### HINKLE, COX, EATON, COFFIELD & HENSLEY

ATTORNEYS AT LAW

700 UNITED BANK PLAZA POST OFFICE BOX IO

ROSWELL, NEW MEXICO 88202

(505) 622-6510

2800 CLAYDESTA NATIONAL BANK BUILDING POST OFFICE BOX 3580 MIDLAND, TEXAS 79702 (915) 683-4691

1700 TEXAS AMERICAN BANK BUILDING POST OFFICE BOX 9238 AMARILLO, TEXAS 79105 (806) 372-5569

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

OF COUNSEL O. M. CALHOUN MACK EASLEY STEPHEN L. ELLIOTT

LEWIS C, COX
PAUL W, EATON
CONRAD E, COFFIELD
HAROLD L, HENSLEY JR.
STUART D, SHANOR
FRANKLIN H, MCCALLUM\*
GREGORY J, NIBERT
PAUL J, KELLY JR.
DAVID T, MARKETTE\*

OWEN M. LOPEZ

DOUGLAS L. LUNSFORD FRED W. SCHWENDIMANN

T. CALDER EZZELL, JR.

WILLIAM B. BURFORD' JAMES M. HUDSON

MICHARD E. OLSON
RICHARD A. SIMMS
RICHARD R. WILPONG\*
STEVEN D. ARNOLD
JAMES J. WECHSLER
NANCY S. CUSACK
JEFFREY L. FORNACIARI
JEFFREY L. FORNACIARI
SIEGAN I. NIECCO\*

JEFFREY D. HEWETT\* SUSAN L. NIESER\*
JAMES BRUCE
JERRY F. SHACKELFORD\* GREGORY S. WHEELER
JEFFREY W. HELLBERG\* ANDREW J. CLOUTIER\*

MACDONNELL GORDON

PAUL J. KELLY, JR. OWEN M. LOPEZ

DOUGLAS L. LUNSFORD
T. CALDER EZZELL, JR.
WILLIAM B. BURFORD
RICHARD E. OLSON
RICHARD A. SIMMS
RICHARD R. WILFONG
STEVEN D. ARNOLD
JAMES J. WECHSLER
NANCY S. CUSACK
IEFERBY L. FORNACIARI

CLARENCE E. HINKLE (1901-1985) W. E. BONDURANT, JR. (1913-1973) ROY C. SNODGRASS, JR. (1915-198

\*NOT L'CENSED IN NEW MEXICO

September 20, 1988

Mr. David R. Catanach Oil Conservation Division Energy & Minerals Department P. O. Box 2088 Santa Fe, New Mexico 87504

Cases 9477 and 9478

Murphy Operating Corporation Haley Chaveroo

San Andres Unit

Dear David:

Pursuant to your request at the September 14, 1988 hearing on the captioned cases, please find enclosed supplemental C-108 data relative to all wells within the area of review; that is wells within 1/2 mile of a proposed injection well. This exhibit is submitted under the Affidavit of Mr. Bert H. Murphy, one of my expert witnesses, who entered our Exhibit 8 into evidence. As you noted, Exhibit 8 covered only the wells within 1/2 mile of the initial seven proposed injectors. Please accept this new Exhibit 8 in lieu of the Exhibit 8 which was entered into evidence at the hearing.

You had also requested that I submit the authority by which Skelly Oil Company, predecessor in title to Murphy Operating Corporation, was injecting water into the Hobbs "T" Well No. 11, located in Unit P of Section 33, Township 7 South, Range 33 East. well is within the unit and under the unit well numbering system, this well would be the Haley Unit Well No. 33-16. The authority to inject was pursuant to Order No. R-4597, entered in Case No. 5023 on July 23, 1973. A copy of this Order is attached.

After you have had a chance to review the new Exhibit 8, I will be discussing the waterflood order with you. As you will recall, you asked me to prepare a draft of this Order.

Mr. David Catanach September 20, 1988 Page Two

In addition, you will also find a plugging diagram for the Collier Energy, Inc. Mary Ella No. 1 well located in Unit D of Section 11, Township 8 South, Range 33 East. I assume because of the Collier bankruptcy this well was not shown as being plugged and abandoned, but when my client was researching it as being a well in the area of review, they discovered that it in fact had been plugged. I have enclosed three sets of the plugging diagram and Form C-103 which should be inserted in Exhibit 2 VI C as pages 53 and 54.

As you will recall from one of our discussions in Santa Fe, my clients are most anxious to have this unit approved by October 1st so that they may begin work on their injection plant in order to be injecting before winter weather sets in. Please advise me if there is anything that my clients or I can do to help expedite unit approval.

Thanking you in advance for your cooperation on this matter, I remain,

Yours very truly,

HINKLE, COX, EATON, COFFIELD & HENSLEY

T. Calder Ezzell, Jr.

TCE/tw Enclosures

# 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

September 21, 1988

## VIA FEDERAL EXPRESS

State of New Mexico Oil Conservation Division 310 Old Santa Fe Trail Santa Fe, New Mexico 87501

Attention: Mr. David R. Catanach

Energy & Minerals Department

Re: Murphy Operating Corporation's

Proposed Haley Chaveroo San Andres Unit

Exhibit III. File #2

Chaves & Roosevelt Counties, N.M.

Gentlemen:

During the compilation of the supplemental information to the C-108 which is enclosed, we were double checking the injection wells inside the proposed unit as captioned and found two errors under the Unit Well # column.

Please note on page 1 of 10, Well #3-4 should read #33-04 and on page 6 of 10, Well #34-1 should read Well #34-16. We have enclosed three sets of the two pages that show the correct well numbers.

We respectfully request that the Oil Conservation Division replace these pages in File #2 of the unit packages Murphy Operating Corporation previously mailed prior to our hearing on September 14, 1988.

Thank you for your attention to this matter and if you have any questions regarding any of the enclosed information, please don't hesitate to contact us.

Sincerely,

Jo McInerney

Landman

JM:dr

Enclosures: as stated

### STATE OF NEW MEXICO

# ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

October 5, 1983

POST OFFICE BOX 2038 STATE LAND OFFICE BUILDING SANTA FEINEW MEXICO B7501 (505) 827-5800

Mr. Calder Ezzell, Jr. Hinkle, Cox, Eaton, Coffield & Hensley Attorneys at Law Post Office Box 10 Roswell, New Mexico 88202	Re: CASE NO. 9477 ORDER NO. R-8750 Applicant: Murphy Operating Corporation
Dear Sir:	
Enclosed herewith are two copposition order recently entered	
Sincerely,	
Florene Davidson	
FLORENE DAVIDSON OC Staff Specialist	
Copy of order also sent to:  Hobbs OCD	
Other	

# State of New Mexico

SLO REF NO OG-864





# Commissioner of Public Lands

August 29, 1988

CASE FILE 202 W. GER

SANTA FE, NEW MEXICO 87504-1148

Case 94>>

Murphy Operating Corporation Attn: Ms. Ann Murphy Ezzell, Esq. P. O. Box 2648 Roswell, New Mexico 88202-2648

Re:

Proposed Haley Chaveroo S/A Unit Chaves and Roosevelt Counties, New Mexico

### Gentlemen:

This office has reviewed the unexecuted copy of unit agreement for the proposed Haley Chaveroo San Andres Unit, Chaves and Roosevelt Counties, New Mexico. This agreement meets the general requirements of the Commissioner of Public Lands and 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 submit the following:

- Application for formal approval by the Commissioner setting forth the tracts that have been committed and the tracts that have not been committed.
- All ratifications from the Lessees of Record and Working Interest Owners. All signatures should be acknowledged before a notary and one set must contain original signatures.
- Order of the New Mexico Oil Conservation Division. Our approval will be subject to like approval by the New Mexico Oil Conservation Division.

Murphy Operating Corporation August 24, 1988 Page 2

Enclosed is a copy of your agreement reflecting the date received in this office.

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

Very truly yours,

W. R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

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

WRH/FOP/pm encls. cc: OCD



# MURPHY OPERATING CORPORATION

UNITED BANK PLAZA, SUITE 300 400 NORTH PENNSYLVANIA AVENUE POST OFFICE BOX 2648

ROSWELL, NEW MEXICO 88202-2648

September 7, 1988

# CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. David R. Catanach, Examiner Oil Conservation Division Energy and Minerals Department State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87504-2088



TELEPHONE

505 623-7210

Re: SUBMITTAL OF RATIFICATION OF LESSEE

OF RECORD.

Proposed Haley Chaveroo San Andres Unit Chaves and Roosevelt Counties, New Mexico.

Dear Mr. Catanach:

I have enclosed herewith a copy of Murphy Operating Corporation's ("MOC") recent letter to the New Mexico State Land Office containing certain material fulfilling the requirements of their letter dated August 29, 1988 (copy enclosed herewith). To complete the requirements outlined in paragraph 2 of the State Land Office's correspondence, we have enclosed herewith three (3) original fully-executed and notarized ratifications from the sole Lessee of Record (other than MOC) in the Unit Area. We would very much appreciate your cooperation in placing these ratifications in the appropriate files previously submitted to your office.

We are gathering material in preparation for the hearings docketed as Case 9477 and 9478 on Wednesday, September 14, 1988. Should you need any additional material prior to the hearing, please feel free to contact me.

