



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

#~~8780~~  
#8780

GARREY CARRUTHERS  
GOVERNOR

March 1, 1990

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

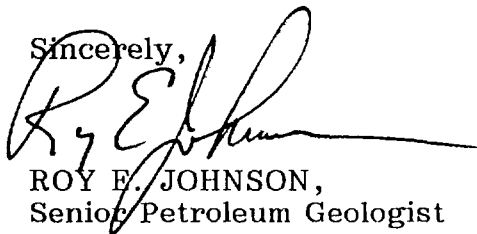
Plains Petroleum Operating Co.  
415 West Wall Street  
Suite 2110  
Midland, Texas 79701

Re: Plan of Operation 1990-1991  
~~Bluitt San Andres Unit~~  
("the Bluitt Unit")  
Roosevelt County, New Mexico

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

  
ROY E. JOHNSON,  
Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands  
Bureau of Land Management



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
ROSSELL DISTRICT OFFICE  
P.O. BOX 1397  
ROSSELL, NEW MEXICO 88201



14-08-0001-19582  
3180 (065)

Murphy Operating Corporation  
Attention: Jo McInerney  
P.O. Box 2648  
Roswell, New Mexico 88202-2648

**FEB 28 1980**

Re: Todd Lower San Andres Unit  
Designation of Successor Unit Operator

Gentlemen:

This office is in receipt of a designation of successor unit operator in which Murphy Operating Corporation has resigned as unit operator and has designated Plains Petroleum Operating Company as unit operator of the Todd Lower San Andres Unit in Roosevelt County, New Mexico. This office is also in receipt of a revised Exhibit "B" and designations of successor unit operator from a majority of the working interest owners as required by the terms of the unit agreement.

In view of the above, this office hereby approves of Plains Petroleum Operating Company as unit operator of the Todd Lower San Andres Unit effective as of this date. In accordance with this approval, Plains Petroleum Operating Company is now the responsible party for all operations and the reporting of all unitized production from this unit. Well signs should also reflect Plains Petroleum Operating Company as unit operator. This approval is subject to like approval by all other appropriate agencies.

Enclosed is a copy of the approved designation of successor unit operator for your files. Please furnish all interested principals with appropriate evidence of this approval.

If you have any questions, please contact Jerry Dutchover or the Branch of Fluid Minerals at (505) \*622-9042.

Sincerely,

(ORIG. SMO.) JOE G. LARA

Joe G. Lara  
Assistant District Manager  
Minerals

Enclosures  
Approved Designations

cc:  
✓ Commissioner of Public Lands  
MMS-652

DESIGNATION OF SUCCESSOR UNIT OPERATOR  
BY WORKING INTEREST OWNERS

Designation of successor Unit Operator to Todd Lower San Andres Unit Area,  
County of Roosevelt, State of New Mexico, No. 14-08-0001-19582.

This indenture, dated as of the 1st day of September, 1989, by  
and between PLAINS PETROLEUM OPERATING COMPANY, hereinafter designated as "First  
Party", and the owners of unitized working interests, hereinafter designated as  
"Second Parties".

WITNESSETH:

WHEREAS under the provisions of the Act of February 25, 1920, 41 Stat.  
437.30 U.S.C. secs. 181, et. seq., as amended by the Act of August 8, 1946, 60  
Stat. 950, the Secretary of the Interior, on the 1st day of July, 1983, approved  
a Unit Agreement, Todd Lower San Andres Unit Area, 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 thereof; and

WHEREAS, the First Party has been and hereby is designated by Second  
Parties as Unit Operator, and said First Party desires to assume all of the  
rights, duties, and obligations of Unit Operator under the said Unit Agreement.

NOW, THEREFORE, in consideration of the premises hereinbefore set forth and  
the promises hereinafter stated, the First Party hereby covenants and agrees to  
fulfill the duties and assume the obligations of Unit Operator under and  
pursuant to all the terms of the Todd Lower San Andres Unit Agreement, and the  
Second Parties covenant and agree that, effective upon approval of this  
indenture by the  
First Party shall be granted the exclusive right and privilege of exercising any  
and all rights and privileges as Unit Operator, pursuant to the terms and  
conditions of said Unit Agreement; said Unit Agreement being hereby incorporated  
herein by reference and made a part hereof as fully and effectively as though  
said Unit Agreement were expressly set forth in this instrument.

THIS INSTRUMENT may be executed in counterpart, each of which shall be  
deemed an original and all of which shall together constitute one and the same  
document.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of  
the date hereinabove set forth.

WITNESSES:

James R. Sutherland

Bonnie Musband

J. Charles Farmer  
(First Party)  
Plains Petroleum Operating Company

J. Charles Farmer  
District Manager

ATTEST:

Nadine Reed  
Secretary  
Nadine Reed

Ann Murphy Ezzell  
(Second Party) Ann Murphy Ezzell, Chairman & CEO  
Murphy Operating Corporation  
Record Unit Operator

I hereby approve the foregoing indenture designating Plains Petroleum Operating  
Company as Unit Operator under the Unit Agreement for Todd Lower San Andres Unit  
Area, this 28th day of February, 1990.

Lee J. Lora  
Authorized Officer of the Bureau of  
Land Management

Where the designation of a successor Unit Operator is required for any reason  
other than resignation, such reason shall be substituted for the one stated.

**DESIGNATION OF SUCCESSOR UNIT OPERATOR  
BY WORKING INTEREST OWNERS**

Designation of successor Unit Operator to Todd Lower San Andres Unit Area, County of Roosevelt, State of New Mexico, No. 14-08-0001-19582.

This indenture, dated as of the 1st day of September, 19 89, by and between PLAINS PETROLEUM OPERATING COMPANY, hereinafter designated as "First Party", and the owners of unitized working interests, hereinafter designated as "Second Parties".

**WITNESSETH:**

WHEREAS under the provisions of the Act of February 26, 1920, 41 Stat. 437.30 U.S.C. secs. 181, et. seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, on the 1st day of July, 1983, approved a Unit Agreement, Todd Lower San Andres Unit Area, 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 thereof; and

WHEREAS, the First Party has been and hereby is designated by Second Parties as Unit Operator, and said First Party desires to assume all of the rights, duties, and obligations of Unit Operator under the said Unit Agreement.

NOW, THEREFORE, in consideration of the premises hereinbefore set forth and the promises hereinafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all the terms of the Todd Lower San Andres Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the

First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement were expressly set forth in this instrument.

THIS INSTRUMENT may be executed in counterpart, each of which shall be deemed an original and all of which shall together constitute one and the same document.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

WITNESS:

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

\_\_\_\_\_  
(First Party)  
Plains Petroleum Operating Company

WITNESS:

Cyril Zelman  
Deborah F. Harrison

James W. Kincaid  
(Second Party) James W. Kincaid, President  
Figgie Natural Resources Inc.

ATTEST:

Sharon Q. Meera  
Assistant Secretary

I hereby approve the foregoing indenture designating Plains Petroleum Operating Company as Unit Operator under the Unit Agreement for Todd Lower San Andres Unit Area, this 20th day of February, 1990.

Lee J. Lara  
Authorized officer of the Bureau of  
Land Management

Where the designation of a successor Unit Operator is required for any reason other than resignation, such reason shall be substituted for the one stated.

DESIGNATION OF SUCCESSOR UNIT OPERATOR  
BY WORKING INTEREST OWNERS

Designation of successor Unit Operator to Todd Lower San Andres Unit Area,  
County of Roosevelt, State of New Mexico, No. 14-08-0001-19582.

This indenture, dated as of the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, by  
and between PLAINS PETROLEUM OPERATING COMPANY, hereinafter designated as "First  
Party", and the owners of unitized working interests, hereinafter designated as  
"Second Parties".

WITNESSETH:

WHEREAS under the provisions of the Act of February 25, 1920, 41 Stat.  
437.30 U.S.C. secs. 181, et. seq., as amended by the Act of August 8, 1946, 60  
Stat. 950, the Secretary of the Interior, on the 1st day of July, 1983, approved  
a Unit Agreement, Todd Lower San Andres Unit Area, 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 thereof; and

WHEREAS, the First Party has been and hereby is designated by Second  
Parties as Unit Operator, and said First Party desires to assume all of the  
rights, duties, and obligations of Unit Operator under the said Unit Agreement.

NOW, THEREFORE, in consideration of the premises hereinbefore set forth and  
the promises hereinafter stated, the First Party hereby covenants and agrees to  
fulfill the duties and assume the obligations of Unit Operator under and  
pursuant to all the terms of the Todd Lower San Andres Unit Agreement, and the  
Second Parties covenant and agree that, effective upon approval of this  
indenture by the \_\_\_\_\_,

First Party shall be granted the exclusive right and privilege of exercising any  
and all rights and privileges as Unit Operator, pursuant to the terms and  
conditions of said Unit Agreement; said Unit Agreement being hereby incorporated  
herein by reference and made a part hereof as fully and effectively as though  
said Unit Agreement were expressly set forth in this instrument.

THIS INSTRUMENT may be executed in counterpart, each of which shall be  
deemed an original and all of which shall together constitute one and the same  
document.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of  
the date hereinabove set forth.

WITNESS:

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

(First Party)  
Plains Petroleum Operating Company

WITNESS:

*John E. Buck*  
*Stearns Romanelli*

*Marc E. Leland*  
(Second Party)  
P.A.J.W. Corporation  
Marc E. Leland, President

ATTEST:

*John H. Slayton*  
John H. Slayton, Secretary

I hereby approve the foregoing indenture designating Plains Petroleum Operating  
Company as Unit Operator under the Unit Agreement for Todd Lower San Andres Unit  
Area, this 28th day of February, 1990.

