GRAYBURG-JACKSON, WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO

TABLE OF CONTENTS

3 m t 2 m 3 m 3 m 3 m	•	
Article No.	Heading	Page No
	Preliminary Recitals	1
	Creation and Effect of Unit	2
II	Rentals, Royalties and Continuation of Leases	3
III	Operator and Operating Methods	. 3
ıv	Development Obligation	3
V	Measurement, Use or Loss of Unitized Substances	3
VI	Laws, Rules and Regulations	4
VII	Injection Fights	4
VIII	No Transfer of Title	4
ıx	Outside Substances	4
х	Effective Date and Term of Agreement	5
XI	Force Majeure	5
XII	Use of Surface and Water	S
XIII	Counterpart Execution	5
xiv	Headings	5
xv	Covenants Run With The Land	. 8
Prhibit "a"	•	

NMOCD CASE NO. 13956 JULY 26, 2007 COG OPERATING LLC EXHIBIT NO. JDM:1p 5-26-66

GRAYBURG-JACKSON, WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO

THIS AGREEMENT, made and entered into as of the day day of the company, a Delaware corporation, whose address is Fourth Floor, 201 Wall Building, Midland, Texas, hereinafter sometimes referred to as "Operator", and the other parties who have signed the original of this instrument, a counterpart thereof or other instrument agreeing to be bound by the provisions hereof.

WITNESSETH, THAT:

WHEREAS, Operator is the present owner and holder of the entire working interests and rights in, to and under the Oil and Gas Leases described in Exhibit "A" attached hereto and made a part hereof for all purposes insofar as said Oil and Gas Leases cover the lands described in said Exhibit; and

WHEREAS, the other parties hereto are lessees of record or the owners of royalty or other interests in and to the oil, gas and associated hydrocarbons which may be in, under or producible from the lands described in Exhibit "A"; and

WHEREAS, under the applicable rules and regulations of the Oil Conservation Commission of the State of New Mexico, it is necessary and desirable to form a unit consisting of Two Thousand (2000) acres, more or less, for the purposes of conducting secondary recovery operations in that portion of the Grayburg-San Andres formation underlying the lands described in Exhibit "A" which is encountered between the depths of 2200 feet and 3600 feet; and

WHEREAS, that portion of the Grayburg-San Andres formation which is described hereinabove is hereinafter sometimes referred to as "Unitized Formation"; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is hereinafter referred to as the "Commissioner"; and

WHEREAS, the Oil Conservation Commission of the State of New Mexico is hereina ter referred to as the "Commission"; and

WHEREAS, the New Mexico Statutes (Laws 1955, Ch. 259, § 1, and Laws 1961, Ch. 176, § 1) provide that, for the purpose of more properly conserving the oil and gas resources of the State of New Mexico, the Commissioner may consent to and approve the development or operation of State Lands under agreement made by lessees of State Lands jointly or severally with other lessees of State Lands and other lands; and

WHEREAS, the oil, gas and associated hydrocarbons which may be in and producible from the Unitized Formation are hereinafter referred to as "Unitized Substances"; and

WHEREAS, the parties hereto desire to combine and prod the Oil and Gas Leases described in Exhibit "A" in order to form a unit for the production of Unitized Substances from the Unitized Formation underlying the following described Lands:

Township 17 South, Range 29 East, N.M.P.M. Eddy County, New Mexico

Section 15: W/2 SW/4

Section 16: S/2 SW/4, SE/4

Section 21: All

W/2 W/?, E/2 NW/4, NE/4 SW/4, NW/4 NE/4 Section 22:

Section 27: W/2 SW/4

Section 28: All

Containing 2000 acres, more or less; and

WHEREAS, the above described lands are hereinafter referred to as the "Unit Area"; and

WHEREAS, in order to be consistent with the existing rules and regulations governing well spacing and production allowables and to prevent waste, the parties hereto desire to operate the entire Unit Area for the purpose and intention of developing Unitized Substances producible from the Unitized Formation in accordance with the terms and provisions of this agreement.

NOW, THEREFORE, in consideration of the premises and the mutual advantages offered by this agreement, it is mutually covenanted and agreed by and between the parties hereto as follows:

Creation and Effect of Unit

Subject to the provisions of this agreement, all rights of the parties hereto in and to the Oil and Gas Leases described in Exhibit "A", insofar as said rights cover and apply to the Unitized Formation, are hereby unitized so that operations may be conducted as if the Unitized Formation had been included in a single lease executed by the other parties hereto, as Lessors, in favor of Operator, as Lessee, and as if such lease had been subject to this agreement. ject to this agreement.

- The Unit Area shall be developed and operated for Unitized Substances extracted and producible from the Unitized Formation, as an entirety, with the understanding and agreement that the Unitized Substances produced from the Unitized Formation shall be allocated among the leaseholds comprising the Unit Area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed hereto.
- C. The commencement, completion, continued operation or production of a well or wells for Unitized Substances extracted therefrom on the Unit Area from the Unitized Formation as an entirety shall be construed and considered as the commencement, completion, continued operation and production from each lease committed hereto.
- The amount of Unitized Substances allocated to each lease, regardless of whether it be more or less than the amount of Unicized Substances actually produced from the well or wells, if any, located on such lease shall, for all purposes and uses, be deemed to have been produced from such lease.

Rentals, Royalties and Continuation of Leases

- A. Except as herein modified and changed, the Oil and Gas Leases described in Exhibit "A" shall remain in full force and effect as originally made and issued.
- B. Payment of the rentals under the terms of the leases described in Exhibit "A" shall not be affected by this agreement except as provided for under the terms and provisions of said leases, the laws, rules and regulations of the State of New Mexico, or as may herein be otherwise provided.
- C. The royalties payable for Unitized Substances allocated to the lands comprising the Unit Area shall be determined and paid on the basis prescribed in the respective individual leases covering the lands to which such Unitized Substances are allocated as hereinabove provided.

III. Operator and Operating Methods

- A. Tenneco Oil Company shall be the operator of the Unit Area and all matters of operation shall be governed by the provisions of this agreement, the Oil and Gas Leases described in Exhibit "A" except as herein modified, and the laws, rules and regulations of the State of New Mexico.
- B. Nothing contained herein shall prevent Operator from discontinuing or changing, in whole or in part, any method of operation which, in the opinion of Operator, is no longer in accord with good engineering, operating or production practices. Other methods of operation may be conducted or changes may be made by Operator, subject to the approval of the Commission or the Commissioner, whenever necessary, from time to time if determined by Operator to be feasible, necessary or desirable to increase the ultimate recovery of Unitized Substances.

IV. Development Obligation

There shall be no obligation on Operator to offset any well or wells on the separate component tracts into which the Unit Area is now or may hereafter be divided, but Operator shall not be released from its obligation to protect the Unit Area from well or wells which may be drilled offsetting said Unit Area.

v.

Measurement, Use or Loss of Unitized Substances

- A. Operator shall not be required to separately measure the Unitized Substances extracted from the separate component tracts into which the Unit Area is now or may hereafter be divided by reason of diverse ownership interests in the Unitized Substances in and under said tracts.
- B. Operator may use as much of the Unitized Substances as Operator deems necessary for operations hereunder, including but not limited to the injection thereof into the Unitized Formation.
- C. No royalty, overriding royalty, production or other payment shall be payable upon, or with respect to, Unitized Substances used or consumed in operations hereunder or which may otherwise be lost or consumed in the production, handling, treating, transporting or storing of Unitized Substances.