Sincerely,

MURPHY OPERATING CORPORATION

Ann Murphy Ezzell.

Ann Murphy Ezzell, Esq.

Ann Murphy Ezzell, Esq. Chairman and Chief Executive Officer

AME:fnr

Enclosures: as stated.



## 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

September 7, 1988

# CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Attention: Mr. Pete Martinez

Re: REQUEST FOR FINAL APPROVAL:

Proposed Haley Chaveroo San Andres Unit Chaves and Roosevelt Counties, New Mexico.

Gentlemen:

Reference is hereby made to your correspondence number SLO REF NO OG-864, dated August 29, 1988. In fulfillment of the additional requirements set forth in said correspondence, please be advised that:

- 1. Murphy Operating Corporation's ("MOC") original application for approval under cover letter dated August 19, 1988 contained three (3) sets of original unit documents executed (and notarized) by 100% of the working interest owners thereby committing to the Unit all tracts within the proposed Unit Area (see File 1-Exhibit "C"). (Except for the State of New Mexico, there are no royalty interests within the Unit Area.) Additionally, File 1-Exhibit "B" sets forth by tract a legal description of the lands and leases committed to the Unit.
- 2. To complete the requirements outlined in paragraph 2 of your correspondence, we have enclosed herewith three (3) original fully-executed and notarized ratifications from the sole Lessee of Record other than MOC. We would very much appreciate your cooperation in placing these ratifications in the appropriate files previously submitted to your office.
- 3. The fulfillment of the requirement of paragraph 3 of your correspondence (the Order of the New Mexico Oil Conservation Division) awaits the outcome of the hearings docketed as Case 9477 and 9478 on Wednesday, September 14, 1988.

If the material enclosed herewith completes the application process, please consider this letter to be Murphy Operating Corporation's formal request to the New Mexico State Land Office for final approval of the Haley Chaveroo San Andres Unit, subject to a like order by the New Mexico Oil Conservation Division.

Thank you for your prompt and courteous assistance in our unitization effort. Please let us know should you have any questions or need additional material.

Sincerely,

MURPHY OPERATING CORPORATION

Ann Murphy Ezzell, Esq. Chairman and Chief Executive Officer

Ann Murphy Eggell

AME: fnr

cc: Mr. David R. Catanach, Examiner THIS COPY IS FOR Oil Conservation Division Energy and Minerals Department State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87504-2088

# RATIFICATION OF AGREEMENT ENTITLED "UNIT AGREEMENT" HALEY CHAVEROO SAN ANDRES UNIT ROOSEVELT AND CHAVES COUNTIES, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, each of the undersigned owners of a record title interest or interests hereby acknowledges receipt of a true and correct copy of that certain agreement dated August 15, 1988, entitled "Unit Agreement, Haley Chaveroo San Andres Unit, Counties of Roosevelt and Chaves, 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 Haley Chaveroo San Andres Unit as initially constituted; and

WHEREAS, each of 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, each undersigned "Lessee of Record", 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 a record title 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, each of the undersigned parties has executed this instrument on the date set forth below opposite its signature.

	by SUN EXPLORATION AND PRODUCTION Entity: its Managing General Partner (Name of business entity if applicate	
WITNESS OR ATTEST:	By: Manual Hould (Signature of "Lessee of Record")	**************************************
DATE: 9-2-88	(Signature of "Lessée of Record")  Attorney-in-Fact Its:  (Signature and capacity as fiduciary if applicable)	Legal Los LA Land Lost Reg. Mg
STATE OF July COUNTY OF Dallas	_ )(	
of Sun Exploration and Pr	ument was acknowledged before me (bu), 196, by, Attorney-in-Fact oduction Company, Managing General OPERATING LIMITED PARTNERSHIP, a	
My Commission Expires:	MICHELE PRESTON  Notary Public. State of Texas  My Commission Expires 10:1/90  The state of Texas  My Commission Expires 10:1/90  The state of Texas  The state of Tex	

## RATIFICATION OF AGREEMENT ENTITLED "UNIT AGREEMENT" HALEY CHAVEROO SAN ANDRES UNIT ROOSEVELT AND CHAVES COUNTIES, NEW MEXICO

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> APPROV Legal C&LA Land Unit Reg. Mgr

ITNESS OR ATTEST:	SUN OPERATING LIMITED PARTNERSHIP  by SUN EXPLORATION AND PRODUCTION COMPAN  its Managing General Partner (Name of business entity if applicable)  By:  APPLICATION AND PRODUCTION COMPAN  [Name of business entity if applicable]	13.0
ATE:	(Signature of "Lessee of Record")  Land Unit Reg.	
9-2-88	Its: Attorney-in-Fact	
	(Signature and capacity as fiduciary if applicable)	
of Sun Exploration and Pro	)( ument was acknowledged before me  (b) , 19 8 , by  Attorney-in-Fact oduction Company, Managing General OPERATING LIMITED PARTNERSHIP, a	
My Commission Expires:	MICHELE PRESTON Notary Public State of Texas My Commission Expires 10:1/90 My Commission Expires 10:1/90	

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

September 7, 1988

# CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Attention: Mr. Pete Martinez

Re: REQUEST FOR FINAL APPROVAL:

Proposed Haley Chaveroo San Andres Unit Chaves and Roosevelt Counties, New Mexico.

### Gentlemen:

Reference is hereby made to your correspondence number SLO REF NO OG-864, dated August 29, 1988. In fulfillment of the additional requirements set forth in said correspondence, please be advised that:

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- 3. The fulfillment of the requirement of paragraph 3 of your correspondence (the Order of the New Mexico Oil Conservation Division) awaits the outcome of the hearings docketed as Case 9477 and 9478 on Wednesday, September 14, 1988.

If the material enclosed herewith completes the application process, please consider this letter to be Murphy Operating Corporation's formal request to the New Mexico State Land Office for final approval of the Haley Chaveroo San Andres Unit, subject to a like order by the New Mexico Oil Conservation Division.

Thank you for your prompt and courteous assistance in our unitization effort. Please let us know should you have any questions or need additional material.

Sincerely,

MURPHY OPERATING CORPORATION

Ann Murphy Ezzell, Esq. Chairman and Chief Executive Officer

Ann Murphy Eggell

AME: fnr

cc: Mr. David R. Catanach, Examiner Oil Conservation Division Energy and Minerals Department State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87504-2088

BEFORE EXAMINER CATANACH OIL CONSERVATION DIVISION \_ EXHIBIT NO. \_ CASE NO. -

# RATIFICATION OF AGREEMENT ENTITLED "UNIT AGREEMENT" HALEY CHAYEROO SAN ANDRES UNIT ROOSEVELT AND CHAVES COUNTIES, NEW MEXICO

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	SUN OPERATING LIMITED PARTNERS by SUN EXPLORATION AND PRODUCTION its Managing General Partner (Name of business entity if applicab	COMPANY
VITNESS OR ATTEST:	By: M. Heuli (Signature of "Lessee of Record")	APPR
DATE:	Attorney-in-Fact	C & LA
9-22-88	<pre>Its:     (Signature and capacity as fiduciary         if applicable)</pre>	Reg. M
1		
STATE OF Mas	)(	
COUNTY OF Dallas	)(	
this 2 day of Septems	, Attorney-in-Fact	·
of Sun Exploration and Pro Partner on behalf of SUN limited partnership.	oduction Company, Managing General OPERATING LIMITED PARTNERSHIP, a	
My Commission Expires:	MICHELE PRESTON 8  Motary Public. State of Toxas 8  My Commission Expires 10:1/90 8	

ನ್ನು ನಿರ್ವಹಿಸಲಾ ಹಾಗೆ ನಿರ್ದಹಿಸಲಾ ಹಿಸು ತಿನ್ನಹಿಸಲಾ ಹಿಸು ತಿನ್ನಹಿಸಿಸ

Unit Peg. Mg.

# State of New Mexico

SLO REF NO OG-864







# Commissioner of Public Lands

August 29, 1988

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

Murphy Operating Corporation Attn: Ms. Ann Murphy Ezzell, Esq. P. O. Box 2648 Roswell, New Mexico 88202-2648

Re:

Proposed Haley Chaveroo S/A Unit Chaves and Roosevelt Counties, New Mexico

### Gentlemen:

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

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- 1. Application for formal approval by the Commissioner setting forth the tracts that have been committed and the tracts that have not been committed.
- 2. All ratifications from the Lessees of Record and Working Interest Owners. All signatures should be acknowledged before a notary and one set must contain original signatures.
- Order of the New Mexico Oil Conservation Division. Our approval will be subject to like approval by the New Mexico Oil Conservation Division.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT, NO.
CASE NO:

Murphy Operating Corporation August 24, 1988 Page 2

Enclosed is a copy of your agreement reflecting the date received in this office.