*Lee J. Lara*  
Authorized officer of the Bureau of  
Land Management

Where the designation of a successor Unit Operator is required for any reason  
other than resignation, such reason shall be substituted for the one stated.

(Revised 2/16/90)

(Revised 2/16/90)

EXHIBIT "B" TO UNIT AGREEMENT  
TODD LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, NEW MEXICO

Tract No.	Lease Name, Description and No. Acres	Serial No. & Lease Date	Lessee of Record	Basic Roy. & Percent.	Overriding Royalty Owner or Production Payment Interest (PPI)	Percent Ownership	Lower San Andres Production Working Interest Ownership	M.I. Percent Ownership	Percent Unit Participati
<b>FEDERAL LEASES:</b>									
2.	Solsberry T-7-S, R-36-E Sec. 29: SEXSE 40.0 Acres	1. Mark Federal #7 T-7-S, R-35-E Sec. 25: NEX, WSEX 240.0 Acres	Murphy Operating Corp.	USA 12.5%	Estate of E.R. Kain Estate of M.J. Weaver Jack L. McClellan F. W. Blockson Grant W. Halter Jack C. Halter Richard F. Halter Donald L. Kester Marilyn M. Michael E. K. Patterson Estate of Flora Huff Miller	0.33333% 0.50000% 1.00000% 0.33333% 0.11111% 0.11111% 0.11111% 0.33333% 0.16667% 0.33333% 0.16666%	Plains Petroleum Op. Co. F1991e Natural Resources Inc. P.A.J.M. Corporation Labora Lucas	26.66926000 35.34550000 36.73524000 01.25000000 100.00000000	0.40670941 0.53902311 0.56021681 0.01906265 1.52501200
3.	Livaudais T-7-S, R-36-E Sec. 30: Lots E3/4, E2/4, SEXNE 427.40 Acres								
4.	Linan "A" T-7-S, R-36-E Sec. 19: SEXSE 40.0 Acres								
4-A.	Peterson "A" T-7-S, R-36-E Sec. 29: SEXNE 200.0 Acres	1-A. Mark Federal #6 T-7-S, R-35-E Sec. 25: EXSEX 80.0 Acres	Murphy Operating Corp.	USA 12.5%	Estate of E.R. Kain Estate of M.J. Weaver Jack L. McClellan F. W. Blockson Grant W. Halter Jack C. Halter Richard F. Halter Donald L. Kester Marilyn M. Michael E. K. Patterson Estate of Flora Huff Miller	0.33333% 0.50000% 1.00000% 0.33333% 0.11111% 0.11111% 0.11111% 0.33333% 0.16667% 0.33333% 0.16666%	Plains Petroleum Op. Co. F1991e Natural Resources Inc. P.A.J.M. Corporation Labora Lucas	26.00186000 26.50920000 52.55144000 00.93750000 100.00000000	0.28682107 0.38013450 0.75357293 0.01344346 1.43397200
5.	Spradley T-7-S, R-36-E Sec. 29: WSEX 80.0 Acres								

TOTAL FEDERAL ACREAG

(Revised 2/16/90)

EXHIBIT "B" TO UNIT AGREEMENT  
TODD LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, NEW MEXICO

Tract No.	Lease Name, Description of Land and No. Acres	Serial No. & Lease Date	Lessee of Record	Basic Roy. & Percent.	Overriding Royalty		Lower San Andres Production Working Interest Ownership	W.I.	
					Owner or Production Payment Interest (PPI)	Percent Ownership		Percent Ownership	Percent Unit Participation
6.	Skelly-Smith T-7-S, R-36-E Sec. 31: NE¼ 160.0 Acres	E-8948 4/19/55	Getty Oil Company	State NM 12.5%	Grant M. Smith Polo Oil & Gas Co. Murphy Royalty Pool A.J. Murphy Mark B. Murphy Murphy 1987 Irrevocable Trust	1.0000% 3.1250% 0.9375% 2.8125% 2.8125%	Plains Petroleum Op. Co. Figgie Natural Res. Inc. P.A.J.W. Corporation Ladora Lucas	23.29500000 35.71900000 39.73510000 01.25000000 100.00000000	2.49211376 3.821337406 4.250886031 0.133725787 10.698063000
6-A.	Hobbs "R" T-7-S, R-36-E Sec. 31: Lots 1,2, E¾NW¼ 154.09 Acres	E-8948 4/19/55	Getty Oil Company	State NM 12.5%			Plains Petroleum Op. Co. Figgie Natural Res. Inc. P.A.J.W. Corporation	16.86154000 38.75900000 44.37946000 100.00000000	0.307064493 0.705637824 0.808191683 1.821094000
7.	State "AY" T-7-S, R-35-E Sec. 36: NW, SE¼ 480.0 Acres	E-10047 5/15/56	Sun Oil Co.	State NM 12.5%	None		Plains Petroleum Op. Co. Figgie Natural Res. Inc. P.A.J.W. Corporation	15.43500000 56.37670000 28.18830000 100.00000000	2.434283022 8.891275909 4.445630069 15.771189000
8.	State "BC" T-7-S, R-36-E Sec. 31: Lots 3,4 74.11 Acres	OG-174 9/18/56	Atlantic Richfield Company	State NM 12.5%			Plains Petroleum Op. Co. Figgie Natural Res. Inc. P.A.J.W. Corporation Southwestern, Inc.	07.71745000 28.18840000 14.09415000 50.00000000 0.057115536 0.208617556 0.104308408 0.370041500	
8-A.	Atlantic T-7-S, R-36-E Sec. 31: E¾SW¼ 80.0 Acres	OG-174 9/18/56	Atlantic Richfield Company	State NM 12.5%	Atlantic Richfield Co.	12.5000%	Plains Petroleum Op. Co. Figgie Natural Res. Inc. P.A.J.W. Corporation Southwestern, Inc.	14.47037000 52.85310000 26.42653000 06.25000000 100.00000000	0.299821291 1.095096790 0.547548981 0.129497938 2.071967000



(Revised 2/16/90)

EXHIBIT "B" TO UNIT AGREEMENT  
TODD LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, NEW MEXICO

Tract No.	Lease Name, Description of Land and No. Acres	Serial No. & Lease Date	Lessee of Record	Basic Roy. & Percent.	Overriding Royalty		Lower San Andres Production Working Interest Ownership	M.I.	
					Owner or Production Payment Interest (PPI)	Percent Ownership		Percent Ownership	Percent Unit Participation
8-B.	Atlantic-Smith	06-174	Atlantic	State NM	Atlantic Richfield Co.	12.50000%	Plains Petroleum Op. Co.	26.36773000	1.689611706
	T-7-S, R-36-E	9/18/56	Richfield	12.5%	Grant M. Smith	1.000000%	Figgie Natural Res. Inc.	35.33620000	2.264428390
	Sec. 31: SEX		Company				P.A.J.W. Corporation	36.41907000	2.333689210
	160.0 Acres						Labora Lucas	01.87500000	0.120147694
								100.00000000	6.407877000
9.	N.M. "CT"	06-1395	Murphy	State NM			P.A.J.W. Corporation	100.00000000	8.078439000
	T-7-S, R-35-E	10/15/57	Operating	12.5%				100.00000000	8.078439000
	Sec. 35: NX, NKSEK		Corp.						
	400.0 Acres								
10.	Hobbs "Z"	06-1617	Getty OII	State NM			Plains Petroleum Op. Co.	16.86154000	0.166424917
	T-7-S, R-36-E	12/16/57	Company	12.5%			Figgie Natural Res. Inc.	38.75900000	0.38254818
	Sec. 19: SMKSEK						P.A.J.W. Corporation	44.37946000	0.438029265
	40.0 Acres							100.00000000	0.987009000
10.	Hobbs "Z"	06-1617	Getty OII	State NM			Plains Petroleum Op. Co.	16.86154000	0.166424917
	T-7-S, R-36-E	12/16/57	Company	12.5%			Figgie Natural Res. Inc.	38.75900000	0.38254818
	Sec. 19: SMKSEK						P.A.J.W. Corporation	44.37946000	0.438029265
	40.0 Acres							100.00000000	0.987009000
10-A.	VaI State	06-1617	Getty OII	State NM	Polo OII & Gas Co.	4.68750%	Plains Petroleum Op. Co.	26.66926000	2.035449395
	T-7-S, R-36-E	12/16/57	Company	12.5%	Murphy Royalty Pool	1.40625%	Figgie Natural Res. Inc.	35.34550000	2.697636776
	Sec. 30: WKSEK				A.J. Murphy	4.21875%	P.A.J.W. Corporation	36.73524000	2.803704416
	160.0 Acres				Mark B. Murphy	4.21875%	Labora Lucas	01.25000000	0.095402413
					Murphy 1987			100.00000000	7.632193000
					Irrevocable Trust	4.21875%			

(Revised 2/16/90)