VI. Laws, Rules and Regulations

All production of Unitized Substances and disposal thereof shall be in conformity with allocations, allotments and quotas made and fixed by the duly authorized person or regulatory body under applicable Federal or State Statutes. The provisions of this agreement shall be subject to all applicable Federal or State laws or executive orders, rules and regulations which affect performance of any of the provisions of this agreement and Operator shall not suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by or if such failure results from compliance with any such law, rule or regulation.

VII. Injection Rights

All parties hereto, other than Operator, do hereby grant to Operator the right to inject gas, water or other fluids or combinations thereof into the Unitized Formation in whatever amounts Operator deems expedient for operations under this agreement. Operator is also granted the right to drill or maintain injection wells on the Unit Area and to use producing or abandoned oil or gas wells for such purposes.

VIII. No Transfer of Title

Nothing contained herein shall be construed to result in the transfer of any title to any interest in any of the Oil and Gas Leases described in Exhibit "A", or the Unitized Substances or the Unit Area by any party hereto to any other party hereto. It is the intention hereof to provide for the cooperative operation and development of the Unit Area and for the allocation of Unitized Substances produced from the Unitized Formation as herein provided.

IX. Cutside Substances

A. For the purposes of this agreement, Outside Substances shall mean all substances obtained from any source other than the Unitized Formation and which are injected into the Unitized Formation and which, when subsequently produced, are sold or used for purposes other than operations hereunder.

- B. If any Outside Substances, consisting of natural gases, are injected into the Unitized Formation, a percentage of like substances actually recovered, as indicated by proper engineering tests, shall, with the approval of the Commissioner, be deemed to be Outside Substances until the aggregate of said percentage as above determined equals the accumulated volume of natural gases injected into the Unitized Formation.
- C. If the Outside Substances which are injected are liquified petroleum gases, or other liquid hydrocarbons, as distinguished from natural gases, then, beginning one (1) year after injection of such liquified petroleum gases or other liquid hydrocarbons is commenced, a percentage of like substances actually recovered as indicated by proper production tests, or a percentage of all Unitized Substances produced as may be agreed upon by the Commissioner and Operator, shall, with the approval of the Commissioner, be deemed to be Outside Substances until the aggregate value of the aforesaid percentage equals the entire accumulative nost to Operator of such liquified petroleum gases or other liquid hydrocarbons so injected.

D. N. royalty, overriding royalty, production or other payment shall be due or payable to the owner of any royalty, overriding royalty, payment out of production or other interest on any substance which is classified hereunder as an Outside Substance.

X. Effective Date and Term of Agreement

- A. This agreement shall be subject to the consent and approval of the Commissioner.
- B. This agreement shall be effective as of 7:00 A.M., M.S.T., the first day of the calendar month following the date of approval of this agreement by the Commissioner and shall remain in force and effect for a period of twelve (12) months and so long thereafter as Unitized Substances are produced in paying quantities from any part of the Unit Area and so long thereafter as drilling, reworking or other operations including but not limited to secondary recovery operations are prosecuted hereunder without cessation of more than ninety (90) days and so long thereafter as Unitized Substances can be produced as aforesaid unless sooner terminated by Operator, with the approval of eighty percent (80%) of the Working Interest Owners and the Commissioner, filing a certificate of termination, showing the date of termination, with the Commissioner and in the records of Eddy County, New Mexico.
- C. Operator shall file this agreement for record in Eddy County, New Mexico, together with a certificate to the effect that this agreement has become effective according to its terms and stating the effective date hereof.

XI. Force Majeure

All obligations imposed by this agreement on Operator, except for the payment of money, shall be suspended while compliance is prevented, in whole or in part, by a strike, fire, war, civil disturbance, act of God; by Federal, State or municipal laws, by any rule, regulation, or order of a governmental agency; by inability to secure materials; or by any other cause or causes beyond reasonable control of Operator. Operator shall not be required against its will to adjust or settle any labor dispute. Neither this agreement nor any lease or other instrument subject hereto shall be terminated by reason of suspension of operations hereunder due to any one or more of the causes set forth in this Article.

XII. Use of Surface and Water

- A. The parties hereto, other than Operator, to the extent of their rights and interests, do hereby grant to Operator the right to use so much of the surface of the land within the Unit Area as may reasonably be necessary for operations hereunder.
- B. Operator shall have free use of water from the Unit Area for all operations under this agreement, except water from any well, private lake, pond or irrigation ditch of any party hereto.

XIII. Counterpart Execution

Any person or party may become a party to this agreement by signing the original of this agreement, a counterpart thereof or other instrument agreeing to be bound by the provisions hereof.

XIV. Headings

The headings set forth above the Articles of this agreement are for convenience only and shall in no manner be used in construing or interpreting any provision hereof.

XV. Covenants Run With The Lind

This agreement shall be binding upon the parties Mereto and shall extend to and be binding upon their heirs, executors, administrators, personal representatives, successors and assigns and shall constitute covenants running with the lands, leases and interests covered hereby.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written, but effective as hereinabove provided.

TENNECO OIL COMPANY

Sy Sont and Attorney-in-Fact

REW

ATTEST:

Secretary Secretary

MIDWEST INVESTMENT COMPANY

By Tuak S. Mossman

EL PASO NATURAL GAS COMPANY

By Attorney In-Fact

CONTINENTAL ILLINOIS BANK AND TRUST COMPANY OF CHICAGO, CHICAGO, ILLINOIS

By Robertsulus
SENIOR Vice President

Robert W. Garver, Trustee

EDUCATIONAL FOUNDATION, INC.

By President

ATTEST:

ATTEST:

Berry & Pretty Secretary

THE STATE OF TEXAS COUNTY OF MIDLAND The foregoing instrument was acknowledged before me this 250 day of ______, 1966, by J. P. Roach, Agent and Attorney-in-Fact of Tenneco Oil Company, a Delaware corporation, on behalf of said corporation. Midland County, Texas JOY J. ALLISON
201 WALL BLDG. 4TH FLOOR
MIDGAND, TEXAS
NOTARY PUBLIC IN & FOR
MIDGAND COUNTY, TEXAS My commission expires June 1, 1967. THE STATE OF New Mexico X CUINTY OF _ Chares 07777 PUBL (County, The Worker is coul Myncommission expires THE STATE OF TEVAS COUNTY OF Elfaso The foregoing instrument was acknowledged before me this day of day of July , 1966, by Sam Smith
Attorney-in-Fact of El Paso Natural Gas Company, a Lie Law corporation, on behalf of said corporation. ELOISE PUSSE Rotary Public in and for El Paso County, Yaxes Public Paso County, My commission expires 6-1-6-THE STATE OF TALINOIS COUNTY OF ___COOK The foregoing instrument was acknowledged before me this 17 th day of Great , 1966, by ROSERT O SUHR , SENIOR Vice President of Continental Illinois Pank and Trust Company of Chicago Chicago Illinois Chicago, Chicago, Illinois, a NATIONAL banking institution, on behalf of said institution. Notary Public in and for COOK County, ILLINO MY COMMISSION TO PIRES MARCH 16, : 368 My commission expires

NEW TO THE PERSON NAMED IN

THE STATE OF THE PARTY OF THE P

	usust	1966, by Robert W. Garver, Trustee.
TA 15		Countle O. Line Ki
Mary Company		Notary Public in and for
BLIC	MY CO	OMMISSION EXPIRES
My commission		MARCH 16, 1968
THE STATE OF	TEXAS	X
COUNTY OF	HARRIS	ss X
		ant the agreement admed begans to this
The fore		nent was acknowledged before me this 1966, by THEODORE E. SWIGART
day of Aug		
President of	Educational Fo	orndation, Inc., a <u>Delaware</u>
President of	Educational Fo	orndation, Inc., a <u>Delaware</u> said corporation.
President of	Educational Fo	
President of	Educational Fo	

EXHIBIT "A"

All lands in Township 17 South, Range 29 East, N.M.P.M. Eddy County, New Mexico

Tract No. 1

Tenneco Lease No.