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

Very truly yours,

W. R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

BY: YOur O FRANDO, Director Oil and Gas Division (505) 827-5744

WRH/FOP/pm encls. cc: OCD

### EXHIBIT XIII.

# PROPOSED HALEY CHAVEROO SAN ANDRES UNIT SUPPLEMENTAL DATA REQUIRED BY FORM C-108

## LEASEHOLD OPERATORS WITHIN ONE-HALF MILE OF PROPOSED UNIT AREA.

- Mr. Tommy Willyard, Jr.
  Myco Petroleum Company
  Route 1, Box 104
  Lovington, New Mexico 88260
  - Mr. Cliff Hjelm, President Mims Texas Oil & Gas Company 7060 South Yale, Suite 707 Tulsa, Oklahoma 74136
  - Ms. Gayla Grosbeck Milford Oil Company Post Office Box 427 Tatum, New Mexico 88267
  - Mr. Bill Graham, President Chaveroo Operating Company, Inc. 4800 San Felipe, Suite 620 Houston, Texas 77056
  - X Mr. Craig Schraub, Region Landman Marathon Oil Company Post Office Box 552 Midland, Texas 79702
  - Mr. Alan Roberts
    Manager, U. S. Onshore Production
    Kerr-McGee Corporation
    Post Office Box 25861
    Oklahoma City, Oklahoma 73125

- Mr. Steve Moses, Landman The Wil-Mc Oil Corporation Post Office Box 152510 Irving, Texas 75015-2510
- Mr. Randy G. Patterson, Land Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210
- Mr. Wylie Barrow, Regional Land Manger Union Oil Company of California Post Office Box 671 Midland, Texas 79702
- X Mr. Brian Sirgo
  Collier Energy Corporation
  Post Office Box 3551
  Midland, Texas 79702
- X Mr. Mike Hinze, Division Landman
  Tenneco Oil Company 7990 I H 10 West
  San Antonio, Texas 78230
- X Mr. R. A. See, Regional Land Manager Champlin Petroleum Company Union Pacific Resources Company Post Office Box 1257 Englewood, Colorado 80150

OWNER OF SURFACE OF THE LAND UPON WHICH PROPOSED INJECTORS ARE LOCATED.

X 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

Attention: Mr. Pete Martinez

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO
CASE NO.

Put your address in the "RETURN TO" Space on the	reverse side. Failure to do this will prevent this		rie reverse side. Pallure to do this will prevent th
card from being returned to you. The return receipt delivered to and the date of delivery. For additional from ster for fees and check box(es) for additional set	tee will provide you the name of the person less the following services are available. Consult rytice(s) requested, ddress. 2.   Restricted Delivery	Pur your address in the "RETURN TO" Space on card from being returned to you. The return receded in the case of cellwary. For additional postmaster for fees and check boxies) for additional 1. Show to whom delivered, date, and addressee (Extra charge)?  3. Article Addressed to:	ot fee will provide you the name of the person fees the following services are available. Consuservice(s) requested.
†(Extra charge)†	†(Extra charge)†	†(Extra charge)†	1(Extra charge)
3. Article Addressed to:	4. Article Number	3. Article Addressed to: Mr. Tormy Willyard, Jr.	4. Article Number
Mr. Craig Schraub, Region Landman	P 665 399 499	Myco Petroleum Company	P 665 399 490
Marathon Oil Company	Type of Service:	Route 1, Box 104	Type of Service:
Post Office Box 552	Certified COD	Lovington, New Mexico 88260	☐ COD
Midland, Texas 79702	Express Mail	3500, 110, 12, 100	Express Mail
	Always obtain signature of addressee or agent and DATE DELIVERED.		Always obtain signature of addressee or agent and DATE DELIVERED.
Signature – Addressee	8. Addressee's Address (ONLY if	5. Signature - Addressee	8. Addressee's Address (ONLY If
	requested and fee paid)	(x tom willing )	requested and fee paid)
. Signature – Agent		6. Signature - Agent	
Sommer Auterot		×	
Date of Delivery		7. Date of Delivery  -25-88	
8-22-38		PO F 2011 N. 1005	
* U.S.G.P.O. 1987-178-	268 DOMESTIC RETURN RECEIPT	rs Form 3811, Mar. 1987 * U.S.G.P.O. 1987-1	8-268 DOMESTIC RETURN RECS
SENDER: Complete items 1 and 2 when addition and 4.	nal services are desired, and complete items 3	SENDER: Complete items 1 and 2 when addition	onal services are desired, and complete items (
Que vous address in the "DETHEN TO" Chase on the	anieres alde. Estivas so de abla villi prevent abla 1	Put your address in the "RETURN TO" Space on th	e reverse side. Fallure to do this will prevent this
delivered to and the date of delivery. For additional fu	ses the following services are available. Consult	card from being returned to you. The return receip delivered to and the date of delivery. For additional postmester for fees and check box(es) for additional s	t fee will provide you the name of the person fees the following services are available. Consul
card from being returned to you. The return receipt delivered to and the date of delivery. For additional fe postmatter for fees and sheek box(ee) for additional serial.   Show to whom delivered, date, and addressed and	vice(s) requested. ddress. 2. D Restricted Delivery	1. U Show to whom delivered, date, and addressee's	sddress. 2. 🗆 Restricted Delivery
†(Extra charge)†  Article Addressed to:	1 (Extra charge) 1 4. Article Number	† (Extra charge)†	†(Extra charge)†
r. Alan Roberts	P 665 399 498	3. Article Addressed to: Mr. Cliff High Procident	4. Article Number  P. 665, 300, 455
nager, U. S. Onshore Production	Type of Service:	Mr. Cliff Hjelm, President Mims Texas Oil & Gas Company	P 665 399 455 Type of Service:
rr-McGee Corporation	☐ Registered ☐ Insured	7060 South Yale, Suite 707	Registered Insured
st Office Box 25861	☐ Certified ☐ COD	Tulsa, Oklahoma 74136	Certified COD
Clahoma_City, Oklahoma 73125	Express Mail	10130, ON 10110110 /7130	Express Mail
	Always obtain signature of addressee	•	Always obtain signature of addressee
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Mr. R. A. See, Regional Land Manager	P 665 399-496	Mr. Randy G. Patters	on. Land Manager	P 665 399 494
Champlin Petroleum Company	Type of Service:	Yates Petroleum Corp		Type of Service:
Union Pacific Resources Company	Registered Insured	106 South Fourth Str		Registered Insured
	☑ Certified ☐ COD	1		☑ Certified ☐ COD
Post Office Box 1257	☐ Express Mail	Artesia, New Mexico	88210	Express Mail
Englewood, Colorado 80150				Always obtain signature of addressee
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m. Floyd O. Frando, Director	P 665 399 487	Mr. Wylie Barrow, R	egional Land Manger	P 665 399 493
Oil and Gas Division	Type of Service:	Union Oil Company o		Type of Service:
State of New Mexico Commissioner of Public Lands	Registered Insured	Post Office Box 671		Registered Insured
	☐ Certified ☐ COD	Midland, Texas 797		CXCertified COD
Post Office Box 1148	Express Mail	Indiaid, lexas 797	ÚŽ	Express Mail
Santa Fe, New Mexico 87504-1148	Always obtain signature of addressee			
	or agent and DATE DELIVERED.			Always obtain signature of addressee
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•		Mr. Brian Sirgo		P 665 399 492
		Collier Energy Corpo	ation	Type of Service:
		Post Office Box 3551		Registered Insured
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		Midland, Texas 7970	<u> </u>	☐ Express Mail
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3. Article Addressed to:	4. Article Number
Mr. Mike Hinze, Division Landman	P 665 399 491
Tenneco Oil Company 7990 I H 10 West San Antonio, Texas 78230	Type of Service:  Registered Insured CS Certified COD Express Mail
	Always obtain signature of addressee or agent and DATE DELIVERED.
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PS Form 3811, Mar. 1987 + U.S.G.P.O. 1987-178-268	DOMESTIC RETURN RECEIPT

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PS Form 3811, Mar. 1987 \* U.S.G.P.O. 1997-178-268

SLO REF NO OG-864

# State of New Mexico







# Commissioner of Public Lands

August 29, 1988

CASE FUE 202 IL, FIXE

SANTA FE, NEW MEXICO 87504-1148

Case 94>>

Murphy Operating Corporation Attn: Ms. Ann Murphy Ezzell, Esq. P. O. Box 2648 Roswell, New Mexico 88202-2648

Re:

Proposed Haley Chaveroo S/A Unit Chaves and Roosevelt Counties, New Mexico

### Gentlemen:

This office has reviewed the unexecuted copy of unit agreement for the proposed Haley Chaveroo San Andres Unit, Chaves and Roosevelt Counties, New Mexico. This agreement meets the general requirements of the Commissioner of Public Lands and 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 submit the following:

- Application for formal approval by the Commissioner setting forth the tracts that have been committed and the tracts that have not been committed.
- All ratifications from the Lessees of Record and Working Interest Owners. All signatures should be acknowledged before a notary and one set must contain original signatures.
- Order of the New Mexico Oil Conservation Division. Our approval will be subject to like approval by the New Mexico Oil Conservation Division.

Murphy Operating Corporation August 24, 1988 Page 2

Enclosed is a copy of your agreement reflecting the date received in this office.

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

Very truly yours,

W. R. HUMPHRIES COMMISSIONER\_OF\_PUBLIC LANDS

BY: 4 Oml O Hamber FLOYD O. PRANDO, Director Oil and Gas Division (505) 827-5744

WRH/FOP/pm encls. cc: OCD



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

TELÉPHONE 505 623-7210

April 5, 1990

Mr. Floyd O. Prando
Director, Oil & Gas Division
State of New Mexico
Commissioner of Public Lands
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

Attention: Mr. David R. Catanach, Engineer

Re: PLAN OF OPERATION FOR 1990

Haley Chaveroo San Andres Unit Chaveroo San Andres Field Chaves & Roosevelt Counties, New Mexico

4-6-90 D-Unitletter Tha R

Gentlemen:

Pursuant to the provisions of Section 11A. of the Unit Agreement, Murphy Operating Corporation ("MOC"), designated Unit Operator of the Haley Chaveroo San Andres Unit, Chaves and Roosevelt Counties, 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.