EXHIBIT "B" TO UNIT AGREEMENT  
TODD LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, NEW MEXICO

Tract No.	Lease Name, Description of Land and No. Acres	Serial No. & Lease Date	Lessee of Record	Basic Roy. & Percent.	Overriding Royalty Owner or Production Payment Interest (PPI)	Percent Ownership	Lower San Andres Production Working Interest Ownership	M.I. Percent Ownership	Percent Unit Participation
11.	Gates State T-7-S, R-36-E Sec. 32: MMX 160.0 Acres	K-3582-3 9/17/63	Murphy Operating Corporation	State NM 12.5%	Robert B. Gates Mary Ann Morrison Estate of J.W. Brasfield	5.00% 1.00% 1.00%	Plains Petroleum Op. Co. Ffiglie Natural Res. Inc. P.A.J.N. Corporation Ladora Lucas	26.66926000 35.34550000 36.73524000 01.25000000 100.00000000	1.790540513 2.373052335 2.466357727 0.083923425 6.713874000
12.	Roosevelt T-7-S, R-36-E Sec. 32: NEK 160.0 Acres	K-6285 8/16/66	Gulf Oil Corporation	State NM 12.5%			P.A.J.N. Corporation	100.00000000 100.00000000	9.533276000 9.533276000
13.	Cook T-7-S, R-36-E Sec. 32: NWSM 80.0 Acres	K-6454-3 10/18/66	Murphy Operating Corporation	State NM 12.5%	Estate of Joe Don Cook Grant M. Smith Juliette F. Dunlavy E. S. Grear Daniel L. Hamntfin Joyce E. Medaris W. A. Snipes	1.50% 1.00% 1.00% 0.50% 0.75% 0.50%	Plains Petroleum Op. Co. Ffiglie Natural Res. Inc. P.A.J.N. Corporation Ladora Lucas	26.36773000 35.33820000 36.41907000 01.87500000 100.00000000	0.292797294 0.392408801 0.404411192 0.020820713 1.110438000
TOTAL STATE ACREAGE:		2,108.20	=	65.56% of unit					
TOTAL FEDERAL ACREAGE:		1,107.40	=	34.44% of unit					
TOTAL UNIT ACREAGE		3,215.60							

(Revised 2/16/90)

EXHIBIT "D"  
TO UNIT OPERATING AGREEMENT  
TODD LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, NEW MEXICO

<u>Working Interest Owner</u>	<u>Percent Unit Participation</u>
Plains Petroleum Operating Company	16.963835551
Figgie Natural Resources Inc.	36.666675491
P.A.J.W. Corporation	45.297421075
Southwestern, Inc.	0.499539438
LaDora Lucas	<u>0.572528445</u>
	<u><u>100.000000000</u></u>

'90 FEB 19 AM 9 16

P L A I N S  
P E T R O L E U M  
O P E R A T I N G  
C O M P A N Y

2-28-90

D - UNIT LETTER  
TAA 124

February 15, 1990

Mr. Francis R. Cherry, Jr., District Manager  
Unites States of America  
Department of the Interior  
Bureau of Land Management  
P. O. Box 1397  
Roswell, NM 88202-1397

Attn: Mr. Joe Lara,  
Assistant District Manager of Minerals

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

Mr. William J. Lemay, Director  
State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, NM 87504-2088

Re: Plan of Operation 1990-1991  
Bluitt San Andres Unit ("the Bluitt Unit")  
Roosevelt Co., NM

Gentlemen:

Pursuant to the provisions of Section 11 of the Unit Agreement, Plains Petroleum Operating Company ("PPOC"), successor operator to Murphy Operating Corporation and now Unit Operator of the Bluitt San Andres Unit, Roosevelt Co., NM, respectfully submits for your consideration and approval, this plan operation for the secondary recovery of oil by waterflood on the subject unitized land.

I. Review of 1988-1989

Murphy Operating Corporation, the prior operator of the Bluitt Unit, developed a water supply source to service the unit area. This development required the drilling of two (2) water wells and laying approximately eight (8) miles of PVC pipe from the water wells (located in Section 16 - T7S - R38E) to deliver supplemental water to the Bluitt Unit injection station (located in Section 13 - T8S - R37E).

I. Review of 1988-1989 (cont)

Injection into well #13-15, located in the pilot waterflood area, began in January 1988 using a supplemental water source on the Bluitt Unit and continued uninterrupted until exhaustion of the temporary supplemental water source occurred in November, 1989. Injection into well #13-7 began in August, 1988 and continued uninterrupted until exhaustion of the temporary supplemental water source occurred in November, 1989. Wells #18-5 and #18-13 were converted from producing wells to injection wells and were utilized to test the newly completed supplemental water supply and injection plant operation in December, 1989. Beginning in October, 1988, waterflood response was evidenced at producing well #18-12 and continued through November, 1989, until the temporary supplemental water supply was exhausted and injection ceased.

II. Proposed Plan of Operation, 1990

PPOC proposes full-field development of five-spot pattern as shown on attached Exhibit 1. This will require the conversion from producers to injectors of seven (7) additional wells (#13-03, 13-05, 13-09, 13-11, 24-01, 24-03 and 19-03). The proposed injection system is outlined on Exhibit 2.

PPOC also proposes the drilling of six (6) new wells (#13-01, 13-02, 13-06, 13-16, 18-11 and 18-14). All six (6) wells APD's were submitted to the BLM on February 6, 1990. All six (6) new wells will initially be completed as producing oil wells; however, as soon as the oil producing rates decline below operating economic limits, wells #13-01 and #18-11 will be converted from producing wells to injection wells. The proposed final status and legal location of these six (6) new wells are listed below:

<u>Location</u>	<u>Proposed Status</u>
Township 8 South, Range 37 East, N.M.P.M., Roosevelt Co., NM	
Unit A, Section 13	Injector
Unit B, Section 13	Producer
Unit F, Section 13	Producer
Unit P, Section 13	Producer
 Township 8 South, Range 38 East, N.M.P.M., Roosevelt Co., NM	
Unit K, Section 18	Injector
Unit N, Section 18	Producer

Drilling will commence as soon as APD's are approved, which is anticipated to be about March 8 or 9, 1990.

III. Further Development

Following full-field development and implementation of the five-spot producing/injection pattern outlined in paragraph II, PPOC does not at this time foresee any further development in the Bluitt Unit.

Page 3  
Plan of Operation 1990-1991  
Bluitt San Andres Unit  
February 15, 1990

IV. Modifications

Subject to your 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.

I have enclosed for your information and file Exhibits 1, 2, 3 and 4 respectively, a Well Location and Status Map, an Injection System Map, a Reservoir Performance Curve and 1989 Tabulated Production and Injection Data. Should you have any questions and/or comments, please call me.

Very truly yours,  
PLAINS PETROLEUM OPERATING COMPANY



James R. Sutherland  
District Operations and Engineering Manager

JRS/rc/JS25

Enclosures:    Bluitt San Andres Unit Well Locations and Status Map  
                  Bluitt San Andres Unit Injection System Map  
                  Bluitt San Andres Unit Reservoir Performance Curve  
                  Bluitt San Andres Unit 1989 Tabulated Production and Injection Rate

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

# PLAINS PETROLEUM OPERATING COMPANY

BLUETT LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, N.M.

## EXHIBIT II

### INJECTION SYSTEM MAP

----- 2 7/8" FG Injection Line  
----- 1 1/2" FG Injection Line

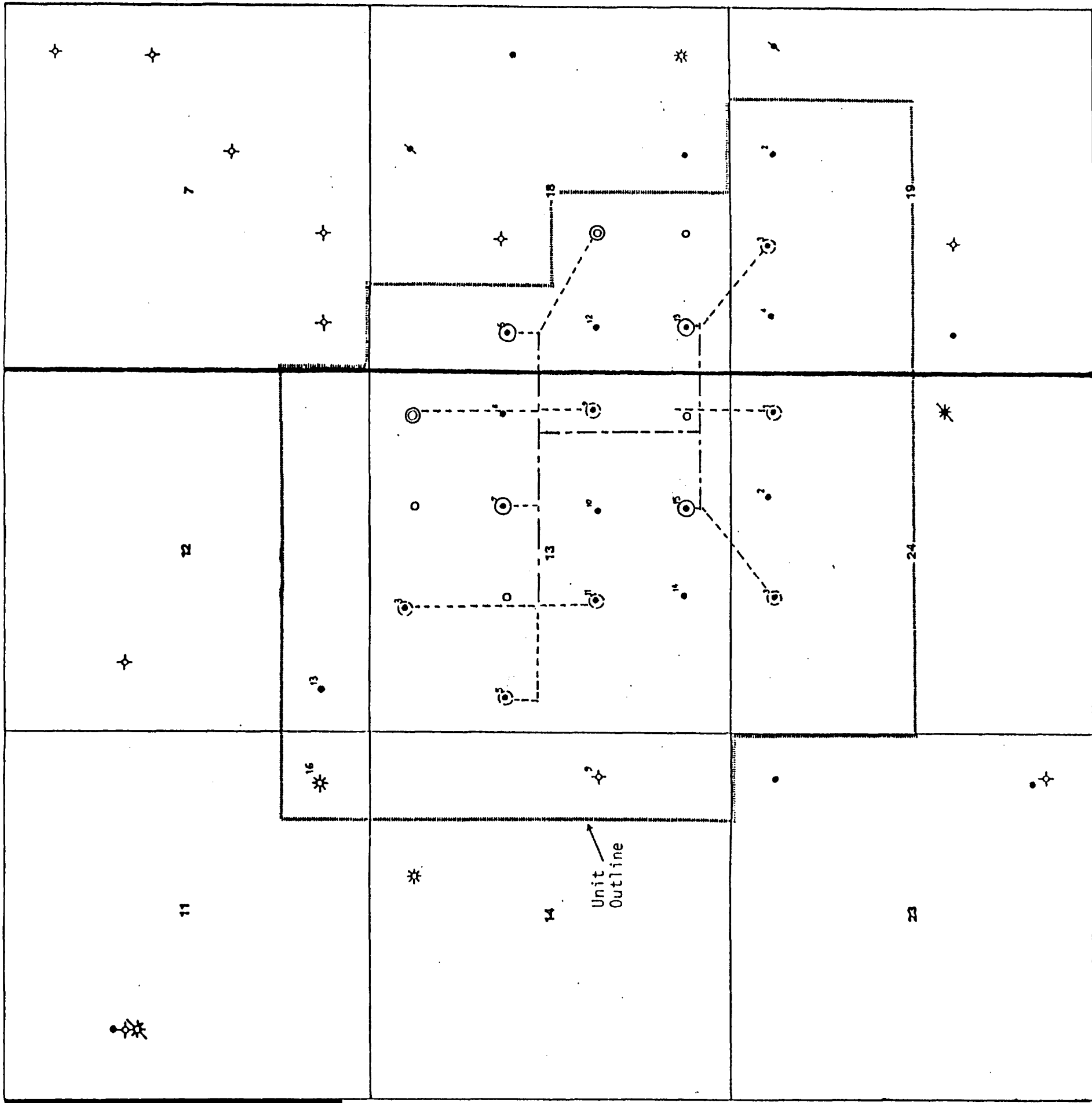
February, 1990

Sheet

Sheet

R37E

R38E



PLAINS PETROLEUM OPERATING COMPANY

BLUIT LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, N.M.

