



# United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124  
Albuquerque, New Mexico 87125

JUL 20 1978  
CONSERVATION DIVISION

JUL 14 1978

Amoco Production Company  
Attention: Mr. E. D. Newman  
P. O. Box 3092  
Houston, Texas 77001

*no. 4578*

Gentlemen:

Your application of June 23, 1978 requesting approval of the addition of the E<sub>SE</sub> 1/4 sec. 5, T. 18 S., R. 29 E., Eddy County, New Mexico, to the 5th revision of the Morrow participating area for the Empire South Deep unit agreement, Eddy County, New Mexico, No. 14-08-0001-11591, has been approved on this date by the Oil and Gas Supervisor, SRMA, U. S. Geological Survey, effective as of January 1, 1977, the effective date of the 5th revision. Such addition has been approved by the New Mexico Commissioner of Public Lands and the New Mexico Oil Conservation Division.

The above described 80.00 acre fee land addition to the Morrow participating area enlarges the area to 3,364.05 acres through the 5th revision and is necessitated in order to include the entire spacing unit allocated to unit well No. 12 within the Morrow participating area by the 5th revision thereof.

Copies of such approval are being distributed to the appropriate Federal offices and one approved copy is returned herewith. You are requested to furnish all interested parties with appropriate evidence of this approval action.

Sincerely yours,

(ORIG. SGD.) GENE F. DANIEL

ACTING Oil and Gas Supervisor, SRMA

Enclosure

cc:

NMOCD, Santa Fe *letter only*

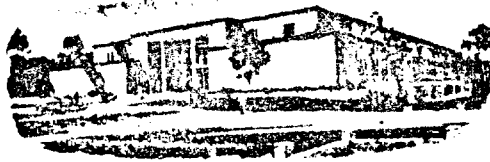
Com. Pub. Lands, Santa Fe *letter only*

*letter only*

*1/11/78 Copy for*



# State of New Mexico



## Commissioner of Public Lands

PHIL R. LUCERO  
COMMISSIONER

June 27, 1978

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Amoco Production Company  
500 Jefferson Building  
P. O. Box 3092  
Houston, Texas 77001

*no. 4578*

Re: Empire South Deep Unit  
Eddy County, New Mexico  
AMENDMENT TO THE FIFTH  
EXPANSION OF THE MORROW  
PARTICIPATING AREA

ATTENTION: Mr. E. D. Newman

Gentlemen:

Your letter of June 23, 1978 has been received, whereby, you wish to amend the Fifth Expansion of the Morrow Participating Area by including the E/2SE/4 of Section 5, T-18-S, R-29E, Eddy County, New Mexico.

The Commissioner of Public Lands has this date approved the amendment. Our approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy for your files.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s  
encl.  
cc:

OCC-Santa Fe, New Mexico ✓  
USGS-Roswell, New Mexico  
USGS-Albuquerque, New Mexico



RECEIVED

JUN 26 9 01 AM '78

STATE LAND OFF.  
SANTA FE, N.M.

**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

June 23, 1978

File: CGF(10)-964-2896XLF

Re: Empire South Deep Unit  
Eddy County, New Mexico  
No. 14-08-0001-11571

Mr. Jim Gilliam (3)  
United States Department of Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. Phil R. Lucero (3)  
Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, NM 87501

Mr. James E. Kapteine (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Please reference James W. Sutherland's letter of April 20, 1978, approving Amoco Production Company's Fifth Expansion of the Morrow Participating Area for the Empire South Deep Unit (ESDU), Eddy County, New Mexico. Inasmuch as 80 acres being the E/2 SE/4 Section 5, T-18-S, R-29-E, Eddy County, New Mexico, is a part of the Proration Unit assigned to the ESDU Well No. 12, Amoco Production Company, as Operator of the Empire South Deep Unit, formally requests that the Fifth Expansion of the Morrow Participating Area be amended to include the aforementioned 80 acres.

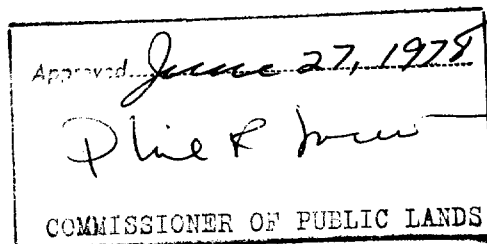
Your favorable consideration of this request will be appreciated.

Yours very truly,

E. D. Newman  
Production Coordination Superintendent

RLC/cjb  
5/7322

cc: Mr. V. E. Staley  
Levelland, TX



OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 29, 1978

Amoco Production Company  
P. O. Box 3092  
Houston, Texas 77001

Attention: E. D. Newman

Re: Case No. 4578  
Empire South Deep Unit  
Fifth Expansion of the Morrow  
Participating Area

Gentlemen:

We hereby approve the amendment to the Fifth Expansion of the Morrow Participating Area for the Empire South Deep Unit, Eddy County, New Mexico, to include the following 80-acre tract:

E/2 SE/4 of Section 5, Township 18 South,  
Range 29 East, Eddy County

Very truly yours,

JOE D. RAMEY  
Director

JDR/LT/fd

cc: U.S.G.S. - Roswell  
Commissioner of Public Lands

C

O

P

Y



**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

June 23, 1978

File: CGF(10)-964-2896XLF

Re: Empire South Deep Unit  
Eddy County, New Mexico  
No. 14-08-0001-11571

*No. 4578  
Approve: Amendment to the  
Fifth Expansion of the  
Morrow Participating Area  
to include the following  
80-acre tract*

Mr. Jim Gilliam (3)  
United States Department of Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. Phil R. Lucero (3)  
Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, NM 87501

Mr. James E. Kapteine (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Please reference James W. Sutherland's letter of April 20, 1978, approving Amoco Production Company's Fifth Expansion of the Morrow Participating Area for the Empire South Deep Unit (ESDU), Eddy County, New Mexico. Inasmuch as 80 acres being the E/2 SE/4 Section 5, T-18-S, R-29-E, Eddy County, New Mexico, is a part of the Proration Unit assigned to the ESDU Well No. 12, Amoco Production Company, as Operator of the Empire South Deep Unit, formally requests that the Fifth Expansion of the Morrow Participating Area be amended to include the aforementioned 80 acres.

Your favorable consideration of this request will be appreciated.

Yours very truly,

E. D. Newman  
Production Coordination Superintendent

RLC/cjb  
5/7322

cc: Mr. V. E. Staley  
Levelland, TX



**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

June 23, 1978

File: CGF(10)-964-2896XLF

Re: Empire South Deep Unit  
Eddy County, New Mexico  
No. 14-08-0001-11571

Mr. Jim Gilliam (3)  
United States Department of Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. Phil R. Lucero (3)  
Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, NM 87501

Mr. James E. Kapteine (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Please reference James W. Sutherland's letter of April 20, 1978, approving Amoco Production Company's Fifth Expansion of the Morrow Participating Area for the Empire South Deep Unit (ESDU), Eddy County, New Mexico. Inasmuch as 80 acres being the E/2 SE/4 Section 5, T-18-S, R-29-E, Eddy County, New Mexico, is a part of the Proration Unit assigned to the ESDU Well No. 12, Amoco Production Company, as Operator of the Empire South Deep Unit, formally requests that the Fifth Expansion of the Morrow Participating Area be amended to include the aforementioned 80 acres.

Your favorable consideration of this request will be appreciated.

Yours very truly,

E. D. Newman  
Production Coordination Superintendent

RLC/cjb  
5/7322

cc: Mr. V. E. Staley  
Levelland, TX



**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

June 23, 1978

File: CGF(10)-964-2896XLF

Re: Empire South Deep Unit  
Eddy County, New Mexico  
No. 14-08-0001-11571

Mr. Jim Gilliam (3)  
United States Department of Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. Phil R. Lucero (3)  
Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, NM 87501

Mr. James E. Kapteine (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Please reference James W. Sutherland's letter of April 20, 1978, approving Amoco Production Company's Fifth Expansion of the Morrow Participating Area for the Empire South Deep Unit (ESDU), Eddy County, New Mexico. Inasmuch as 80 acres being the E/2 SE/4 Section 5, T-18-S, R-29-E, Eddy County, New Mexico, is a part of the Proration Unit assigned to the ESDU Well No. 12, Amoco Production Company, as Operator of the Empire South Deep Unit, formally requests that the Fifth Expansion of the Morrow Participating Area be amended to include the aforementioned 80 acres.

Your favorable consideration of this request will be appreciated.