Review of 1989: Injection into four (4) wells (#34-2, #34-4, #34-10 and #34-12) began in June and July, 1989 and has continued uninterrupted to present. Beginning in September, 1989 injection profiles (i. e. tracer surveys) were performed on each of the wells. Based upon the results of the injection profiles and the initial injection activity, three (3) additional wells (#33-8, #34-6, and #34-8) were converted to injection in November, 1989. In January, 1990 injection profiles were performed on the three additional injectors. As of March 1, 1990, over 350,000 barrels of water has been injected into the seven wells.

Beginning in May, 1989 nine (9) wells located in close proximity to the seven initial injection wells were worked over and returned to production. These producing well workovers include Wells #34-01, #34-03, #34-05, #34-07, #34-09, #34-11, #34-13, #34-14, and #34-15.

II. Proposed 1990 Plan of Operation: Based upon favorable indications, the working interest owners have elected to proceed with unit-wide development. This development will entail converting twelve (12) producing wells to injection status in order to establish a unit-wide five-spot injection pattern. The proposed injectors consist of Wells #33-02, #33-06, #33-10, #33-12, #33-14, #34-14, #34-16, #03-02, #03-06, #03-08, #03-10, and #03-16. Two (2) existing salt water disposal wells (#33-04 and #33-16) will also be converted to injection status.

An expansion of the injection system will be required in order to accommodate these additional injectors. The expansion will entail the installation of approximately forty-five thousand feet (45,000") of 4", 3" and 2" high-pressure fiberglass injection line. Two (2) high-volume, high-pressure injection pumps will also be installed which will increase injection capacity to approximately 16,000 BWPD.

The unit-wide development activity also requires the working over and returning to production of fifteen producing wells. These producers are Wells #33-01, #33-03, #33-05, #33-07, #33-09, #33-11, #33-13, #33-15, #34-13, #34-15, #03-01, #03-03, #03-07, #03-09, and #03-15.

In order to accommodate anticipated increased volumes of produced fluids, the existing six (6) tank batteries will be consolidated into three (3) larger facilities.

- Further Development: The ultimate development of the Haley Unit provides III. for the drilling of two (2) injection wells. These proposed injectors are to be located in the NW/NW and the SE/SW of Section 3, T8S-R33E. It is anticipated that these wells will be drilled in the second quarter of 1991.
- Operating Guidelines: MOC monitors all injection wells through daily rate and pressure checks. Approximately every 180 days, but at least once per IV. year, a tracer survey will be run on each injection well 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.
- Modification: Subject to 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

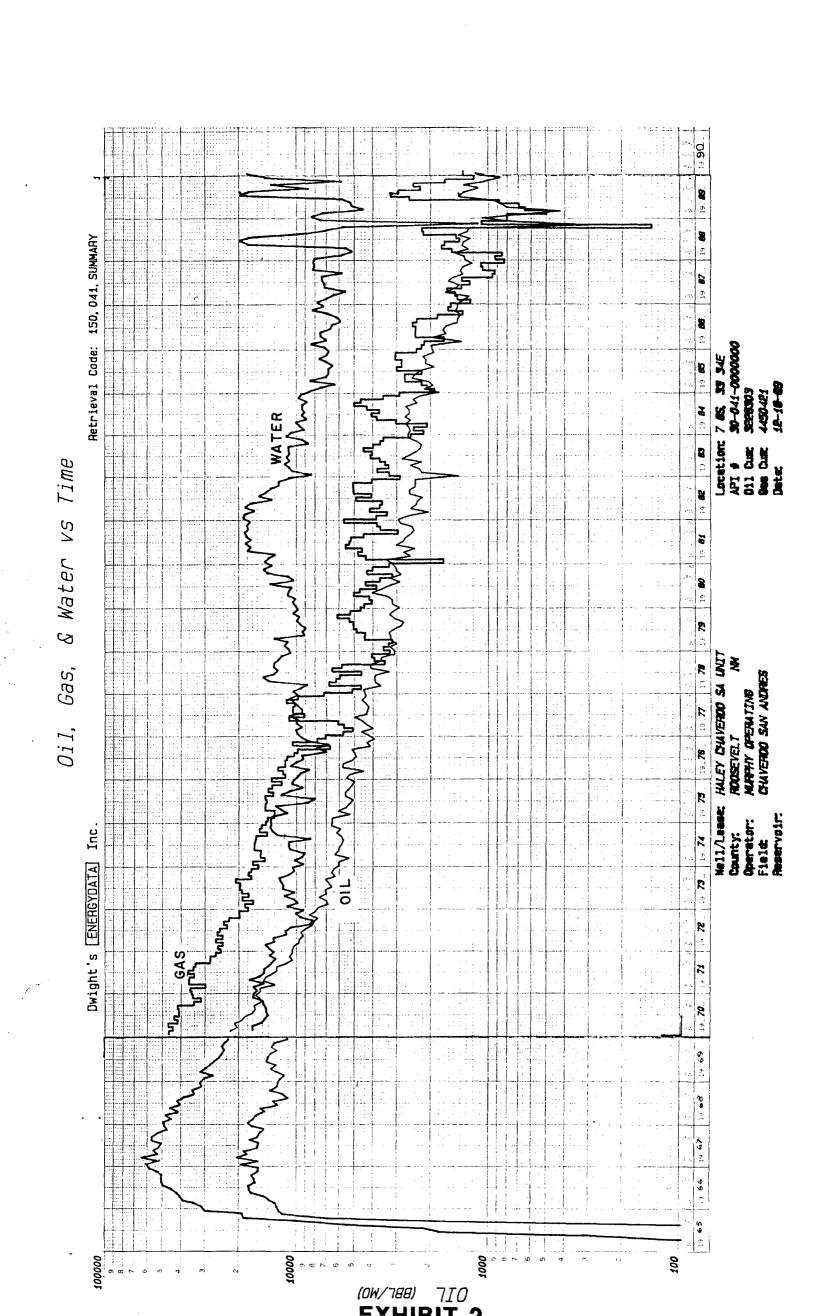
Enclosure:

Haley Chaveroo San Andres Unit Well Location and Status Map; Haley Chaveroo San Andres Unit Reservoir Performance Curve; Haley 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

