 | |

(Overriding Royalty Interest/Corporate)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

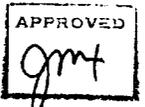
IN WITNESS WHEREOF, the undersigned party has executed this instrument this 1st day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

ATTEST:

Entity: Amoco Production Company

_____, Secretary

By: V.P. Whitfield
(Signature)
V.P. Whitfield / Attorney in Fact
(Printed Name/Title)



STATE OF Texas)
COUNTY OF Harris) ss

The foregoing instrument was acknowledged before me this 1st day of August, 1989, by V.P. Whitfield, Attorney in Fact (Title) of Amoco Production Company, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
2-4-90

Jane Ann Perry
Notary Public

(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and ...

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 31st day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

Brenda K. Cunningham
, Witness

Brenda K. Cunningham
, Witness

By: M. McDonnold, Jr.
(Signature) M. McDonnold, Jr.

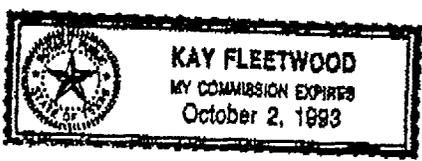
Shirley J. McDonnold
Shirley J. McDonnold

STATE OF TEXAS)
COUNTY OF MIDLAND) SS

The foregoing instrument was acknowledged before me this 31st day of August, 1989, by M. McDonnold, Jr. and Shirley J. McDonnold, his wife.

My Commission Expires:
10-2-93

Kay Fleetwood
Kay Fleetwood, Notary Public



(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 15th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

Lucile M. Pipes
Witness

By: William F. Pipes
(Signature)
William F. Pipes
(Printed Name)

STATE OF Texas)
COUNTY OF Bexar) ss

The foregoing instrument was acknowledged before me this 15th day of August, 1989, by Betty Fields for William F. Pipes.

My Commission Expires:
10-22-91

Betty Fields
, Notary Public

(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 15 day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

WESTWAY PETRO, a Texas Joint Venture

By: WE Read
(Signature)
W.E. Read, Managing Venturer
(Printed Name)

James H. Luffly
Witness

STATE OF Texas)
COUNTY OF Dallas) ss

The foregoing instrument was acknowledged before me this 15 day of August, 1989, by W.E. Read, Managing Venturer on behalf of Westway Petro, a Texas Joint Venture.

My Commission Expires:
3/1/090

C. Benavides
Notary Public

(Overriding Royalty Interest/Corporate)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement: and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

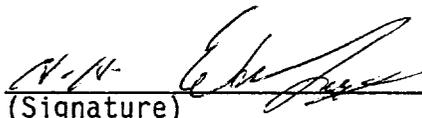
NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 11 day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

Entity: SOUTHWEST ROYALTIES, INC.

ATTEST:


Jon P. Tate, Secretary

By: 

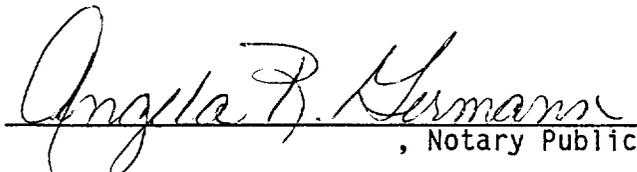
(Signature)
H.H. Wommack, III, President

(Printed Name/Title)

STATE OF Texas)
COUNTY OF Midland) ss

The foregoing instrument was acknowledged before me this 11 day of August, 1989, by H.H. Wommack, III, President (Title) of Southwest Royalties, Inc., a Delaware corporation, on behalf of said corporation.

My Commission Expires:
March 29, 1992



, Notary Public



(Overriding Royalty Interest/Corporate)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

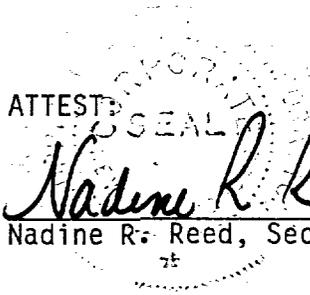
WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 14th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

ATTEST:


Nadine R. Reed
Nadine R. Reed, Secretary

MURPHY OPERATING CORPORATION

By: Ann Murphy Ezzell
Ann Murphy Ezzell, Chairman & C.E.O.

STATE OF NEW MEXICO)
) ss
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 14th day of August, 1989, by Ann Murphy Ezzell, Chairman & C.E.O. (Title) of Murphy Operating Corporation, a New Mexico corporation, on behalf of said corporation.

My Commission Expires:

August 24, 1990

Clara Talbert
Clara Talbert, Notary Public

(Overriding Royalty Interest/Corporate)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

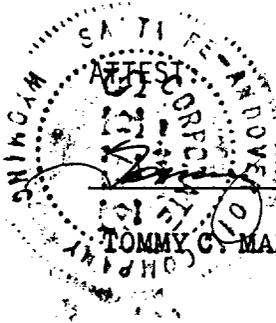
WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 18th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

Entity: SANTA FE-ANDOVER OIL COMPANY

 Tommy C. Mann
TOMMY C. MANN, ASSISTANT SECRETARY

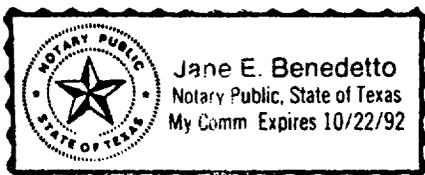
By: J. C. Welch
(Signature)
J. C. WELCH, Vice President-Land
(Printed Name/Title)

STATE OF TEXAS)
COUNTY OF DALLAS) ss

The foregoing instrument was acknowledged before me this 18th day of August, 1989, by J. C. WELCH, VICE PRESIDENT - LAND (Title) of Santa Fe-Andover Oil Company a Wyoming corporation, on behalf of said corporation.

My Commission Expires:

Jane E. Benedetto
, Notary Public



(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 14th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

_____, Witness

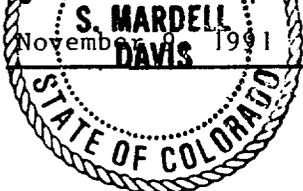
By: *Daniel Wolf*
(Signature)

Daniel Wolf
(Printed Name)

STATE OF COLORADO }
COUNTY OF DENVER } SS

The foregoing instrument was acknowledged before me this 14th day of August, 1989, by Daniel Wolf.

My Commission Expires:



S. Marcell Davis
, Notary Public

S Marcell Davis
Notary Public - State of Colorado
Bank Western Tower
1875 Broadway Suite 1600
Denver, Colorado 80202-4613

(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 11th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

[Signature]
, Witness

By: [Signature]
(Signature)
Ralph Dreyer, Atty
(Printed Name)

STATE OF Texas)
COUNTY OF Tom Green) ss

The foregoing instrument was acknowledged before me this 11th day of August, 1989, by Ralph Dreyer, Trustee.

My Commission Expires:
7-22-90

[Signature]
, Notary Public

VALORIE J. HARPER, Notary Public
STATE OF TEXAS
My Commission Expires 7-22-90

(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 14 day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

_____, Witness

By: Helen Hebbeln
(Signature)

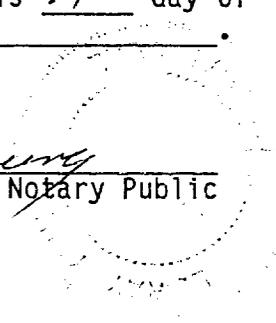
HELEN HEBBELN
(Printed Name)

STATE OF Iowa)
COUNTY OF Scott) ss

The foregoing instrument was acknowledged before me this 14 day of August, 1989, by HELEN HEBBELN.

My Commission Expires:
8-22-90

P. Ray Young
, Notary Public



(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 11th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

Scarlet M. White
Scarlet M. White, Witness

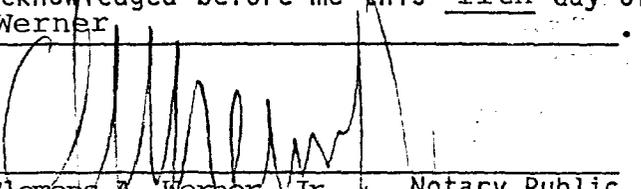
By: 
(Signature)

Clemens A. Werner
(Printed Name)

STATE OF IOWA)
COUNTY OF SCOTT) ss

The foregoing instrument was acknowledged before me this 11th day of August, 1989, by Clemens A. Werner.

My Commission Expires:
8/9/90


Clemens A. Werner, Jr., Notary Public

(Overriding Royalty Interest/Individual)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of an overriding royalty interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," which said agreement is hereinafter referred to as the Unit Agreement; and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which may become a part of the Jennifer Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of the undersigned represents that it is an Overriding Royalty Interest Owner, as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, each undersigned Overriding Royalty Interest Owner, being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, each of the undersigned who is the owner of an overriding royalty interest or interests only does hereby ratify and confirm said Unit Agreement, each owner with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument this 13th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

Clayton Young

, Witness

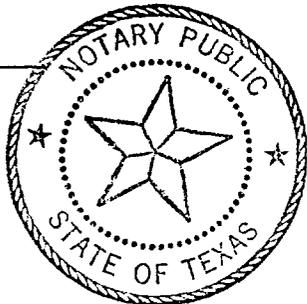
By: Cherilyn P. Loving
(Signature)
Cherilyn P. Loving
(Printed Name)

STATE OF Texas }
COUNTY OF Young } ss

The foregoing instrument was acknowledged before me this 13th day of Aug, 1989, by Cherilyn P. Loving.

My Commission Expires:

12-89



Kaye Turner

, Notary Public



MURPHY OPERATING CORPORATION
UNITED BANK PLAZA, SUITE 300
400 NORTH PENNSYLVANIA AVENUE
POST OFFICE BOX 2648
ROSWELL, NEW MEXICO 88202-2648

TELEPHONE
505 623-7210

JENNIFER CHAVEROO SAN ANDRES UNIT
ROOSEVELT COUNTY, NEW MEXICO

SCHEDULE D
Ratification of Unit Agreement
Lessees of Record

X = Ratification attached.

| STATUS | LESSEE OF RECORD | COMMENTS |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
| X | BHP Petroleum (Americas), Inc. 6 Desta Drive, Suite 300 Midland, Texas 79705-5510 | |
| X | Energy Reserves Group, Inc. c/o BHP Petroleum (Americas), Inc. 6 Desta Drive, Suite 300 Midland, Texas 797905-5510 | |
| X | The Wiser Oil Company Post Office Box 192 210 Charles Street Sisterville, West Virginia 26175 | |
| X | Sun Operating Limited Partnership c/o Oryx Energy Company, Managing General Partner Post Office Box 2880 Dallas, Texas 75221-2880 | |
| X | TOC Gulf Coast, Inc. 6 Desta Drive, Suite 4400 Post Office Box 2990 Midland, Texas 79705 | |
| X | Murphy Operating Corporation Post Office Box 2648 Roswell, New Mexico 88202-2648 | |

(Record Title)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
COUNTY OF ROOSEVELT, STATE OF NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the undersigned owner of a record title interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," (hereinafter the "Unit Agreement"); and and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which became a part of the Jennifer Chaveroo San Andres Unit as initially approved; and

WHEREAS, the undersigned represents that it is a "Lessee of Record" as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, the undersigned "Lessee of Record", being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, the undersigned who is the owner of a record title interest or interests only does hereby ratify and confirm said Unit Agreement with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument on the 27th day of July, 1989, but made effective for all purposes on the 1st day of August, 1989.

ATTEST:

BHP PETROLEUM (AMERICAS), INC.

_____, Secretary

By: Robert G. Elliott
(Signature)

Robert G. Elliott/Attorney-in-Fact
(Printed Name/Title)

STATE OF TEXAS)
) ss
COUNTY OF MIDLAND)

The foregoing instrument was acknowledged before me this 27th day of July, 1989, by Robert G. Elliott, Attorney-in-Fact (Title) of BHP PETROLEUM (AMERICAS), INC., a Delaware corporation, on behalf of said corporation.

My Commission Expires:

12-16-92

Gail Caudle
Gail Caudle, Notary Public

(Record Title)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
COUNTY OF ROOSEVELT, STATE OF NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the undesigned owner of a record title interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," (hereinafter the "Unit Agreement"); and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which become a part of the Jennifer Chaveroo San Andres Unit as initially approved; and

WHEREAS, the undersigned represents that it is a "Lessee of Record" as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, the undersigned "Lessee of Record", being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, the undersigned who is the owner of a record title interest or interests only does hereby ratify and confirm said Unit Agreement with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument on the 18th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

BHP PETROLEUM (AMERICAS) INC.
SUCCESSOR TO
ENERGY RESERVES GROUP, INC.

By: Robert G. Elliott
Robert G. Elliott
Attorney-in-Fact

STATE OF TEXAS)
) B
COUNTY OF MIDLAND)

The foregoing instrument was acknowledged before me on this 18th day of August, 1989, by Robert G. Elliott, Attorney-in-Fact of BHP PETROLEUM (AMERICAS) INC., successor to ENERGY RESERVES GROUP, INC. a Delaware corporation, on behalf of said corporation.

My Commission Expires:

12-16-92

Gail Caudle
Gail Caudle, Notary Public
in and for the State of Texas

(Record Title)

RATIFICATION OF AGREEMENT ENTITLED
"UNIT AGREEMENT"
JENNIFER CHAVEROO SAN ANDRES UNIT
COUNTY OF ROOSEVELT, STATE OF NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the undersigned owner of a record title interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 1, 1989, entitled "Unit Agreement, Jennifer Chaveroo San Andres Unit, County of Roosevelt, State of New Mexico," (hereinafter the "Unit Agreement"); and

WHEREAS, Exhibits "A" and "B", attached to and made a part of said Unit Agreement, identify the separately owned tracts which became a part of the Jennifer Chaveroo San Andres Unit as initially approved; and

WHEREAS, the undersigned represents that it is a "Lessee of Record" as defined in said Unit Agreement, in one or more of the Tracts identified by said Exhibits; and

WHEREAS, the undersigned "Lessee of Record", being familiar with the contents thereof, desires to ratify and confirm said Unit Agreement.

NOW THEREFORE, the undersigned who is the owner of a record title interest or interests only does hereby ratify and confirm said Unit Agreement with respect to all of its interests in all of the separately owned Tracts identified by said Exhibits, thereby becoming a party thereto.

IN WITNESS WHEREOF, the undersigned party has executed this instrument on the 14th day of August, 1989, but made effective for all purposes on the 1st day of August, 1989.

ATTEST:

Nadine R. Reed
Nadine R. Reed, Secretary

MURPHY OPERATING CORPORATION

By: Ann Murphy Ezzell
Ann Murphy Ezzell, Chairman & C.E.O.

STATE OF NEW MEXICO)
) ss
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this 14th day of August, 1989, by Ann Murphy Ezzell, Chairman and C.E.O. of Murphy Operating Corporation, a New Mexico corporation, on behalf of said corporation.

My Commission Expires:

August 24, 1990

Clara Talbert
Clara Talbert, Notary Public