Yours very truly,

E. D. Newman  
Production Coordination Superintendent

RLC/cjb  
5/7322

cc: Mr. V. E. Staley  
Levelland, TX



# United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124  
Albuquerque, New Mexico 87125

MAY 03 1978

Amoco Production Company  
Attention: Mr. J. L. Hoyt, Jr.  
P. O. Box 3092  
Houston, Texas 77011

*ms. 4578*

Gentlemen:

Our records show that the initial Morrow participating area for the Empire South Deep unit agreement, Eddy County, New Mexico, was established effective as of November 29, 1971. Such participating area effective date sets the date of November 29, 1976 as the time when the automatic elimination provisions contained in Section 2(e) of the unit agreement became operative. Drilling operations were in progress on unitized lands not entitled to participation on November 29, 1976 and thereafter with not more than 90 days time elapsing between completion of one such well and commencement of the next such well until March 29, 1978. Well No. 17 was plugged and abandoned on December 29, 1977 and no well was commenced prior to the 90 day lapse to March 29, 1978. Therefore, all unit lands not entitled to be in a participating area as of March 29, 1978, shall be eliminated automatically from the unit effective March 30, 1978.

As unit operator, you are required to submit to this office within 90 days after such automatic elimination, a description of the lands so eliminated with appropriate revised Exhibits "A" and "B".

Sincerely yours,

(ORIG. SGD.) GENE F. DANIEL

ACTING

Oil and Gas Supervisor, SMOA

cc:

NMOCC, Santa Fe

Com. Pub. Lands, Santa Fe

*This Copy for*





# United States Department of the Interior

## GEOLOGICAL SURVEY

P. O. Box 26124  
Albuquerque, New Mexico 87125

APR 20 1978

Anoco Production Company  
Attention: Mr. J. L. Hoyt, Jr.  
P. O. Box 3092  
Houston, Texas 77001

*No. 4578*

Gentlemen:

The 1973 plan of development submitted March 20, 1978, for the Empire South Deep unit area, Eddy County, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of one Morrow well and one approved copy is enclosed.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosure

CC:  
NMOCC, Santa Fe (ltr. only) ← This Copy for  
Com. Pub. Lands, Santa Fe (ltr. only)



# United States Department of the Interior

## GEOLOGICAL SURVEY

P. O. Box 26124  
Albuquerque, New Mexico 87125

APR 20 1978

Anoco Production Company  
Attention: Mr. J. L. Hoyt, Jr.  
P. O. Box 3092  
Houston, Texas 77011

no. 4578

Gentlemen:

Your letter of March 29, 1978, requesting approval of the fifth and sixth Morrow participating area revisions for the Empire South Deep unit agreement, Eddy County, New Mexico, No. 14-02-0501-11501, has been approved on this date by the Area Oil and Gas Supervisor, United States Geological Survey. Such approval is subject to like approval by the New Mexico Commissioner of Public Lands and the New Mexico Oil Conservation Commission.

The fifth revision adds 400.00 acres, described in Attachment No. 1 enclosed with your letter, to the Morrow participating area enlarging the area to 3,284.05 acres effective as of January 1, 1977. Such revision is based largely upon the completion of unit well No. 12 located in the SW $\frac{1}{4}$  sec. 5, T. 18 S., R. 29 E., N.M.P.M. Such unit well was completed January 28, 1977, from the Morrow interval 10,642 to 10,900 feet for a calculated absolute open flow potential of 31,150 MCF of gas per day and 72 barrels of condensate per day.

The sixth revision adds 443.82 acres described in Attachment No. 3 enclosed with your letter, to the Morrow participating area enlarging such area to 3,727.87 acres effective April 1, 1977. Such revision is based largely on the information obtained from the completion of unit well No. 13 located in the SE $\frac{1}{4}$  sec. 30 for an initial flow rate of 3,400 MCF of gas per day from the Morrow interval 10,605 to 10,677 feet.

Copies of such approval are being distributed to the appropriate Federal offices and one approved copy is returned herewith. You are requested to furnish all interested parties with appropriate evidence of such approval.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

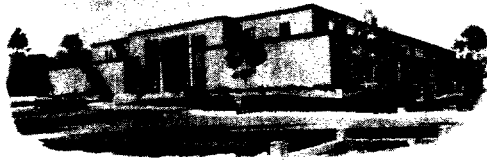
Area Oil and Gas Supervisor

Enclosure

cc: BLM, Santa Fe (w/cy attch. No. 1 & No. 3)  
WFOCC, Santa Fe (1 tr. only) *Give this copy for*  
Com. Public Lands, Santa Fe (1 tr. only)

cc:

# State of New Mexico



## Commissioner of Public Lands

PHIL R. LUCERO  
COMMISSIONER

April 6, 1978

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Amoco Production Company  
500 Jefferson Building  
P. O. Box 3092  
Houston, Texas 77001

*Mr. 4578*

Re: Empire South Deep Unit  
Development and Operation  
Eddy County, New Mexico

ATTENTION: Mr. J. L. Hoyt, Jr.

Gentlemen:

The Commissioner of Public Lands has this date approved your 1978 Plan of Development for the Empire South Deep Unit, Eddy County, New Mexico. Such plan calls for the drilling of one additional Morrow well, which will be drilled in Section 30, Township 17 South, Range 29 East. Also, two Wolfcamp tests may be considered contingent upon Wolfcamp performance from Well No. 8. This approval is subject to like approval by the United States Geological Survey.

The Fifth expansion, as revised, of the Morrow Participating Area for the Empire South Deep Unit has also been approved on this date. This revision covers the SW/4, W/2SE/4 of Section 5, and the NW/4 of Section 8 of Township 18 South, Range 29 East. These acreage is described on Attachment No. 1 submitted with your letter of March 20, 1978.

Your Sixth expansion of the Morrow Participating area has also been approved on this date. This participating area covers Lots 1, 2, and 3, E/2NW/4, NE/4SW/4, NE/4 and N/2SE/4 of Section 30, Township 17 South, Range 29 East. These acreage is described on Attachment No. 3 submitted with your letter of March 20, 1978.

Both of these approvals for the Fifth and Sixth Participating Areas are also subject to like approval by the United States Geological Survey.

Amoco Production Company  
April 6, 1978  
Page 2.

Enclosed is one approved copy for your files.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s  
encls.  
cc:

OCC-Santa Fe, New Mexico ✓  
USGS-Roswell, New Mexico  
USGS-Albuquerque, New Mexico



RECEIVED  
MAR 30 8 59 AM '78  
STATE LAND OFFICE  
SANTA FE, N.M.

**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

March 20, 1978

File: CGF(10)-964-416 X LF

Re: Empire South Deep Unit  
Development and Operation  
Eddy County, New Mexico

Mr. Carl C. Traywick (3)  
Area Oil & Gas Supervisor  
United States Department of  
the Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. Phil R. Lucero (3)  
Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, NM 87501

Mr. James E. Kapteine (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Amoco Production Company, as operator of the Empire South Deep Unit, Eddy County, New Mexico, No. 14-08-0001-11571, respectively requests approval of two expansions of the Morrow participating area and a 1978 plan of development calling for one additional Morrow well.

Amoco filed in February, 1977, a proposal for the fifth expansion of Morrow participating area to include the NW/4 of Section 8, the S/2 of Section 5, and the NW/4 of Section 5 (excluding the 40 acres surrounding Well No. 9), T-18-S, R-29-E. The fifth expansion was recommended on the basis of an excellent producer encountered at Well No. 12. It should be noted that the fifth expansion was proposed prior to the drilling of Wells Nos. 14, 15, and 16 and commercial productivity of the acreage was based on Well No. 12 which was a 4000 MCF/D producer. Well No. 14 showed good clean sands; however, a low initial rate (approximately 400 MCF/D) resulted. Buildup tests are now being conducted to determine if damage or depletion is the cause of low productivity in Well No. 14. Thus, we are formally recommending that the fifth expansion be revised to include the SW/4 and

the W/2 of the SE/4 of Section 5 and the NW/4 of Section 8. Non-inclusion of the E/2 of the SE/4 of Section 5 into a participating area is a result of insufficient data, at this time, to support its inclusion. The E/2 of the SE/4 and the N/2 of Section 5 will be evaluated and a recommendation to propose their inclusion into a participating area will be made at a later date. This proposed fifth revision is also graphically depicted on attached Exhibit "A". Furthermore, the complete allocation schedule for all the affected unit acreage after the fifth revision is tabulated on three typewritten sheets included as Attachment No. 2.

It is to be noted that the five-year automatic elimination date as stated on Page 4 of the Unit Agreement was November 29, 1976. However, this is to advise that this date was extended as outlined on Page 5 of the Unit Agreement by our Well No. 12 which, on that date, was drilling on lands not then entitled to participation. Well No. 14 was then spudded to extend this date and was completed on August 23, 1977. Since completion of Well No. 14 allowed us an additional 90-day period to spud another well, we spudded Well No. 15 in the NW/4 of Section 8. This acreage was not entitled to participation. As you will recall, in our meeting on September 30, 1977, attended by Messrs. Stover, Cherry, and Ms. Buchanan of this office, we became aware that the USGS considered Well No. 15 to be located on acreage entitled to participation by virtue of being in the proposed fifth expansion (even though it was not yet approved). With this in mind, Amoco proposed drilling Well No. 17, which was spudded November 10, 1977, in an effort to continue the prudent and timely development in the unit and fulfill our continuous drilling obligation. This well was plugged and abandoned on December 29, 1977.