Inexco   12 - 1 - 3     14 - 886   87 <u>20</u>   6   6	Researchin. 4.1.36 6.4501 Reduing M.I. Refer 4: M.I. Refer 4:	Researchine. 4-1-36 64:507 U. S.	Researchlin.	Sabine Roy M/ W H Hardinging	T.E. Dav's, Jr. M.E., H.H. & Paul Bavis	Henry Beebe, etal 83 341.86 2131.86 7	Penhandle Roy 36 R.T. Pote etal Janes Robinson. Co.	C.W. Alcornur. 2 · 1 · 91 reuit (S) Henry Reebe
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(Shell) NRM 2 4 6 7 1 6 110 NRM 102520-7 103520-7 103520-7 103520-7 100035420-7	(Amoco)  ( of Murphy Oper  ( of 1353 (S.E. Wisdom)  Homme- Fed to base of SA  (Loss Mersor	Doug Schutz 11.1.93 VA-141 38 TE		29 - Tenneco HBP Oc.1111 Hobbs - Stete	1.9 ,4 C.B.Repd Sincleif T04630	Stgre 3121.88 2121.88	ال المالية. ي.الا, وفرها	TM Beall 1-1-89 16-6252 16-6252 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-1-89 1-89
Shell) Kern G. (Shell) Kern G. (Shell) Kern G. (Steber H.C. Steber H.C. Steper	اق	12 7 2 S	Murphy Oper. K. 13.70 Y. 18.70	ES UN	Marein 10-1-93 VA-127 21 68	8 1812 83.18	T.E. Davis,	Eastland Gil 10 - 1 - 93 VA - 129 25 42 25 42
moco) se 6 50 Murshy Oper. E.Wisdom) base 2 f £A.   8  'Walf-Fed." [ 6 <sup>3</sup> ] U.S. 7.E.Tucker (5)	2 - 4	Kerr-MGee 8-6 ( 6-5 ( 6-6 ( 6-	6.13   1 - 1 - W ( - 2 W )   2 W   2	SAN ANDRES	1 Kerr. 1 Kerr. 1 McGee 100-1-93 100-1-	Stete 31218 21138	13:1-30 v.1336	
13.89 15.04 15.04 15.04		5.66 1.76 1.86 1.86 1.86 1.86 1.86 1.86 1.86 1.8	S. 28 S. 28	CHAVEROO	77.06	2 5	10.1.00 13.6	32.16 Sares Pre 10:-10 10:-10 13:10
Yote S Per etal (Mana Jer Clinton Occal Joli Occal Joli Occal Joli Tr. 4	Amoco Mims Texos O.E.G. Milford Chemon Fixe Estap for 1:8 for	Amoco) Milhard Amoco Tuckers Milhard Milhard Common Tuckers Pipe 8, 545 Sec. JAmoco) Milhard Jamoso Justinian Milhard Amoco Justinian Milhard	Murphy Oper (1) (1) (2) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	JENNIFER CHAV	Myco Pet Marathan Jameshan (**)  K. 2672   56.    K. 1.   Taylor Pruitt)  2   (**)  Kin   5   5   5   5    Kin   6   6   6   6    Kin   7   5   6    Kin   7   6   6    Kin   6   6   6    Kin   7   6   6    Kin   7   6   6    Kin   7   6   6    Kin   6   6   6    Kin   7   6   6    Kin   7   6   6    Kin   7   6    Kin   7   6    Ki	S State State	N ANDRES UNIT	Sale
E. Burgland etal  Amose  Amose	Mims Texas O c.G (Clinton Oil) 613 1/2 (Clin		Mins Texas Delport Mins Texas Delport "B" 0558787 (042253),	Skelly -26. (Clinton 0:1) -26. (Chavelor -26. (Chavelor -26. (Laboration 0:1) -26. (Labo	Separation with the property of the property o	S. Con Amer (Operity)	K-M CHAVEROO SA	
CORPORATIC  NDRES FIELD  ELT COUNTIES  EXICO  O SAN ANDRES	VEROO SAN ANDRES UNIT E OPERATOR CHAVEROOSAN ANDRES UNIT RATOR	ACTIVE INJECTOR PROPOSED INJECTOR ACTIVE PRODUCER	High Plans Oil 1-2-4  2 (R.E. 4 (Elinfon) (Clinfon) (Control oil)  A 77 (Second oil) (Second oil	7 9 04253 4 (Amocopin) 5 1/2 4 Mims lexas 6/4 0558287 A 3 1 1 2 3 3	235 (1.18.18.1) Tex. (2.18.18.18.18.18.18.18.18.18.18.18.18.18.	Hobber 1900 State 1900 1917 1917 1917 1917 1917 1917 1917	Murphyched (Fady Namphyched (Fady Namphyched (Fady Namphyched Namphyched (Fady Namphyched (	1 Doug Schutz. (10-1-93 Tierre   1.2015 -32 VA-117 Tierre   1.2015 -32 C-541    1.2015 -33 C-541    1.2015 -34 C-541    1.2015 -35 C-541    1.2015
MURPHY OPEF CHAVEROO ( CHAVES & R HALEY CHAURPHY OPE	₹# C. <b>#</b>	(•) ACTIVE IN (•) PROPOSE  • ACTIVE F	1 1 16 2 1 16 2 1 1 2 1 2 1 2 1 1 2 1 1 2 1 2	12 . F280 . 528  K-Fed Cuck Food  1	Champlin, (g) 1 K 2055 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Murphy Oper. 1 (1)	E. T. Kergel M. K. 1967 (1972)  E. T. K. 1973 (1972)  E. K. 1973 (1973)  E. K. 1973 (1973)	Chambers Arros



4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990

080028	080026	HCSAU S 080020	080016	080015	080012	080010	080008	080006	HCSAU S 080001	[# [[   집] 그
12 L	10 J	EC. 34 4 D	16 P	15 0	12 L	10 J	8	6 F	EC. 33 1 A	SAN LEAS
34-T7S-R33E (#7)	34-T7S-R33E (#8)	34-T7S-R33E (#9)	33-T7S-R33E (#11)	33-T7S-R33E (#4)	33-T7S-R33E (#2)	33-T7S-R33E (#3)	33-T7S-R33E (#5)	33-T7S-R33E (#1)	(Hobbs T) T-1 33-T7S-R33E (#6)	NDRES POOL NAME,
н	н	<b></b>	<b>}4</b>	٥-	٩	٦	Н	P	BATTERY P O G	STATUS
OIL GAS WAT	OIL GAS WAT INJ	OIL GAS WAT	GAS WAT INJ	OIL GAS	OIL GAS	OIL GAS WAT	GAS WAT	OIL	OIL GAS	1
84,303 227,780 491,397	80,334 194,222 39,673 0	140,125 132,380 86,545 0	0 0 1,665,179	72,966 69,066 127,172	77,083 76,256 50,612	73,596 80,828 178.211	84,989 80,466 55,640	82,345 73,948	99,177 98,733 29.917	CUMULATIVE THRU 12/31/88
000	000	000	5642 0	63 0 404	000	000	0000	000	000	1989 JAN•
000	000	000	0 0 4546 0	58 0 295	000	000	0000	000	000	FEB.
000	000	000	0 0 0 3407 0 0	110 0 752	000	000	0000	000	000	HALEY EF MAR.
000	000	000	0 0 0 6187 @0	50 0 294	000	000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49 0 725	49 0 916	CHAVEROO FECTIVE APR.
000	000	000	0 0 0 2803 @0	40 0 142	000	000	40 0 342	136 0	40 0 342	SAN AND OCTOBER MAY
0006	3121	0000	0 0 2063 00	49 0 265	000	000	23 0 205	73 0	24 0 163	RES UNIT 1, 1988
000	5184	0 0 0 5824	0 0 0 1411 0	43 0 188	000	000	42 0 203	64 0	21 0 218	JUL.
000	6378	0 0 0 9282	0 0 0 13613 080	26 0 179	000	000	25 0 149	26 110	26 0 164	AUG.
200	0 0 0 0 6178	0 0 0 9111	0 0 4633 0	49 0 264	000	000	50 0 207	ง ง ง	50 0 264	SEP.
2006	0 0 0 0 6176	0 0 0 8957	0 0 0 13664 0	57 0 407	000	000	0000	3 5 8 0 8	58 0 407	0CT.
2006	6108 6108	0 0 8545 90	5893 60	50 0 237	000	000	5261 5261	203 0 203	49 0 236	NOV.
2006	0 0 0 4127	0 0 5534	0 0 0 14817 0	44 0 342	000	000	0 0 0 3959 0	3 0 0 0	45 0 343	DEC.
<b>300</b> 0	0 0 0 37,272	0 0 0 47,253	0 0 0 78,679 80	639 0 3,769	000	000	1,106 9,220	4 -	362 0 3,053	1989 TOTAL
84,303 227,780 491 397	80,334 194,222 39,673 37,272	140,125 132,380 86,545 47,253	0 0 0 1,743,858 80	73,605 69,066 130,941	0,00	လုတ္ထ	85,169 80,466 56,746 9,220	າ ໃດ ໃດ ລັດ ໃດ	2,00	CUM. TOTALS

# MURPHY OPERATING CORPORATION 4TH QUARTER PRODUCTION REPORT JANAURY 1, 1990

080013	080011	080009	080004	080005	HCSAU SI 080003	HOBBS U	080007	HCSAU SI 080002	T-1 BAT	PRODUCTION CHAVEROO S Computer L Well # W
13 M	11 K	9 I	4 D	т О	SEC. 33 3 C	BATTERY	7 G	EC. 33 2 B	BATTERY TOTAL	SAN LEAS
33-T7S-R33E (#4)	33-T7S-R33E (#2)	33-T7S-R33E (#7)	33-T7S-R33E (#5)	33-T7S-R33E (#1)	(NM AZ State) 33-T7S-R33E (#3)	Y TOTAL	33-T7S-R33E (#1)	(Hobbs U) HOBBS 33-T7S-R33E (#2)	TAL	ANDRES POOL E NAME, S T R
۰	S	70	CNI	s	AZ BAT		S	SC		STATUS
GAS WAT	GAS WAT	OIL GAS WAT	GAS GAS INJ	GAS	TTERY OIL GAS	GAS WAT	OIL GAS WAT	BATTERY OIL GAS WAT	OIL GAS 1 WAT 1 INJ 1	
47,936 60,004 57,824	67,376 68,549 96.555	20,282 24,740 81.983	40,372 41,294 7,590 615,670	1) (O 🖊 Þ	60,122 69,658 41,227	168,190 225,258 277,020	101,581 136,455 246,533	66,609 88,803	749,918 1,033,679 1,090,157 1,665,179	CUMULATIVE THRU 12/31/88
000	000	132 168 1901	3 0 0 0 0 0	000	000	128 0 3017	000	128 0 3017	63 0 404 5642	1989 JAN.
000	000	49 170 587	30000	000	000	120 0 2548	000	120 0 2548	58 0 295 4546	FEB.
000	000	190 454	30000	000	000	86 0 2015	000	86 0 2015	110 0 752 3407	HALEY CH EFFECT
000	000	29 0	00000		000	802	70 0 802	000	148 0 1635 6187	HAVEROO TIVE OCT
000	000	150 1057	3 0000	000	000	32 0 796	32 0 796	000	183 0 950 2803	SAN ANDRES OBER 1,198
000	000	92 622 2164	0000	93 0 164	000	0 0 0	0 0 0	000	169 0 856 8298	RES UNIT 1988 JUN.
000	000	147 231 1277	00000	000	000	000	000	000	170 0 769 18009	JUL.
000	000	0 0 0 731	00000	000	000	000	000	000	103 0 611 32648	AUG.
000	000	8 0 415	a 0 0 0 0 0	000	000	000	000	000	199 0 961 23189	SEP.
000	000	7 0 450	a 0 0 0 0 0	000	000	000	000	000	173 0 1162 32118	0CT.
69 0 398	000	334 334	a 0 0 0 0 0	000	000	000	000	000	148 0 676 29207	NOV.
157 0 835	000	13 0 702	a 00000	000	000	000	000	000	134 0 979 31428	DEC.
226 0 1,233	•	453 1,560 10,072			000	446 0 9,178	112 0 1,598	334 0 7.580	1,658 0 10,050 197,482	1989 TOTAL
8,16 0,00 9,05	554	0,73 6,30 2,05	40,372 41,294 7,590 615,670	, , , , , , , , , , , , , , , , , , ,	0,12 9,65	68,63 25,25 86,19	101,693 136,455 248,131	8,94 060	751,576 1,033,679 1,100,207 1,862,661	CUM. TOTALS

4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990
HALEY CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1990

PRODUCTION	:			l		EFF	ECTIVE C	OCTOBER 1	, 1990							, , , , , , , , , , , , , , , , , , ,	
Computer LEAS Well # WELL	ASE NAME,	STATUS	CUMULATIVE THRU 12/31/88	1989 JAN.	FEB.	MAR.	APR.	MAY	.NUC	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL	TOTALS
SEC.	3 (NM AZ Sta	AZ BATTI	Y (continued)		<b>)</b>	<b>o</b>	<b>5</b>	<b>ɔ</b>	<b>5</b>	0	0	0	0	<b>5</b>	0	9	6 35
	(#B)		GAS 109,288	0 (	0	0	0	0	0	0	0	0	0	0	0	0	109,288
	(NM 7	WAT AZ BATTERY	WAT 53,273 TERY	0	0	0	0	0	0	0	. 0	0	0	0	0	0	3,27
13	M 34-T7S-R33E (#16)	~		00	00	00	00	00	75 75	74 279	133 421	150 190	149 197	69 161	103	61 ,42	,52 ,48
				0	0	0	0	0	699	480	404	493	536 0	397	0	0	9,51
080018 2 B	34-T7S-R33E (#12)	<sub>ရ</sub>	OIL 63,375 GAS 76,316	00	00	00	00	00	00	00	00	00	00	00	00	00	3,37 6,31
	(** )	ΙW		0	0	0	0	0	0	0 5438 @0	09 6909 0	0 6333 @0	0 6283 @0	0 5722 @0	0 4907 @0	0 34,752 0	9 4
080032 16 P	34-T7S-R33E (#15)	 ნ 0	OIL 50,591 GAS 58,628	00	00	00	00	00	00	00	00	00	00	00	00	00	$\infty$ $\bigcirc$
	("-")	¥.		0	0	0	0	0	0	0	133	0	0	0	0	2	٦ω
AZ BALLERY I	IOIAL	GAS		168	170	190	29	ഗ	622	231	421	190	197	161	103	, 63 (3	0 (
		<b>:</b> *	WAT 454,946 INJ 615.670	1901 0	587 0	454 0	00	1057 0	4328 0	1277 5438	1135 6069	908 6333	986 6283	1129 5722	1537 4907	15,299 34,752	470,245 650,422
HCSAU SEC. 3	(State BF) BF	BATTERY S 0	OIL 104.982	0	0	0	0	0	0	0	0	0	0	0	0	0	
!	(#1)			00	00	00	00	00	00	00	00	00	00	00	00	00	
080034 2 B	3-T8S-R33E	s 0.0	OIL 54,794 GAS 103.373	00	00	00	00	00	00	00	00	00	0 0	00	00	00	
)				0	0	0	0	00	<b>,</b> 0	<b>5</b> 0	0	<b>-</b> 0	0	<b>-</b> 0	- 0	<b>.</b> 0	
บชบบวช ว เ	(#3)	ຂຄວ	GAS 48,734 WAT 11.025	000	000	000	000	000	00	00	00	00	0 0	00	00	00	48,734 11,025
080036 4 D		P&A OIL		P1u	Plugging a	approved	1975										
	(#5)	€ 0		1	,	•	)	3	2	1	3	1	8	,	)	) )	2
080037 6 F	3-T8S-R33E (#7)	ب ي ي	GAS 48,579	000	000	000	0 0 4	0 0 20 20 20 20 20 20 20 20 20 20 20 20	0 0 1	200	0 0 6	. 0	100	) () ()	) I	, ,	8,57
000038 7 6	3_T8<_933F	v ⊃ <u>₹</u>		00	00	00	362 84	3/2 102	08 8/8	284 75	79	147 56	445 89	243 76	23 23	ა, 348 664	0,59
	(#6)			00	00	00	341	ა <u>ა</u> 0	823	0 260	0 266	0 134	405	0 221	აგი აგა	3,163	87,358 27,356
080039 8 H	H 3-T8S-R33E (#4)	70 70	OIL 92,543 GAS 91.866	00	20	20	20	0	52 0	50 0	52 n	56 0	89 n	76 n	23 n	398 ^	2,94 1 86

# 4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990

080022	080021	080019	HCSAU S 080017	STATE		HCSAU S		BF BAT		080044	080043		080041		000	HCSAU S	Compute Well #	PRODUCTION CHAVEROO S/	
ъ 6	EI OI	ა C	SEC. 34	3 BATTERY		SEC. 3		BATTERY TO		16 P	ر د ۲	1	11 K			그 [5]	LLAS	Ź	
34-T7S-R33E (#9)	34-T7S-R33E (#8)	34-T7S-R33E (#11Y)	HOBBS T-2 BATT 34-T7S-R33E (#13)	RY TOTAL	#1)	(State 3) STAT 3-T8S-R33F		TOTAL	(#9)	3-T8S-R33E	(#10)	ງ ນ ນ	(#11)		(#8)	STATE BF) BF		ANDRES POOL	
ы	٦	סי	TTERY P			E 3 BA				۵.	~	<b>י</b>	v	)	•	BATTERY	STATU		
OIL GAS WAT	GAS	GAS	OIL GAS	GAS WAT	GAS WAT	_	WAT	GAS OIL	GAS WAT	OIL	GAS	WAT	GAS	WAT	GAS	Y (cont	HT		
103,085 177,900 83,481	94,747 101,537 98.633		65,803 109,262 13,956	171,900 123,153 67,247		71.			77,146 36,151		147,871		8,388	68,797		inued) 99,190	CUMULATIVE THRU 12/31/88		
000	0000	000	000	134 134 124	134 124	134	1779	510 510	00	0	510	ა შ 0	0 0	0	0		1989 JAN.		
000	0000	000	000	98 105 112	105 112	98	1030	205 337	00	0.01	337	ง ภ o	00	0	0	0	FEB.		
000	0000	000	000	117 125 620	125 620	117	1325	346 346	00	0	346	<u>7</u> 0	00	0	0	0	MAR.	HALEY	
000	000	000	000	681 690	681 690	142	2130	525 0	255	84 84	0 0 0	1 63 0	00	277	0	110	APR.	FECTIVE (	1
000	000	000	000	749 803	749 803	115	2189	639 0	263	102	2 5	199	00	285	0	134	МАҮ	OCTOBER 1, 1	) } !
34 75 698	34 74 698	34 74 698	34 74 698	1184 510	1184 510	123	5489	5/5 0	604	08	) ) () ()	173	00	659	0	109	JUN.	1, 1990	1
49 186 2051	49 186 2051	6 6 6 0 0	0 0 1705	124 1158 775	1158 775	124	1845	524 0	189	74	600	150	00	213	0	100	JUL.		
115 145 2438	77 145 1422	0 671	0 0 1382	1321 589	1321 589	113	1764	523 0	193	78	70.1	157	00	717	0	105	AUG.		
0 117 0	117 0	340 0	0 0 698	630	630	118	1579	411 905	160	56 56	905	110	00	201	0	75	SEP.	e" , " + <sub>*</sub> - )	4, J
99 0	0 00	712	0 0 1672	620	.0 620	120	4776	V) (T	486	68 89	1299	178	00	607	0	119	0CT.		
0 0 0 5073	82 0	000	000	009	600	106	2602	990 755	263	76	990	150	00	331	0	101	NOV.		
0 0 0 5514	1348	1138 0	0 0 1348	92 60	92 60	12	3376	169 371	435	23	371	A 5 O	00	545 0	0	ယ္	DEC.		
	16 79 51	22 73	34 74 7,503	1,322 5,549 6,133	5	ω	ω.	5,538 4.758		9,	4,758	v	00	3,335	•	884	1989 TOTAL		
103,283 178,522 88,668 10,587	94,90 94,90 02,33 04,15	7,24 4,82 4.30	5,83 1,43	1/3,222 128,702 73,380	32.2	73	86,37	0 0 0 0 0 0 0 0	38 \	93,79	2,62	20,29 29 52	8,38 88,00	2,13	84,27	0,07	TOTALS		

# MURETE DECEMBER OF THE OFFICE OF THE O

PRODUCTION CHAVERON SAN ANDRES POOL					HALEY	Y CHAVEROO EFFECTIVE	0 SAN OCTOB	ANDRES UNIT	8 1						<b>!</b>	
EASE NAME,		THRU 12/31/88	JAN.	FEB.	MAR.	APR.	МАҮ	ارا	יחר.	AUG.	SEP.	ост.	NOV.	DEC.	1989 TOTAL	CUM. TOTAL
7 G 34-T7S-R33 (#10)		84 175	000	000	000	<b>500</b>	000	34 75 699	49 186 4795	57 145 2235	0 117 0	0 0 0	82 0	59 95 1198	199 799 8.927	4,00
)80024 8 H 34-T7S-R33E (#14)	ы	OIL 60,623 GAS 86,843 WAT 28,842 INJ	000	000	000	000	000	34 75 699	0 0 2131	0 0 1605	000	000	0 0 5048 00	9456 00	34 75 4,435 14,504	60,657 86,918 33,277 14,504
)80025 9I 34-T7S-R33E (#12)	ס־		000	000	000	000	000	34 75 699	73 278 53	38 218 2438	11 175 965	40	82 0	59 95 1288	$\omega \nu$ 4	0,00
)80027 11 K 34-T7S-R33E (#10)	ס	OIL 48,196 GAS 145,186 WAT 15,216	000	000	000	000	000	35 75 699	171 650 0	153 493 0	134 396 0	174 338 0	115 186 886	176 216 30	958 2,354 1,615	6,E 9,E
180030 14 N 34-T7S-R33E (#13)	סי	79 195, 166,	000	000	000	000	000	35 75 699	559 0	1016	11 0 1485	000	000	59 0 1048	0	0,0
80031 15 0 34-T7S-R33E (#15)	· 0	la us us	000	000	000	000	000	35 75 699	140 533	406 86	90 245 1143	4 O Wk	114	133 1467	300	20,9
OBBS T-2 BATTERY TOTAL		874, 1,667, 707,	000	000	000	000	000	378 822 7685	502 1905 15024	478 1232 13613	246 1167 4633	239 993 6120	115 546 886 10121	410 634 8865 14970	2,368 7,299 56,826 25,091	8/6,409 1,674,906 763,912 25,091
CSAU SEC. 3 (Annarco) 80042 14 N 3-T8S-R33E (#1)	P&A	OIL GAS WAT		-Plugging	approve	ed 1986	i									
NNARCO TOTAL		OIL GAS WAT														
ALEY SAN ANDRES UNIT TOTAL		OIL 3,260,656 GAS 4,482,679 WAT 3,252,947 INJ 2,280,849	702 812 7225 5642	530 612 4572 4546	827 661 5166 3407	885 710 5257 6187	969 899 5795 2803	1440 2628 18868 5184	1467 3294 19690 23447	1350 2974 17712 38717	1132 2262 8711 29522	1341 2489 13664 38401	1067 1697 5893 45050	895 1200 14817 51305	12,605 20,238 127,370 254,211	3,273,261 4,502,917 3,380,317 2,535,060
VERAGE BBLS/WELL			747	100	100											∦

# MURPHY OPERATING CORPORATION

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

April 5, 1990

TELEPHONE 505 623-7210

Mr. Floyd O. Prando
Director, Oil & Gas Division
State of New Mexico
Commissioner of Public Lands
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

Attention: Mr. David R. Catanach, Engineer

Re: PLAN OF OPERATION FOR 1990

Haley Chaveroo San Andres Unit Chaveroo San Andres Field

Chaves & Roosevelt Counties, New Mexico

### Gentlemen:

Pursuant to the provisions of Section 11A. of the Unit Agreement, Murphy Operating Corporation ("MOC"), designated Unit Operator of the Haley Chaveroo San Andres Unit, Chaves and Roosevelt Counties, 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: Injection into four (4) wells (#34-2, #34-4, #34-10 and #34-12) began in June and July, 1989 and has continued uninterrupted to present. Beginning in September, 1989 injection profiles (i. e. tracer surveys) were performed on each of the wells. Based upon the results of the injection profiles and the initial injection activity, three (3) additional wells (#33-8, #34-6, and #34-8) were converted to injection in November, 1989. In January, 1990 injection profiles were performed on the three additional injectors. As of March 1, 1990, over 350,000 barrels of water has been injected into the seven wells.

Beginning in May, 1989 nine (9) wells located in close proximity to the seven initial injection wells were worked over and returned to production. These producing well workovers include Wells #34-01, #34-03, #34-05, #34-07, #34-09, #34-11, #34-13, #34-14, and #34-15.

II. Proposed 1990 Plan of Operation: Based upon favorable indications, the working interest owners have elected to proceed with unit-wide development. This development will entail converting twelve (12) producing wells to injection status in order to establish a unit-wide five-spot injection pattern. The proposed injectors consist of Wells #33-02, #33-06, #33-10, #33-12, #33-14, #34-14, #34-16, #03-02, #03-06, #03-08, #03-10, and #03-16. Two (2) existing salt water disposal wells (#33-04 and #33-16) will also be converted to injection status.

An expansion of the injection system will be required in order to accommodate these additional injectors. The expansion will entail the installation of approximately forty-five thousand feet (45,000") of 4", 3" and 2" high-pressure fiberglass injection line. Two (2) high-volume, high-pressure injection pumps will also be installed which will increase injection capacity to approximately 16,000 BWPD.

The unit-wide development activity also requires the working over and returning to production of fifteen producing wells. These producers are Wells #33-01, #33-03, #33-05, #33-07, #33-09, #33-11, #33-13, #33-15, #34-13, #34-15, #03-01, #03-03, #03-07, #03-09, and #03-15.

In order to accommodate anticipated increased volumes of produced fluids, the existing six (6) tank batteries will be consolidated into three (3) larger facilities.

- III. Further Development: The ultimate development of the Haley Unit provides for the drilling of two (2) injection wells. These proposed injectors are to be located in the NW/NW and the SE/SW of Section 3, T8S-R33E. It is anticipated that these wells will be drilled in the second quarter of 1991.
- IV. Operating Guidelines: MOC monitors all injection wells through daily rate and pressure checks. Approximately every 180 days, but at least once per year, a tracer survey will be run on each injection well 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.
- V. <u>Modification</u>: Subject to 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

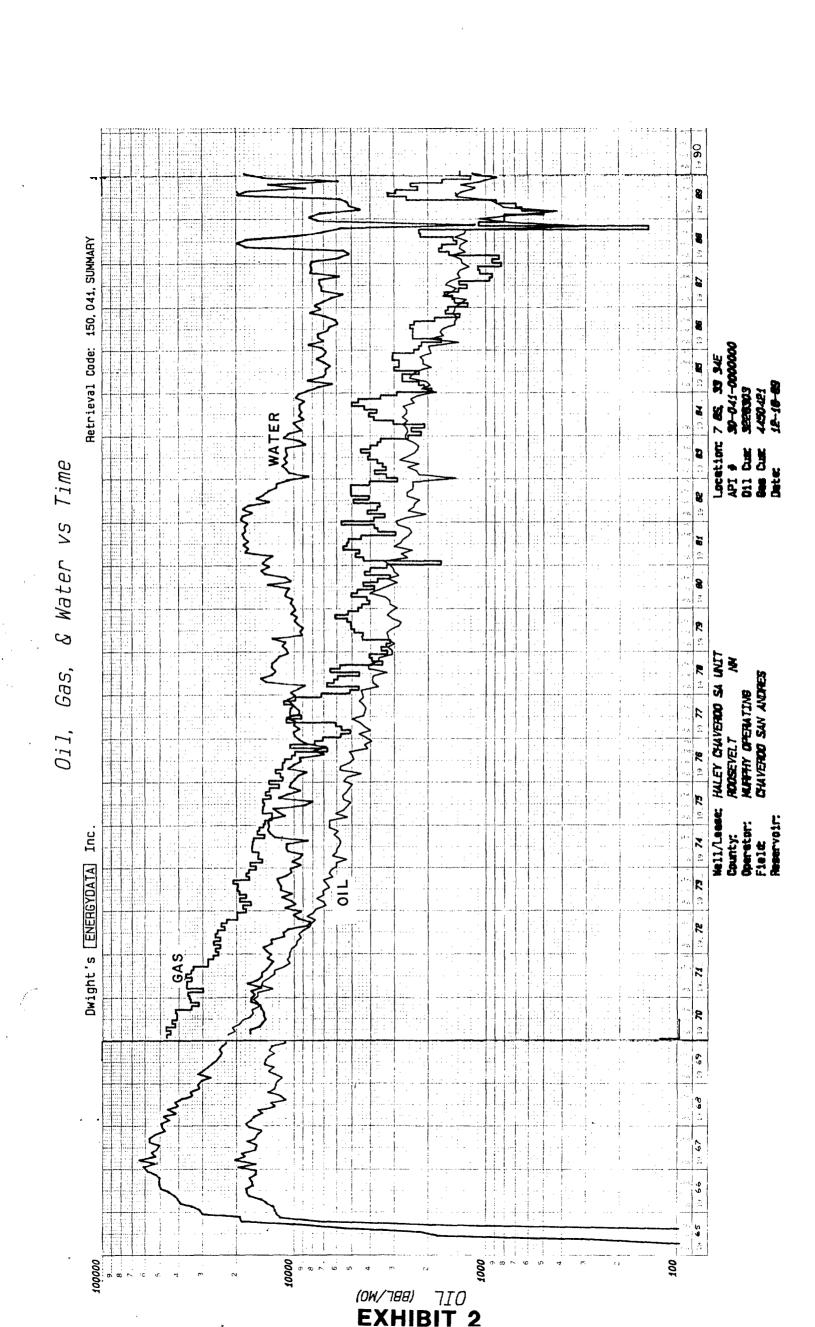
Enclosure: Haley Chaveroo San Andres Unit Well Location and Status Map;

Haley Chaveroo San Andres Unit Reservoir Performance Curve; Haley 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

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4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990

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# MURPHY OPERATING CORPORATION 4TH QUARTER PRODUCTION REPORT JANAURY 1, 1990

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1989 TOTAL

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4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990
HALEY CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1990

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# 4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990

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# 4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990



### 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

April 5, 1990

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

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

Attention: Mr. David R. Catanach, Engineer

PLAN OF OPERATION FOR 1990 Haley Chaveroo San Andres Unit Chaveroo San Andres Field Chaves & Roosevelt Counties, New Mexico

### Gentlemen:

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Beginning in May, 1989 nine (9) wells located in close proximity to the seven initial injection wells were worked over and returned to production. These producing well workovers include Wells #34-01, #34-03, #34-05, #34-07, #34-09, #34-11, #34-13, #34-14, and #34-15.