Lease Date:

Lessor:

Original Lessee:

Present Lessee of Record and Working Interest Owner:

Recorded:

O.R.R.I. and Percentage:

Description of Lands Committed:

Number of Acres:

Tract No. 2

Tenneco Lease No.

Lease Date:

Lessor:

Original Lessee:

Present Lessee of Record and Working Interest Owner:

State of New Mexico Lease No.

O.R.P.I. and Percentage:

Description of Lands Committed:

Number of Acres:

Tract No. 3

Tenneco Lease No.

Lease Date:

Lessor:

Original Lessee:

Present Lessee of Record and Working Interest Owner:

30401

June 16, 1948

Midwest Investment Company

Leonard Oil Company

Tenneco Oil Company - 100%

Book 30 at Page 524, Oil and Gas Records of Eddy County, New Mexico

Educational Foundation, Inc. *

Section 22: NW/4 NW/4

40

30,408

September 10, 1931

The State of New Mexico

E. Ruth Piatt

Tenneco Oil Company - 100%

B-255-8

Educational Foundation, Inc.*

Section 15: SW/4 SW/4 Section 16: S/2 SW/4.

NE/4 SE/4

Section 28: SE/4, SE/4 SW/4

360

30,409

April 15, 1933

The State of New Mexico

Leonard and Levers, Inc.

Tenneco Oil Company - 100%

State of New Mexico Lease No.

O.R.R.I. and Percentage;

Description of Lands Committed:

Number of Acres:

Tract No. 4

Tenneco Lease No.

Lease Date:

Lessor:

Original Lessee:

Lessee of Record:

Present Working Interest Owner:

State of New Mexico Lease No.:

O.R.R.I. and Percentage:

Description of Lands Committed:

Number of Acres:

Tract No. 5

Tenneco Lease No.

Lease Date:

Lessor:

Original Lessee:

Present Lesses of Record and Working Interest Owner:

State of New Mexico Lease No.

O.P.R.I. and Percentage:

Description of Lands Committed:

Number of Acres:

Tract No. 5

Tenneco Lease No.

Lease Date:

Lessor:

Original Lesses:

Present Lessee of Record and Working Enterest Owner:

State of New Mexico Lease No.

B-514-7

- Educational Foundation, Inc.*

Section 28: N/2. N/2 SW/4, SW/4 SW/4

440

30,411

January 5, 1933

The State of New Mexico

Leonard & Levers, Inc.

El Paso Natural Gas Company

Tenneco Oil Company - 100% **

B-1266-3

Educational Foundation, Inc.*

Section 22:

SW/4 SW/4, N/2 SW/4, E/2 NW/4

200

30,411

January 5, 1933

The State of New Mexico

Leonard & Levers, Inc.

Tenneco Oil Company - 100%

B-1266-5

Educational Foundation, Inc. 4

Section 21: S/2 NE/4, E/2 W/2,

400

30,417

March 10, 1942

The State of New Mexico

Ed W. Owen

Tenneco Oil Company - 100%

B-9563-5

O.R.R.I. and Percentage:

Description of Lands Committed:

Number of Acres:

Tract No. 7

Tenneco Lease No.

Lease Date:

Lessor:

Original Lessee:

Present Lessee of Record:

Present Working Interest Owner:

State of New Mexico Lease No.

O.R.R.I. and Percentage:

Description of Lands Committed:

Number of Acres:

Tract No. 8

Tenneco Lease No.

Lease Date:

Lessor:

Original Lessee:

Present Lessee of Record and Working Interest Owner:

State of New Mexico Lease No.

O.R.R.I. and Percentage:

Description of Lands Committed:

Number of Acres:

Educational Foundation, Inc. *

Section 21: N/2 NE/4, W/2 N/2

240

30,418

October 11, 1943

The State of New Mexico

D. E. Wallace

El Paso Natural Gas Company

Tenneco Oil Company - 100% **

B-10714-3

Educational Foundation, Inc.*

Section 22: SW/4 NW/4, NW/4 NE/4

NW/4 D

30,418

80

October 11, 1943

The State of New Mexico

D. E. Wallace

Tenneco Oil Company - 100%

B-10714-5

Mducational Foundation, Inc.*

Section 15: NW/4 SW/4

Section 16: W/2 SE/4, SE/4 SE/4

Section 27: W/2 SW/4

240

Seventy-five per cent (75%) of the oil, gas and other hydrocarbon substances producible from the Unit Area and other lands until the primary sum of \$5,500,000.00 has been paid as more particularly provided in Part I of that certain two (2) part Conveyance dated October 1, 1965, from Leonard Oil Company to Tenneco Oil Company, recorded in Book 160 at Page 23 of the Records of Eddy County, New Mexico. Said production payment was conveyed by Part II of the aforesaid Conveyance to Educational Foundation, Inc. Reference is made to said Conveyance for all purposes hereof. Educational Foundation, Inc. mortgaged its interest to Robert W. Garver, Trustee, and Continental Illinois National Bank and Trust Company of Chicago, Chicago, Illinois, by Mortgage dated October 1, 1365, recorded in Mortgage Book 230 at Page 289 of the Records of Eddy County, New Mexico.

TOTAL PROPERTY OF THE PARTY OF

Unitized Formation and other formations by virtue of assignments of operating rights from the present messes of Record or its predecessor in title to a predecessor in title t

STATE OF NEV. MEXICO, County of Eddy, ss. I bereby certify that this astronger	
record of the day of Cri	Part of the second of the seco
recorded in Book 170 page 109 of the Records of Out 2	L. and duly
Geraldine Mahaffey, County Clerk	
	of the second
By Call	Deputy

CERTIFICATE OF APPROVAL

COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO GRAYBURG-JACKSON, WEST COOPERATIVE UNIT

EDDY COUNTY, NEW MEXICO

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, the attached Agreement for the development and operation of acreage which is described within the attached Agreement, dated <u>Sune 23, 1966</u>, which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the state, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conterned upon me under Sections 7-11-39. 7-11-40, 7-11-41, 7-11-47, and 7-11-48, New Mexico Statutes Annotated, 1953 Compilation, I, the undersigned, Commissioner of Public Lands of the State of New Mexico, fe. the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this 28th. day of SEPTEMBER , 19 66

of the State of New Mexico



FIRST AMENDMENT TO GRAYBURG-JACKSON, WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO



THIS FIRST AMENDMENT to the Grayburg-Jackson, West Cooperative Unit Agreement, Eddy County, New Mexico, made and entered into as of the / day of ///// , 1966, by and between Tenneco Oil Company, a Delaware corporation, whose address is Ninth Floor, Wilco Building, Midland, Texas 79701, hereinafter sometimes referred to as "Operator", and the other parties who have signed the original of this instrument, a counterpart thereof or other instruments agreeing to be bound by the provisions hereof:

WITNESSETH, that:

WHEREAS, the Grayburg-Jackson, West Cooperative Unit Agreement, Eddy County, New Mexico, hereinafter sometimes referred to as the "Unit Agreement" was made and entered into as of the 23rd day of June, 1966, was approved by the New Mexico Oil Conservation Commission (hereinafter sometimes referred to as the "Commission") on October 4, 1966, in Case No. 3468, Order No. R-3127, was approved by the Commissioner of Public Lands of the State of New Mexico (hereinafter sometimes referred to as the "Commissioner") on September 28, 1966, and was recorded in the Office of the Eddy County Clerk, New Mexico in Book _//C at page _/C9 , to all of which reference is hereby made and the Unit Agreement is incorporated herein by reference; and,

WHEREAS, the parties hereto desire to expand "the Unit Area" (defined in the Unit Agreement) to cover and embrace certain additional lands located in Eddy County, New Mexico, and as so amended to ratify and confirm the Unit Agreement;

NOW, THEREFORE, in consideration of the premises and the mutual advantages of this Agreement, and for valuable consideration paid, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. <u>Unit Area:</u> The Unit Area covered and embraced in the Unit Agreement, effective as of the date first hereinabove written, shall be and is:

Township 17 South, Range 29 East, N.M.P.M.

Section 15: W½SW¼ Section 16: All Section 21: All

Section 22: Wowley, Elenway, NEASWay, NWANEA

Section 27: W2SW2 Section 28: All

containing 2,400 acres, more or less.

2. Tract 2 of Exhibit "A" to the Unit Agreement is amended to cover and embrace the following described lands:

Township 17 South, Range 29 East, N.M.P.M.

Section 16: NW\(\frac{1}{2}\)NW\(\frac{1}{2}\), NE\(\frac{1}{2}\)SE\(\frac{1}{2}\), NW\(\frac{1}{2}\)SW\(\frac{1}{2}\)

Section 28: SE\(\frac{1}{2}\), SE\(\frac{1}{2}\)SW\(\frac{1}{2}\)

containing 440 acres, more or less.

3. Tract 8 of Exhibit "A" to the Unit Agreement is amended to cover and embrace the following described lands:

Township 17 South, Range 29 East, N.M.P.M.

Section 15: NW\square SW\square

Section 16: NE\(\frac{1}{2}\), NE\(\frac{1}{2}\)NW\(\frac{1}{2}\), SW\(\frac{1}{2}\)NW\(\frac{1}{2}\),

W½SE¼, SE¼SE¼

Section 27: Waswa

containing 480 acres, more or less.

4. There is added to Exhibit "A" to the Unit Agreement the following tracts:

Tract No. 9:

Tenneco Lease No. 30466

Lease Date:

December 17, 1963

Lessor:

The State of New Mexico

Original Lessee:

Leonard Oil Company

Present Lessee of Record and Working Interest

Owner:

Tenneco Oil Company -- 100%

State of New

Mexico Lease No.: K-3790

O.R.R.I. and

Percentage:

Robert J. Leonard ***

Description of

Lands Committed: Section 16: SE4NW4

No. of Acres:

40

***--3/32 of 8/8 of all oil, gas, casinghead gas and other minerals which may be produced, saved and marketed from the Unit Area , and other lands, until the primary sum of Three Million Dollars (\$3,000,000.00) has been paid, as more particularly described in an Assignment, dated October 1, 1965, from Leonard Oil Company to Tenneco Oil Company, recorded in Book 160 at page 67 of the Records of the Eddy County Clerk, New Mexico. Said production payment was conveyed by Leonard Oil Company to Robert J. Leonard, Patrick J. Leonard and Timothy T. Leonard by an Assignment and Conveyance dated January 7, 1966, recorded in Book 163 at page 149 of said Records. Section 3 of said Assignment provides in part: "Tenneco shall have the right, and is hereby authorized by Leonard to unitize all or any tract of land described in Exhibit B (the land covered by Tract No. 9) with adjacent lands, leasehold or other interests when, in the reasonable judgment of Tenneco, it is necessary or advisable to do so in order to facilitate the orderly development of the properties affected thereby, whether as an incident to primary production, secondary production or additional production, pressure maintenance, waterflooding or otherwise. Any such Unit so formed shall be in such size and area as shall, in the reasonable judgment of Tenneco, be deemed expedient or advisable under the circumstances, and the production produced from such Unit so formed shall be allocated among the separate owned tracts or interests comprising the Unit in the proportion provided for by such Unit Agreement. Any Unit so formed may relate to one or more zones or horizons, and any Unit formed for a particular zone or horizon need not conform in area to any other Unit relating to a different zone or horizon, and a Unit formed for the production of oil need not conform in area with any Unit for the production of gas . . . ".

Tract No. 10:

Tenneco Lease No. 30798

Lease Date: July 10, 1933

Lessor: The State of New Mexico

Original Lessee: Snowden & McSweeney Co.

Owner:	Tenneco Oil Company 100% ** down to 3100' subsurface
State of New Mexico Lease No.:	B-2023
O.R.R.I. and Percentage:	Sinclair Oil & Gas Company 1/16 of 8/8
Description of Lands Committed:	Section 16: NEZSWZ
No. of Acres:	40
	the Unit Agreement is in all respects accordance with the terms and provisions
	, the parties hereto have executed this and year first above written, effective
	TENNECO OIL COMPANY
	By Agent and Attorney-in-Fact
ATTEST:	MIDWEST INVESTMENT COMPANY
June Reseley	By Oluth S. Mossman
Secretary /	President EL PASO NATURAL GAS COMPANY
,	ByAttorney-in-Fact
ATTEST:	CONTINENTAL ILLINOIS NATIONAL BANK AND TRUST COMPANY OF CHICAGO, CHICAGO, ILLINOIS
	By
Cashier	Vice-President
	Robert W. Garver, Trustee

Sinclair Oil & Gas Company

Present Lessee of

Working Interest

Record:

•	Percentage:	Sinclair Oil & Gas Company 1/16 of 8/8
	Description of Lands Committed:	Section 16: NE칺SW붛
	No. of Acres:	40
ratifi thereo	ed and confirmed in	the Unit Agreement is in all respects accordance with the terms, and provisions
		the parties hereto have executed this and year first above written, effective
		TENNECO OIL COMPANY
		By Agent and Attorney-in-Fact
ATTEST	Y: ,	MIDWEST INVESTMENT COMPANY
		Ву
	Secretary	President
		EL PASO NATURAL GAS COMPANY
		Attorney-in-Fact Of
ATTEST	2:.	CONTINENTAL ILLINOIS NATIONAL BANK AND TRUST COMPANY OF CHICAGO, CHICAGO, ILLINOIS
		Ву
	Cashier	Vice-President
		Robert W. Garver, Trustee