We are also recommending a sixth expansion of the Morrow participating area to include Lots 1, 2, and 3, E/2 NW/4, NE/4 SW/4, NE/4 and the N/2 of the SE/4 of Section 30, T-17-S, R-29-E, based on commercial production established by Well No. 13 and the continuity of sands observed on the cross section from Wells Nos. 7 and 13 and from the commercial production established by the Pennzoil well in Section 24. The initial flow rate of Well No. 13 was 3.4 MMCF/D with logs indicating 2.3 BCF of reserves by pore volume calculations. This well has not been placed on line as yet due to right-of-way clearances. Well No. 7 was never tested in the Morrow, but logs have shown it to have about 1 BCF of reserves by pore volume calculations. A 1 BCF reserve level with an initial producing rate of 1 MMCF/D (declining at a rate of 53.84% per year) based on a 70% success probability would result in a payout of the initial investment in 24 months at \$1.50/MMBTU. Reserves would be depleted in this well in six years. The Pennzoil well in Section 24 has a reserve level of 2.2 BCF from P/Z analysis. We feel that all the acreage in Section 30 is productive and should be placed in the proposed sixth expansion. The acreage is described in detail on Attachment No. 3. This proposed sixth expansion is also graphically depicted on Exhibit "A". The complete allocation schedule for all the affected unit acreage after the sixth revision is tabulated on the typewritten sheets included as Attachment No. 4.

Page 3  
March 20, 1978

We respectively request that a 1978 plan of development be approved calling for one additional Morrow well. This well will be located in Section 30 to be drilled by Harvey Yates. Also, two Wolfcamp tests may be considered contingent upon Wolfcamp performance from Well No. 8. Since we have no other development plans for the unit for 1978 and since Yates cannot get a rig to drill the well in Section 30 by March 30, 1977, it is necessary that approval be obtained for our expansions of participating area by the end of this month. These requests have been discussed with the Roswell office and was felt to be acceptable.

Your favorable consideration of the foregoing will be accepted.

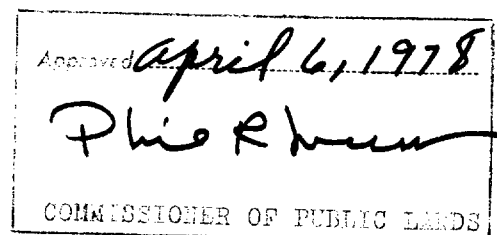
Yours very truly,

J. L. Hoyt, Jr.  
Production Coordination Superintendent

JMC/caw  
1/6392

Attachments

cc: Mr. V. E. Staley  
Levelland, TX



PROPOSED FIFTH MORROW PARTICIPATING AREA EXPANSION

EMPIRE SOUTH DEEP UNIT

EDDY COUNTY, NEW MEXICO

EFFECTIVE 1-1-77

Unit Tract No.	Acreage Description	Lease No.	Participating Acres
10	T-18S, R-29E Sec. 8: NW/4 NW/4.	LC-058603	40.0
12	T-18S, R-29E Sec. 8: E/2 NW/4, SW/4 NW/4.	LC-061702	120.0
42	T-18S, R-29E Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee-HBP	80.0
43	T-18S, R-29E Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.0
44	T-18S, R-29E Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	80.0
	TOTAL		400.00

ATTACHMENT NO. 1

JMC/slv  
x/6647

RECEIVED  
MAR 30 8 59 AM '78  
STATE LAND OFFICE  
SANTA FE, N.M.



ALLOCATION SCHEDULE  
 INITIAL PLUS FIRST, SECOND, THIRD, FOURTH, AND FIFTH REVISIONS OF MORROW PARTICIPATING AREA  
 EMPIRE SOUTH DEEP UNIT

EFFECTIVE 1-1-77

Map 23 8 59 PM '78  
 STATE OF TEXAS  
 SALTWATER, TEXAS

Tract No.	Description	Lease No.	Participating Acres	% of Participating Area	Working Interest Owners %
Tr. 2	T-18S, R-29E Sec. 7: Lot 1 (NW/4 NW/4, 30.22 ac) NE/4 NW/4, Lot 2 (SW/4 NW/4, 30.37 ac) SE/4 NW/4.	LC-028772(a)	140.59	4.2809684	Amoco Production Company 32.821910 Harvey E. Yates Company 14.218750 Continental Oil Company 7.895140 Depco, Inc. 6.314060 Husky Oil Company of Delaware 6.314060 General American Oil Company of Texas Tenneco Oil Company 6.105035 Shinnery Investment Company 3.569535 Hondo Oil & Gas Company 3.281250 Cities Service Oil Company 2.720435 Yates Petroleum Company 2.012940 Harold Kersey 1.964760 Bassett-Birney Oil Corporation 1.744540 Bright, Shiff and Kennedy 1.610350 Me-Tex Supply Company 1.207760 J. Cleo Thompson, Sr. 1.073460 James Cleo Thompson, Jr. 1.073460 Charlene K. Seay 1.073460 I & L Development Company .603880 Sam Lett .536890 M. W. Smith .536890 Kathleen Miller .402585 Atlantic Richfield Company .402585 O. H. Randell Estate .402585 Donald Brown .201295 Earl A. Latimer, Jr. .150970 Featherstone Farms, Ltd. .150965
Tr. 2-A	T-18S, R-28E Sec. 12: NE/4.	NM-23413	160.00	4.8720033	
Tr. 3	T-18S, R-29E Sec. 7: N/2 NE/4.	LC-028772(c)	80.00	2.4360017	
Tr. 4	T-18S, R-29E Sec. 7: S/2 NE/4.	LC-028772(d)	80.00	2.4360017	
Tr. 6	T-18S, R-29E Sec. 6: Lots 3 & 4, NE/4 SW/4.	NM-23414	99.93	3.0428706	
Tr. 6-A	T-18S, R-29E Sec. 6: SE/4.	LC-058126	160.00	4.8720033	
Tr. 6-B	T-18S, R-29E Sec. 6: SE/4 SW/4.	LC-058126	40.00	1.2180008	
Tr. 9	T-18S, R-29E Sec. 6: E/2 NE/4.	LC-058582	80.00	2.4360017	
Tr. 10	T-18S, R-29E Sec. 8: NW/4 NW/4.	LC-058603	40.00	1.2180008	
Tr. 12	T-18S, R-29E Sec. 8: E/2 NW/4, SW/4 NW/4.	LC-061702	120.00	3.6540025	
Tr. 13-A	T-17S, R-29E Sec. 30: S/2 SE/4 Sec. 31: Lot 4 (SW/4 SW/4, 29.32 ac)	LC-062407	109.34	3.3294053	
Tr. 14	T-18S, R-29E Sec. 6: NW/4 NE/4.	LC-065374-A	40.00	1.2180008	

Tract No.	Description	Lease No.	Participating		% of Participating Area	Working Interest Owners %	
			Acres				
Tr. 15	T-18S, R-29E Sec. 6: SW/4 NE/4.	NM-0926 (KGS)	40.00		1.2180008	Robert E. Boling	.100550
Tr. 17	T-17S, R-29E Sec. 31: Lot 1 (NW/4 NW/4, 28.63 acres) NE/4 NW/4, N/2 NE/4, T-17S, R-29E Sec. 31: Lot 2 (SW/4 NW/4 28.86 acres) SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4.	NM-0555569	417.49	12.7125793		C. F. Qualia	.100645
						Mark D. Wilson	.100645
Tr. 17-A	T-17S, R-29E Sec. 31: Lot 3 (NW/4 SW/4, 29.09 acres).	NM-0555569	29.09	0.8857911		A. J. Losee	.100645
						Roland McLean	.050325
Tr. 18	T-18S, R-29E, Sec. 6: lots 1, 2 (W/2 NW/4).	NM-0558119 (KGS)	59.23	1.8035547		Charles W. Hicks	.050325
						Trust for Olen F. Featherstone II	.050325
Tr. 19	T-18S, R-29E Sec. 6: E/2 NW/4.	NM-0560401 (KGS)	80.00	2.4360017		H. B. McGrady	.025160
						Charles C. Harlan, Jr.	.025160
Tr. 20	T-17S, R-28E Sec. 36: SE/4 NE/4, NE/4 SE/4, NE/4 NE/4, W/2 NE/4, NW/4 SE/4.	647-368	240.00	7.3080051		Margaret Holcomb	.033550
						Greta M. Edgington	.402585
Tr. 21	T-18S, R-28E Sec. 1: NE/4 SE/4, NW/4 NW/4, SW/4 SW/4, NW/4 SE/4.	2029-6	160.00	4.8720033		Thelma Methvin	.033550
Tr. 24	T-17S, R-29E Sec. 31: SE/4 SW/4.	B-4458-33	40.00	1.2180008			
Tr. 25	T-17S, R-29E Sec. 32: NW/4 SW/4.	B-4918-85	40.00	1.2180008			
Tr. 31	T-17S, R-29E Sec. 30: Lot 4 (SW/4 SW/4, 28.40 acres) SE/4 SW/4.	E-7596-Orig.	68.40	2.0827814			
Tr. 32	T-17S, R-29E Sec. 32: SW/4 NW/4.	E-7640	40.00	1.2180008			
Tr. 33	T-17S, R-28E Sec. 36: SE/4 SE/4	B-11593-8	40.00	1.2180008			

TOTAL	100.000000
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<u>Tract No.</u>	<u>Description</u>	<u>Lease No.</u>	<u>Participating Acres</u>	<u>% of Participating Area</u>
Tr. 34	T-17S, R-29E Sec. 32: NW/4 NW/4.	E-537-5	40.00	1.2180008
Tr. 35	T-17S, R-28E Sec. 36: SW/4 SE/4.	E-949-Orig.	40.00	1.2180008
Tr. 36	T-18S, R-28E Sec. 1: W/2 NE/4, E/2 NW/4, SW/4 NW/4, N/2 SW/4, SE/4 SW/4, SW/4 SE/4.	E-1284-3	360.00	10.9620076
Tr. 37	T-17S, R-29E Sec. 31: S/2 SE/4.	E-4201-Orig.	80.00	2.4360017
Tr. 38	T-18S, R-28E Sec. 1: E/2 NE/4.	E-6946	80.00	2.4360017
Tr. 40	T-18S, R-28E Sec. 1: SE/4 SE/4.	L-1645-1	40.00	1.2180008
Tr. 42	T-18S, R-29E Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee HBP	80.00	2.4360017
Tr. 43	T-18S, R-29E Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.00	2.4360017
Tr. 44	T-18S, R-29E Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	80.00	2.4360017
TOTAL			3284.07	100.0000000

PROPOSED SIXTH MORROW PARTICIPATING AREA EXPANSION  
 EMPIRE SOUTH DEEP UNIT  
 EDDY COUNTY, NEW MEXICO

EFFECTIVE 4-1-77

Unit Tract No.	Acreage Description	Lease No.	Participating Acres
1	T-17-S, R-29-E, Sec. 30: NE/4	LC-028480(a)	160.00
13	T-17-S, R-29-E, Sec. 30: N/2 SE/4	LC-062407	80.00
37	T-17-S, R-29-E, Sec. 30: E/2 NW/4; lots 1, 2, 3	E-4201	164.56
41	T-17-S, R-29-E, Sec. 30: NE/4 SW/4	OG-181-1	40.00
	TOTAL		444.56

JMC/slv  
x/655

ATTACHMENT NO. 3

APR 30 9 50 AM '78  
 STATE OF NEW MEXICO  
 SANTA FE, N.M.

ALLOCATION SCHEDULE  
INITIAL PLUS FIRST, SECOND, THIRD, FOURTH, FIFTH, AND SIXTH REVISIONS OF MORROW PARTICIPATING AREA  
EMPIRE SOUTH DEEP UNIT  
EFFECTIVE 4-1-77

Tract No.	Description	Lease No.	Participating	% of Participating Area	Working Interest Owners %
			Acres		
Tr. 1	T-17S, R-29E Sec. 30: NE/4	LC-028480(a)	160.00	4.2911203	Amoco Production Company 32.821910
Tr. 2	T-18S, R-29E Sec. 7: Lot 1 (NW/4 NW/4, 30.22 ac.) NE/4 NW/4, Lot 2 (SW/4 NW/4, 30.37 ac.) SE/4 NW/4.	LC-028772 (a)	140.59	3.7705538	Harvey E. Yates Company 14.218750
					Continental Oil Company 7.895140
Tr. 2-A	T-18S, R-29E, Sec. 12: NE/4	NM-23413	160.00	4.2911203	Depco, Inc. 6.314060
					Husky Oil Company of Delaware 6.314060
Tr. 3	T-18S, R-29E, Sec. 7: N/2 NE/4.	LC-028772(c)	80.00	2.1455602	General American Oil Company 6.105035
					of Texas
Tr. 4	T-18S, R-29E Sec. 7: S/2 NE/4.	LC-028772(d)	80.00	2.1455602	Tenneco Oil Company 3.569535
					Shinnery Investment Company 3.281250
Tr. 6	T-18S, R-29E Sec. 6: Lots 3 & 4, (W/2 SW/4) E/2 SW/4.	LC-058126	99.93	2.6800728	Hondo Oil & Gas Company 2.720435
					Cities Service Oil Company 2.012940
Tr. 6-B	T-18S, R-29E Sec. 6: SE/4 SW/4	LC-058126	40.00	1.0727801	Yates Petroleum Company 1.964760
					Harold Kersey 1.744549
Tr. 6-A	T-18S, R-29E Sec. 6: SE/4.	LC-058126	160.00	4.2911203	Bassett-Birney Oil Corporation 1.610350
					Bright, Schiff and Kennedy 1.207760
Tr. 9	T-18S, R-29E Sec. 6: E/2 NE/4.	LC-058582	80.00	2.1455602	Me-TeX Supply Company 1.207760
					J. Cleo Thompson, Sr. 1.073460
Tr. 10	T-18S, R-29E Sec. 8: NW/4 NW/4.	LC-058603	40.00	1.0727801	James Cleo Thompson, Jr. 1.073460
					Charlene K. Seay .603880
Tr. 12	T-18S, R-29E Sec. 8: E/2 NW/4, SW/4 NW/4	LC-061702	120.00	3.2183402	I & L Development Co. .536890
					Sam Lett .536890
Tr. 13	T-17S, R-29E, Sec. 30: N/2 SE/4	LC-062407	80.00	2.1455602	M. W. Smith .402585
					Kathleen Miller .402585
Tr. 13-A	T-17S, R-29E Sec. 30: S/2 SE/4 Sec. 31: Lot 4 (SW/4 SW/4, 29.32 ac.)	LC-062407	109.34	2.9324444	Atlantic Richfield Company .402585
					O. H. Randall Estate .402585
Tr. 14	T-18S, R-29E Sec. 6: NW/4 NE/4.	LC-065374-A	40.00	1.0727801	Donald Brown .201295
					Earl A. Latimer, Jr. .150970
					Featherstone Farms, Ltd. .150965
					Robert E. Boling .100650
					C. F. Qualia .100645
					Mark D. Wilson .100645
					Roland Mclean .050325

Tract No.	Description	Lease No.	Participating		% of Participating Area	Working Interest Owners %
			Acres			
Tr. 15	T-18S, R-29E Sec. 6: SW/4 NE/4.	NM-9026 (KGS)	40.0	1.0727801		Charles W. Hicks Trust for Olen F. Featherstone II .050325
Tr. 17	T-17S, R-29E Sec. 31: Lot 1 (NW/4 NW/4, 28.63 acres) NE/4 NW/4, N/2 NE/4, T-17S, R-29E	NM-0555569	417.49	11.1968738		H. B. McGrady Charles C. Harlan, Jr. .025160
	Sec. 31: Lot 2 (SW/4 NW/4 28.86 acres) SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4.					Margaret Holcomb Greta M. Edgington .033550
Tr. 17-A	T-17S, R-29E Sec. 31: Lot 3 (NW/4 SW/4, 29.09 acres)	NM-0555569	29.09	.7801793		Thelma Methvin .402585
Tr. 18	T-18S, R-29E, Sec. 6: Lots 1,2 (W/2 NW/4).	NM-0558119 (KGS)	59.23	1.5885191		TOTAL 100.000000
Tr. 19	T-18S, R-29E, Sec. 6: E/2 NW/4.	NM-0560401 (KGS)	80.00	2.1455602		
Tr. 20	T-17S, R-28E Sec. 36: SE/4 NE/4 NE/4 SE/4, NE/4 NE/4, W/2 NE/4, NW/4 SE/4.	647-368	240.00	6.4366804		
Tr. 21	T-18S, R-28E Sec. 1: NE/4 SE/4, NW/4 NW/4, SW/4 SW/4, NW/4 SE/4.	2029-6	160.00	4.2911203		
Tr. 24	T-17S, R-29E Sec. 31: SE/4 SW/4.	B-4458-33	40.00	1.0727801		
Tr. 25	T-17S, R-29E Sec. 32: NW/4 SW/4.	B-4918-85	40.00	1.0727801		
Tr. 31	T-17S, R-29E Sec. 30: Lot 4 (SW/4 SW/4, 28.40 acres) SE/4 SW/4.	E-7596-Orig.	68.40	1.8344539		
Tr. 32	T-17S, R-29E Sec. 32: SW/4 NW/4.	E-7640	40.00	1.0727801		
Tr. 33	T-17S, R-28E Sec. 36: SE/4 SE/4.	B-11593-8	40.00	1.0727801		

Tract No.	Description	Lease No.	Participating	% of
			Acres	Participating Area
Tr. 34	T-17S, R-29E Sec. 32: NW/4 NW/4.	E-537-5	40.00	1.0727801
Tr. 35	T-17S, R-28E Sec. 36: SW/4 SE/4.	E-949-0rig.	40.00	1.0727801
Tr. 36	T-18S, R-28E Sec. 1: S/2 NE/4, E/2 NW/4, SW/4 NW/4, N/2 SW/4, SE/4 SW/4, SW/4 SE/4.	E-1284-3	360.00	9.6550206
Tr. 37	T-17S, R-29E, Sec. 30: Lots 1, 2, 3, E/2 NW/4.	E-4201-0rig.	164.56	4.4134173
Tr. 37	T-17S, R-29E Sec. 31: S/2 SE/4.	E-4201-0rig.	80.00	2.1455602
Tr. 38	T-18S, R-28E Sec. 1: E/2 NE/4.	E-6946	80.00	2.1455602
Tr. 40	T-18S, R-28E Sec. 1: SE/4 SE/4.	L-1645-1	40.00	1.0727801
Tr. 41	T-17S, R-29E, Sec. 30: NW/4 SW/4	OG-181-1	40.00	1.0727801
Tr. 42	T-18S, R-29E Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee-HBP	80.00	2.1455602
Tr. 43	T-18S, R-29E, Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.00	2.1455602
Tr. 44	T-18S, R-29E Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	80.00	2.1455602
TOTAL			3728.63	100.0000000

JMC/slv  
X/5114



**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

April 4, 1978

File: CGF(15)-416-LF

Re: Empire South Deep Unit  
Development and Operation  
Eddy County, New Mexico

Mr. Carl C. Traywick  
Area Oil & Gas Supervisor  
United States Department of  
The Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. Phil R. Lucero  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, NM 87501

Mr. James E. Kapteine  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Reference is made to our letter dated March 20, 1978, File: CGF(10)-964-416xLF. Enclosed are the corrected copies of Attachments 1, 2, 3, and 4.

Yours very truly,

J. L. Hoyt, Jr.  
Production Coordination Superintendent

JDP/jb  
Attachments

cc: Mr. V. E. Staley  
Levelland, TX

*Re: 5th + 6th  
revisions  
Disregard - see  
letter of April 11,  
1978*



PROPOSED FIFTH MORROW PARTICIPATING AREA EXPANSION

EMPIRE SOUTH DEEP UNIT

EDDY COUNTY, NEW MEXICO

EFFECTIVE 1-1-77

<u>Unit Tract No.</u>	<u>Acreage Description</u>	<u>Lease No.</u>	<u>Participating Acres</u>
10	T-18S, R-29E Sec. 8: NW/4 NW/4.	LC-058603	40.0
12	T-18S, R-29E Sec. 8: E/2 NW/4, SW/4 NW/4.	LC-061702	120.0
42	T-18S, R-29E Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee-HBP	80.0
43	T-18S, R-29E Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.0
44	T-18S, R-29E Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	<u>80.0</u>
TOTAL			400.00

ALLOCATION SCHEDULE  
INITIAL PLUS FIRST, SECOND, THIRD, FOURTH, AND FIFTH REVISIONS OF MORROW PARTICIPATING AREA  
EMPIRE SOUTH DEEP UNIT

EFFECTIVE 1-1-77

Tract No.	Description	Lease No.	Participating	% of Participating Area	Working Interest Owners %
			Acres		
Tr. 2	T-18S, R-29E Sec. 7: Lot 1 (NW/4 NW/4, 30.22 ac) NE/4 NW/4, Lot 2 (SW/4 NW/4, 30.37 ac) SE/4 NW/4.	LC-028772(a)	140.59	4.2809684	Amoco Production Company 32.821910 Harvey E. Yates Company 14.218750 Continental Oil Company 7.895140 Depco, Inc. 6.314060 Husky Oil Company of Delaware 6.314060 General American Oil Company of Texas 6.105035 Tenneco Oil Company 3.569535 Shinnery Investment Company 3.281250 Hondo Oil & Gas Company 2.720435 Cities Service Oil Company 2.012940 Yates Petroleum Company 1.964760 Harold Kersey 1.744540 Bassett-Birney Oil Corporation 1.610350 Bright, Shiff and Kennedy 1.207760 Me-Tex Supply Company 1.207760 J. Cleo Thompson, Sr. 1.073460 James Cleo Thompson, Jr. 1.073460 Charlene K. Seay .603880 I & L Development Company .536890 Sam Lett .536890 M. W. Smith .402585 Kathleen Miller .402585 Atlantic Richfield Company .402585 O. H. Randell Estate .402585 Donald Brown .201295 Earl A. Latimer, Jr. .150970 Featherstone Farms, Ltd. .150965
Tr. 2-A	T-18S, R-28E Sec. 12: NE/4.	NM-23413	160.00	4.8720033	
Tr. 3	T-18S, R-29E Sec. 7: N/2 NE/4.	LC-028772(c)	80.00	2.4360017	
Tr. 4	T-18S, R-29E Sec. 7: S/2 NE/4.	LC-028772(d)	80.00	2.4360017	
Tr. 6	T-18S, R-29E Sec. 6: Lots 3 & 4, NE/4 SW/4.	NM-23414	99.93	3.0428706	
Tr. 6-A	T-18S, R-29E Sec. 6: SE/4.	LC-058126	160.00	4.8720033	
Tr. 6-B	T-18S, R-29E Sec. 6: SE/4 SW/4.	LC-058126	40.00	1.2180008	
Tr. 9	T-18S, R-29E Sec. 6: E/2 NE/4.	LC-058582	80.00	2.4360017	
Tr. 10	T-18S, R-29E Sec. 8: NW/4 NW/4.	LC-058603	40.00	1.2180008	
Tr. 12	T-18S, R-29E Sec. 8: E/2 NW/4, SW/4 NW/4.	LC-061702	120.00	3.6540025	
Tr. 13-A	T-17S, R-29E Sec. 30: S/2 SE/4 Sec. 31: Lot 4 (SW/4 SW/4, 29.32 ac)	LC-062407	109.32	3.3294053	
Tr. 14	T-18S, R-29E Sec. 6: NW/4 NE/4.	LC-065374-A	40.00	1.2180008	

Tract No.	Description	Lease No.	% of		Working Interest Owners %
			Participating Acres	Participating Area	
Tr. 15	T-18S, R-29E Sec. 6: SW/4 NE/4.	NM-9026 (KGS)	40.00	1.2180008	Robert E. Boling .100650 C. F. Qualia .100645 Mark D. Wilson .100645 A. J. Losee .100645 Roland Mclean .050325 Charles W. Hicks .050325 Trust for Olen F. Featherstone II .050325 H. B. McGrady .025160 Charles C. Harlan, Jr. .025160 Margaret Holcomb .033550 Greta M. Edgington .402585 Thelma Methvin .033550
Tr. 17	T-17S, R-29E Sec. 31: Lot 1 (NW/4 NW/4, 28.63 acres) NE/4 NW/4, N/2 NE/4, T-17S, R-29E Sec. 31: Lot 2 (SW/4 NW/4 28.86 acres) SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4.	NM-0555569	417.49	12.7125793	
Tr. 17-A	T-17S, R-29E Sec. 31: Lot 3 (NW/4 SW/4, 29.09 acres).	NM-0555569	29.09	0.8857911	
Tr. 18	T-18S, R-29E, Sec. 6: Lots 1, 2 (W/2 NW/4).	NM-0558119 (KGS)	59.23	1.8035547	TOTAL 100.000000
Tr. 19	T-18S, R-29E Sec. 6: E/2 NW/4.	NM-0560401 (KGS)	80.00	2.4360017	
Tr. 20	T-17S, R-28E Sec. 36: SE/4 NE/4, NE/4 SE/4, NE/4 NE/4, W/2 NE/4, NW/4 SE/4.	647-368	240.00	7.3080051	
Tr. 21	T-18S, R-28E Sec. 1: NE/4 SE/4, NW/4 NW/4, SW/4 SW/4, NW/4 SE/4.	2029-6	160.00	4.8720033	
Tr. 24	T-17S, R-29E Sec. 31: SE/4 SW/4.	B-4458-33	40.00	1.2180008	
Tr. 25	T-17S, R-29E Sec. 32: NW/4 SW/4.	B-4918-85	40.00	1.2180008	
Tr. 31	T-17S, R-29E Sec. 30: Lot 4 (SW/4 SW/4, 28.40 acres) SE/4 SW/4.	E-7596-Orig.	68.40	2.0827814	
Tr. 32	T-17S, R-29E Sec. 32: SW/4 NW/4.	E-7640	40.00	1.2180008	
Tr. 33	T-17S, R-28E Sec. 36: SE/4 SE/4	B-11593-8	40.00	1.2180008	