EXHIBIT I  
WELL LOCATIONS

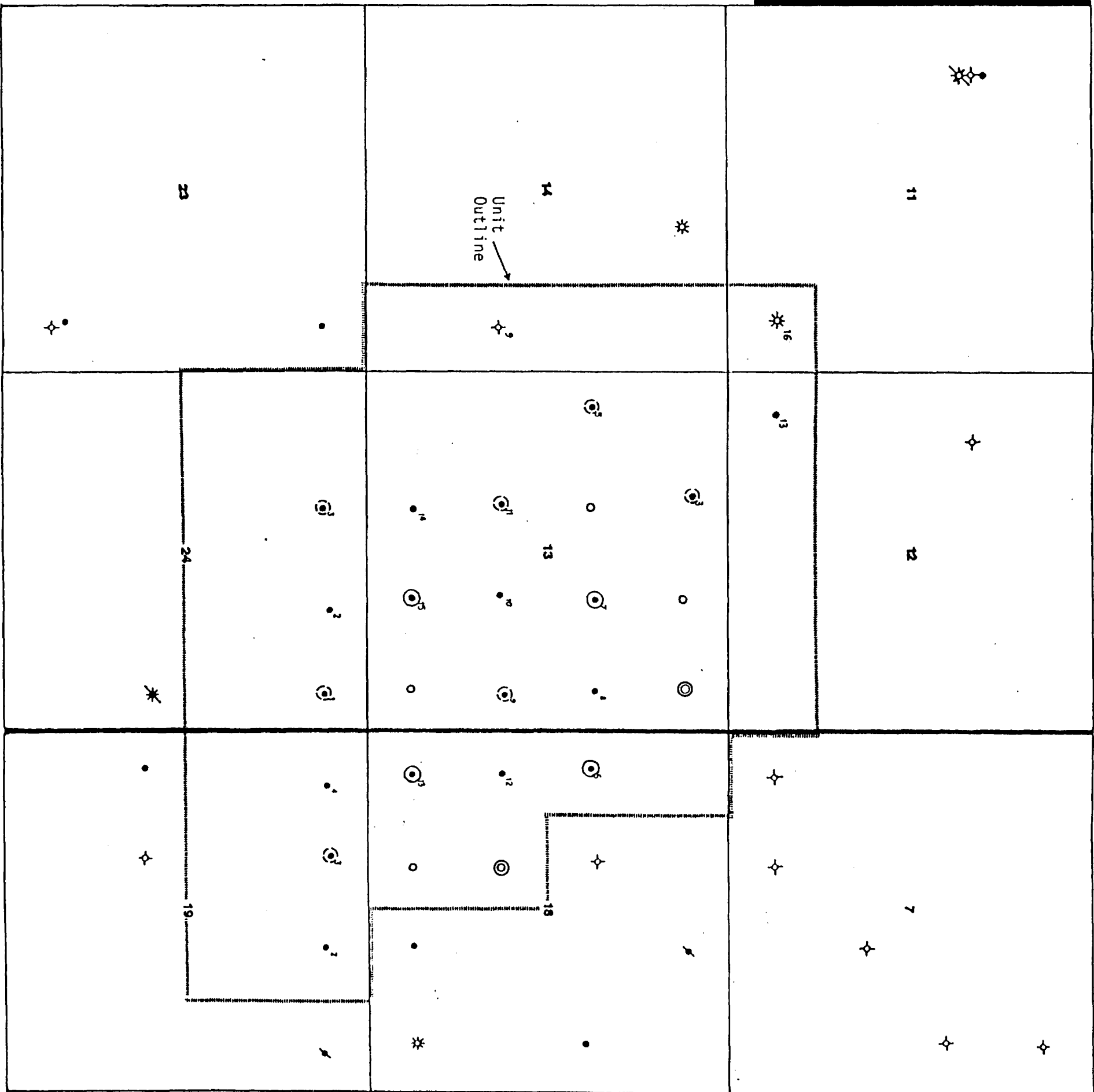
STATUS

EXPLANATION  
Prod. Loc.      Prod.  
Inj. Loc.      Inj.  
Dry & Aband.      P&A  
Gas Well      Orig. Disposal Well  
Proposed Inj. Well

February, 1990

R37E

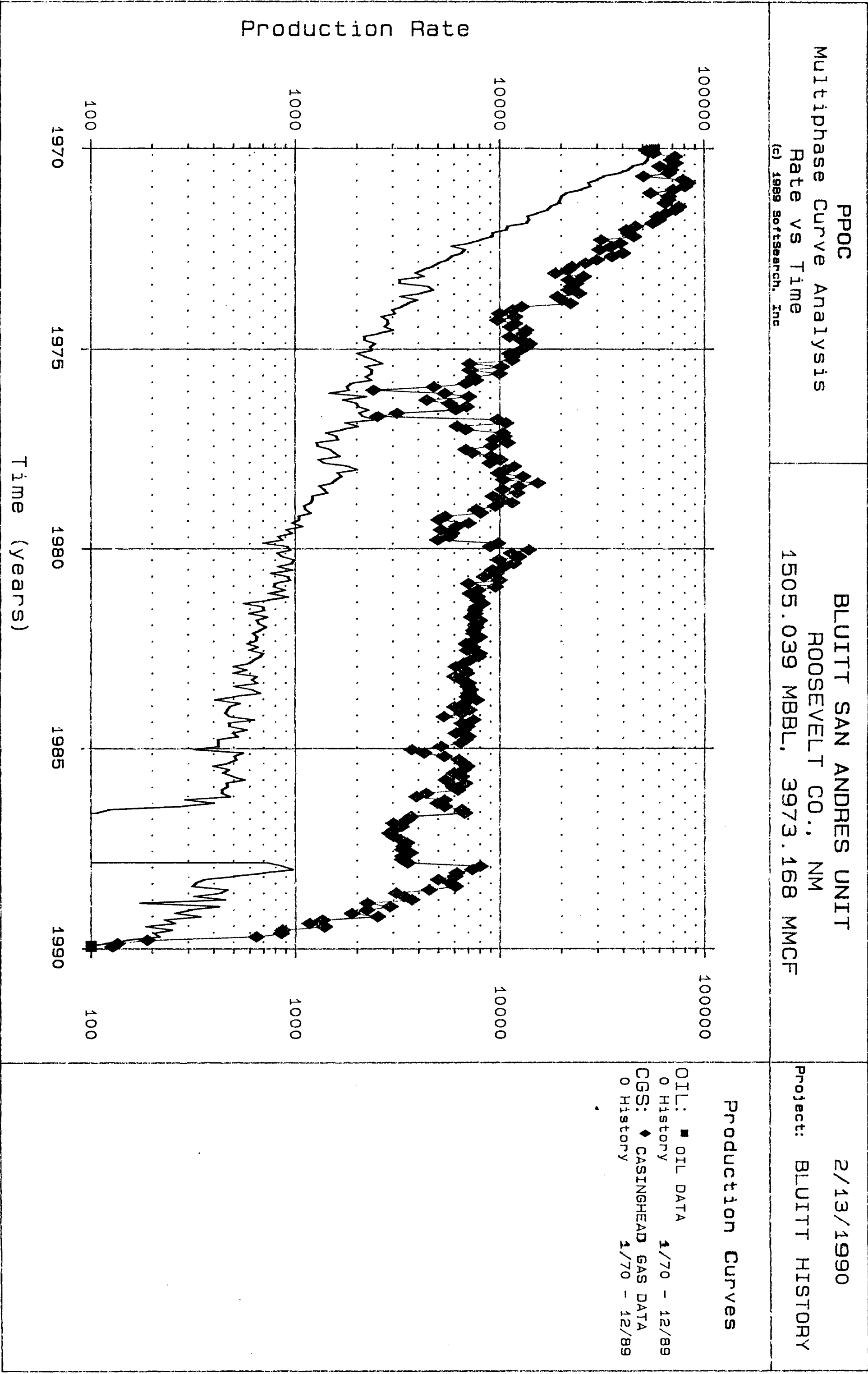
R38E



T8S

T8S





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

[illegible]