Sinclair Oil & Gas Company

B-2023

Tenneco Oil Company -- 100% **
down to 3100' subsurface

Present Lessee of

Working Interest

Mexico Lease No.:

State of New

O.R.R.I. and

Record:

Owner:

Working Interest Owner: Tenneco Oil Company 100% ** down to 3100' subsurface State of New Mexico Lease No.: B-2023 O.R.R.I. and Percentage: Sinclair Oil & Gas Company 1/16 Description of Lands Committed: No. of Acres: 40 As hereby amended, the Unit Agreement is in all respectatified and confirmed in accordance with the terms and providence of. IN WITNESS WHEREOF, the parties hereto have executed the instrument as of the day and year first above written, effect as hereinabove provided. TENNECO OIL COMPANY By Agent and Attorney-in-	ts.
O.R.R.I. and Percentage: Sinclair Oil & Gas Company 1/16 Description of Lands Committed: Section 16: NE\(\frac{1}{2}\)SW\(\frac{1}{2}\) No. of Acres: 40 As hereby amended, the Unit Agreement is in all respectatified and confirmed in accordance with the terms and provisit thereof. IN WITNESS WHEREOF, the parties hereto have executed the instrument as of the day and year first above written, effect as hereinabove provided. TENNECO OIL COMPANY	ts.
Percentage: Sinclair Oil & Gas Company 1/16 Description of Lands Committed: Section 16: NE\(\)SW\(\) No. of Acres: 40 As hereby amended, the Unit Agreement is in all respectatified and confirmed in accordance with the terms and provisithereof. IN WITNESS WHEREOF, the parties hereto have executed the instrument as of the day and year first above written, effect as hereinabove provided. TENNECO OIL COMPANY By	ts.
Lands Committed: Section 16: NEZSWZ No. of Acres: 40 As hereby amended, the Unit Agreement is in all respectatified and confirmed in accordance with the terms and providereof. IN WITNESS WHEREOF, the parties hereto have executed the instrument as of the day and year first above written, effect as hereinabove provided. TENNECO OIL COMPANY By	
As hereby amended, the Unit Agreement is in all respectatified and confirmed in accordance with the terms and providereof. IN WITNESS WHEREOF, the parties hereto have executed the instrument as of the day and year first above written, effect as hereinabove provided. TENNECO OIL COMPANY By	
IN WITNESS WHEREOF, the parties hereto have executed the instrument as of the day and year first above written, effects as hereinabove provided. TENNECO OIL COMPANY By	
instrument as of the day and year first above written, effects as hereinabove provided. TENNECO OIL COMPANY By	sions
Ву	
Agenc and Accorney-in-	Fact
ATTEST: MIDWEST INVESTMENT COMPANY	
By	
Secretary President	
EL PASO NATURAL GAS COMPANY	
ByAttorney-in-Fact	
ATTEST: CONTINENTAL ILLINOIS NATIONAL TRUST COMPANY OF CHICAGO,	BANK AND
CHICAGO, ILLINOIS By Q Q. Q.Q.	
Vice-Preside	<u>c</u>
Robert W. Garver, Trust	nt

ATTEST:	
Selection Co.	The Elizabet
	Secretary .

EDUCATIONAL FOUNDATION, INC.

By Musling E. Surger

SINCLAIR OIL & GAS COMPANY

Вv

- 1			 •	20	
			~-		•
	_	_	 _		

EDUCATIONAL FOUNDATION. INC.

	Secretary	 `	By		Presićent
H. Have		APPROVED COMMENTARION OF COMME	sinclair by <i>O</i>	OIL & GAS	COMPANY

STATE OF TEXAS)
county of mediand)
The foregoing instrument was acknowledged before me this /8th day of January, 1968 by J. P. Roach, Agent and Actorney-in-Fact of Tennaso Oil Company, a Delaware corporation, on behalf of said corporation.
My Commission Expires June 1, 1989.
STATE OF NEW MEXICO)) ss.
COUNTY OF CHAVES)
The foregoing instrument was acknowledged before me this 23 day of January, 1968 by Mulh & Mossman , President of Midwest Investment Company, a New Mexico corporation, on behalf of said corporation. E. Bornard Johnston
My formission Expires:
STATE OF TEMAS)) ss. COUNTY OF EL PASO)
The foregoing instrument was acknowledged before me this
My Commission Expires . June 1, 1969.
STATE OF ILLINOIS)
COUNTY OF COCK)
The foregoing instrument was acknowledged before me this
My Commission Expires: Notary Public