Tract No.	Description	Lease No.	Participating	% of
			Acres	Participating Area
Tr. 34	T-17S, R-29E Sec. 32: NW/4 NW/4.	E-537-5	40.00	1.2180008
Tr. 35	T-17S, R-28E Sec. 36: SW/4 SE/4.	E-949-0rig.	40.00	1.2180008
Tr. 36	T-18S, R-28E Sec. 1: W/2 NE/4, E/2 NW/4, SW/4 NW/4, N/2 SW/4, SE/4 SW/4, SW/4 SE/4.	E-1284-3	360.00	10.9620076
Tr. 37	T-17S, R-29E Sec. 31: S/2 SE/4.	E-4201-0rig.	80.00	2.4360017
Tr. 38	T-18S, R-28E Sec. 1: E/2 NE/4.	E-6946	80.00	2.4360017
Tr. 40	T-18S, R-28E Sec. 1: SE/4 SE/4.	L-1645-1	40.00	1.2180008
Tr. 42	T-18S, R-29E Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee HBP	80.00	2.4360017
Tr. 43	T-18S, R-29E Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.00	2.4360017
Tr. 44	T-18S, R-29E Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	80.00	2.4360017
TOTAL			3284.05	100.0000000

PROPOSED SIXTH MORROW PARTICIPATING AREA EXPANSION  
EMPIRE SOUTH DEEP UNIT  
EDDY COUNTY, NEW MEXICO

EFFECTIVE 4-1-77

<u>Unit Tract No.</u>	<u>Acreage Description</u>	<u>Lease No.</u>	<u>Participating Acres</u>
1	T-17-S, R-29-E, Sec. 30: NE/4	LC-028480(a)	160.00
13	T-17-S, R-29-E, Sec. 30: N/2 SE/4	LC-062407	80.00
37	T-17-S, R-29-E, Sec. 30: E/2 NW/4; Lots 1, 2, 3	E-4201	163.82
41	T-17-S, R-29-E, Sec. 30: NE/4 SW/4	OG-181-1	<u>40.00</u>
TOTAL			443.82

ALLOCATION SCHEDULE

INITIAL PLUS FIRST, SECOND, THIRD, FOURTH, FIFTH, AND SIXTH REVISIONS OF MORROW PARTICIPATING AREA

EFFECTIVE 4-1-77

EMPIRE SOUTH DEEP UNIT

Tract No.	Description	Lease No.	Participating	% of	Working Interest Owners	%
			Acres	Participating Area		
Tr. 1	T-17S, R-29E Sec. 30: S/2, NE/4	LC-028480(a)	80.00	2.145572	Amoco Production Company	32.821910
1-A	T-17S, R-29E Sec. 30: N/2, NE/4	NM-29267	80.00	2.145572	Harvey E. Yates Company	14.218750
Tr. 2	T-18S, R-29E Sec. 7: Lot 1 (NW/4 NW/4, 30.22 ac.) NE/4 NW/4, Lot 2 (SW/4 NW/4, 30.37 ac.) SE/4 NW/4.	LC-028772 (a)	140.59	3.7705538	Continental Oil Company	7.895140
					Depco, Inc.	6.314060
					Husky Oil Company of Delaware	6.314060
					General American Oil Company of Texas	6.105035
Tr. 2-A	T-18S, R-29E, Sec. 12: NE/4	NM-23413	160.00	4.2911203	Tenneco Oil Company	3.569535
Tr. 3	T-18S, R-29E, Sec. 7: N/2 NE/4.	LC-028772(c)	80.00	2.1455602	Shinnery Investment Company	3.281250
Tr. 4	T-18S, R-29E Sec. 7: S/2 NE/4.	LC-028772(d)	80.00	2.1455602	Hondo Oil & Gas Company	2.720435
					Cities Service Oil Company	2.012940
					Yates Petroleum Company	1.964760
Tr. 6	T-18S, R-29E Sec. 6: Lots 3 & 4, (W/2 SW/4) E/2 SW/4.	NM-23414	99.93	2.6800728	Harold Kersey	1.744540
					Bassett-Birney Oil Corporation	1.610350
					Bright, Schiff and Kennedy	1.207760
					Me-Tex Supply Company	1.207760
Tr. 6-B	T-18S, R-29E Sec. 6: SE/4 SW/4	LC-058126	40.00	1.0727801	J. Cleo Thompson, Sr.	1.073460
Tr. 6-A	T-18S, R-29E Sec. 6: SE/4.	LC-058126	160.00	4.2911203	James Cleo Thompson, Jr.	1.073460
Tr. 9	T-18S, R-29E Sec. 6: E/2 NE/4.	LC-058582	80.00	2.1455602	Charlene K. Seay	.603880
					I & L Development Co.	.536890
					Sam Lett	.536890
Tr. 10	T-18S, R-29E Sec. 8: NW/4 NW/4.	LC-058603	40.00	1.0727801	M. W. Smith	.402585
					Kathleen Miller	.402585
Tr. 12	T-18S, R-29E Sec. 8: E/2 NW/4, SW/4 NW/4	LC-061702	120.00	3.2183402	Atlantic Richfield Company	.402585
					O. H. Randall Estate	.402585
					Donald Brown	.201295
Tr. 13	T-17S, R-29E, Sec. 30: N/2 SE/4	LC-062407	80.00	2.1455602	Earl A. Latimer, Jr.	.150970
					Featherstone Farms, Ltd.	.150965
Tr. 13-A	T-17S, R-29E Sec. 30: S/2 SE/4 Sec. 31: Lot 4 (SW/4 SW/4, 29.32 ac.)	LC-062407	109.32	2.9324444	Robert E. Boling	.100650
					C. F. Qualia	.100645
					Mark D. Wilson	.100645
Tr. 14	T-18S, R-29E Sec. 6: NW/4 NE/4.	LC-065374-A	40.00	1.2180008	Roland Mclean	.050325

Tract No.	Description	Lease No.	% of		Working Interest Owners %
			Participating Acres	Participating Area	
Tr. 15	T-18S, R-29E Sec. 6: SW/4 NE/4.	NM-9026 (KGS)	40.0	1.0727801	Charles W. Hicks Trust for Olen F. Featherstone II
Tr. 17	T-17S, R-29E Sec. 31: Lot 1 (NW/4 NW/4, 28.63 acres) NE/4 NW/4, N/2 NE/4, T-17S, R-29E Sec. 31: Lot 2 (SW/4 NW/4 28.86 acres) SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4.	NM-0555569	417.49	11.1968738	H. B. McGrady
					Charles C. Harlan, Jr.
					Margaret Holcomb
					Greta M. Edgington
					Thelma Methvin
					TOTAL
					100.000000
Tr. 17-A	T-17S, R-29E Sec. 31: Lot 3 (NW/4 SW/4, 29.09 acres)	NM-0555569	29.09	.7801793	
Tr. 18	T-18S, R-29E, Sec. 6: Lots 1,2 (W/2 NW/4).	NM-0558119 (KGS)	59.23	1.5885191	
Tr. 19	T-18S, R-29E, Sec. 6: E/2 NW/4.	NM-0560401 (KGS)	80.00	2.1455602	
Tr. 20	T-17S, R-28E Sec. 36: SE/4 NE/4 NE/4 SE/4, NE/4 NE/4, W/2 NE/4, NW/4 SE/4.	647-368	240.00	6.4366804	
Tr. 21	T-18S, R-28E Sec. 1: NE/4 SE/4, NW/4 NW/4, SW/4 SW/4, NW/4 SE/4.	2029-6	160.00	4.2911203	
Tr. 24	T-17S, R-29E Sec. 31: SE/4 SW/4.	B-4458-33	40.00	1.0727801	
Tr. 25	T-17S, R-29E Sec. 32: NW/4 SW/4.	B-4918-85	40.00	1.0727801	
Tr. 31	T-17S, R-29E Sec. 30: Lot 4 (SW/4 SW/4, 28.40 acres) SE/4 SW/4.	E-7596-Orig.	68.40	1.8344539	
Tr. 32	T-17S, R-29E Sec. 32: SW/4 NW/4.	E-7640	40.00	1.0727801	
Tr. 33	T-17S, R-28E Sec. 36: SE/4 SE/4.	B-11593-8	40.00	1.0727801	

Tract No.	Description	Lease No.	% of	
			Participating Acres	Participating Area
Tr. 34	T-17S, R-29E Sec. 32: NW/4 NW/4.	E-537-5	40.00	1.0727801
Tr. 35	T-17S, R-28E Sec. 36: SW/4 SE/4.	E-949-0rig.	40.00	1.0727801
Tr. 36	T-18S, R-28E Sec. 1: S/2 NE/4, E/2 NW/4, SW/4 NW/4, N/2 SW/4, SE/4 SW/4, SW/4 SE/4.	E-1284-3	360.00	9.6550206
Tr. 37	T-17S, R-29E, Sec. 30: Lots 1, 2, 3, E/2 NW/4.	E-4201-0rig.	164.56	4.4134173
Tr. 37	T-17S, R-29E Sec. 31: S/2 SE/4.	E-4201-0rig.	80.00	2.1455602
Tr. 38	T-18S, R-28E Sec. 1: E/2 NE/4.	E-6946	80.00	2.1455602
Tr. 40	T-18S, R-28E Sec. 1: SE/4 SE/4.	L-1645-1	40.00	1.0727801
Tr. 41	T-17S, R-29E, Sec. 30: NW/4 SW/4	OG-181-1	40.00	1.0727801
Tr. 42	T-18S, R-29E Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee-HBP	80.00	2.1455002
Tr. 43	T-18S, R-29E, Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.00	2.1455602
Tr. 44	T-18S, R-29E Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	80.00	2.1455602
TOTAL			3728.61	100.0000000

JMC/slv  
X/5114





**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

April 11, 1978

File: CGF(15)-1632-416xLF

Re: Empire South Deep Unit  
Development and Operation  
Eddy County, New Mexico

Mr. Carl C. Traywick (3)  
Area Oil & Gas Supervisor  
United States Department of  
The Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. Phil R. Lucero (3)  
Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, NM 87501

Mr. James E. Kapteine (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

*Cox 4578*

Gentlemen:

Copies of attachments 1, 2, 3, and 4 to our letter dated April 4, 1978, File: CGF(15)-416-LF needed some additional revisions. Please disregard those copies and replace them with the attached revised copies. Also attached are three updated copies of Exhibit "A" referred to in our letter of March 20, 1978, File: CGF(10)-964-416xLF.

Yours very truly,

*J L Hoyt Jr*  
J. L. Hoyt, Jr.  
Production Coordination Superintendent

JDP:rfw

Attachments

cc: Mr. V. E. Staley  
Levelland, TX

PROPOSED FIFTH MORROW PARTICIPATING AREA EXPANSION

EMPIRE SOUTH DEEP UNIT

EDDY COUNTY, NEW MEXICO

EFFECTIVE 1-1-77

<u>Unit Tract No.</u>	<u>Acreage Description</u>	<u>Lease No.</u>	<u>Participating Acres</u>
10	T-18S, R-29E, Sec. 8: NW/4 NW/4.	LC-058603	40.0
12	T-18S, R-29E, Sec. 8: E/2 NW/4, SW/4 NW/4.	LC-061702	120.0
42	T-18S, R-29E, Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee-HBP	80.0
43	T-18S, R-29E, Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.0
44	T-18S, R-29E, Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	<u>80.0</u>
TOTAL			400.00

ALLOCATION SCHEDULE

INITIAL PLUS FIRST, SECOND, THIRD, FOURTH, AND FIFTH REVISIONS OF MORROW PARTICIPATING AREA

EMPIRE SOUTH DEEP UNIT

EFFECTIVE 1-1-77

Tract No.	Description	Lease No.	Participating	% of Participating Area	Working Interest Owners	%
			Acres			
Tr. 2	T-18S, R-29E, Sec. 7: Lot 1 (NW/4 NW/4, 30.22 ac) NE/4 NW/4, Lot 2 (SW/4 NW/4, 30.37 ac) SE/4 NW/4.	LC-028772(a)	140.59	4.2809945	Amoco Production Company Harvey E. Yates Company Continental Oil Company Depco, Inc. Husky Oil Company of Delaware General American Oil Company of Texas Tenneco Oil Company Shinnery Investment Company Hondo Oil & Gas Company Cities Service Oil Company Yates Petroleum Company Harold Kersey Bassett-Birney Oil Corporation Bright, Shiff and Kennedy Me-Tex Supply Company J. Cleo Thompson, Sr. James Cleo Thompson, Jr. Charlene K. Seay I & L Development Company Sam Lett M. W. Smith Kathleen Miller Atlantic Richfield Company O. H. Randell Estate Greta M. Edgington Donald Brown Earl A. Latimer, Jr. Featherstone Farms, Ltd.	32.821910 14.218750 7.895140 6.314060 6.314060
Tr. 2-A	T-18S, R-28E, Sec. 12: NE/4.	NM-23413	160.00	4.8720330		6.105035
Tr. 3	T-18S, R-29E, Sec. 7: N/2 NE/4.	LC-028772(c)	80.00	2.4360165		3.569535
Tr. 4	T-18S, R-29E, Sec. 7: S/2 NE/4.	LC-028772(d)	80.00	2.4360165		3.281250
Tr. 6	T-18S, R-29E, Sec. 6: Lots 3 & 4, NE/4 SW/4.	NM-23414	99.93	3.0428891		2.720435
Tr. 6-A	T-18S, R-29E, Sec. 6: SE/4.	LC-058126	160.00	4.8720330		2.012940
Tr. 6-B	T-18S, R-29E, Sec. 6: SE/4 SW/4.	LC-058126	40.00	1.2180083		1.964760
Tr. 9	T-18S, R-29E, Sec. 6: E/2 NE/4.	LC-058582	80.00	2.4360165		1.744540
Tr. 10	T-18S, R-29E, Sec. 8: NW/4 NW/4.	LC-058603	40.00	1.2180083		1.610350
Tr. 12	T-18S, R-29E, Sec. 8: E/2 NW/4, SW/4 NW/4.	LC-061702	120.00	3.6540247		1.207760
Tr. 13-A	T-17S, R-29E, Sec. 30: S/2 SE/4 Sec. 31: Lot 4 (SW/4 SW/4, 29.32 ac).	LC-062407	109.32	3.3288165		1.073460
Tr. 14	T-18S, R-29E, Sec. 6: NW/4 NE/4.	LC-065374-A	40.00	1.2180083		1.073460

Tract No.	Description	Lease No.	% of		Working Interest Owners %
			Participating Acres	Participating Area	
Tr. 15	T-18S, R-29E, Sec. 6: SW/4 NE/4.	NM-9026 (KGS)	40.00	1.2180083	Robert E. Boling .100650
Tr. 17	T-17S, R-29E, Sec. 31: Lot 1 (NW/4 NW/4, 28.63 acres) NE/4 NW/4, N/2 NE/4, T-17S, R-29E Sec. 31: Lot 2 (SW/4 NW/4 28.86 acres) SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4.	NM-0555569	417.49	12.7126565	C. F. Qualia .100645
					Mark D. Wilson .100645
Tr. 17-A	T-17S, R-29E, Sec. 31: Lot 3 (NW/4 SW/4, 29.09 acres).	NM-0555569	29.09	0.8857965	A. J. Losee .100645
					Roland McLean .050325
Tr. 18	T-18S, R-29E, Sec. 6: Lots 1, 2 (W/2 NW/4).	NM-0558119 (KGS)	59.23	1.8035657	Charles W. Hicks .050325
					Trust for Olen F. Featherstone II .050325
Tr. 19	T-18S, R-29E, Sec. 6: E/2 NW/4.	NM-0560401 (KGS)	80.00	2.4360165	Margaret Holcomb .033550
Tr. 20	T-17S, R-28E, Sec. 36: SE/4 NE/4, NE/4 SE/4, NE/4 NE/4, W/2 NE/4, NW/4 SE/4.	647-368	240.00	7.3080494	Thelma Methvin .033550
					H. B. McGrady .025160
Tr. 21	T-18S, R-28E, Sec. 1: NE/4 SE/4, NW/4 NW/4, SW/4 SW/4, NW/4 SE/4.	2029-6	160.00	4.8720330	Charles C. Harlan, Jr. .025160
Tr. 24	T-17S, R-29E, Sec. 31: SE/4 SW/4.	B-4458-33	40.00	1.2180083	TOTAL 100.000000
Tr. 25	T-17S, R-29E, Sec. 32: NW/4 SW/4.	B-4918-85	40.00	1.2180083	
Tr. 31	T-17S, R-29E, Sec. 30: Lot 4 (SW/4 SW/4, 28.40 acres) SE/4 SW/4.	E-7596-0rig.	68.40	2.0827941	
Tr. 32	T-17S, R-29E, Sec. 32: SW/4 NW/4.	E-7640	40.00	1.2180083	
Tr. 33	T-17S, R-28E, Sec. 36: SE/4 SE/4.	B-11593-8	40.00	1.2180083	

Tract No.	Description	Lease No.	Participating	% of Area
			Acres	
Tr. 34	T-17S, R-29E, Sec. 32: NW/4 NW/4.	E-537-5	40.00	1.2180083
Tr. 35	T-17S, R-28E, Sec. 36: SW/4 SE/4.	E-949-0rig.	40.00	1.2180083
Tr. 36	T-18S, R-28E, Sec. 1: W/2 NE/4, E/2 NW/4, SW/4 NW/4, N/2 SW/4, SE/4 SW/4, SW/4 SE/4.	E-1284-3	360.00	10.9620742
Tr. 37	T-17S, R-29E, Sec. 31: S/2 SE/4.	E-4201-0rig.	80.00	2.4360165
Tr. 38	T-18S, R-28E, Sec. 1: E/2 NE/4.	E-6946	80.00	2.4360165
Tr. 40	T-18S, R-28E, Sec. 1: SE/4 SE/4.	L-1645-1	40.00	1.2180083
Tr. 42	T-18S, R-29E, Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee HBP	80.00	2.4360165
Tr. 43	T-18S, R-29E, Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.00	2.4360165
Tr. 44	T-18S, R-29E, Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	80.00	2.4360165
TOTAL			3284.05	100.0000000

PROPOSED SIXTH MORROW PARTICIPATING AREA EXPANSION

EMPIRE SOUTH DEEP UNIT

EDDY COUNTY, NEW MEXICO

EFFECTIVE 4-1-77

<u>Unit Tract No.</u>	<u>Acreage Description</u>	<u>Lease No.</u>	<u>Participating Acres</u>
1	T-17-S, R-29-E, Sec. 30: S/2, NE/4.	LC-028480(a)	80.00
1A	T-17-S, R-29-E, Sec. 30: N/2, NE/4.	NM-29267	80.00
13	T-17-S, R-29-E, Sec. 30: N/2 SE/4.	LC-062407	80.00
37	T-17-S, R-29-E, Sec. 30: E/2 NW/4; Lots 1, 2, 3.	E-4201	163.82
41	T-17-S, R-29-E, Sec. 30: NE/4 SW/4.	OG-181-1	<u>40.00</u>
TOTAL			443.82

INITIAL PLUS FIRST, SECOND, THIRD, FOURTH, FIFTH, AND SIXTH REVISIONS OF MORROW PARTICIPATING AREA  
 ALLOCATION SCHEDULE  
 EMPIRE SOUTH DEEP UNIT  
 EFFECTIVE 4-1-77

Tract No.	Description	Lease No.	Participating	% of Participating Area	Working Interest Owners %
			Acres		
Tr. 1	T-17S, R-29E, Sec. 30: S/2, NE/4.	LC-028480(a)	80.00	2.1459976	Amoco Production Company 32.821910
Tr. 1-A	T-17S, R-29E, Sec. 30: N/2, NE/4.	NM-29267	80.00	2.1459976	Harvey E. Yates Company 14.218750
Tr. 2	T-18S, R-29E, Sec. 7: Lot 1 (NW/4 NW/4, 30.22 ac.) NE/4 NW/4, Lot 2 (SW/4 NW/4, 30.37 ac.) SE/4 NW/4.	LC-028772 (a)	140.59	3.7713225	Continental Oil Company 7.895140 Depco, Inc. 6.314060 Husky Oil Company of Delaware 6.314060 General American Oil Company of Texas 6.105035
Tr. 2-A	T-18S, R-29E, Sec. 12: NE/4.	NM-23413	160.00	4.2919951	Tenneco Oil Company 3.569535 Shinnery Investment Company 3.281250 Hondo Oil & Gas Company 2.720435 Cities Service Oil Company 2.012940 Yates Petroleum Company 1.964760 Harold Kersey 1.744540 Bassett-Birney Oil Corporation 1.610350 Bright, Schiff and Kennedy 1.207760 Me-Tex Supply Company 1.207760 J. Cleo Thompson, Sr. 1.073460 James Cleo Thompson, Jr. 1.073460 Charlene K. Seay .603880 I & L Development Co. .536890 Sam Lett .536890 M. W. Smith .402585 Kathleen Miller .402585 Atlantic Richfield Company .402585 O. H. Randall Estate .402585 Greta M. Edgington .402585 Donald Brown .201295 Earl A. Latimer, Jr. .150970 Featherstone Farms, Ltd. .150965 Robert E. Boling .100650 C. F. Qualia .100645 Mark D. Wilson .100645
Tr. 3	T-18S, R-29E, Sec. 7: N/2 NE/4.	LC-028772(c)	80.00	2.1459976	
Tr. 4	T-18S, R-29E, Sec. 7: S/2 NE/4.	LC-028772(d)	80.00	2.1459976	
Tr. 6	T-18S, R-29E, Sec. 6: Lots 3 & 4, (W/2 SW/4) E/2 SW/4.	NM-23414	99.93	2.6806192	
Tr. 6-B	T-18S, R-29E, Sec. 6: SE/4 SW/4	LC-058126	40.00	1.0729988	
Tr. 6-A	T-18S, R-29E, Sec. 6: SE/4.	LC-058126	160.00	4.2919951	
Tr. 9	T-18S, R-29E, Sec. 6: E/2 NE/4.	LC-058582	80.00	2.1459976	
Tr. 10	T-18S, R-29E, Sec. 8: NW/4 NW/4.	LC-058603	40.00	1.0729988	
Tr. 12	T-18S, R-29E, Sec. 8: E/2 NW/4, SW/4 NW/4.	LC-061702	120.00	3.2189963	
Tr. 13	T-17S, R-29E, Sec. 30: N/2 SE/4.	LC-062407	80.00	2.1459976	
Tr. 13-A	T-17S, R-29E, Sec. 30: S/2 SE/4 Sec. 31: Lot 4 (SW/4 SW/4, 29.32 ac.).	LC-062407	109.32	2.9325057	
Tr. 14	T-18S, R-29E, Sec. 6: NW/4 NE/4.	LC-065374-A	40.00	1.0729988	

Tract No.	Description	Lease No.	Participating Acres	% of Participating Area	Working Interest Owners %
Tr. 15	T-18S, R-29E, Sec. 6: SW/4 NE/4.	NM-9026 (KGS)	40.00	1.0729988	A. J. Losee Roland McLean Charles W. Hicks Trust for Olen F. Featherstone III Margaret Holcomb Thelma Methvin H. B. McGrady Charles C. Harlan, Jr.
Tr. 17	T-17S, R-29E, Sec. 31: Lot 1 (NW/4 NW/4, 28.63 acres) NE/4 NW/4, N/2 NE/4, T-17S, R-29E Sec. 31: Lot 2 (SW/4 NW/4 28.86 acres) SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4.	NM-0555569	417.49	11.1991566	.100645 .050325 .050325 .050325 .033550 .033550 .025160 .025160
Tr. 17-A	T-17S, R-29E, Sec. 31: Lot 3 (NW/4 SW/4, 29.09 acres).	NM-0555569	29.09	.7803384	TOTAL 100.000000
Tr. 18	T-18S, R-29E, Sec. 6: Lots 1,2 (W/2 NW/4).	NM-0558119 (KGS)	59.23	1.5888430	
Tr. 19	T-18S, R-29E, Sec. 6: E/2 NW/4.	NM-0560401 (KGS)	80.00	2.1459976	
Tr. 20	T-17S, R-28E, Sec. 36: SE/4 NE/4 NE/4 SE/4, NE/4 NE/4, W/2 NE/4, NW/4 SE/4.	647-368	240.00	6.4379927	
Tr. 21	T-18S, R-28E, Sec. 1: NE/4 SE/4, NW/4 NW/4, SW/4 SW/4, NW/4 SE/4.	2029-6	160.00	4.2919951	
Tr. 24	T-17S, R-29E, Sec. 31: SE/4 SW/4.	B-4458-33	40.00	1.0729988	
Tr. 25	T-17S, R-29E, Sec. 32: NW/4 SW/4.	B-4918-85	40.00	1.0729988	
Tr. 31	T-17S, R-29E, Sec. 30: Lot 4 (SW/4 SW/4, 28.40 acres) SE/4 SW/4.	E-7596-Orig.	68.40	1.8348279	
Tr. 32	T-17S, R-29E, Sec. 32: SW/4 NW/4.	E-7640	40.00	1.0729988	
Tr. 33	T-17S, R-28E, Sec. 36: SE/4 SE/4.	B-11593-8	40.00	1.0729988	



Tract No.	Description	Lease No.	Participating	% of
			Acres	Participating Area
Tr. 34	T-17S, R-29E, Sec. 32: NW/4 NW/4.	E-537-5	40.00	1.0729988
Tr. 35	T-17S, R-28E, Sec. 36: SW/4 SE/4.	E-949-Orig.	40.00	1.0729988
Tr. 36	T-18S, R-28E, Sec. 1: S/2 NE/4, E/2 NW/4, SW/4 NW/4, N/2 SW/4, SE/4 SW/4, SW/4 SE/4.	E-1284-3	360.00	9.6569891
Tr. 37	T-17S, R-29E, Sec. 30: Lots 1, 2, 3, E/2 NW/4.	E-4201-Orig.	163.82	4.3944665
Tr. 37	T-17S, R-29E, Sec. 31: S/2 SE/4.	E-4201-Orig.	80.00	2.1459976
Tr. 38	T-18S, R-28E, Sec. 1: E/2 NE/4.	E-6946	80.00	2.1459976
Tr. 40	T-18S, R-28E, Sec. 1: SE/4 SE/4.	L-1645-1	40.00	1.0729988
Tr. 41	T-17S, R-29E, Sec. 30: NE/4 SW/4.	OG-181-1	40.00	1.0729988
Tr. 42	T-18S, R-29E, Sec. 5: NE/4 SW/4, SW/4 SE/4.	Fee-HBP	80.00	2.1459976
Tr. 43	T-18S, R-29E, Sec. 5: NW/4 SW/4, SE/4 SW/4.	Fee-HBP	80.00	2.1459976
Tr. 44	T-18S, R-29E, Sec. 5: NW/4 SE/4, SW/4 SW/4.	Fee-HBP	80.00	2.1459976
		TOTAL	3727.87	100.0000000

JDP/slv  
x/5114