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

PRODUCTION																												
BLUITT SAN ANDRES ASSOCIATED POOL											BLUITT SAN ANDRES UNIT																	
Computer LEASE NAME, Well # WELL S T R STATUS											CUMULATIVE 1989 THRU 12/31/88 JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC. TOTAL 1989 CUM. TOTALS																	
BATTERY #2 TOTAL (Bluitt Fed.#1,#2,#3 & Fed.E #2)											OIL	291,093	57	5	38	24	22	21	22	46	19	0	1	0	255	291,348		
											GAS	642,104	0	0	0	0	0	0	0	0	0	0	0	0	0	642,104		
											WAT	10,848	659	259	597	855	47	45	1395	1404	1400	0	309	0	6,970	17,818		
											INJ	83,607	8981	3471	7796	9625	11692	9310	8218	7566	5122	7719	2544	832	82,876	166,483		
Bluitt Section 14											OIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
020012 9 I 14-T8S-R37E T											GAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
											WAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bluitt Section 12											OIL	11,956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,956
020002 13 M 12-T8S-R37E P											GAS	80,532	453	444	509	484	446	513	150	0	0	0	0	0	2,999	83,531		
											WAT	266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	266	
Bluitt Section 11 Lease No. NM 041698A											OIL	40,298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,298	
020001 16 P 11-T8S-R37E S											GAS	734,728	0	0	0	0	0	0	0	0	0	0	0	0	0	0	734,728	
											WAT	21,542	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,542	
BATTERY #3 TOTAL											OIL	52,254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52,254	
(Kirkpatrick Federal #1, #5, #7)											GAS	815,260	453	444	509	484	446	513	150	0	0	0	0	0	2,999	818,259		
											WAT	21,808	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,808	
Bluitt Section 24 Lease No. NM 0137105											OIL	79,510	15	34	0	0	0	0	0	0	0	0	0	0	0	0	49	79,559
020019 1 A 24-T8S-R37E P											GAS	80,227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80,227
											WAT	59,284	639	517	0	0	0	0	0	0	0	0	0	0	0	1,156	60,440	
Bluitt Section 24 Lease No. NM 044216C											OIL	75,575	10	24	52	29	37	32	33	0	0	0	0	0	0	217	75,792	
020020 2 B 24-T8S-R37E P											GAS	96,635	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96,635
(Ingram's Federal "E")											WAT	33,090	268	220	313	504	18	16	411	0	0	0	0	0	0	1,750	34,840	
Bluitt Section 19 Lease No. NM 044216B											OIL	68,644	5	14	92	38	83	60	75	59	63	63	56	55	663	69,307		
020017 3 C 19-T8S-R38E P											GAS	21,221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,221	
											WAT	139,140	370	363	208	336	12	11	333	446	425	434	450	324	3,712	142,852		
BATTERY #4 TOTAL											OIL	223,729	30	72	144	67	120	92	108	59	63	63	56	55	929	224,658		
(McCaw Federal #1)											GAS	198,083	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	198,083
											WAT	231,514	1277	1100	521	840	30	27	744	446	425	434	450	324	6,618	238,132		

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

PRODUCTION																							
BLUITT SAN ANDRES ASSOCIATED POOL													BLUITT SAN ANDRES UNIT										
Computer LEASE NAME, Well # WELL S T R STATUS													CUMULATIVE 1989 THRU 12/31/88 JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC. TOTAL										CUM. TOTALS
Bluitt Section 19																							
020018	4 D	19-T8S-R37E	P	OIL	61,828	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61,828	
				GAS	73,366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73,366	
				WAT	17,044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,044	
Bluitt section 18 Lease No. NM-044216E																							
020013	5 E	18-T8S-R38E	I	OIL	22,847	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,847	
				GAS	13,357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,357	
				WAT	6,148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,148	
				INJ	0							0	0	0	0	0	0	0	0	0	0	0	
Bluitt Section 18 Lease No. NM 0509201																							
020014	12 L	18-T8S-R38E	P	OIL	146,779	116	148	141	130	114	74	117	98	133	75	61	41	1,248				148,027	
				GAS	137,720	216	61	581	235	135	196	104	227	145	189	135	128	2,352				140,072	
				WAT	6,810	8	9	8	15	0	7	109	176	450	651	630	974	3,037				9,847	
020015	13 M	18-T8S-R38E	I	OIL	98,602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98,602	
				GAS	69,083	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69,083	
				WAT	2,980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,980	
				INJ	0							0	0	0	0	0	0	0	0	0	0	0	
BATTERY #6 TOTAL																							
				OIL	330,056	116	148	141	130	114	74	117	98	133	75	61	41	1,248				331,304	
				GAS	293,526	216	61	581	235	135	196	104	227	145	189	135	128	2,352				295,878	
				WAT	32,982	8	9	8	15	0	7	109	176	450	651	630	974	3,037				36,019	
				INJ	0							0	0	0	0	0	0	0	0	0	0	0	
Bluitt Section 19 Lease No. NM-0358539																							
020016	2 B	19-T8S-R38E	P	OIL	32,255	54	5	0	0	0	0	0	0	0	0	0	0	0	0	0	59	32,314	
				GAS	252,411	1078	932	849	0	0	0	0	0	0	0	0	0	2,859				255,270	
				WAT	3,028	14	0	0	0	1	0	0	0	0	0	0	0	15				3,043	
BATTERY #7 TOTAL																							
				OIL	32,255	54	5	0	0	0	0	0	0	0	0	0	0	59				32,314	
				GAS	252,411	1078	932	849	0	0	0	0	0	0	0	0	0	2,859				255,270	
				WAT	3,028	14	0	0	0	1	0	0	0	0	0	0	0	15				3,043	
Baumgartner's USA Fed. #1)																							
BLUITT SAN ANDRES UNIT TOTAL																							
				OIL	1,502,430	308	258	340	230	256	187	247	203	215	151	118	96	2,609				1,505,039	
				GAS	3,959,802	2228	1885	2522	1352	1173	1387	866	856	645	189	135	128	13,366				3,973,168	
				WAT	316,737	2249	1885	2522	1829	78	79	2248	2026	2275	2225	1389	1298	20,103				336,840	
				INJ	128,721	18008	8722	14816	19310	21301	18274	10961	11851	11265	12224	4194	1199	152,125				280,846	
AVERAGE BBLS/WELL																							
						39	32	57	46	64	47	49	69	72	50	39	48	612				612	



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

5-25-89

#8780

May 22, 1989

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

Attention: Mr. Joe Lara,  
Assistant District Manager of Minerals

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

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

RECEIVED

MAY 24 1989

OIL CONSERVATION DIV.  
SANTA FE

Re: Plan of Operation, 1989-1990  
Bluitt San Andres Unit ("the Bluitt Unit")  
Roosevelt County, New Mexico

Gentlemen:

Pursuant to the provisions of Section 11 of the Unit Agreement, Murphy Operating Corporation ("MOC"), Unit Operator of the Bluitt 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 1987-1988.**

Injection into one (1) injection well (#13-15) located in the pilot waterflood area began in January, 1988 and has continued uninterrupted to present. Injection into Well #13-7 began in August, 1988 and has continued uninterrupted to present. Beginning in October, 1988, waterflood response at producing Well #18-12 occurred and is continuing to present.

**II. Proposed Plan of Operation, 1989.**

To facilitate expansion of the waterflood project, MOC is currently developing a supplemental water supply source to service the unit area. This development includes the drilling of at least one and possibly as many as three water wells. Approximately 8 miles of 6" PVC pipe will be installed to deliver supplemental water to the Bluitt Unit injection station. Upon completion of the supplemental water supply system, MOC will initiate injection into Wells #18-5 and 18-13. These wells will be monitored for approximately 90 days and, if evidence of preferential fracturing does not occur, injection into Wells #13-9 and #13-11 will begin. Injection into wells #13-9 and #13-11 will be monitored for approximately 90 days and, if performance is satisfactory, MOC will propose full-field development utilizing the proposed injection pattern as shown on Exhibit 1. This will include the conversion from producers to injectors of six (6) additional wells (#12-13, #13-3, #13-5, #19-3, #24-1, #24-3).

III. Further Development.

MOC plans, barring premature water breakthrough or some other unforeseeable reservoir condition, to recommend full-field development of this field in late 1989. It is anticipated that this unit will continue to be developed utilizing the proposed five (5) spot injection pattern where appropriate. Full-field development may require the drilling of seven (7) new wells in early-mid 1990. The proposed status and legal location of these wells are listed below.

<u>Location</u>	<u>Proposed Status</u>
Township 8 South, Range 37 East, N.M.P.M. Roosevelt County, New Mexico	
Unit A, Section 13	Injector
Unit B, Section 13	Producer
Unit D, Section 13	Producer
Unit F, Section 13	Producer
Unit P, Section 13	Producer
Township 8 South, Range 38 East, N.M.P.M. Roosevelt County, New Mexico	
Unit K, Section 18	Injector
Unit N, Section 18	Producer

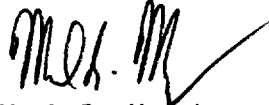
IV. Modification.

Subject to your 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.

For your information and file, I have enclosed herewith as Exhibits 1, 2, and 3 respectively, a map labeled "Well Location and Status", a reservoir performance curve, and 1988 Tabulated Production and Injection Data. Should you have any questions or comments, please feel free to contact me.

Sincerely,

MURPHY OPERATING CORPORATION



Mark B. Murphy  
President and Chief Operating Officer

MBM/js

Enclosures: Bluit San Andres Unit Well Locations and Status Map  
Bluit San Andres Unit Reservoir Performance Curve; and  
Bluit San Andres Unit 1988 Tabulated Production and Injection Data

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

MURPHY OPERATING CORPORATION

BLUETT LOWER SAN ANDRES UNIT  
ROOSEVELT COUNTY, N.M.