II. Proposed 1990 Plan of Operation: Based upon favorable indications, the working interest owners have elected to proceed with unit-wide development. This development will entail converting twelve (12) producing wells to injection status in order to establish a unit-wide five-spot injection pattern. The proposed injectors consist of Wells #33-02, #33-06, #33-10, #33-12, #33-14, #34-14, #34-16, #03-02, #03-06, #03-08, #03-10, and #03-16. Two (2) existing salt water disposal wells (#33-04 and #33-16) will also be converted to injection status.

An expansion of the injection system will be required in order to accommodate these additional injectors. The expansion will entail the installation of approximately forty-five thousand feet (45,000") of 4", 3" and 2" high-pressure fiberglass injection line. Two (2) high-volume, high-pressure injection pumps will also be installed which will increase injection capacity to approximately 16,000 BWPD.

The unit-wide development activity also requires the working over and returning to production of fifteen producing wells. These producers are Wells #33-01, #33-03, #33-05, #33-07, #33-09, #33-11, #33-13, #33-15, #34-13, #34-15, #03-01, #03-03, #03-07, #03-09, and #03-15.

In order to accommodate anticipated increased volumes of produced fluids, the existing six (6) tank batteries will be consolidated into three (3) larger facilities.

- III. Further Development: The ultimate development of the Haley Unit provides for the drilling of two (2) injection wells. These proposed injectors are to be located in the NW/NW and the SE/SW of Section 3, T8S-R33E. It is anticipated that these wells will be drilled in the second quarter of 1991.
- IV. Operating Guidelines: MOC monitors all injection wells through daily rate and pressure checks. Approximately every 180 days, but at least once per year, a tracer survey will be run on each injection well 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.
- V. <u>Modification</u>: Subject to 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

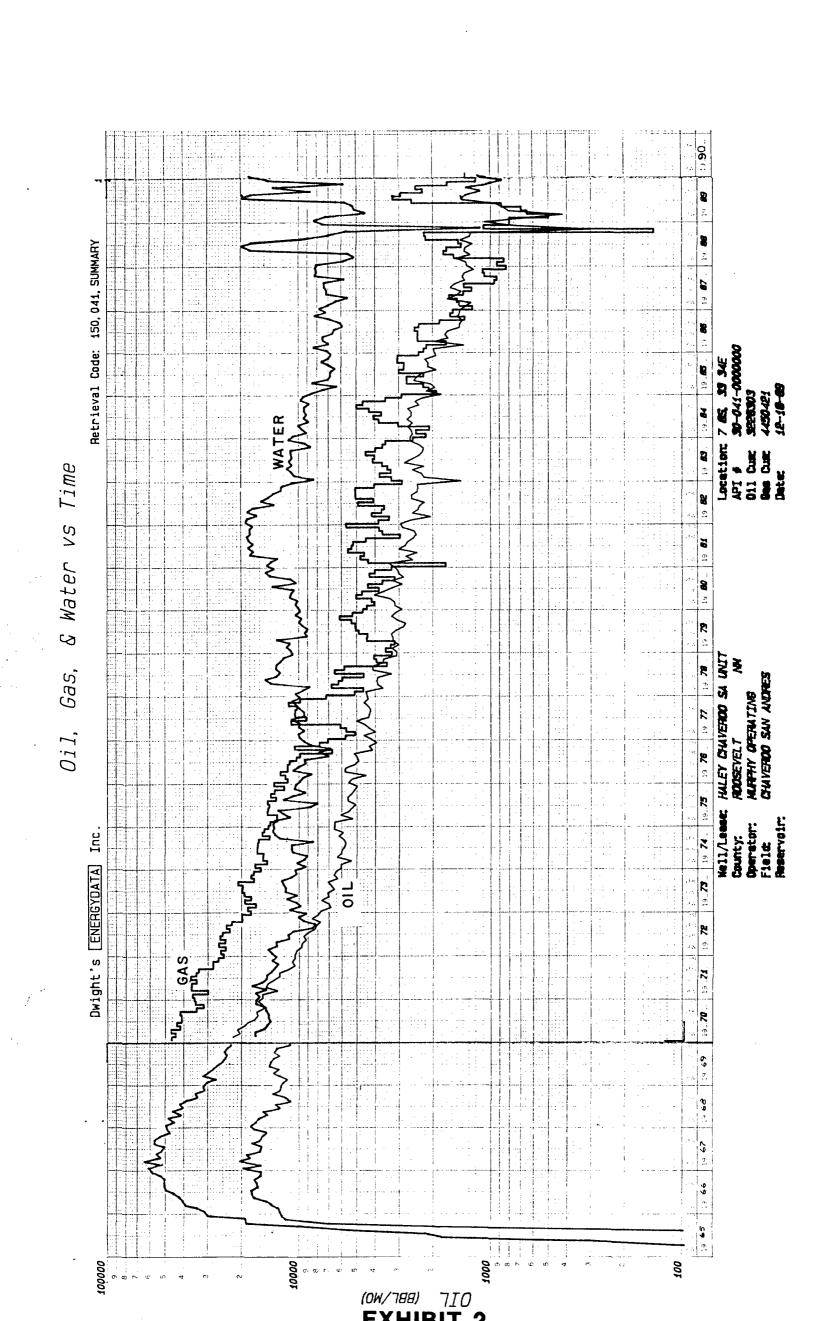
Enclosure: Haley Chaveroo San Andres Unit Well Location and Status Map;

Haley Chaveroo San Andres Unit Reservoir Performance Curve; Haley 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

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4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990

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## MURPHY OPERATING CORPORATION 4TH QUARTER PRODUCTION REPORT JANAURY 1, 1990

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4TH QUARTER PRODUCTION REPORT
JANUARY 1, 1990
HALEY CHAVEROO SAN ANDRES UNIT
EFFECTIVE OCTOBER 1, 1990

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# 4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990

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# MURETE PRODUCTION REPORT 4TH QUARTER PRODUCTION REPORT JANUARY 1, 1990

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ALEY SAN ANDRES	ES UNIT TOTAL		OIL 3,260,656 GAS 4,482,679 WAT 3,252,947	702 812 7225	530 612 4572	827 661 5166	885 710 5257	969 899 5795	1440 2628 18868	1467 3294 19690	1350 2974 17712	1132 2262 8711	1341 2489 13664	1067 1697 5893	895 1200 14817	12,605 20,238 127,370	3,273,261 4,502,917 3,380,317
VERAGE BBLS/WELL	EL		,280,8	14 4	104	16	- [1] ⊬-	88	91	11 6	70/1	70	2004	70	53	1,12	1,12

OIL CONSER- IN DIVISION

SICI Snyder Oil Corporation

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Fort Worth, Texas 76102
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October 1, 1991

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

Attention: Roy Johnson

RE: CHANGE OF OPERATOR
JENNIFER AND HALEY UNITS
ROOSEVELT COUNTY, NEW MEXICO

Dear Mr. Johnson:

Attached for your further handling are Designations of Successor Unit Operator for the captioned units. Forms C-104's have been filed with the Hobbs District Office.

If you have questions regarding this matter, please do not hesitate to contact me at (817) 882-5931.

Sincerely,

Betty Usry

Attachments

### 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.

### WITNESSETH

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.

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

	GUGORGOD UNITE ODERATION.
	SUCCESSOR UNIT OPERATOR:
	SNYDER OIL CORPORATION
	By: Roseny LWaller
	RESIGNING UNIT OPERATOR:
	MURPHY OPERATING CORPORATION
	By: Murphy Etzell Chairman & Chief Executive Officer
	UNITIZED WORKING INTEREST OWNER:
	P.A.J.W. CORPORATION  By:
THE STATE OF New Mexico.	John H. Slayton Vice-President/Secretary
COUNTY OF Chaves )	SS.
27th day of August	ent was acknowledged before me this, 1991, by
District of Columbia THE STATE OF )  COUNTY-OF )	ss.
The foregoing instrume  26th day of August  VP/Secy of P.A.J.  corporation, on behalf of s	ent was acknowledged before me this, 1991, by,
My Commission Expires  My Commission Expires  December 14, 1984	Notary Public
THE STATE OF NEW MEXICO ) COUNTY OF CHAVES )	ss.
and Chief Executive Officer	ent was acknowledged before me this 1991, by ANN MURPHY EZZELL, Chairman of MURPHY OPERATING CORPORATION, a behalf of said corporation.
My Commission Expires:	Onne de Joure Notary Public
August 25, 1992	