STRUE OF THEAS			•	
) 83.			
COUNTY OF PARDLEYED)			
The foregoing day of January, 190 Actorney-in-Fact of on behalf of said e	Tenneyo Oil C orporation.	ompany, a Delat	before me this	,
My Commission Expir June 1, 1989.	es	Nocery	Public	
STATE OF NEW MENTOO)) ss.			
The foregoing day of January, 196 of Midwest Investme of said corporation	8 by		. Presiden	t alf
	· .	w w		
	-		y Public	
My Commission Expir	es:	Noces	y Public	•
	-	•	•	
				•
STATE OF TEMAS)	,	,		•
```	9.3			
COUNTY OF EL PASO:)	S 3 •			
	8 by FEL Paso Watur	cal Gas Company		, , poration,
The foregoing day of January, 196 Autorney-in-Pact of on behalf of said o	S by El Pasc Natur orporation	cal Gas Company	before me this , a Delaware cor Public	, , poration,
The foregoing day of January, 196 Autorney-in-Fact of	S by El Pasc Natur orporation	cal Gas Company	, a Delaware cor	, , poration,
The foregoing day of January, 196 Automney-in-Fact of on behalf of said to	S by El Pasc Natur orporation	cal Gas Company	, a Delaware cor	poration,
The foregoing day of January, 196 Autorney-in-Fact of on behalf of said of the Said of	S by	eal Gas Company  Notary  Bank and Trust	, a Delaware cor Public  Public  Vice Pr Company of Chic	poration,
The foregoing day of January, 198 Autorney-in-Fact of on behalf of said of the State of State of June 1, 1969.  STATE OF HILLINOIS )  COUNTY OF COOK )  The foregoing day of January, 198	S by	as acknowledged  Bank and Trust  nking instituti	, a Delaware cor Public  Public  Vice Pr Company of Chic	poration,
The foregoing day of January, 196 Autorney-in-Fact of on behalf of said of the State of January, 196 of Continental Tale Chicago, Illinois, institution.	S by	as acknowledged  Bank and Trust  nking instituti	Public  Public  Company of Chicalon, on behalf of	poration,
The foregoing day of January, 196 Autorney-in-Fact of on behalf of said of the State of January, 196 of Continental Tale Chicago, Illinois, institution.	S by	as acknowledged  Bank and Trust  nking instituti	Public  Public  Company of Chicalon, on behalf of	poration,
The foregoing day of January, 196 Autorney-in-Fact of on behalf of said of the State of January, 196 of Continental Tale Chicago, Illinois, institution.	S by	as acknowledged  Bank and Trust  nking instituti	Public  Public  Company of Chicalon, on behalf of	poration,
The foregoing day of January, 196 Autorney-in-Fact of on behalf of said of the State of January, 196 of Continental Tale Chicago, Illinois, institution.	S by	as acknowledged  Bank and Trust  nking instituti	Public  Public  Company of Chicalon, on behalf of	poration,
The foregoing day of January, 196 Autorney-in-Fact of on behalf of said of the State of January, 196 of Continental Tale Chicago, Illinois, institution.	S by	as acknowledged  Bank and Trust  nking instituti	Public  Public  Company of Chicalon, on behalf of	poration,

			•
	STATE OF TEXAS )		
	) ss.		
	COUNTY OF MIDLAND )		
	The foregoing instrument was ac day of January, 1968 by	, Ag	ent and
	Attorney-in-Fact of Tenneco Oil Compa on behalf of said corporation.	ny, a Delaware	corporation,
	on behalf of said corporacion.		
		Notary Publ	ic
	My Commission Expires June 1, 1969.		1
	Julie 1, 1909.		
	STATE OF NEW MEXICO )		
	COUNTY OF CHAVES )		
	The foregoing instrument was ac day of January, 1968 by		, President
	of Midwest Investment Company, a New of said corporation.	Mexico corporat	ion, on behalf
		Notary Pub	lic
:	My Commission Expires:		
:	STATE OF TEXAS )		
	COUNTY OF EL PASO )		:
	The foregoing instrument was ac day of January, 1968 by		
	Attorney-in-Fact of El Paso Natural Con behalf of said corporation.	Gas Company, a I	Delaware corporation,
	Mar Commission I	Notary Publ	ic .
	My Commission Expires June 1, 1969.		·
	STATE OF ILLINOIS )		
	COUNTY OF COOK )		
	The foregoing instrument was ac day of January, 1968 by		ore me this 31 , Vice President
	of Continental Illinois National Bank Chicago, Illinois, a National banking	c and Trust Comp	pany of Chicago,
	institution.	7	1 1
	My Commission Expires:	Notary Pul	Vic
	MY COMMISSION EXPIRES	mocary 1 di	
	MARCH 16, 1968 -6-		•

STATE OF ILLINOIS ) ) ss. COUNTY OF COOK )	
The foregoing instrument was day of January, 1968 by Robert W.	Garver, Trustee.  September 1998  Notary Public
My Commission Expires:  MY COMMISSION EXPIRES  MARCH 16. 1968  STATE OF TEXAS	No cary i dorizo
) ss.  COUNTY OF HARRIS )  The foregoing instrument was day of January, 1968 by of Educational Foundation, Inc., a of said corporation.	s acknowledged before me this, President a Delaware corporation, on behalf
My Commission Expires:	
June 1, 1969.  STATE OF)	
June 1, 1969.  STATE OF)  COUNTY OF)  The foregoing instrument was day of, 1968, 1	s acknowledged before me this
June 1, 1969.  STATE OF	by
June 1, 1969.  STATE OF	by, Sinclair Oil & Gas Company, a

ï

) ss. - douwn on doox )		
The foregoing instrum day of January, 1966 by Rob	neni was acknowledged before me this	<del></del>
	The second secon	
,	Notary Public	
My Commission Expires:	Notary Public	
• •		
SCATE OF TEMAS )		
) sål Coukty of Harris )		
The foregoing instrum	ment was acknowledged before me this, President	_
of Educational Foundation, of said corporation.	Inc., a Delaware corporation, on behalf	
	Notery Public	
My Commission Expires:	Notery Public	
My Commission Expires:	Notery Public	
· -	Notery Public	
<u> Juna 1. 1969</u> .		
STATE OF Life ) COUNTY OF Disland		
STATE OF Life ) COUNTY OF Disland		zl-
STATE OF Life ) COUNTY OF Disland		zk 
STATE OF Life ) COUNTY OF Disland	ment was acknowledged before me this <u>26</u> 1968, by <u>O. G. SIMPSON</u> of Sinclair Oil & Gas Company, a , on behalf of said corporation.	th-
STATE OF Level;  COUNTY OF Dillerl;  The foregoing instrum  day of Leveling;  Vice-President  Corporation,		Il.
STATE OF Life ?	ment was acknowledged before me this <u>26</u> 1968, by <u>O. G. SIMPSON</u> of Sinclair Oil & Gas Company, a , on behalf of said corporation.	zh



#### PATRICK H. LYONS COMMISSIONER

# State of New Mexico Commissioner of Public Lands

COMMISSIONER'S OFFICE

Phone (505) 827-5760 Fax (505) 827-5766

www.nmstatelands.org

RECEIVED

SEP 29 2006

MILLER STRATVERT, P.A.

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

September 27, 2006

Miller Stratvert P.A. P. O. Box 1986 Santa Fe, NM 87504-1986

Attention: Mr. J. Scott Hall

Re: Final Approval

Second Expansion Effective December 1, 2005

Mack Energy Corporation

Expansion of the Vertical Limits of the Unitized Formation for the

Grayburg-Jackson West Cooperative Unit Agreement

Lea County, New Mexico

Dear Mr. Hall:

We are in receipt of your letter of September 22, 2006 and ratifications requesting final approval of the second amendment to the Grayburg-Jackson West Cooperative Unit Agreement. The second amendment extends the vertical limits of the unitized formation to include all formations from the top of the Seven Rivers formation to the base of the Glorieta-Yeso (Paddock) formation.

The Commissioner of Public Lands hereby grants final approval to your request for the second amendment to the Grayburg-Jackson West Cooperative Unit Agreement. The effective date of the second amendment is December 1, 2005.

Your \$180.00 filing fee has been received.

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

Very truly yours,

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

BY:
JAMI BAILEY, Director

Oil, Gas and Minerals Division

(505) 827-5744

RP/JB/pm

c: Reader File,

NMOCD - Attn: Mr. Roy Johnson

-State Land Office Beneficiaries -

19.3

# SECOND AMENDMENT TO GRAYBURG-JACKSON WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO

On June 23, 1966, the parties to this Second Amendment, or their predecessors in interest, (the "Owners"), entered into a Unit Agreement (the "Agreement") affecting all Leases and interests included within the Unit, which are described in the Agreement, a counterpart of which is recorded in Volume 170, page 109, of the official records of the County Clerk, Eddy County, New Mexico. The Agreement was subsequently amended by the Owners pursuant to that 1st Amendment dated March 1, 1968 to include additional lands. The Unit is now comprised of the following lands:

#### Township 17 South, Range 29 East, NMPM

Section 15: W1/2SW1/4
Section 16: All
Section 21: All
Section 22: W1/2W1/2, E1/2NW1/4,
NE1/4SW1/4, NW1/4NE1/4
Section 27: W1/2SW1/4
Section 28: All

Owners, by unanimous consent, desire to amend the Unit Agreement. For adequate consideration and the mutual benefits to be derived by the Owners, being all parties (or their successors) to the Agreement, as amended by the 1st Amendment thereof, hereby amend the fourth and fifth unnumbered paragraphs of the first page of the Agreement (Volume 170, page 111), to the extent they refer to and define the Unitized Formation, as follows:

The Unitized Formation extends to and includes all formations from the top of the Seven Rivers formation to the base of the Glorieta-Yeso (Paddock) formation, being those depths from 1,116' to 4,636' below the Kelly Bushing as shown on the Schlumberger Platform Express Three Detector Litho-Density Compensated Neutron/HNGS Log of the Diamondbacks State No. 1 Well located 2,040' from the north line and 2,140' from the east line of Section 28, Township 17 South, Range 29 East, Eddy County, New Mexico. All other terms and provisions of the Agreement referring to the Unitized Formation, either directly or indirectly, are amended to conform herewith.

This Amendment is executed by all Owners as of the date of the acknowledgment of their signatures, but is deemed effective, for all purposes, as of December 1, 2005, the Effective Date. It may be executed in multiple counterparts, which, when taken together, shall be deemed one and the same instrument. As required in the Agreement, it shall become effective, as of the stated Effective Date, when all Owners have signed this Amendment or a counterpart of it.

SEP 2 7 2006
APPROVED ON

NMOCD CASE NOS. 13608 & 13609 APRIL 13, 2006 MACK ENERGY CORPORATION EXHIBIT NO. 4

COMMISSIONER OF PUBLIC LANDS

CHASE OIL CORPORATION

Robert C. Chase

Title: President

BUCKHORN ENTERPRISES CORPORATION

J. Thomas Brewer Title: President

RICHARD LANCE CHASE

Owner:

ROBERT CHASE

GERENE. DIANNE CHASE CROUCH

Rebecca S. Ericson Attorney in Fact

Owner:

BILL CHASE

STATE OF NEW MEXICO )	
) ss.	
COUNTY OF EDDY )	
The foregoing instrument was ackn 2005, by Robert C. Chase, President of corporation, on behalf of said corporation.	nowledged before me this 15th day of December, F CHASE OIL CORPORATION, a New Mexico
OFFICIAL SEAL STACI D. SANDERS NOTARY PUBLIC - STATE OF NEW MEXICO My commission expires: 2-15-09	Notary Public in and for the State of New Mexico  Printed Name: Stace D. Sanders  Commission Expires: 2/15/09
STATE OF NEW MEXICO ) ) ss. COUNTY OF EDDY )	
The foregoing instrument was ackr 2005, by J. Thomas Brewer, President of New Mexico corporation, on behalf of said	nowledged before me this 1912 day of December, BUCKHORN ENTERPRISES CORPORATION, a corporation.
OFFICIAL SEAL STACI D. SANDERS NOTARY PUBLIC - STATE OF NEW MEXICO My commission expires: 2-15-09	Notary Public in and for the State of New Mexico  Printed Name: Staci D. Sarders  Commission Expires: 2/15/09
STATE OF NEW MEXICO ) ) ss. COUNTY OF EDDY )	
RICHARD LANCE CHASE.  OFFICIAL SEAL STACI D. SANDERS	Notary Public in and for the State of New Mexico
My commission expires: 2-15-09	Printed Name: Stact D. Sanders  Commission Expires: 2/15/09.

STATE OF NEW MEXICO	
COUNTY OF EDDY ) ss.	
This instrument was acknowledged 2005 by ROBERT CHASE.  OFFICIAL SEAL STACI D. SANDERS NOTARY PUBLIC - STATE OF NEW MEXICO My commission expires: 2/15/09	before me on this 15th day of <u>December</u> .  Haci D. Janders  Notary Public in and for the State of New Mexico  Printed Name: <u>Staci</u> D. <u>Sanders</u>
	Commission Expires: $\frac{2/15/09}{}$
STATE OF NEW MEXICO ) ) ss. COUNTY OF EDDY )	
Rebecca S. Ericson, Attorney in Fact for GI  OFFICIAL SEAL STACI D. SANDERS NOTARY PUBLIC - STATE OF NEW MEXICO	before me on this 5 day of December, 2005 by ERENE DIANE CHASE CROUCH.  Notary Public in and for the State of New Mexico  Printed Name: State D. Sanders
My commission expires:	Commission Expires: $\frac{2/15/09}{}$
STATE OF NEW MEXICO ) ) ss. COUNTY OF EDDY )	
This instrument was acknowledged BILL CHASE.  OFFICIAL SEAL STACI D. SANDERS NOTARY PUBLIC - STATE OF NEW MEXICO My commission expires: 2-15-09	before me on this 16th day of December, 2005 by  Acci D. Sauders  Notary Public in and for the State of New Mexico  Printed Name: Staci D. Sauders  Commission Expires: 2/15/09

;

W.1 V V Z / V V O

### RATIFICATION OF SECOND AMENDMENT TO GRAYBURG-JACKSON WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO

FIFE OFFIVERD

Grayburg-Jackson West Cooperative Unit Agreement Eddy County, New Mexico

Effective Date: June 23, 1966: Approved: October 4, 1966

Filed of Record: Book 170/Page 109, Eddy County Clerk's Office

1st Amendment: March 1, 1968

The undersigned (and each of them if there is more than one party signing this Ratification), is a Working Interest Owner, Royalty Owner, or Owner within the meaning of the Unit Agreement creating the Unit referenced above (the "Agreement") and as amended by the First Amendment dated March 1, 1968. The undersigned desires to ratify, adopt, and become bound by the Second Amendment to the Unit Agreement to the extent of the undersigned's interest in oil and gas leases, mineral, royalty, and/or leasehold interests, and lands included in the Unit.

For the consideration and purposes stated in the Second Amendment to the Unit Agreement, the undersigned adopts, ratifies, and confirms the Second Amendment to the Unit Agreement. All of the terms and provisions of the Second Amendment to the Unit Agreement are incorporated into this Ratification, by reference, for all purposes. This Ratification shall have the same effect as if the undersigned had executed, acknowledged, and delivered the original or a counterpart of the Second Amendment to the Unit Agreement.

The undersigned has received and read a complete copy of the Second Amendment to the Unit Agreement before signing this Ratification. No representations have been made to the undersigned other than those contained in the Second Amendment to the Unit Agreement.

The undersigned execute this Ratification and unconditionally deliver it as of the date set opposite the undersigned's signature, agreeing that this Ratification shall be effective as to the undersigned's interest in the Unit as of the Effective Date of the Second Amendment to the Unit Agreement.

MOSSMAN-MIDWEST COMPANY

Date: 13/14/05

Margaret R. Barbour, Prosident Vice PRES. DELL

STATE OF NEW MEXICO ) ss. COUNTY OF CHAVES )

The foregoing instrument was acknowledged before me this  $\perp \mu h$  day of December, 2005, by Margaret R. Barbour, President of MOSSMAN-MIDWEST COMPANY.

Notary Public in and for the State of New Mexico

Printed Name: Kay 5 Rader

Commission Expires: 11-30-2007

2

## RATIFICATION OF SECOND AMENDMENT TO GRAYBURG-JACKSON WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO

Grayburg-Jackson West Cooperative Unit Agreement

Eddy County, New Mexico

Effective Date: June 23, 1966: Approved: October 4, 1966

Filed of Record: Book 170/Page 109, Eddy County Clerk's Office

1st Amendment: March 1, 1968

The undersigned (and each of them if there is more than one party signing this Ratification), is a Working Interest Owner, Royalty Owner, or Owner within the meaning of the Unit Agreement creating the Unit referenced above (the "Agreement") and as amended by the First Amendment dated March 1, 1968. The undersigned desires to ratify, adopt, and become bound by the Second Amendment to the Unit Agreement to the extent of the undersigned's interest in oil and gas leases, mineral, royalty, and/or leasehold interests, and lands included in the Unit.