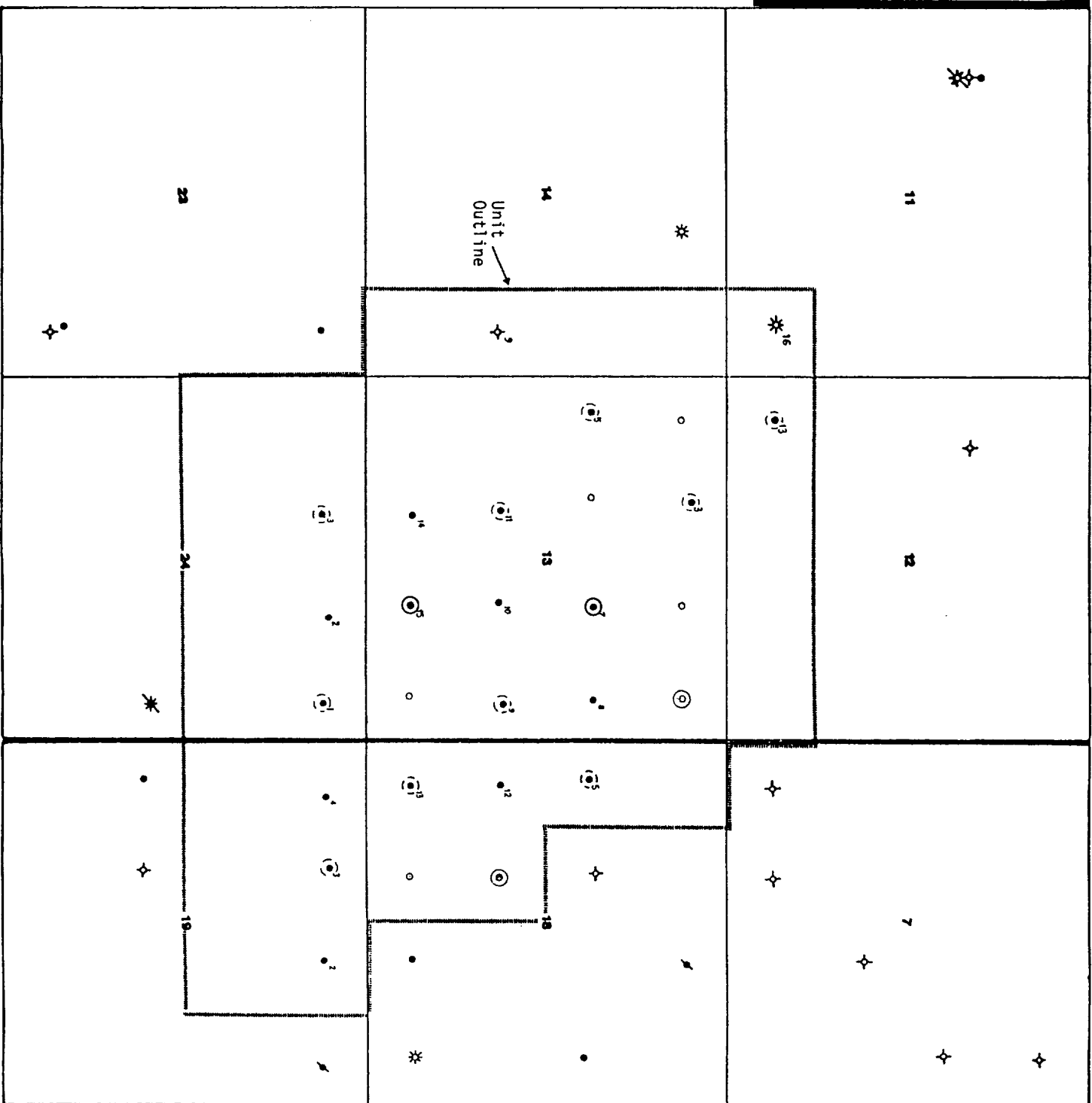
WELL LOCATIONS

STATUS

EXPLANATION

- Prod. Loc.
- ⊙ Inj. Loc.
- ✱ Dry & Aband.
- ✱ Gas Well
- Prod.
- ⊙ Inj.
- ✱ P&A
- ✱ Orig. Disposal Well
- ⊙ Proposed Inj. Well

February, 1989

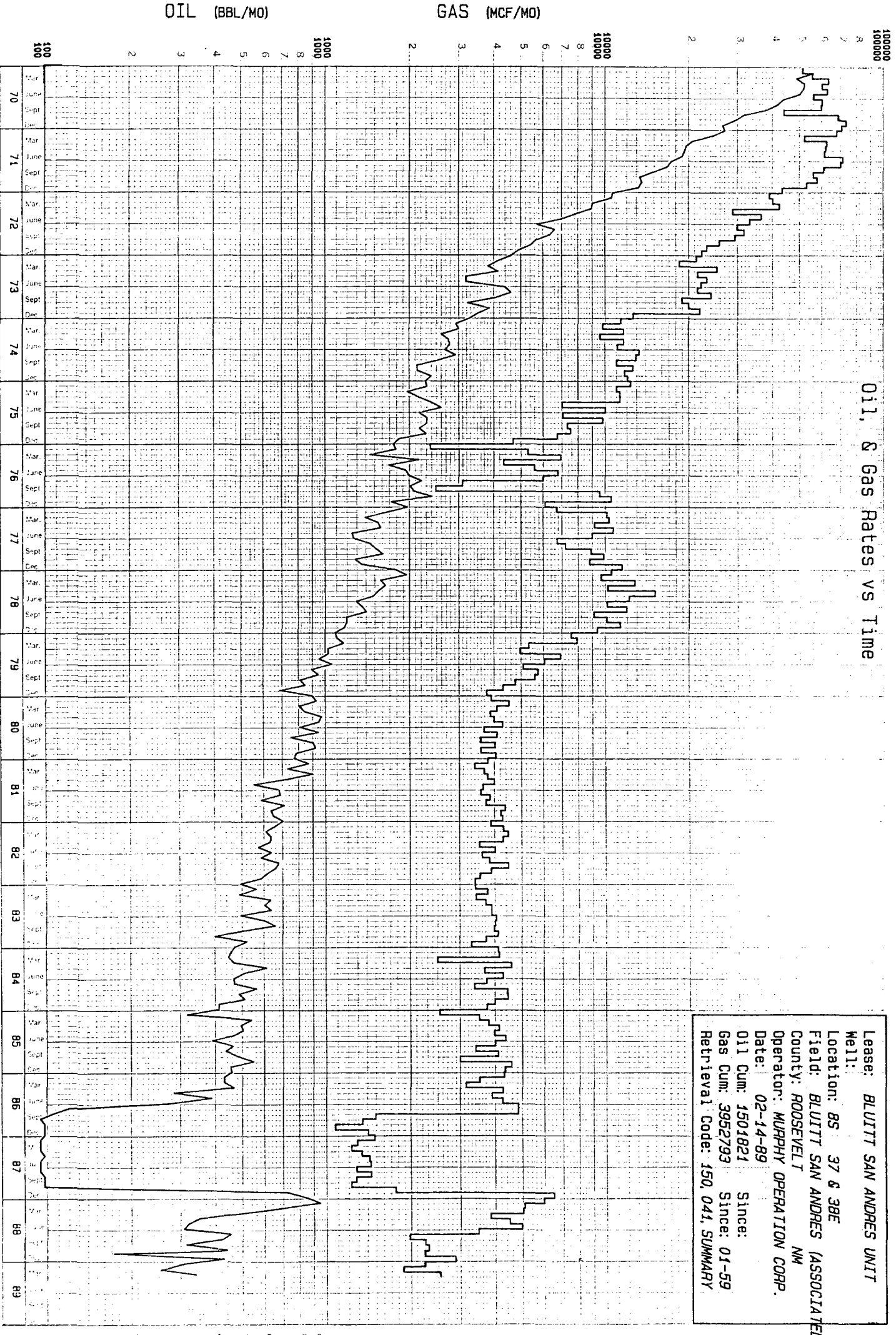


T-85

T-85

Oil, & Gas Rates vs Time

Lease: BLUITT SAN ANDRES UNIT  
Well:  
Location: 85 37 & 38E  
Field: BLUITT SAN ANDRES (ASSOCIATED)  
County: ROOSEVELT NM  
Operator: MURPHY OPERATION CORP.  
Date: 02-14-89 Since:  
Oil Cum: 1501821  
Gas Cum: 3952793 Since: 01-59  
Retrieval Code: 150, 041, SUMMARY





MURPHY OPERATING CORPORATION  
4TH QUARTER PRODUCTION REPORT  
JANUARY 01, 1989

PRODUCTION

BLUITT SAN ANDRES ASSOCIATED POOL

BLUITT SAN ANDRES UNIT

Computer LEASE NAME, S T R				CUMULATIVE 1988												1988		Cum.				
Well #	WELL			THRU 12/31/87	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL	TOTALS				
Bluitt Section 13 Lease No. NM 044216																						
020003	3 C	13-T8S-R37E	P	OIL	111,911	0	0	0	0	0	0	0	0	0	0	0	0	111,911				
				GAS	410,497	3501	2478	1676	1436	1336	1901	1181	0	0	0	0	13,509	424,006				
				WAT	1,000	0	0	0	0	0	0	0	0	0	0	0	0	1,000				
020004	5 E	13-T8S-R37E	T	OIL	27,080	0	0	0	0	0	0	0	0	0	0	0	0	27,080				
				GAS	184,249	4	2	1	1	1	4	1	5	16	12	10	15	72	184,321			
				WAT	341	0	0	0	0	0	0	0	0	0	0	0	0	341				
020005	7 G	13-T8S-R37E	I	OIL	122,508	21	27	47	36	0	0	0	0	0	0	0	131	122,639				
				GAS	346,799	18	12	9	6	5	9	5	21	61	50	41	0	237	347,036			
				WAT	1,059	90	252	106	88	0	0	0	0	0	0	0	0	536	1,595			
				INJ												8802	9859	10079	7297	9077	45,114	45,114
020006	8 H	13-T8S-R37E	P	OIL	95,888	33	0	0	0	0	0	31	0	7	0	0	0	71	95,959			
				GAS	196,775	40	30	18	12	10	12	8	34	98	81	67	70	480	197,255			
				WAT	4,243	32	0	0	0	0	30	0	59	0	0	0	0	121	4,364			
020009	11 K	13-T8S-R37E	P	OIL	116,059	52	61	42	31	43	37	22	42	9	42	0	25	406	116,465			
				GAS	314,786	29	25	16	14	12	15	10	42	121	99	83	80	546	315,332			
				WAT	2,071	250	274	148	118	138	111	70	254	88	223	0	115	1,789	3,860			
020010	14 N	13-T8S-R37E	P	OIL	98,746	20	31	25	26	36	29	27	17	5	27	0	0	243	98,989			
				GAS	288,474	55	61	44	43	42	60	38	160	462	379	315	335	1,994	290,468			
				WAT	3,909	160	195	99	88	81	65	61	336	119	284	0	0	1,488	5,397			
BATTERY #1 TOTAL				OIL	572,192	126	119	114	93	79	66	80	59	21	69	0	25	851	573,043			
(Baetz Fed.#4, Kgs #1, #3, #2 & #5)				GAS	1,741,580	3647	2608	1764	1512	1406	2001	1243	262	758	621	516	500	16,838	1,758,418			
				WAT	12,623	532	721	353	294	219	176	161	590	266	507	0	115	3,934	16,557			
				INJ									8802	9859	10079	7297	9077	45,114	45,114			

Bluitt Section 13 Lease No. NM 044216																				
020007	9 I	13-T8S-R37E	P	OIL	151,416	134	115	79	47	70	65	39	47	47	41	0	7	691	152,107	
				GAS	317,647	0	0	0	0	0	0	0	0	0	0	0	0	0	0	317,647
				WAT	3,093	283	50	410	247	170	156	94	104	91	169	0	143	1,917	5,010	
020008	10 J	13-T8S-R37E	P	OIL	130,732	36	0	0	0	0	0	35	40	32	26	0	38	207	130,939	
				GAS	289,251	0	0	0	0	0	0	0	0	0	0	0	0	0	289,251	
				WAT	3,181	272	0	0	0	0	0	263	70	77	128	0	67	877	4,058	
020011	15 O	13-T8S-R37E	I	OIL	8,047	0	0	0	0	0	0	0	0	0	0	0	0	0	8,047	
				GAS	35,206	0	0	0	0	0	0	0	0	0	0	0	0	0	35,206	
				WAT	1,780	0	0	0	0	0	0	0	0	0	0	0	0	0	1,780	
				INJ	2314	2314	2112	1175	1217	5566	20333	10236	10805	9659	9225	8651	83,607	83,607		
					@0	@0	@0	@0	@0	@0	@0	@600	@0	@0	@0	@0	@0			

MURPHY OPERATING CORPORATION  
4TH QUARTER PRODUCTION REPORT  
JANUARY 01, 1989

PRODUCTION  
BLUITT SAN ANDRES ASSOCIATED POOL

BLUITT SAN ANDRES UNIT

Computer LEASE NAME, Well # WELL S T R STATUS						CUMULATIVE THRU 12/31/87												1988	1988 CUM.			
						JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL	TOTALS			
BATTERY #2 TOTAL						OIL	290,195	170	115	79	47	70	65	74	87	79	67	0	45	898	291,093	
(Bluitt Fed.#1,#2,#3 & Fed.E #2)						GAS	642,104	0	0	0	0	0	0	0	0	0	0	0	0	0	642,104	
						WAT	8,054	555	50	410	247	170	156	357	174	168	297	0	210	2,794	10,848	
						INJ	2314	2314	2112	1175	1217	5566	20333	10236	10805	9659	9225	8651	83,607	83,607		
Bluitt Section 11 Lease No. NM 041698A						OIL	40,298	0	0	0	0	0	0	0	0	0	0	0	0	0	40,298	
020001 16 P 11-T8S-R37E S						GAS	734,728	0	0	0	0	0	0	0	0	0	0	0	0	0	734,728	
						WAT	21,542	0	0	0	0	0	0	0	0	0	0	0	0	21,542		
Bluitt Section 12						OIL	11,891	0	0	42	20	3	0	0	0	0	0	0	0	65	11,956	
020002 13 M 12-T8S-R37E F						GAS	77,152	45	0	37	48	133	386	410	446	470	479	465	461	3,380	80,532	
						WAT	0	0	0	74	106	86	0	0	0	0	0	0	0	266	266	
Bluitt Section 14						OIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
020012 9 I 14-T8S-R37E T						GAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
						WAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BATTERY #3 TOTAL						OIL	52,189	0	0	42	20	3	0	0	0	0	0	0	0	65	52,254	
(Kirkpatrick Federal #1, #5, #7)						GAS	811,880	45	0	37	48	133	386	410	446	470	479	465	461	3,380	815,260	
						WAT	21,542	0	0	74	106	86	0	0	0	0	0	0	0	266	21,808	
Bluitt Section 19 Lease No. NM 04421 B						OIL	67,672	266	185	88	91	62	76	65	41	37	50	0	11	972	68,644	
020017 3 C 19-T8S-R38E P						GAS	20,881	0	0	179	70	81	10	0	0	0	0	0	0	340	21,221	
						WAT	135,995	207	439	353	218	317	388	332	215	294	222	0	160	3,145	139,140	
Bluitt Section 24 Lease No. NM 0137105						OIL	78,980	137	103	49	0	0	32	26	62	31	42	0	48	530	79,510	
020019 1 A 24-T8S-R37E P						GAS	80,040	0	0	99	39	44	5	0	0	0	0	0	0	187	80,227	
						WAT	57,023	441	386	288	0	0	186	151	149	198	187	0	275	2,261	59,284	
Bluitt Section 24 Lease No. NM 04421 C						OIL	75,215	0	67	43	49	59	31	32	0	29	24	0	26	360	75,575	
020020 2 B 24-T8S-R37E P						GAS	96,469	0	0	87	34	40	5	0	0	0	0	0	0	166	96,635	
(Ingram's Federal "E")						WAT	31,629	0	219	160	146	194	102	106	0	243	176	0	115	1,461	33,090	
BATTERY #4 TOTAL						OIL	221,867	403	355	180	140	121	139	123	103	97	116	0	85	1,862	223,729	
(McCaw Federal #1)						GAS	197,390	0	0	365	143	165	20	0	0	0	0	0	0	693	198,083	
						WAT	224,647	648	1044	801	364	511	676	589	364	735	585	0	550	6,867	231,514	

MURPHY OPERATING CORPORATION  
4TH QUARTER PRODUCTION REPORT  
JANUARY 01, 1989

PRODUCTION  
BLUITT SAN ANDRES ASSOCIATED POOL

BLUITT SAN ANDRES UNIT

Computer LEASE NAME, Well #	WELL	S T R	STATUS	CUMULATIVE THRU 12/31/87	1988 JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	1988 TOTAL	CUM. TOTALS
Bluitt Section 18 Lease No. NM 0509201																		
020014	12 L	18-T8S-R38E	P	OIL	145,914	140	25	0	0	0	61	52	68	151	175	193	865	146,779
				GAS	127,979	1188	1309	1482	1460	1552	541	11	0	0	0	799	9,741	137,720
				WAT	6,077	39	17	0	0	0	48	207	114	257	35	16	733	6,810
020015	13 M	18-T8S-R38E	P	OIL	98,576	26	0	0	0	0	0	0	0	0	0	0	26	98,602
				GAS	69,083	0	0	0	0	0	0	0	0	0	0	0	0	69,083
				WAT	2,603	377	0	0	0	0	0	0	0	0	0	0	377	2,980
Bluitt Section 18 Lease No. NM-044216E																		
020013	5 E	18-T8S-R38E	P	OIL	22,710	0	15	26	8	6	24	53	0	0	0	0	137	22,847
				GAS	13,357	0	0	0	0	0	0	0	0	0	0	0	0	13,357
				WAT	5,583	0	149	112	70	85	56	18	0	0	0	0	565	6,148
Bluitt Section 19																		
020018	4 D	19-T8S-R37E	P	OIL	61,717	7	4	0	0	0	46	54	0	0	0	0	111	61,828
				GAS	73,366	0	0	0	0	0	0	0	0	0	0	0	0	73,366
				WAT	15,821	139	406	0	0	0	296	382	0	0	0	0	1,223	17,044
BATTERY #6 TOTAL																		
				OIL	328,917	173	44	26	8	6	131	159	68	151	175	193	1,139	330,056
				GAS	283,785	1188	1309	1482	1460	1552	541	11	0	0	0	799	9,741	293,526
				WAT	30,084	555	572	112	70	85	75	400	607	114	257	35	16	2,898
(Shaw Federal #1, #2, & Roden Bluitt #1, #2)																		
Bluitt Section 19 Lease No. NM-0358539																		
020016	2 B	19-T8S-R38E	P	OIL	31,647	95	68	60	48	47	39	54	23	46	0	72	608	32,255
				GAS	237,908	1170	1241	1452	734	1317	1251	1328	1291	1066	1257	1259	1137	14,503
				WAT	1,988	24	99	112	94	146	121	167	48	59	168	0	2	1,040
BATTERY #7 TOTAL																		
				OIL	31,647	95	68	60	48	47	39	54	23	46	0	72	608	32,255
				GAS	237,908	1170	1241	1452	734	1317	1251	1328	1291	1066	1257	1259	1137	14,503
				WAT	1,988	24	99	112	94	146	121	167	48	59	168	0	2	1,040
(Baumgartner's USA Fed. #1)																		
				OIL	31,647	95	68	60	48	47	39	54	23	46	0	72	608	32,255
				GAS	237,908	1170	1241	1452	734	1317	1251	1328	1291	1066	1257	1259	1137	14,503
				WAT	1,988	24	99	112	94	146	121	167	48	59	168	0	2	1,040
BLUITT SAN ANDRES UNIT TOTAL																		
				OIL	1,497,007	967	701	501	356	326	314	462	431	321	449	175	420	5,423
				GAS	3,914,647	6050	5158	5100	3897	4573	5057	3522	2010	2294	2357	2240	2897	45,155
				WAT	298,938	2314	2486	1862	1175	1217	1204	1674	1783	1342	1814	35	893	17,799
				INJ		2314	2314	2112	1175	1217	5566	20333	19038	20664	19738	16522	17728	128,721
AVERAGE BLS/WELL																		
					81	64	50	40	41	39	39	39	43	32	50	175	53	



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

**TONEY ANAYA**  
GOVERNOR

**January 9, 1986**

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Mr. Calder Ezzell  
Hinkle, Cox, Eaton,  
Coffield & Hensley  
Attorneys at Law  
Post Office Box 2068  
Santa Fe, New Mexico

Dear Sir:

Re: CASE NO. 8779  
ORDER NO. R 8117

Applicant:

~~Murphy Operating Corporation~~

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

*B. L. Lamb*

R. L. STAMETS  
Director

RLS/fd

Copy of order also sent to:

Hobbs OCD	<u>x</u>
Artesia OCD	<u>x</u>
Aztec OCD	

Other \_\_\_\_\_

# HINKLE, COX, EATON, COFFIELD & HENSLEY

LEWIS C. COX  
PAUL W. EATON  
CONRAD E. COFFIELD  
HAROLD L. HENSLEY JR.  
STUART D. SHANOR  
C. D. MARTIN  
PAUL J. KELLY JR.  
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PAUL M. BOHANNON  
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RICHARD A. SIMMS  
DEBORAH NORMWOOD  
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NANCY S. CUSACK

JEFFREY L. BOWMAN

OF COUNSEL  
CLARENCE E. HINKLE  
ROY C. SNODGRASS, JR.  
O. M. CALHOUN  
MACK EASLEY  
GORDON L. LLEWELLYN

W. E. BONDURANT, JR. (1913-1973)  
ROBERT A. STONE (1905-1981)

\*NOT LICENSED IN NEW MEXICO

JEFFREY L. FORNACIARI  
ROBERT D. SIMPSON  
DAVID L. SPOEDE  
JEFFREY D. HEWETT  
JAMES BRUCE  
ALBERT L. PITT  
THOMAS D. HAINES JR.  
THOMAS M. HNASKO  
MICHAEL F. MILLERICK  
GREGORY J. NIBERT  
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JAMES M. HUDSON  
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AMARILLO, TEXAS 79101  
(806) 372-5569

218 MONTEZUMA  
POST OFFICE BOX 2068  
SANTA FE, NEW MEXICO 87504  
(505) 982-4554

December 30, 1985

Mr. David Catanach  
Oil Conservation Division  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Murphy Operating - Bluitt Unit

Dear David:

Please find enclosed herewith a copy of a letter  
from Francis Cherry giving federal approval to the Bluitt Unit.

Best wishes for the new year!

Very truly yours,

HINKLE, COX, EATON, COFFIELD & HENSLEY



T. Calder Ezzell, Jr.

TCE/tw  
Enclosure



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Roswell District Office

P. O. Box 1397

Roswell, New Mexico 88201

IN REPLY  
REFER TO:

NM061P35-86C331  
3180 (065)

Murphy Operating Corporation  
P. O. Box 2648  
Roswell, New Mexico 88201

DEC 20 1985

Gentlemen:

One approved copy of the Bluitt San Andres Unit Agreement, Roosevelt County, New Mexico, filed on behalf of Murphy Operating Corporation, is enclosed. Such agreement has been assigned No. NM-061P35-86U331. Our approval is contingent upon approval by N.M.O.C.D. of statutory unitization and will become effective upon submittal of Certificate of Effectiveness pursuant to section 23 of the unit agreement.

Sincerely,

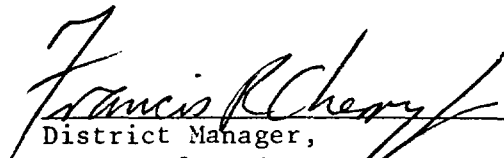
Francis R. Cherry, Jr.  
District Manager

Enclosure

CERTIFICATION--DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior, the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C., secs. 181, et seq., and delegated to the District Manager, Bureau of Land Management, I do hereby:

- A. Approve the attached agreement for the development and operation of the Bluit San Andres unit area, State of New Mexico.
- B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.
- C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

  
District Manager,  
Bureau of Land Management

December 20, 1985  
Date

NM061P35-86C331  
Contract No.



## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Roswell District Office

P. O. Box 1397

Roswell, New Mexico 88201

IN REPLY  
REFER TO:

Bluitt San Andres

May 9, 1984

Murphy Operating Corporation  
Attention: A. J. Murphy  
P.O. Drawer 2648  
Roswell, NM 88201

Gentlemen:

Your application of February 17, 1984, filed with the Bureau of Land Management, Roswell, New Mexico, requested the designation of the Bluitt San Andres unit area, embracing 1800 acres, more or less, as logically subject to operations under the unitization provision of the Mineral Leasing Act as amended.

Pursuant to unit plan regulations 43 CFR 3186, the land requested as outlined on your plat "Exhibit "A" Bluitt San Andres Unit, Roosevelt County, New Mexico" is hereby designated as a logical unit area for the purpose of conducting secondary recovery operations by waterflooding and will be limited to the San Andres formation as defined by Section 2(h) of the unit.

Your basis for allocation of unitized substances and your proposed form of unit are acceptable with the following modification.

1. The tract numbers should be renumbered from the older to younger leases.

If conditions are such that further modification to the agreement is deemed necessary, three copies of the proposed modifications with appropriate justification must be submitted to this office through the District Manager, Bureau of Land Management, for preliminary approval.

In the absence of any other type of land requiring special provisions or of any objection 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 agreement 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 District Manager, Roswell, New Mexico for approval include the latest status of all acreage. In preparation of Exhibits "A" and "B", follow closely the format of the sample exhibits attached to the standard form of unit agreement for unproved areas.

Sincerely yours,

A handwritten signature in cursive script, reading "Richard Masten".

District Manager

Associate

Enclosure:



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Roswell District Office

P. O. Box 1397

Roswell, New Mexico 88201

IN REPLY  
REFER TO:

3180 (065)

Bluitt San Andres Unit

NOV 21 1985

Murphy Operating Corporation

Attention: Jo McInerney

P. O. Drawer 2648

Roswell, New Mexico 88201

Gentlemen:

The Proposed Bluitt San Andres Unit area, embracing 1800 acres, more or less, in Roosevelt County, New Mexico was designated as a logical unit area for the purpose of conducting secondary recovery operations by waterflooding by our letter of May 9, 1985. This designation still remains in force and effect.

We are in receipt of the unit agreement, Exhibits "A" and "B" and the unit operating agreement for the Bluitt San Andres unit and are in the process of reviewing the agreement and Exhibits. We will contact you in the event any modifications need to be made in order to facilitate and expedite the approval of this unit when final approval is requested.

We understand that this unit will be brought before the NMOCD for a hearing on statutory unitization. Please keep our office advised of the progress and eventual outcome of this hearing as it may affect the conveyance of this agreement.

Should you have any questions, or we can be of further assistance in matter, please contact Margie V. Delgado at (505) 622-9042.

Sincerely,

Francis R. Cherry, Jr.  
District Manager

IN CONCORDANCE WITH DIVISION  
DEC 14 1993

8780

PLAINS  
PETROLEUM  
OPERATING  
COMPANY

December 14, 1993

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

Re: Bluit 13 Federal #6 &  
Bluit 13 Federal #15  
Sec. 13, T8S, R37E; and  
Bluit 18 Federal #11,  
Sec. 18, T8S, R38E,  
Roosevelt County, New Mexico

Gentlemen:

The above captioned wells were originally drilled on standard locations for an oil well in the Bluit San Andres Associated field. Production generally declined on the Unit wells until, (1) they were uneconomical to operate, (2) had no remaining reserves, and (3) were not capable of producing oil. The locations are as follows:

<u>Well Name</u>	<u>Total Depth</u>	<u>Plug Back</u>	<u>Legal Description</u>
Bluit San Andres Unit Sec. 13 #6	4820'		F-1980' FNL & 1980' FWL, Sec. 13
Bluit 13 Federal #6		4610'	NM-43715 & NM044216 *
Bluit San Andres Unit. Sec. 18 #11	4940'		K-1980' FSL & 1980' FWL, Sec. 18
Bluit 18 Federal #11		4700'	NM-0509201
Bluit San Andres Unit. Sec. 13 #15	4745'		O-660' FSL & 1980' FEL, Sec. 13
Bluit 13 Federal #15		4589'	NM-044216

On 9-4-93 the Bluit San Andres Unit Sec. 13 #6 well was re-entered, a CIBP was set at 4610' with 2 sacks cement. The non-unitized P<sub>1</sub> San Andres zone was perforated from 4504'-4579', acidized and frac'd, swabbed and placed on production. A 4-point back pressure test was run 9-25-93 for AOF of 700.6 MCFD, name changed to Bluit 13 Federal #6 well. \* A Communitization Agreement, NMNM91000, involving 40 acres of land in Federal lease NM-43715 and 120 acres of land in Federal lease NM-044216 in Roosevelt County, New Mexico, comprising a 160 acre well spacing unit has been approved effective September 1, 1993 by the Bureau of Land Management.