For the consideration and purposes stated in the Second Amendment to the Unit Agreement, the undersigned adopts, ratifies, and confirms the Second Amendment to the Unit Agreement. All of the terms and provisions of the Second Amendment to the Unit Agreement are incorporated into this Ratification, by reference, for all purposes. This Ratification shall have the same effect as if the undersigned had executed, acknowledged, and delivered the original or a counterpart of the Second Amendment to the Unit Agreement.

The undersigned has received and read a complete copy of the Second Amendment to the Unit Agreement before signing this Ratification. No representations have been made to the undersigned other than those contained in the Second Amendment to the Unit Agreement.

The undersigned execute this Ratification and unconditionally deliver it as of the date set opposite the undersigned's signature, agreeing that this Ratification shall be effective as to the undersigned's interest in the Unit as of the Effective Date of the Second Amendment to the Unit Agreement.

COG OIL & GAS LP

By: COG Operating LLC, its general partner

Date: April 10,2006

David M. Thomas, III

Vice President of Exploration and Land



STATE OF TEXAS

8

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 10^{+k} day of April 2006, by David M. Thomas, III, Vice President of Exploration and Land of COG Operating LLC, general partner of COG Oil & Gas LP.

My Commission Expires:

8-6-08

Notary Public in and for the State of Texas

SHARI A. HARBOUR

# THIRD AMENDMENT TO GRAYBURG-JACKSON WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO

On June 23, 1966, the parties to this Third Amendment, or their predecessors in interest, (the "Owners"), entered into a Unit Agreement (the "Agreement") affecting all Leases and interests included within the Unit, which are described in the Agreement, a counterpart of which is recorded in Volume 170, page 109, of the official records of the County Clerk, Eddy County, New Mexico. The Agreement was subsequently amended by the Owners pursuant to that First Amendment dated March 1, 1968 to include additional lands. The Unit is now comprised of the following lands:

## Township 17 South, Range 29 East, NMPM

The Agreement was amended again by the Owners pursuant to that Second Amendment dated December 1, 2005 to extend the vertical limits of the Unitized Formation to include all formations from the top of the Seven Rivers formation to the base of the Glorieta-Yeso (Paddock) formation as defined therein.

Owners, by unanimous consent, desire to again amend the Unit Agreement to extend the defined vertical limits of the Unitized Formation to include a deeper formation. For adequate consideration and the mutual benefits to be derived by the Owners, being all parties (or their successors) to the Agreement, as amended, hereby amend the fourth and fifth unnumbered paragraphs of the first page of the Agreement (Volume 170, page 111), and the third unnumbered paragraph of the Second Amendment (Volume ___, page ___), to the extent they refer to and define the Unitized Formation, as follows:

The Unitized Formation extends to and includes all formations from the top of the Seven Rivers formation to the top of the Abo formation. All other terms and provisions of the Agreement referring to the Unitized Formation, either directly or indirectly, are amended to conform herewith.

This Amendment is executed by all Owners as of the date of the acknowledgment of their signatures, but is deemed effective, for all purposes, as of November 1, 2006, the Effective Date. It may be executed in multiple counterparts, which, when taken together, shall be deemed one

and the same instrument. As required in the Agreement, it shall become effective, as of the stated Effective Date, when all Owners have signed this Amendment or a counterpart of it.

COG OIL & GAS LP

•	By COG OPERATING LLC, General Partner
	By: David W. Copeland, Vice President and General Counsel
	MOSSMAN-MIDWEST COMPANY
	By:
	Title:
STATE OF TEXAS )	
) ss. COUNTY OF MIDLAND )	
• •	nowledged before me this 19 th day of December, 2006, and General Counsel of COG Oil & Gas LP, a Texas ed partnership.  Notary Public in and for the State of Texas  Printed Name: Jeri Morgan  Commission Expires: 7-26-08
STATE OF NEW MEXICO ) ) ss. COUNTY OF)	
The foregoing instrument was, 2006, by	acknowledged before me this day of
(name and title of officer), of MOSSMAN	-MIDWEST COMPANY.
	Notary Public in and for the State of New Mexico
	Printed Name:
	Commission Expires:

# THIRD AMENDMENT TO GRAYBURG-JACKSON WEST COOPERATIVE UNIT AGREEMENT EDDY COUNTY, NEW MEXICO

On June 23, 1966, the parties to this Third Amendment, or their predecessors in interest, (the "Owners"), entered into a Unit Agreement (the "Agreement") affecting all Leases and interests included within the Unit, which are described in the Agreement, a counterpart of which is recorded in Volume 170, page 109, of the official records of the County Clerk, Eddy County, New Mexico. The Agreement was subsequently amended by the Owners pursuant to that First Amendment dated March 1, 1968 to include additional lands. The Unit is now comprised of the following lands:

### Township 17 South, Range 29 East, NMPM

The Agreement was amended again by the Owners pursuant to that Second Amendment dated December 1, 2005 to extend the vertical limits of the Unitized Formation to include all formations from the top of the Seven Rivers formation to the base of the Glorieta-Yeso (Paddock) formation as defined therein.

Owners, by unanimous consent, desire to again amend the Unit Agreement to extend the defined vertical limits of the Unitized Formation to include a deeper formation. For adequate consideration and the mutual benefits to be derived by the Owners, being all parties (or their successors) to the Agreement, as amended, hereby amend the fourth and fifth unnumbered paragraphs of the first page of the Agreement (Volume 170, page 111), and the third unnumbered paragraph of the Second Amendment (Volume ___, page ___), to the extent they refer to and define the Unitized Formation, as follows:

The Unitized Formation extends to and includes all formations from the top of the Seven Rivers formation to the top of the Abo formation. All other terms and provisions of the Agreement referring to the Unitized Formation, either directly or indirectly, are amended to conform herewith.

This Amendment is executed by all Owners as of the date of the acknowledgment of their signatures, but is deemed effective, for all purposes, as of November 1, 2006, the Effective Date. It may be executed in multiple counterparts, which, when taken together, shall be deemed one

and the same instrument. As required in the Agreement, it shall become effective, as of the stated Effective Date, when all Owners have signed this Amendment or a counterpart of it.

	By COG OPERATING LLC, General Partner
	By:  David W. Copeland, Vice President and General Counsel
	MOSSMAN-MIDWEST COMPANY
	By:
	Title:
STATE OF TEXAS ) ) ss. COUNTY OF MIDLAND )	· · · · · · · · · · · · · · · · · · ·
	nowledged before me this 19 th day of December, 2006, and General Counsel of COG Oil & Gas LP, a Texas ed partnership.
JERI MORGAN NOTARY PUBLIC STATE OF TEXAS My Comm. Expires 07-26-2008	Notary Public in and for the State of Texas  Printed Name: Jeri Morgan
	Commission Expires: 7-26-08
STATE OF NEW MEXICO ) ) ss. COUNTY OF)	
The foregoing instrument was, 2006, by	acknowledged before me this day of, -MIDWEST COMPANY.
(maine and title of officer), of WOSSWAN	-MID WEST COMPANT.
	Notary Public in and for the State of New Mexico
	Printed Name:
	Commission Expires: