

CASE 5474: GULF OIL COMPANY POP. TWO
NON-STANDARD LOCATIONS AND THE AMENDMENT
OF ORDER NOS. R-2904 AND R-2909, LEA
COUNTY, NEW MEXICO

CASE No.

5474

Application,

Transcripts,

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
14 May 1975

EXAMINER HEARING

IN THE MATTER OF:

Application of Gulf Oil Company for two non-standard locations and the amendment of Order Nos. R02904 and R-2909, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Central Drinkard Unit Wells Nos. 101 and 401 located, respectively, 554 feet from the north line and 766 feet from the east line, and 666 feet from the north and east lines of Section 28, Township 21 South, Range 37 East, Drinkard Pool, Lea County, New Mexico. Applicant further seeks the amendment of Order R-2904 which order approved the Central Drinkard Unit Agreement to provide that the vertical limits of the unitized formation shall include the entire Drinkard formation; application further seeks the amendment of Order No. R-4909 which approved the Central Drinkard Unit Waterflood Project to provide an administrative procedure for the approval of additional unorthodox well locations.

NO.
5474

BEFORE: Daniel S. Nutter, Examiner.

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A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

William F. Carr, Esq.
Legal Counsel for the Com-
mission
State Land Office Building
Santa Fe, New Mexico 87501

For the Applicant
Gulf Oil Company:

Robert Thomas, Esq.
Midland, Texas

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I N D E X

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MR. NUTTER: Case 5474.

MR. CARR: Case 5474. Application of Gulf Oil Company for two non-standard locations and the amendment of Order Nos. R-2904 and R-2909, Lea County, New Mexico.

MR. THOMAS: Robert Thomas, Midland, Texas, representing Gulf Oil Company. Mr. Examiner, I have one witness to be sworn.

(Witness sworn.)

MR. THOMAS: Mr. Examiner, I believe Mr. Sperling has made an appearance by letter.

MR. NUTTER: We have an appearance here for him.

CHARLES F. KALTEYER,
being called as a witness and being duly sworn
upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. THOMAS:

Q Please state your name, by whom you're employed and in what capacity?

A Charles F. Kalteyer, K-A-L-T-E-Y-E-R (spelling). I'm employed by Gulf Oil Corporation, Midland District Office, and I'm classified as District Proration Engineer.

Q Have you previously testified before the Com-

mission in this capacity?

A Yes, sir, on numerous occasions.

Q Mr. Examiner, is the witness qualified?

MR. NUTTER: Yes, he is.

Q What is Gulf seeking in this application?

A Gulf is seeking authority to amend Order Number R-2904 which approved the Central Drinkard Unit Agreement to expand the Central Drinkard Unit vertically to include the entire Drinkard formation as encountered in Gulf's J. N. Carson (NCT-A) Well Number Seven from 6330 feet to 6590 feet.

Secondly, we are seeking approval for two unorthodox well locations for Unit Well Number 101 located 554 feet from the north line and 766 feet from the east line in Unit A, Section 28, Township 21 South, Range 37 East, which was formerly Gulf's Eunice King Number 16; and for Unit Well Number 401 located 660 feet from the north line and 660 feet from the east line in Unit A, Section 28, Township 21 South, Range 37 East, formerly Gulf's Eunice King, Number 12.

Well Number 101 is to be completed as a producer in the oil zone of the Drinkard Pay which is now under active waterflood and Well Number 401 is to be completed

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in the gas zone of the Drinkard Pay.

A third item, Gulf as Unit Operator seeks amendment of Order R-2909, which authorized the Central Drinkard Unit waterflood project to establish a procedure for administrative approval for unorthodox producing well locations. The purpose of this amendment will be to provide separate well bores for the production from the oil zone and from the gas zone of the Drinkard Pay, as well as for the protection of correlative rights.

Q Do you have an exhibit which shows the Central Drinkard Unit and the wells located thereon? Will you please explain what's shown on the exhibit?

A Our Exhibit Number One is a plat of the Central Drinkard Unit project outlined by hachures, and it depicts the location of injection and producing wells together with wells located on the immediately adjacent areas to the unit. The wells which are circled are Drinkard producers and those enclosed in triangles are water injection wells. The wells enclosed in the orange squares outside of the unit are current Drinkard completions which are classified as gas wells on the latest proration schedule.

When was the Central Drinkard Unit waterflood project

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authorized?

A Under Case 3240, Order R-2904, the Commission on May 6th, 1965, approved the Central Drinkard Unit agreement. Under Case 3241 and Order Number R-2909 the Commission on May 10th, 1965, approved the Central Drinkard Unit waterflood project, and Under Case 4652 and Order R-4256 the Commission on February 8, 1972, approved the expansion of the waterflood project to include 15 additional injection wells.

Q When did water injection begin in the project and what were the results?

A Water injection was initiated into six pilot wells in September, '67, on an 80-acre five spot pattern. The pilot project, as you will note on Exhibit Two, had a favorable response by raising unit oil production from some 4900 barrels of oil per month in early 1969 to approximate 11,700 barrels per month in the latter part of 1970.

Q As a result of the successful pilot project what was done in 1972?

A The Unit was enlarged in early '72 and water injection was expanded in late 1972.

Q Have we seen any response to the expanded in-

jection program?

A Yes, sir. Again by reference to Exhibit Two, you will observe that the monthly production rate increased from some 6,000 barrels per month in early 1973 to the current rate of approximately 11,100 barrels per day -- per month, in the spring of 1975. You'll also note that the average gas-oil ratio over the life of the flood has decreased from a high of some 35,000 cubic feet per barrel in 1968 to approximately 7,000 cubic feet per barrel at present. There are currently twenty-nine active and five inactive producing wells together with twenty-three active water injection wells. The average injection rate is 550 barrels per day per well under injection pressures ranging from 250 to 1600 psi. The average daily production for the unit is some 360 barrels of oil, 1,000 barrels of salt water, and 2800 MCF of gas. The average daily injection rate for the unit is some 12,700 barrels of produced and San Andres make up water per day.

Q What action has taken place in the Drinkard Pool during the past year?

A A number of the operators in the Drinkard Pool have been developing gas completions in the upper Drinkard

zone. This new gas development has resulted in a number of completions offsetting the Central Drinkard Unit along the north, south, and east boundaries as shown on Exhibit One. In some cases, both the oil zone and gas zone have been perforated in the field and are open in the well bore. The gas zone in this pool lies above the oil column which we are now waterflooding in the Central Drinkard Unit and apparently was not originally associated with the oil column due to an impermeable section between the two zones. No wells within the unit area have been completed in the upper Drinkard gas zone as yet.

Q Does the Central Drinkard Unit agreement cover both oil and gas zone of the Drinkard Pool?

A No, sir, under the terms of the original unit agreement only the Drinkard oil pool found between the interval 6440 feet to 6590 feet in Gulf's Number 7 J. N. Carson (NCT-A) well located 810 feet from the north line and 2180 feet from the east line of Unit B. Section 33, Township 21 South, Range 37 East, Lea County, New Mexico, has been utilized. This interval can be seen on Gulf's Exhibit Number Three.

Q What have the unit operators agreed to do?

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A In order to protect the correlative rights the operators believe the gas zone, which overlies the central Drinkard Unit area should be developed as soon as possible but without interference with the waterflood efforts in the oil column. This can be accomplished by extending the upper vertical limit of the Central Drinkard Unit from 6440 feet to 6330 feet to include the entire Drinkard section and drilling new gas wells as gas producers as well as recompleting other wells in the producing area of the unit in the gas zone. This upper interval can also be seen in Gulf's Exhibit Three, which is correlated with Exxon Company's Number 20 State sonic log, which is used as a guide for denoting the Drinkard interval. This gas development initially will be along the north, south, and east boundaries in order to protect unit interest as well as the intervals which are currently under waterflood. It is anticipated that at a later date additional development will take place in the interior section of the unit provided no harmful effects are experienced in the adjacent oil column producers and injectors.

Q Do you have a ratification of the amended Central

Drinkard Unit agreement?

A Yes, sir, Gulf's Exhibit Number Four is the file of ratifications of the amended unit agreement approved by one hundred percent of the fifteen working interest owners of the Central Drinkard Unit and 97.25 percent of the 178 royalty owners. There are a total of 177 ratifications included. Gulf requests the approval by the Commission of this amended unit agreement.

Q Why is it necessary for Gulf to request the approval of two unorthodox well locations at this time?

A The operators of the Central Drinkard Unit believe that the gas zone can be developed without a detrimental effect to the waterflood project provided the unit maintains control of all gas completions. There is ample evidence that separation exists between the Upper Drinkard gas zone with the pressures on the order of 1800 psi and the Lower Drinkard oil zone which has a pressure on the order of 600 psi. In order to protect our investment in the waterflood and maximize secondary oil recovery, which, of course, is our primary concern, we have decided to use separate well bores to develop the Drinkard gas zone. Since the gas completions initially have to be fractured, we do not intend to have a gas producer on

the same forty acre unit where water is being injected and no dual completions are contemplated as maximum lifting capacity will be required to handle the flood production. We propose to make gas completions only on those tracts which have Drinkard oil producers located thereon. Dual completions would be acceptable where practical, however, no downhole commingling is planned between the upper and lower Drinkard sections within the Central Drinkard Unit. This plan will require that new wells must be drilled and current well bores must be provided by unit partners to properly develop the gas zone within the unit as outlined.

Q What are your plans for Unit Well Number 101?

A Central Drinkard Unit Well Number 101, formerly Gulf's Eunice King Number 16, encircled in pink on Exhibit One, is currently temporarily abandoned in the Penrose Skelly. Gulf proposes to rework this well to the interval 6520 feet to 6660 feet of the Drinkard oil zone and place this well on production.

Q What are your plans for Unit Well Number 401?

A Central Drinkard Unit Well Number 401, which is formerly Gulf's Eunice King Number 12, encircled in yellow on Exhibit One, was drilled to a total depth of 7975 feet and temporarily abandoned in the Hare San Andres.

This well will be worked over to the interval 6390 feet to 6460 feet in the Drinkard gas interval. This will place two Drinkard producers on production on the same forty acre proration units which are located only 149.9 feet apart. Approval for these unorthodox well locations in the Central Drinkard Unit are hereby requested.

Q Will additional unorthodox well locations be necessary for development of the Drinkard gas zone under the Central Drinkard Unit?

A Yes, sir, they will. As stated earlier, the operators propose to develop the gas completions along the boundaries of the north, south, and east portion of the Central Drinkard Unit for Drinkard gas zone production. In keeping with our plan to not disturb the efficiency of the Drinkard waterflood, no gas zone wells will be completed on any forty acre injection tract nor will we use any injection well as a dual gas producer and injector. The operators propose to complete in the gas zone and where practical, dual with presently producing oil -- Drinkard oil wells. In such cases where separate well bores are required for Drinkard gas and oil production on the same forty acre tract, approval of unorthodox well locations will be required.

Q How do you propose to handle the allowable of the two Drinkard completions on each forty acre production unit?

A Gulf will propose that irrespective of how many completions are made on the tract, each forty acre production unit would receive no more than 852 MCF per day based on a top allowable of 142 barrels of oil per day per well times a gas-oil ration limit of six thousand to one cubic feet per barrel. There is no allowable limit on the rate of oil production from the Central Drinkard Unit as it is under active waterflood.

Q What recommendation do the operators have for amending Order Number R-2902 which authorized the Central Drinkard waterflood project?

A The operators request that this order be amended to utilize a procedure for administrative approval for unorthodox well locations within the unit area to allow the utilization of separate well bores for Drinkard oil zone and gas zone completions.

Q Will you again summarize what the operators are seeking in this application?

A First the amendment of Order R-2904 which approved the Central Drinkard Unit agreement to expand the

unit vertically to include the entire Drinkard formation encountered in the J. N. Carson (NCT-A) Well Number 7 between the depths of 6330 feet and 6590 feet. This well is located 810 feet from the north line and 2180 feet from the east line Unit B, Section 33, Township 21 South, Range 37 East, Lea County.

Secondly, approval of two unorthodox well locations to be reworked to the Drinkard Pool; and amendment of Order R-2909 which authorized the Central Drinkard Unit waterflood project to provide for administrative approval for future unorthodox well locations.

Q Were these exhibits prepared by you or under your supervision?

A Yes, sir, they were with the exception of the amendment of the unit agreement which was prepared by the Law Department.

MR. THOMAS: Mr. Examiner, I move that the Exhibits One, Two, Three, and Four be admitted into evidence.

MR. NUTTER: Exhibits One through Four will be admitted in evidence.

MR. THOMAS: I have no further questions of this witness.

QUESTIONS BY MR. NUTTER:

Q Mr. Kalteyer, you mentioned that at some point there, I believe that it was in the year 1972 or some place along there, that the unit was expanded. Did you mean that the waterflood project itself was expanded or that the unit boundaries themselves were expanded?

A The unit boundaries as well as the number of injection wells were expanded at that time.

Q And this Exhibit Number One depicts the unit -- the present boundaries of the unit --

A Yes.

Q -- and the present water injection wells.

A Yes, sir.

Q All right. So you haven't quite finished the expansion of the waterflood project itself, have you? You've got some locations for injection wells that have not been converted yet.

A At this time we feel that we will be unable to accomplish the cooperative lease line agreements other than the one that we've already accomplished with Wiser Oil Company, and this possibly will be the last of the injection wells, as indicated here.

Q Unless waterflood projects were instituted on

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the opposite side of the unit line?

A That's correct, yes, sir.

Q I see.

MR. NUTTER: Are there any further questions of Mr. Kalteyer?

(No response.)

MR. NUTTER: He may be excused. Do you have anything further, Mr. Thomas?

MR. THOMAS: No, sir.

MR. NUTTER: Does anyone have anything further to offer in Case Number 5474?

(No response.)

MR. NUTTER: We'll take the case under advisement.

(Hearing concluded.)

STATE OF NEW MEXICO)
COUNTY OF SANTA FE)

ss

REPORTER'S CERTIFICATE

I, Sally Walton Boyd, Notary Public and General Court Reporter, Santa Fe, New Mexico, DO HEREBY CERTIFY that the facts stated in the caption hereto are true and correct; that I reported the captioned proceedings; that the foregoing 17 pages, numbered 1 through 17, inclusive, are a full, true and correct transcript of my notes taken during the course of the hearing.

WITNESS my hand this 22nd day of May, 1975, at Santa Fe, New Mexico.

Sally Walton Boyd

Sally Walton Boyd
Notary Public and General Court Reporter

My Commission expires:
10 September 1975

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5474 heard by me on 5/14, 1975.

[Signature]
New Mexico Oil Conservation Commission

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Gulf Oil Company - U.S.

PRODUCTION DEPARTMENT
MIDLAND DISTRICT

B. L. Choate
DISTRICT PRODUCTION MANAGER
J. L. Pike
DISTRICT OPERATIONS MANAGER
M. B. Mossley
DISTRICT SERVICES MANAGER
A. J. Evans, Jr.
DISTRICT ENVIRONMENTAL & SAFETY MANAGER
J. C. Howard
DISTRICT EMPLOYEE RELATIONS MANAGER

2 June 1975

P. O. Drawer 1150
Midland, Texas 79701

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

Attention: Daniel S. Nutter

Re: Case 5474, Application of Gulf Oil
Corporation for Two Unorthodox Well
Locations, Vertical Enlargement of
Unit and Amendment of Order R-2909,
Central Drinkard Unit Waterflood Project,
Drinkard Pool, Lea County, New Mexico

Gentlemen:

Transmitted herewith are amendment to unit agreement ratifications by
Skelly Oil Company and Sohio Petroleum Company which are to be included
with our Exhibit No. 4 of the subject hearing. These two ratifications
were inadvertently omitted from the exhibit.

Yours very truly,

R. F. Ward, Jr.
R. F. WARD, JR. *RFK*

CFK: jm

Attachment



A DIVISION OF GULF OIL CORPORATION

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

SKELLY OIL COMPANY

ATTEST:

By

ATTORNEY-IN-FACT

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this 8th day of January, 1975, by JUDD H OUALLINE, ATTORNEY-IN-FACT of Skelly Oil Company, a corporation, on behalf of said corporation.

My Commission Expires:

March 14, 1978

Notary Public in and for
County, Oklahoma

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

SOHIO PETROLEUM COMPANY

~~ATTEST:~~

By

E. E. YOUNG

AGENT AND ATTORNEY IN FACT

THE STATE OF OKLAHOMA

COUNTY OF OKLAHOMA

The foregoing instrument was acknowledged before me this 4 day of February, 1975, by E. E. YOUNG AGENT AND ATTORNEY IN FACT of SOHIO PETROLEUM COMPANY a Delaware corporation, on behalf of said corporation.

My Commission Expires:

2-28-76

Robert J. Corbett
Notary Public in and for OKLAHOMA
County, OKLAHOMA

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

I. R. TRUJILLO
CHAIRMAN

LAND COMMISSIONER
PHIL R. LUCERO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

May 22, 1975

Mr. Robert Thomas
Gulf Oil Company
Post Office Drawer 1150
Midland, Texas 79701

Re: CASE NO. 5474
ORDER NO. R-5030

Applicant:

Gulf Oil Company

Dear Sir:

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

Very truly yours,

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC ☒ _____
Artesia OCC _____
Aztec OCC _____

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 5474
Order No. R-5030

APPLICATION OF GULF OIL COMPANY
FOR TWO NON-STANDARD LOCATIONS
AND THE AMENDMENT OF ORDERS
NOS. R-2904 AND R-2909, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 14, 1975,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 22nd day of May, 1975, the Commission, a
quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being
fully advised in the premises,

FINDS:

(1) That due public notice having been given as required
by law, the Commission has jurisdiction of this cause and the
subject matter thereof.

(2) That Gulf Oil Company is the operator of the Central
Drinkard Unit, Drinkard Pool, Lea County, New Mexico, which
unit is governed by the Central Drinkard Unit Agreement which
was approved by the Commission by Order No. R-2904, dated May
6, 1965.

(3) That pursuant to Commission Order No. R-2909, dated
May 10, 1965, and certain other orders, the applicant is con-
ducting secondary recovery operations within said Central
Drinkard Unit Area.

(4) That the unitized interval for said Central Drinkard
Unit Area was defined in the original Central Drinkard Unit
Agreement as being from 6440 feet to 6590 feet as found on the
log of the Gulf Oil Corporation J. N. Carson Well No. 7,
located 810 feet from the North line and 2180 feet from the East
line of Section 33, Township 21 South, Range 37 East, NMPM,
Lea County, New Mexico.

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Case No. 5474
Order No. R-5030

(5) That the applicant seeks the amendment of the Central Drinkard Unit Agreement to change the unitized interval for said Central Drinkard Unit Area to be from 6330 feet to 6590 feet as found on the log of the aforesaid J. N. Carson Well No. 7.

(6) That the applicant further seeks approval for the unorthodox location of two wells in the Drinkard Pool underlying said Central Drinkard Unit, said wells being Unit Well No. 101 located 554 feet from the North line and 766 feet from the East line, and Unit Well No. 401 located 660 feet from the North line and 660 feet from the East line, both in Section 28, Township 21 South, Range 37 East, NMPM.

(7) That the applicant further seeks the amendment of Order No. R-2909, which authorized the secondary recovery project in said Central Drinkard Unit Area, to provide for the administrative approval of additional wells at unorthodox locations in said unit area.

(8) That the necessity for the amendment of the unitized interval of the Central Drinkard Unit, the location of the two wells described in Finding No. (6) above, and the establishment of the administrative procedure described in Finding No. (7) above is occasioned by development of the Upper Drinkard gas pay in wells offsetting the Central Drinkard Unit Area.

(9) That to protect the said unit area from drainage by offsetting wells, the applicant, as unit operator, must complete gas wells in the Upper Drinkard gas pay on the same 40-acre tract as existing wells in the Lower Drinkard oil pay which are part of the Lower Drinkard Waterflood Project.

(10) That approval of the amendment of the vertical limits of the unitized interval of the Central Drinkard Unit, the two above-described non-standard locations, and the aforesaid administrative procedure is in the interest of the protection of correlative rights and the prevention of waste, and should be approved, provided that the gas production from any 40-acre tract should be limited to top unit allowable for the Drinkard Pool times the limiting gas-oil ratio for the pool.

IT IS THEREFORE ORDERED:

(1) That the vertical limits of the unitized interval of the Central Drinkard Unit Area are hereby amended to be from 6330 feet to 6590 feet as found on the log of the Gulf Oil Corporation J. N. Carson Well No. 7, located 810 feet from the North line and 2180 feet from the East line of Section 33, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, subject to like approval by the Commissioner of Public Lands for the State of New Mexico.

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Case No. 5474
Order No. R-5030

(2) That the applicant, Gulf Oil Company, is hereby authorized to complete the following wells in the Drinkard Pool at the following non-standard locations in Section 28, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico:

Central Drinkard Unit Well No. 101, located 554 feet from the North line and 766 feet from the East line; and

Central Drinkard Unit Well No. 401, located 660 feet from the North line and 660 feet from the East line.

PROVIDED HOWEVER, that the 40-acre tract upon which said wells are located shall have a limited casinghead gas allowable determined by multiplying top unit allowable for the Drinkard Pool by the gas-oil ratio limitation for said pool.

(3) That Order (1) of Commission Order No. R-2909, is hereby amended by the addition of the following:

"PROVIDED HOWEVER, that the Secretary-Director of the Commission is hereby authorized to approve such additional producing wells and injection wells at orthodox and unorthodox locations within the boundaries of the Central Drinkard Unit Area as may be necessary to complete an efficient production and injection pattern, and to protect the unit from drainage, provided said wells are drilled no closer than 330 feet to the outer boundary of the unit area nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided further, that no 40-acre tract shall be permitted to produce more gas than the amount obtained by multiplying top unit allowable for the Drinkard Pool by the limiting gas-oil ratio for the pool. To obtain such administrative approval, the unit operator shall file proper application with the Commission, which application, if it seeks to convert additional wells to injection or to drill additional production or injection wells, shall include the following:

(1) A plat showing the location of the proposed well, all wells within the project area, and offset operators, and locating wells which offset the project area.

(2) A schematic drawing of the proposed injection well which fully describes the casing, tubing, perforated interval, and depth.

(3) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.

-4-

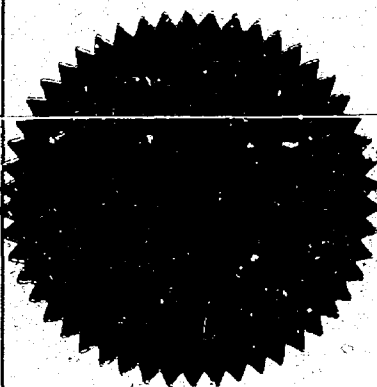
Case No. 5474
Order No. R-5030

The Secretary-Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval, provided waivers of objection are received from all offset operators."

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



I. R. Trujillo
I. R. TRUJILLO, Chairman

Phil R. Lucero
PHIL R. LUCERO, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary

S E A L

jr/

**GULF No. 7 CARSON
TYPE LOG IN
CENTRAL DRINKARD UNIT**

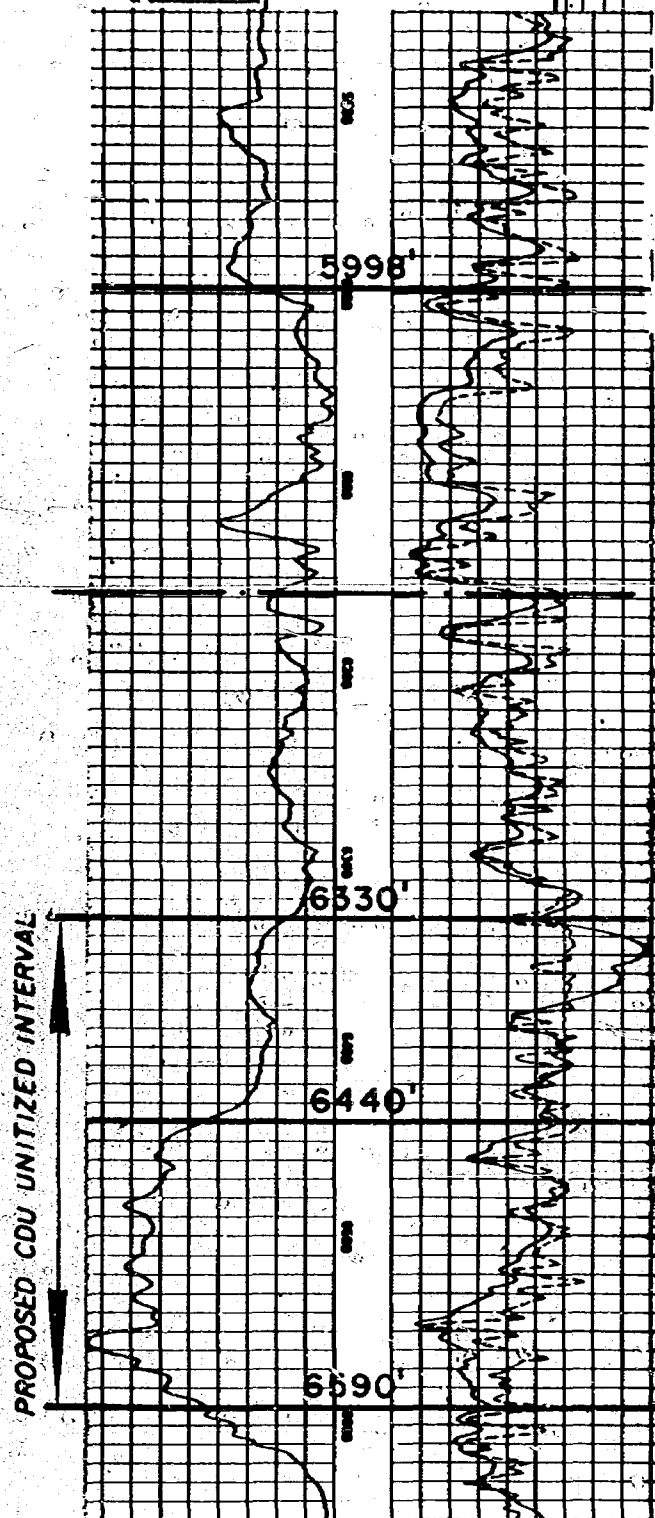
**EXXON No. 20 STATE S
NMOCC TYPE LOG**

Location of Well
810' PBL 2100' PBL
Sec. 33-218-378

COMPANY: GULF OIL CORPORATION
WELL: J. H. CARSON #7
RUN NO.: 1.1.11
FIELD: 2100-2100
LOCATION: SEC. 33-218-378
COUNTY: LEA
STATE: NEW MEXICO
FILE NO.

Location of Well
8100' PBL 0 500' PBL
Sec. 2 218-378

COMPANY: EXXON OIL & REFINERY
WELL: 218-378
FIELD: 218-378
LOCATION: SEC. 2 218-378
COUNTY: LEA
STATE: NEW MEXICO
FILE NO.



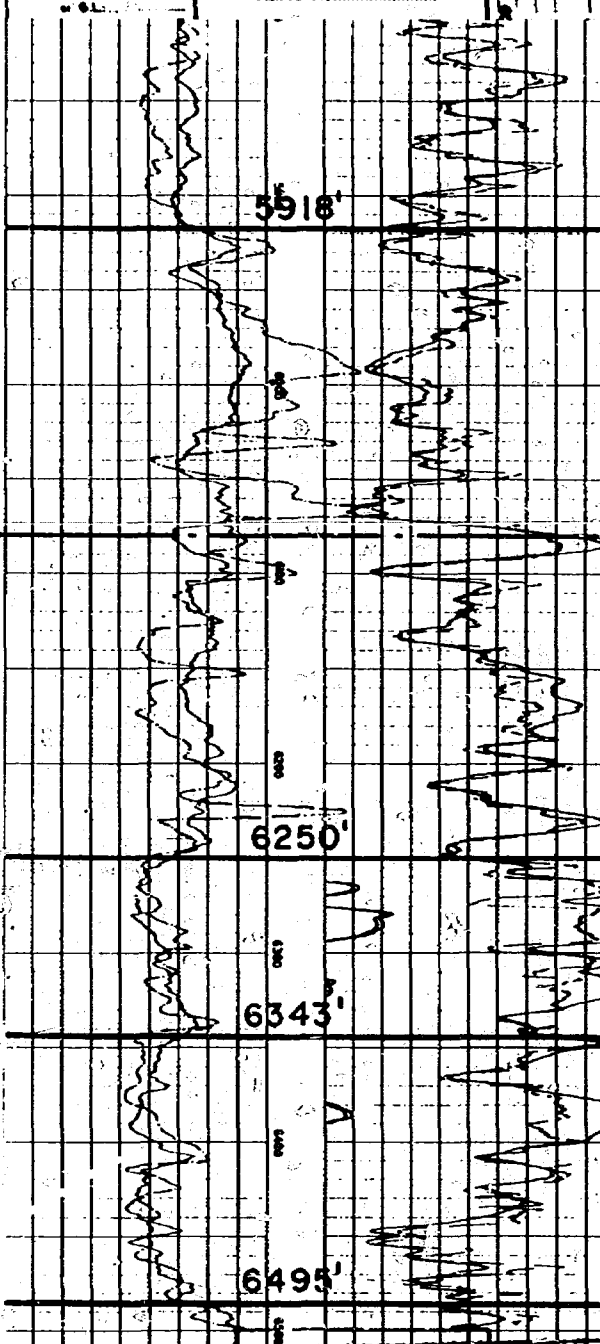
OCC TUBB

-2700 S.L.D.

DRINKARD TOP

TOP UNITIZED
INTERVAL

BASE UNITIZED
INTERVAL



**BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION**
Gulf EXHIBIT NO. 3
CASE NO. 5474

**EXHIBIT 3
TYPE LOG SECTION
CENTRAL DRINKARD UNIT
LEA COUNTY, NEW MEXICO**

CASE NO. 5474
MAY 14, 1975

GULF OIL CO.-U.S.

MIDLAND DISTRICT

AMENDMENT TO UNIT AGREEMENT
CENTRAL DRINKARD UNIT
LEA COUNTY, NEW MEXICO

THIS AGREEMENT, entered into as of the 1st day of October, 1974, by and between the parties who have signed the original Unit Agreement, a counterpart thereof, or other instrument agreeing to be bound by the provisions of said original Unit Agreement, or by their heirs or devisees, or successors or assigns;

WITNESSETH:

WHEREAS, the parties hereto as working interest owners, overriding royalty interest owners and royalty owners have executed a Unit Agreement for the Central Drinkard Unit, Lea County, New Mexico, and said parties now desire to amend the "Unit Agreement" which, among other things, provides for a separate agreement to be entered into by working interest owners to provide for the development and operation of the Unit Area as therein defined; and said working interest owners, royalty owners and overriding royalty interest owners are now desirous of amending the Unit Agreement as heretofore amended, only as to the following particulars.

NOW, THEREFORE, in consideration of the mutual agreements herein set forth, it is agreed as follows:

ARTICLE 1

DEFINITIONS

1.2 Unitized Formation means that portion of the Drinkard formation which was encountered in the drilling of Gulf Oil Corporation's J. N. Carson (NCT-A) Well No. 7 between depths of 6,330 feet and 6,590 feet which said well is located 810 feet from the North Line and 2,180 feet from the East Line of Section 33, Township 21 South, Range 37 East, N. M. P. M., Lea County, New Mexico.

A person or corporation may become a party to this amendment by signing the original of this instrument, a counterpart thereof, or other instrument agreeing to be bound by the provisions hereof. The signing of any such instrument shall have the same effect as if all of the parties had signed the same instrument.

As thus amended the Unit Agreement is declared to be in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment to Unit Agreement on the dates opposite their respective signatures.

GULF OIL CORPORATION

By *J. L. Pike*
Attorney-in-Fact

P. O. Box 1150
Midland, Texas, 79701

APPROVED AS
TO FORM ONLY
DATE 11-21-74
C. C. HAIRSTON
ATTORNEY

THE STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 2nd day of December, 1974, by J. L. PIKE, Attorney-in-Fact for GULF OIL CORPORATION, a Pennsylvania corporation, on behalf of said corporation.

E. L. Orrell E. L. Orrell
Notary Public in and for Midland
County, Texas

My Commission Expires: 12-1-75

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Carol Turner Adcox
2122 Des Gardines
Houston, Texas 77023

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Harris

The foregoing instrument was acknowledged before me this 7th day of January, 1975, by Carol Turner Adcox

My Commission Expires: _____

[Signature]
Notary Public in and for HARRIS County, TEXAS

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

AMOCO PRODUCTION COMPANY

ATTEST:

By John W. Phenicie
ATTORNEY-IN-FACT



THE STATE OF Texas
COUNTY OF Harris

The foregoing instrument was acknowledged before me this 17th day of Feb, 1975, by JOHN W. PHENICIE, ATTORNEY-IN-FACT of AMOCO PRODUCTION COMPANY, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
6-1-75

Joseph E. Middleton
Notary Public in and for Harris County, Texas

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ANDERSON-DEERFIELD AGENCY ACCOUNT

Kenneth Donald Anderson
Karen Anderson Reichert
Gary Anderson Fell
Nancy Anderson Phariss
Janet Anderson Carrell

ATTEST:

By Paul D. Anderson
Paul D. Anderson - Power of Attorney

By: Payton V. Anderson
Payton V. Anderson - Power of Attorney

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 17th day of December, 1974, by Paul D. Anderson and Payton V. Anderson, Powers of Attorney for ANDERSON-DEERFIELD AGENCY ACCOUNT

My Commission Expires:
June 1, 1975

Nedra Simlurake
Notary Public in and for Midland County, Texas

CCH:ej
11-20-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Raymond R. Anderson

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 17th day of December, 1974, by Raymond R. Anderson

My Commission Expires: _____

June 24, 1977

K. M. Jelinek
Notary Public in and for Lea County, New Mexico

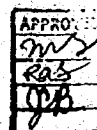
The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

AMERADA HESS CORPORATION

ATTEST:

R. L. Keck
R. L. Keck, Asst. Secretary

By L. A. Stricklin
L. A. Stricklin, Vice President



THE STATE OF Oklahoma

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 2nd day of January, 1975, by L. A. Stricklin, Vice President of Amerada Hess Corporation, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires January 16, 1976

Helen M. Beatty
Notary Public in and for Lea
County, Oklahoma

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATLANTIC RICHFIELD COMPANY

ATTEST:

By

S. L. Smith
Attorney in Fact

THE STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 14th day of February, 1975, by S. L. Smith, Attorney in Fact of Atlantic Richfield Company, a Pennsylvania corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1975

Yvonne Brooks
Notary Public in and for Midland County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____ County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By


Wm. Barnes III


Fletcher C. Ransom
Trustees

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

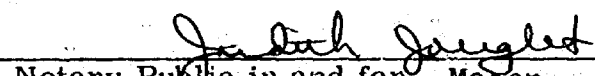
Notary Public in and for _____ County, _____

THE STATE OF Illinois

COUNTY OF Macon

The foregoing instrument was acknowledged before me this 20th day of December, 197 74, by Wm. Barnes III and Fletcher C. Ransom, Trustees

My Commission Expires:
Oct. 3, 1977


Notary Public in and for Macon County, Illinois

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Mrs. J.C. Davis Jr.

By Emma Gale Bartlett
Emma Gale Bartlett

THE STATE OF California
COUNTY OF Riverside

The foregoing instrument was acknowledged before me this 7th day of January, 1975, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

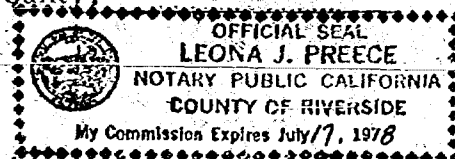
Notary Public in and for _____ County, _____

THE STATE OF California
COUNTY OF Riverside

The foregoing instrument was acknowledged before me this 7th day of January, 1975, by Emma Gale Bartlett

My Commission Expires:
July 17, 1978

Leona J. Preece
Notary Public in and for Riverside County, California



The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Roy G. Barton

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 18th day of December, 1974, by Roy G. Barton

My Commission Expires: _____

Thelma Bryan
Notary Public in and for _____ County, New Mexico

MY COMMISSION EXPIRES
NOVEMBER 8, 1975

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Ray H. Baster Jr.

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

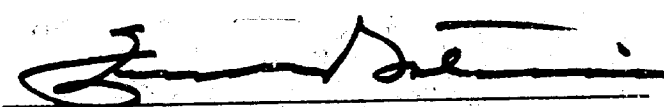
COUNTY OF Lea

The foregoing instrument was acknowledged before me this 18th day of December, 1974, by Ray H. Baster, Jr.

My Commission Expires:
NOVEMBER 8, 1975

Thomas Bryan
Notary Public in and for Lea County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

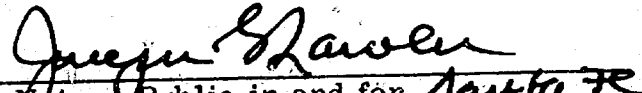
Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Santa Fe

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Frank Bateman

My Commission Expires: 3-78


Notary Public in and for Santa Fe County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Helen Learmont Bedford

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

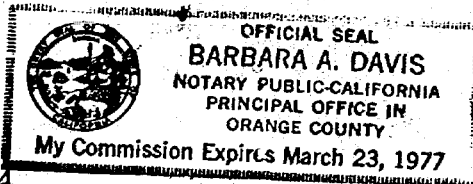
THE STATE OF California

COUNTY OF Orange

The foregoing instrument was acknowledged before me this 30th day of January, 1975, by Helen Learmont Bedford.

My Commission Expires: _____

Notary Public in and for Orange County, California



CCH:ejl
11-20-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Charles F. Bedford

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF TARRANT

The foregoing instrument was acknowledged before me this _____ day of DEC 16 1974, 197____, by CHARLES F. BEDFORD

My Commission Expires: _____

Norvell L. Smith
Notary Public in and for _____ County, _____

Norvell L. Smith
Notary Public, Tarrant Co., Texas
My Commission Expires June 1, 1975

CCH:ejl
11-20-74

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ATTEST:

Catherine E. Hickey

THE BISHOP WHIPPLE SCHOOLS

By

[Signature]

Ed Landes, President

[Signature]

Donald B. Purrington, Secretary

THE STATE OF

Minnesota

COUNTY OF

Hennepin

The foregoing instrument was acknowledged before me this 7th day of January, 1975, by Edward Landes of The Bishop Whipple Schools, a Minnesota corporation, on behalf of said corporation.

My Commission Expires:
CATHERINE E. HICKY
Notary Public, Hennepin County, Minn.
My Commission Expires Aug. 20, 1977

Catherine E. Hickey
Notary Public in and for Minnesota
County, Hennepin

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

[Signature]

Secretary

THE BLANCO COMPANY

President

By

Philip L. White

President

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 13 day of December, 1974, by Philip L. White, President of The Blanco Company, a New Mexico corporation, on behalf of said corporation.

My Commission Expires:

9-19-76

Melvin B. Johnson
Notary Public in and for Chaves
County, New Mexico

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 13 day of December, 1974, by Philip L. White

My Commission Expires:

Notary Public in and for
County, Chaves

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Rachel Bedford Bowen, Widow

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF CALIFORNIA

COUNTY OF ORANGE

The foregoing instrument was acknowledged before me this 30th day of December, 1974, by Rachel Bedford Bowen, Widow

My Commission Expires: August 28, 1977

Patricia A. Kearns
Notary Public in and for Orange County, _____

CCH:ejl
11-20-74

-3-



The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Margaret M. Conroy

By

By: Clubs of America

William R. Bucker

National Director

THE STATE OF New York
COUNTY OF Manhattan

The foregoing instrument was acknowledged before me this 10th day of March, 1975, by William R. Bucker, National Director of By: Clubs of America, a Congressional Chartered corporation on behalf of said corporation.

My Commission Expires:

March 30, 1976

Marie Santorelli
Notary Public in and for Kings
County, New York

MARIE SANTORELLI
Notary Public, State of New York
No. 24-4517675 - Kings County
Term Expires March 30, 1976

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Joyce Christmas Brown

585-14-9621

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF NEW MEXICO

COUNTY OF DONA ANA

The foregoing instrument was acknowledged before me this 7th day of January, 1975, by Joyce Christmas Brown.

My Commission Expires:
July 28, 1976

Notary Public in and for Dona Ana
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Constance E. Byers
Constance E. Byers, a widow.

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF TRAVIS

The foregoing instrument was acknowledged before me this 23rd day of January, 1975, by Constance E. Byers, a widow.

My Commission Expires:
June 1, 1975

Lynwood Mark Rhodes
Lynwood Mark Rhodes,
Notary Public in and for Travis
County, Texas.

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Willie M. Carson

THE STATE OF Nexas
COUNTY OF Havis

The foregoing instrument was acknowledged before me this 6 day of January, 1975, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1975

Charlotte Johnson
Notary Public in and for Havis
County, Nexas

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Willie M. Carson
Willie M. Carson, as

Ancillary Executrix of the Estate of

John Pearl Carson, Deceased

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF TEXAS

COUNTY OF TRAVIS

The foregoing instrument was acknowledged before me this 2nd day of April, 197 5, by Willie M. Carson

My Commission Expires:
June 1, 1975

Charlata Johnson
Notary Public in and for Travis
County, Texas

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ATTEST:

Powhatan Carter, Jr.

By Powhatan Carter, Jr.

Anderson Carter

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 14th day of January, 1975, by Powhatan Carter, Jr.

My Commission Expires:
July 8, 1978

Betty A. Kaiser
Notary Public in and for Lea
County, New Mexico

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 14th day of January, 1975, by Anderson Carter

My Commission Expires:
July 8, 1978

Betty A. Kaiser
Notary Public in and for Lea
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Anderson Carter

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF NEW MEXICO

COUNTY OF LEA

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Anderson Carter

My Commission Expires: _____

July 8, 1978

Betty A. Karies
Notary Public in and for Lea County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By *Donita Lutz*

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF NEW MEXICO

COUNTY OF DEBACA

The foregoing instrument was acknowledged before me this 19 day of DECEMBER, 1974, by HOWARD CARTER JR.

My Commission Expires: November 15, 1978

R. Lund
Notary Public in and for DEBACA County, N. MEX.

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Verna Chambers

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF "Oklahoma" _____

COUNTY OF "Seminole" _____

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Verna Chambers

My Commission Expires: _____

April 7, 1977

Ista Whitman

Notary Public in and for Seminole County, Oklahoma

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Rosemary Anderson Chapman

ATTEST:

By _____

THE STATE OF TEXAS

COUNTY OF GARZA

The foregoing instrument was acknowledged before me this 19th day of December, 1974, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF GARZA

The foregoing instrument was acknowledged before me this 19th day of December, 1974, by Rosemary Anderson Chapman

My Commission Expires: June 1, 1975

Sammie Pollard
Notary Public in and for Garza County, Texas

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ATTEST:

By

Peggy Chartier
PEGGY CHARTIER

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires:

Notary Public in and for _____ County, _____

THE STATE OF NEW MEXICO

COUNTY OF LEA

The foregoing instrument was acknowledged before me this 23rd day of December, 1974, by PEGGY CHARTIER, a widow.

My Commission Expires:

Rosie Roberts
Notary Public in and for Lea County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Patricia Johnson Christenson

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 7th day of January, 1975, by Patricia Johnson Christenson

My Commission Expires: February 13, 1978

Fred D. Sellen Jr.
Notary Public in and for Chaves County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

R. A. Christmas Jr.

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaparral

The foregoing instrument was acknowledged before me this 13th day of January, 1975, by R. A. Christmas Jr.

My Commission Expires: _____
My Commission Expires Feb. 27, 1978

M. J. Bradley
Notary Public in and for Chaparral County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

*B.G. Christmas Jr.
Guardian for Helen Jane
Christmas*

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Croft

The foregoing instrument was acknowledged before me this 13th day of January, 1975, by B.G. Christmas Jr.

Guardian for Helen Jane Christmas

My Commission Expires: _____

My Commission Expires Feb. 27, 1978

Marilyn J. Bradley
Notary Public in and for Croft

County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Bradford A. Christmas

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF New Mexico

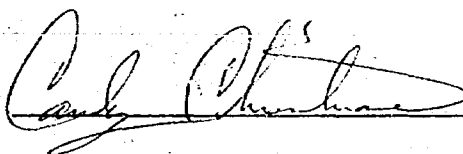
COUNTY OF Chavez

The foregoing instrument was acknowledged before me this 13th day of January, 1975, by Bradford A. Christmas

My Commission Expires:
My Commission Expires Feb. 27, 1978

Marilyn J. Bradley
Notary Public in and for Chavez
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



ATTEST:

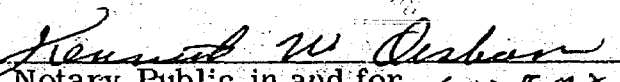
By _____

THE STATE OF NEW MEXICO

COUNTY OF COLFAX

The foregoing instrument was acknowledged before me this 21 day of JAN, 1975, by CANDY CHRISTMAS of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____
My Commission Expires Feb. 18, 1976


Notary Public in and for COLFAX County, NEW MEXICO

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____ County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

CITIES SERVICE OIL COMPANY

ATTEST:

By Wiley C Hill
Wiley C. Hill, Attorney-in-Fact

THE STATE OF OKLAHOMA
COUNTY OF TULSA

The foregoing instrument was acknowledged before me this 16th day of January, 1975, by Wiley C. Hill, Attorney-in-Fact of CITIES SERVICE OIL COMPANY, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires February 14, 1977

C. A. Springer
Notary Public in and for Tulsa
County, Oklahoma

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ESTATE OF GEORGE H. COATES

Elizabeth H. Coates Maddux
Elizabeth H. Coates Maddux

~~XXXXXX~~

Arthur T. Stieren, Jr.
Arthur T. Stieren, Jr.

Betty Ann Stieren Roberts
Betty Ann Stieren Roberts

John R. Harris
John R. Harris
Charles V. Richter
Charles V. Richter
INDEPENDENT EXECUTORS

THE STATE OF _____ X

COUNTY OF _____ X

THE STATE OF Texas X

COUNTY OF Bexar X

The foregoing instrument was acknowledged before me this 30th day of December, 1974, by Elizabeth H. Coates Maddux, Arthur T. Stieren, Jr., Betty Ann Stieren Roberts, John R. Harris and Charles V. Richter, Independent Executors of the Estate of George H. Coates.

My Commission Expires: 7-1-75

Margie Gormley
Notary Public in and for Bexar
County, Texas.

MARGIE GORMLEY
Notary Public, Bexar County, Texas

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

[Signature]

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Subbuck

The foregoing instrument was acknowledged before me this Feb day of January, 1975, by S. E. Cone, JR.

My Commission Expires: _____

June 1, 1975

[Signature]
Notary Public in and for Subbuck County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Hugh Corrigan, III

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF FLORIDA

COUNTY OF INDIAN RIVER

The foregoing instrument was acknowledged before me this 19th day of December, 1974, by Hugh Corrigan, III

My Commission Expires: _____

May 29, 1978

Sumedley P. Holland
Notary Public in and for Indian River County, Florida

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

J. Patrick Corrigan

ATTEST:

By _____

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF FLORIDA
COUNTY OF INDIAN RIVER

The foregoing instrument was acknowledged before me this 19th day of December, 1974, by J. Patrick Corrigan

My Commission Expires:
May 29, 1978

Guendalyn P. Holland
Notary Public in and for Indian River County, Florida

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Wright E. Cowden

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires:

Notary Public in and for _____ County, _____

THE STATE OF

TEXAS

COUNTY OF

MIDLAND

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Wright E. Cowden

My Commission Expires:

June 1, 1975

Lee Knickerbocker
Notary Public in and for Midland County, Texas

Lee Knickerbocker, Notary Public

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Wayne Cowden

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF NEW MEXICO

COUNTY OF EDDY

The foregoing instrument was acknowledged before me this 13 day of December, 1974, by Wayne Cowden

My Commission Expires: July 1, 1977

J. L. Dow
Notary Public in and for Eddy County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of ~~either a working interest or overriding royalty interest~~ royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

This agreement covers solely a royalty interest.

ATTEST:

By Mr Boyce Rush Davis

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Arkansas

COUNTY OF Garland

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Boyce Rush Davis, P.O. Box 16, Lake Hamilton, Arkansas 71951

My Commission Expires: 9-10-77

Leona Hansch
Notary Public in and for Garland County, Arkansas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Mary J. De Voss (Jan)
Mary Jane De Voss

THE STATE OF California
COUNTY OF Los Angeles

The foregoing instrument was acknowledged before me this 6th day of January, 1975, by Mary Jane De Voss of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

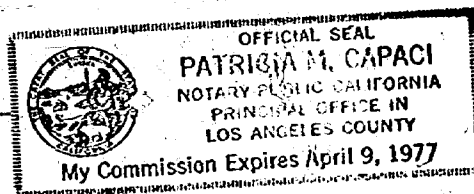
THE STATE OF California
COUNTY OF Los Angeles

The foregoing instrument was acknowledged before me this 6th day of January, 1975, by Mary Jane De Voss of _____

My Commission Expires: _____

April 9, 1977

Patricia M. Capaci
Notary Public in and for _____
County, _____



CCH:ejl
11-20-74

ELKS NATIONAL FOUNDATION

Linda E. Parsons

By

John L. Becker

Chairman

Linda E. Parsons
Notary Public in and for **Roanoke**
City, County, Virginia

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

EXXON CORPORATION

ATTEST:

By [Signature]
Agent and Attorney in Fact

Div. Geol. CSN
Div. Leas. [Signature]
Jt. Int. [Signature]

THE STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 15th day of January, 1975, by L. H. Byrd, Agent and Attorney in Fact of Exxon Corporation, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Lena P. Jehle
Notary Public in and for Midland
County, Texas

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Connie Sue Peery
Connie Sue Peery
Asst. Secretary

FELMONT OIL CORPORATION

By

Joe D. Miller
Joe D. Miller, Manager Western Division

THE STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 13th day of January, 1975, by Joe D. Miller Manager Western Division of Felmont Oil Corporation, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Mildred M. Saye
Notary Public in and for Midland
County, Texas

Mildred M. Saye
Notary Public in and for
Midland County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

FIRST NATIONAL BANK OF CASPER, TRUSTEE,
TATE TRUSTS

ATTEST:

Mark E. Vincent
Asst. Cashier

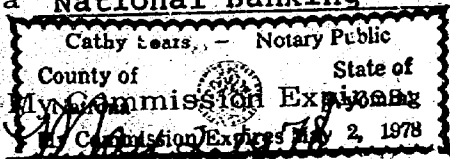
By

[Signature]
Vice President and Trust Officer

THE STATE OF WYOMING

COUNTY OF NATRONA

The foregoing instrument was acknowledged before me this 17th day of December, 1974, by D. J. Swanton, Vice-President of First National Bank of Casper, a National Banking corporation, on behalf of said corporation.



Cathy Sears
Notary Public in and for Natrona
County, Wyoming

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.


My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

The First National Bank of Ft. Worth,
Trustee U/A with Rogur Fredric Makin

ATTEST:


Vice President & Trust Officer

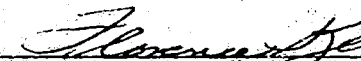
By 
Trust Officer

THE STATE OF Texas

COUNTY OF Tarrant

The foregoing instrument was acknowledged before me this 23rd day of January, 1975, by Jerry Eskew, Trust Officer of The First National Bank of Ft. Worth, a corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires June 1, 1975

FLORENCE KERR 
Notary Public in and for Tarrant
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

The First National Bank of Ft. Worth,
~~Trustee U/A with Raynard S. Makin, Jr.~~

ATTEST:


Vice President & Trust Officer

By


Trust Officer

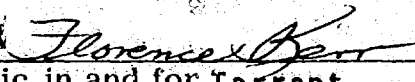
THE STATE OF Texas

COUNTY OF Tarrant

The foregoing instrument was acknowledged before me this 23rd day of January, 197 5, by Jerry Eskew Trust Officer of The First National Bank of Ft. Worth a corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires June 1, 1975

FLORENCE KERR


Notary Public in and for Tarrant County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197 _____, by _____

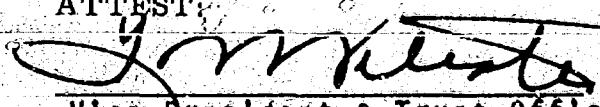
My Commission Expires:

Notary Public in and for _____ County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

The First National Bank of Ft. Worth,
Ind. Exec. of the Estate of Smith
Spradling, dec.

ATTEST:


Vice President & Trust Officer

By


Trust Officer

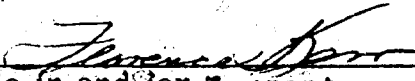
THE STATE OF Texas

COUNTY OF Tarrant

The foregoing instrument was acknowledged before me this 23rd day of January, 1975, by Jerry Eskew, Trust Officer of The First National Bank of Ft. Worth a corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires June 1, 1975

FLORENCE KERR


Notary Public in and for Tarrant
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:



David G. Hubbard
Assistant Trust Officer

The First National Bank of
Midland, Texas, Trustee

By Tom C. Benson
Trust Land Mgr., Tr. #1010

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 26th day
of December, 1974, by Tom B. Benson
Assistant Vice President of The First National Bank of Midland,
National Banking corporation, on behalf of said corporation.

My Commission Expires:
6-1-75

Lee Allison
Notary Public in and for Midland
County, Texas

THE STATE OF _____

COUNTY OF _____

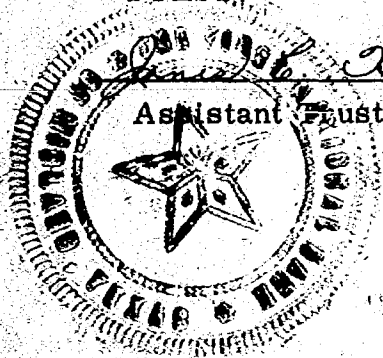
The foregoing instrument was acknowledged before me this _____ day
of _____, 1974, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:



Hubbard
Assistant Trust Officer

The First National Bank of
Midland, Texas, Trustee

By: Tom C. Benson
Trust Land Mgr., Tr. 1011

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 26th day
of December, 1974, by Tom C. Benson
Assistant Vice President of The First National Bank of Midland
National Banking corporation, on behalf of said corporation.

My Commission Expires:
6-1-75

Lee Allison
Notary Public in and for Midland
County, Texas

THE STATE OF _____

COUNTY OF _____

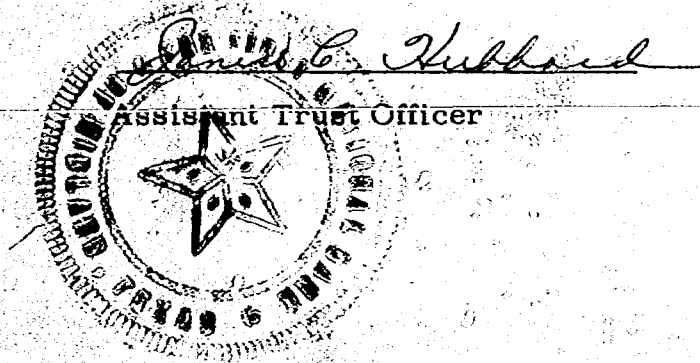
The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:



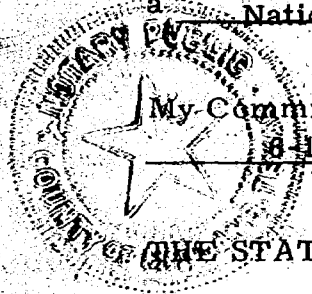
The First National Bank of
Midland, Texas, Trustee

By: Tom C. Benson
Trust Land Mgr., Tr. #1012

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 26th day of December, 1974, by Tom C. Benson, Assistant Vice President of The First National Bank of Midland, a National Banking corporation, on behalf of said corporation.



My Commission Expires:
8-1-75

Lee Allison
Notary Public in and for Midland
County, Texas

THE STATE OF _____

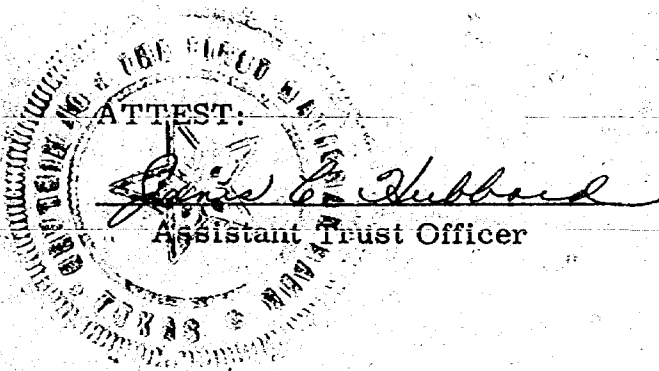
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



The First National Bank of
Midland, Texas, Trust #1013
By Tom C. Benson
Trust Land Mgr., Tr. #1013

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 26th day
of December, 1974, by Tom C. Benson,
Assistant Trust Officer of The First National Bank of Midland,
a National Banking corporation, on behalf of said corporation.

My Commission Expires:
1-1-75

Lee Allison
Notary Public in and for Midland
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Chano Hill

THE FIRST NATIONAL BANK OF ROSWELL
ROSWELL, NEW MEXICO

By

BY

David Uechi
VICE PRESIDENT and TRUST OFFICER

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 18 day of December, 1974, by A. David Uechi, Vice President & Trust Officer of First National Bank, a National Banking corporation, on behalf of said corporation.

My Commission Expires:
May 4, 1977

Wilma M. Sherman
Notary Public in and for Chaves
County, New Mexico

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Eleanor Hill

THE FIRST NATIONAL BANK OF ROSWELL
ROSWELL, NEW MEXICO

By

David Uechi
VICE PRESIDENT and TRUST OFFICER

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 18 day of December, 1974, by A. David Uechi, Vice President & Trust Officer of First National Bank, a National Banking corporation, on behalf of said corporation.

My Commission Expires:
May 4, 1977

Wilma M. Sherman
Notary Public in and for Chaves
County, New Mexico

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

E.C. Goodman Jr.
Asst. Cashier

~~First National Bank at Lubbock, Texas~~
~~Executor of ESTATE OF HALLIE C. Posey, Dec'd.~~
By: Joe Dale Bryan
Vice President & Trust Officer

THE STATE OF Texas

COUNTY OF Lubbock

The foregoing instrument was acknowledged before me this 14th day of February, 1975, by JOE DALE BRYAN,
VICE PRESIDENT AND TRUST OFFICER of FIRST NATIONAL BANK AT LUBBOCK, LUBBOCK, TEXAS, Executor
a NATIONAL BANKING corporation, on behalf of said corporation AND IN THE
Capacity therein stated.

My Commission Expires:
6-1-75

Janice L. Kessie
Notary Public in and for Lubbock
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Margaret Manville Fitzmaurice

ATTEST:

Leora Kennelly

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF NEW YORK

COUNTY OF MONROIE

The foregoing instrument was acknowledged before me this 17 day of DECEMBER, 1974, by MARLENE MANOVILL FITZMAURICE

My Commission Expires:

JOHN J. STEVENS

Notary Public in the State of New York
MONROE COUNTY, N. Y.
Commission Expires March 30, 1974

John J. Stevens
Notary Public in and for MONROIE County, NEW YORK

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

FLUOR OIL AND GAS CORPORATION

ATTEST:

[Signature]
Assistant Secretary

By [Signature]
Leroy Esterak, Vice President



THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 20th day of December, 1974, by Leroy Esterak,
Vice President of Fluor Oil and Gas Corporation,
a California corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

[Signature]
Notary Public in and for Midland
County, Texas

C. L. Ware
Notary Public, Midland County, Tex.
Commission Expires June 1, 1975

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Ilamae Forbes
Ilamae Forbes

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF OKLAHOMA

COUNTY OF TULSA

The foregoing instrument was acknowledged before me this 11th day of February, 1975, by Ilamae Fortes

My Commission Expires: July 16, 1975

Leana Smith
Notary Public in and for Tulsa County, Oklahoma

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

FOSTER PETROLEUM CORPORATION

ATTEST:

H. Taylor
Secretary

By *Charles F. Doornbos*
Charles F. Doornbos - President

THE STATE OF OKLAHOMA

COUNTY OF WASHINGTON

The foregoing instrument was acknowledged before me this 17th day of December, 1974, by Charles F. Doornbos, President of Foster Petroleum Corporation, a Delaware corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires June 11, 1975

Mary E. McDowell
Notary Public in and for Washington
County, Oklahoma

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Caroline Beland
Ass't Secretary

FRONTIER OIL & GAS CO., INC.

By

Lloyd Uglund
Vice President

THE STATE OF TEXAS
COUNTY OF Midland

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Lloyd Uglund, Vice President of Frontier Oil & Gas Co., Inc., a Texas corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1975

Eugene J. [Signature]
Notary Public in and for Midland
County, Texas

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

General American Oil Company of Texas

ATTEST:

John C. Cooper
John C. Cooper, Assistant Secretary

By

Donald C. Apeland
Donald C. Apeland, Vice President

THE STATE OF Texas

COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 23rd day of December, 1974, by Donald C. Apeland Vice President of General American Oil Company of Texas, a Delaware corporation, on behalf of said corporation.

My Commission Expires:

6-1-75

Larry McQueen
Notary Public in and for

County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____

County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

GENERAL CRUDE OIL COMPANY

ATTEST:

O. M. Hagler
O. M. HAGLER
Secretary

By F. A. Hunter

Vice President

THE STATE OF TEXAS

COUNTY OF HARRIS

The foregoing instrument was acknowledged before me this 17th day of December, 1974, by F. A. Hunter,
Vice President of General Crude Oil Company,
a Delaware corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Linda Wollard LINDA WOLLARD
Notary Public in and for Harris
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

GENERAL CRUDE OIL COMPANY

ATTEST:

O. M. Hagler
O. M. Hagler
Secretary

By F. A. Hunter
Vice-President

THE STATE OF TEXAS

COUNTY OF HARRIS

The foregoing instrument was acknowledged before me this 17th day of December, 197 4, by F. A. Hunter,
Vice President of General Crude Oil Company,
a Delaware corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Linda Wollard LINDA WOLLARD
Notary Public in and for Harris
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Grace Carson Gladwin

ATTEST:

Carol Scrimpsker

By Grace Carson Gladwin

THE STATE OF texas

COUNTY OF texas

The foregoing instrument was acknowledged before me this 27th day of december, 1974, by Grace Carson Gladwin,
~~XXXXXXXXXXXXXXXXXXXX~~
an individual interest ~~corporation~~ on behalf of said ~~corporation~~ individual.

My Commission Expires:

june 1, 1975

Sharon Dalrymple
Notary Public in and for

County, texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____

County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Julian W. Glass, Jr.
Julian W. Glass, Jr., Trustee under the
Will of J. Wood Glass, Deceased

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF OKLAHOMA

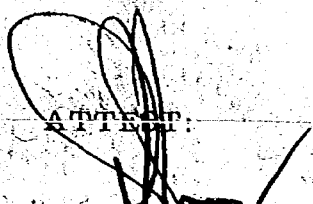
COUNTY OF NOWATA

The foregoing instrument was acknowledged before me this 19th day
of December, 1974, by Julian W. Glass, Jr., Trustee under the
Will of J. Wood Glass, Deceased

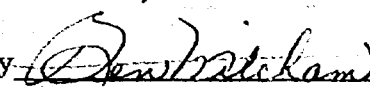
My Commission Expires:
January 11, 1976

James A. Arnold
Notary Public in and for Nowata
County, Oklahoma

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.


Agent Sec.


The Pennsylvania Bank & Trust Company
Trustee U/W of A. W. Goal

By 
Trust Officer

THE STATE OF Pennsylvania
COUNTY OF Warren

The foregoing instrument was acknowledged before me this 24th day of March, 1975, by Ben Mitcham, Trust Officer of The Pennsylvania Bank & Trust Company a banking corporation, on behalf of said corporation.

My Commission Expires:
GLADYS E. JUDD, NOTARY PUBLIC
WARREN BOROUGH, WARREN COUNTY
MY COMMISSION EXPIRES SEPT. 2, 1978
Member, Pennsylvania Association of Notaries


Notary Public in and for Warren County,

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST

[Signature]

By

[Signature]

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 17th day of December, 197____, by Sue Saunders Graham

My Commission Expires: _____

March 16th 1977

[Signature]

Notary Public in and for Chaves County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Henry de Haffenried Bedford

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by HENRY DE HAFENRIED BEDFORD

My Commission Expires: June 28, 1977

Eleanor Nicholas
Notary Public in and for Chaves
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By _____
Delma Hardy

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____ Notary Public in and for _____ County, _____

THE STATE OF New Mexico
COUNTY OF Lea

The foregoing instrument was acknowledged before me this 29 day of January, 1975, by Delma Hardy

My Commission Expires: Oct 11, 1975 Notary Public in and for Lea County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Mrs. Clotilde Marie Hardy

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 15th day of Jan, 1975, by Clotilde Marie Hardy.

My Commission Expires: 5/2/77

Wray Schubert
Notary Public in and for Lea County, N. Mex.

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Neval Hardy

ATTEST:

By Alice M. Hardy

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF California

COUNTY OF Orange

The foregoing instrument was acknowledged before me this 22 day of December, 197 74, by Neval Hardy and Alice M Hardy

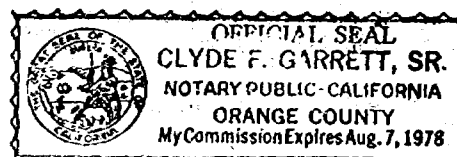
My Commission Expires: _____

Aug. 7, 1978

Notary Public in and for Orange

County, Calif.

CCH:ejt
11-20-74



The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Felix Hardy

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 15th day of January, 1975, by Felix Hardy

My Commission Expires: _____

Thomas Bryan
Notary Public in and for Lea County, New Mexico

MY COMMISSION EXPIRES
NOVEMBER 8, 1975

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Harvey A. Heller, Jr.

Frances Herndon Heller

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Oklahoma

COUNTY OF Tulsa

The foregoing instrument was acknowledged before me this 18th day of December, 1974, by Harvey A. Heller, Jr., and Frances Herndon Heller

My Commission Expires: 5-25-77

Betty J. Alderson
Notary Public in and for Tulsa County, Okla.

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

PEARL M. AND JULIA J. HARMON FOUNDATION, INC.

ATTEST:

George L. Hanks
George L. Hanks, Secretary

By Julia J. Harmon
Julia J. Harmon, President

THE STATE OF OKLAHOMA

COUNTY OF NOWATA

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Julia J. Harmon, President of Pearl M. & Julia J. Harmon Foundation, Inc., a corporation, on behalf of said corporation.
in Oklahoma

My Commission Expires:
February 24, 1977

Mary Ellen Grant
Notary Public in and for Nowata
County, Oklahoma

THE STATE OF _____

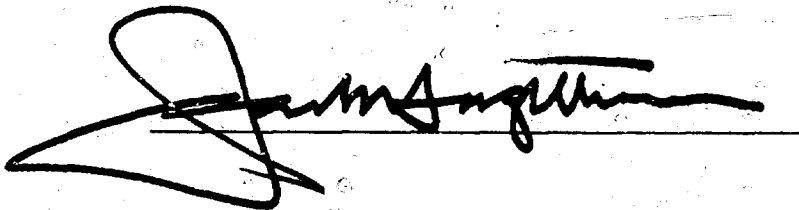
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



ATTEST:

By _____

THE STATE OF Florida
COUNTY OF Alachua

The foregoing instrument was acknowledged before me this 2 day of January, 1975, by Jack Hazelton,
a _____ corporation, on behalf of said corporation.

My Commission Expires:
NOTARY PUBLIC STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES AUG. 6, 1977
BONDED THRU GENERAL INSURANCE UNDERWRITERS

Margaret B. Hilliard
Notary Public in and for Alachua
County, Florida

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Joyce D. Raper

By Leonora K. Hegamyer

THE STATE OF Florida

COUNTY OF Dade

The foregoing instrument was acknowledged before me this 21 day of March, 1975, by LEONORA K. HEGAMYER of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Richard L. Verner
Notary Public in and for
County, _____

NOTARY PUBLIC STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES SEP. 5, 1978
BONDED THRU GENERAL INSURANCE UNDERWRITERS

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment. With the understanding that the Overriding royalty on gas is equivalent to 1/16 th based on my participation factor and not dependent on the sliding scale overriding royalty established by an agreement with Pan American in Feb. of 1965.

ATTEST:

By

Charles F. Henderson

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 3rd day of January, 197 5, by Charles F. Henderson

My Commission Expires: _____

June 1, 1975

Beth L. Darnell
Notary Public in and for _____

County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

JOHN H. HENDRIX

ATTEST:

By John H. Hendrix

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 7th day of February, 197 5, by JOHN H. HENDRIX

My Commission Expires: June 1, 1975

Marlene D. Jones
Notary Public in and for Midland County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Baren Healey
Baren Healey, Secretary

HERITAGE RESOURCES, Inc.

By

Burke Healey
Burke Healey, President

THE STATE OF OKLAHOMA

COUNTY OF MURRAY

The foregoing instrument was acknowledged before me this 10th day of March, 1975, by Burke Healey, President of Heritage Resources, Inc. a Oklahoma corporation, on behalf of said corporation.

My Commission Expires:
May 9, 1977

P. D. King
Notary Public in and for Murray
County, Oklahoma

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Mary Park
Not Sec

HINKLE INVESTMENT COMPANY

By

Clarence E. Hinkle

THE STATE OF NEW MEXICO
COUNTY OF CHAVES

The foregoing instrument was acknowledged before me this 17th day of February, 1975, by Clarence E. Hinkle, President of Hinkle Investment Company, a New Mexico corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires July 3, 1977

Charlotte Sander
Notary Public in and for Chaves
County, New Mexico

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Marguerite Christina Holaday
P.O. Box 21702
Phoenix, Arizona

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Arizona

COUNTY OF Maricopa

The foregoing instrument was acknowledged before me this 7th day of April, 1975, by Mary Teresa Christina Holaday

My Commission Expires: _____

My Commission Expires May 18, 1978

Lucille Schell
Notary Public in and for Arizona County, Maricopa

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

ESTATE OF G. E. HUBBARD DECEASED

By

REHJR

By

MRE

Trustees and Executors W/V of G E Hubbard, deceased

1302 Kirby Bldg.
Dallas Texas 75201
ID 75 601144

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF DALLAS

The foregoing instrument was acknowledged before me this 20 day of December, 1974, by G E Hubbard, Jr. and Morgan R. Hubbard, Trustees and Executors W/V of G E Hubbard, deceased

My Commission Expires: _____

June 1, 1975

Notary Public in and for Dallas

County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

ESTATE OF R. E. HUBBARD, DECEASED

By [Signature] **WIFE**

By [Signature] **WIFE**

By [Signature] **WIFE**

Trustees and Executors W/V of R. E. Hubbard, deceased

1302 Kirby Bldg.
Dallas Texas 75201

ID No. 75 134855

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF **TEXAS**

COUNTY OF **DALLAS**

The foregoing instrument was acknowledged before me this 10 day of December, 1974, by R. E. Hubbard, Jrs. Morgan E. Hubbard, and Harold G. Hubbard, Trustees and Executors W/V of R. E. Hubbard, deceased.

My Commission Expires: _____

[Signature] **J. V. Moran**
Notary Public in and for **Dallas** County, **Texas**

June 1, 1975

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By H. L. Huffman

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by H. L. Huffman

My Commission Expires: June 1, 1975

Notary Public in and for Midland County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Mattie H. James

ATTEST:

Chas. A. Blunt

By _____

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF New York
COUNTY OF Westchester

The foregoing instrument was acknowledged before me this 31 day of December, 1974, by MATTIE H. JAMES

My Commission Expires: _____

Chas. A. Blunt
Notary Public in and for West
County, New York

OSCAR A. BLOUSTEN
NOTARY PUBLIC, State of New York
No. 61-000000
Qualified in New York County
CCH:ejl Commission Expires March 30, 1976
11-20-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By S.P. Johnson III

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 24th day of January, 1975, by S.P. Johnson, III

My Commission Expires: February 13, 1978

Fred H. Kelley Jr.
Notary Public in and for Chaves County, Roswell N.M.

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

✓ D. P. Johnson Jr

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 20th day of February, 1975, by D. P. Johnson, Jr.

My Commission Expires: February 13, 1978

Fred W. Selley Jr
Notary Public in and for Chaves County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Donald L Jones Estate

ATTEST:

By Lottie D Jones, Executive

THE STATE OF Texas

COUNTY OF Lubbock

The foregoing instrument was acknowledged before me this 17th day of December, 1974, by Lottie D Jones, Executive of Donald L Jones Estate a corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1975

Clairine Ward
Notary Public in and for Lubbock
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Vicki Anderson Jones

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF California

COUNTY OF Monterey

The foregoing instrument was acknowledged before me this 30th day of December, 1974, by Vicki Anderson Jones

My Commission Expires: _____

Kathleen F. Corsaut
Notary Public in and for Monterey County, California



CCH:ejl
11-20-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Marjorie Cone Kastman

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Lubbock

The foregoing instrument was acknowledged before me this 13th day of December, 1974, by Marjorie Cone Kastman

My Commission Expires: June 1, 1975

Madeline Parker
Notary Public in and for Lubbock County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

KATHERINE CONE KECK TRUST "C"

ATTEST:

By

William Myron Keck, II, Trustee

Katherine Cone Keck, Trustee

Tom Sealy, Trustee

THE STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 30 day of December, 1974, by Tom Sealy.

corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Virginia J. Johnson
Notary Public in and for Midland
County, Texas

THE STATE OF California

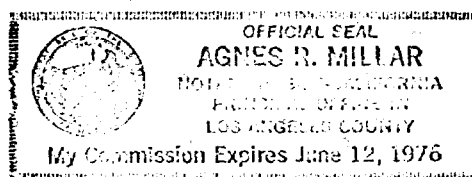
COUNTY OF Los Angeles

The foregoing instrument was acknowledged before me this 17th day of December, 1974, by Katherine Cone Keck and William Myron Keck, II

My Commission Expires:
June 12, 1976

Agnes R. Millar
Notary Public in and for Los Angeles
County, California

CCH:ejl
11-20-74



The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

KITMAN, INC.

ATTEST:

Drene Laddack

By Tom Adams
Its President

THE STATE OF TEXAS

COUNTY OF TERRY

The foregoing instrument was acknowledged before me this 7th day of January, 1975, by Tom Adams,
President of Kitman, Inc.,
a Texas corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Ernest Bearden
Notary Public in and for Terry
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

W.W. Lechner

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 13th day of December, 1977, by W. W. Lechner

My Commission Expires:

June 1, 1975

Earline Shelton
Notary Public in and for Dallas
County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Li. Drinkard

KURT LE KISKY

By _____

THE STATE OF Nebraska

COUNTY OF Franklin

The foregoing instrument was acknowledged before me this 20th day of December, 1974, by Li. Drinkard, of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: 6/1/75

Kurt Le Kisky
Notary Public in and for Franklin
County, Nebraska

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Robert J. Leonard

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 9th day of January, 1975, by Robert J. Leonard

My Commission Expires:

January 18, 1975

Patricia Matule Smith
Notary Public in and for Chaves
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Patrick J. Leonard

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Oklahoma

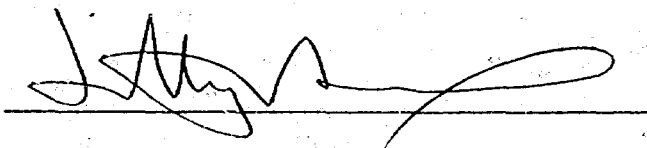
COUNTY OF Center

The foregoing instrument was acknowledged before me this 28th day of January, 1975, by Patrick J. Leonard

My Commission Expires: July 23, 1977

Ida Litchina
Notary Public in and for Center County, Oklahoma

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



ATTEST:

By _____

Timothy T. Leonard
Box 6006
San Antonio, Texas 78209

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Timothy T. Leonard

My Commission Expires: June 1, 1975

Erin W. Shoboda
Notary Public in and for Dallas County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Thelma A. Linam

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF NEW MEXICO

COUNTY OF LEA

The foregoing instrument was acknowledged before me this 12th day of December, 1974, by THELMA A. LINAM

My Commission Expires: 3-30-75

Jo Haley
Notary Public in and for Lea County, N. M.

10, 11, 15

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

C. S. Longcope

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF BROWN

The foregoing instrument was acknowledged before me this 18 day of December, 1974, by C. S. Longcope

My Commission Expires: _____

June 1, 1975

Linda Lee Linda Lee
Notary Public in and for Brown
County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Martha Madsen

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 27th day of December, 1974, by Martha Madsen

My Commission Expires: June 1, 1975

Robert Harris
Notary Public in and for Midland
County, Texas

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ATTEST:

By

Edwin J. Manovill

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New York

COUNTY OF Suffolk

The foregoing instrument was acknowledged before me this 17 day of Dec, 1974, by Edwin J. Manovill

My Commission Expires: _____

Notary Public in and for _____ County, Suffolk

NEIL ESPOSITO
Notary Public, State of New York
No. 52-1132308

Qualified in Suffolk County
Comm. Expires March 30, 1975

CCH:ejl

11-20-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Eduin E. Mansueti

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New York

COUNTY OF Suffolk

The foregoing instrument was acknowledged before me this 17 day of Dec, 1974, by Eduin E. Mansueti

My Commission Expires: _____

Notary Public in and for _____ County, Suffolk

NEIL ESPOSITO
Notary Public, State of New York
No. 52-1132303
Qualified in Suffolk County
Comm. Expires March 30, 1975

CCH:ej
11-20-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

Edwin J. Marshall

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New York

COUNTY OF Schoharie

The foregoing instrument was acknowledged before me this 17 day of Dec, 1974, by Edwin J. Marshall

My Commission Expires: _____

Notary Public in and for NY County, Schoharie

NEIL ESPOSITO
Notary Public, State of New York
No. 52-1132308
Qualified in Suffolk County
Comm. Expires March 30, 1978

-3-

CCH:aji
11-20-74

12-17-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

MARATHON OIL COMPANY

By

M. B. Todd

M. B. Todd
Division Operations Manager

P. O. Box 3128

Houston, Texas 77001



THE STATE OF TEXAS

COUNTY OF HARRIS

The foregoing instrument was acknowledged before me this 16th day of JANUARY, 1975, by M. B. Todd,
Division Operations Manager of Marathon Oil Company,
an Ohio corporation, on behalf of said corporation.

My Commission Expires:

JUNE 1, 1975

J. E. Peek J. E. Peek
Notary Public in and for Harris
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Frances Link Matthews

Sarah Lee Link Brumley

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 17th day of January, 1975, by Frances Link Matthews Sarah Lee Link Brumley



Sharon S. McPherson
Notary Public in and for Midland
County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

With the understanding that the Overriding royalty on gas is equivalent to 1/16 th based on my participation factor and not dependent on the sliding scale overriding royalty established by an agreement with Pan American in Feb. of 1965.

ATTEST:

By *L. Mulzer*

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF *Texas*

COUNTY OF *Midland*

The foregoing instrument was acknowledged before me this *29th* day of *December*, 197*4*, by *L. S. Mulzer*

My Commission Expires: *6-1-74*

Charlotte L. Hall
Notary Public in and for *Midland* County, *Texas*

CHARLOTTE L. HALL - Notary Public
In and For Midland County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

MOBIL OIL CORPORATION

ATTEST:

By

E. S. Wright, Jr.
Attorney-in-Fact

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 21st day of January, 1975, by E. S. Wright, Jr.,
Attorney-in-Fact of Mobil Oil Corporation,
a New York corporation, on behalf of said corporation.

My Commission Expires:
My commission expires
June 1, 1975

Wanda Phillips
Notary Public in and for Midland
County, Texas

WANDA PHILLIPS, Notary Public
In and for Midland County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

NEWMONT OIL COMPANY

ATTEST:

Dorothy Hill
Assistant Secretary

By *Robert S. Moehlman*
Robert S. Moehlman, President *RF*

THE STATE OF TEXAS

COUNTY OF HARRIS

The foregoing instrument was acknowledged before me this 4th day of March, 1975, by ROBERT S. MOEHLMAN,
PRESIDENT of NEWMONT OIL COMPANY,
a Delaware corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Genevieve E. Couvill
Notary Public in and for Harris
County, Texas

Notary Public in and for Texas
My Commission Expires June 1, 1975
Bonded By Alexander Lovett, Lawyers Surety Corp.

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

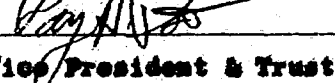
Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:


Asst. Cashier

NEW MEXICO BANK AND TRUST COMPANY, Trustee
Under the Will of James Virgil Linam, Dec.

By 
Vice President & Trust Officer

THE STATE OF NEW MEXICO

COUNTY OF LEA

The foregoing instrument was acknowledged before me this 13th day of December, 1974, by RAY H. POTTER, Vice President & Trust Officer of NEW MEXICO BANK & TRUST COMPANY, a banking corporation, on behalf of said corporation.

My Commission Expires:
3-30-74


Notary Public in and for Lea
County, New Mexico

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Orabel Cason

New Mexico Boys Ranch

By B.G. Barnes Pres

THE STATE OF

New Mexico

COUNTY OF

Bernalillo

The foregoing instrument was acknowledged before me this 6th day of January, 1975, by B.G. Barnes President of New Mexico Boys Ranch, a New Mexico corporation, on behalf of said corporation.

My Commission Expires:

3-28-76

Orabel Cason
Notary Public in and for Bernalillo
County, New Mexico

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

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ATTEST:

Jimmie W. Davis
JIMMIE W. DAVIS ASSISTANT SECRETARY

By Charles R. Pirtle
JIMMIE W. DAVIS VICE PRESIDENT

THE STATE OF TEXAS

COUNTY OF HARRIS

The foregoing instrument was acknowledged before me this 25th day of March, 1975, by CHARLES R. PIRTLE,
Vice President of NORTH CENTRAL OIL CORPORATION,
a Delaware corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Mildred Merrill
Notary Public in and for Harris
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Ida Elizabeth Oliver

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Ida Elizabeth Oliver

My Commission Expires:
6-1-75

S. Hunter
Notary Public in and for Midland
County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Ida Beth Cowden Oliver

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Ida Beth Cowden Oliver

My Commission Expires: _____

6/1/75

D. Hunter
Notary Public in and for Midland County, Texas

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Marylee M. Olson

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197⁵, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF **MINNESOTA.**

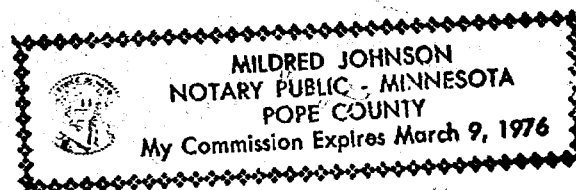
COUNTY OF **POPE.**

The foregoing instrument was acknowledged before me this **18th** day of **February**, 197⁵, by **Marylee Olson**

My Commission Expires: _____

Mildred Johnson
Notary Public in and for _____ County, _____

CCH:ejl
11-20-74



The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Elyse Sandra Patterson

ATTEST:

By _____

THE STATE OF Missouri
COUNTY OF Jackson

The foregoing instrument was acknowledged before me this 18th day of December, 1974, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires:
My Commission Expires Sept. 13, 1978

Mary Lechidge Carter
Notary Public in and for Missouri
County, Jackson

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Elizabeth H. Penn

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Elizabeth H. Penn, Trustee of Estate of Robert Lee Penn.

My Commission Expires: _____

June 1, 1975

James L. Cason
Notary Public in and for Dallas County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Nancy Elizabeth Pearson

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by

Nancy Elizabeth Pearson

My Commission Expires: June 1 1975

Francis L. Casert
Notary Public in and for Dallas County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Patricia Penrose Schieffer

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF TARRANT

The foregoing instrument was acknowledged before me this 24th day of March, 1975, by PATRICIA PENROSE SCHIEFFER

My Commission Expires: 6/1/75

Notary Public in and for TARRANT County, TEXAS

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

PETROLEUM CORPORATION OF TEXAS

ATTEST:

[Signature]
Secretary

By [Signature] President
APPROVED AS TO FORM
AS TO CONTENT
AS TO INTEREST
ADMINISTRATION

THE STATE OF TEXAS

COUNTY OF STEPHENS

The foregoing instrument was acknowledged before me this 18th day of February, 1975, by J. L. McClymond, President of Petroleum Corporation of Texas, a Texas corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Mario Brannan **Mario Brannan**
Notary Public in and for Stephens
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

PHILLIPS DISTRIBUTION ACCOUNT

ATTEST:

Amy G. Moore
Amy G. Moore
Amy G. Moore
Amy G. Moore
Amy G. Moore

THE STATE OF _____

COUNTY OF _____

By Ross M. Phillips
Donald M. Phillips
Laurence G. Phillips
Paul M. Phillips
John W. Phillips

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF California

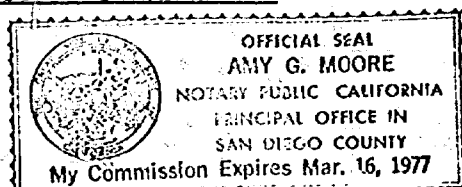
COUNTY OF San Diego

The foregoing instrument was acknowledged before me this 18th day of December, 1974, by Ross M. Phillips, Donald M. Phillips, Laurence G. Phillips, Paul M. Phillips and John W. Phillips

My Commission Expires:

March 16, 1977

Amy G. Moore
Notary Public in and for San Diego County, California



CCH:ejl
11-20-74

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Fay R. Power

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 16 day of December, 1974, by Fay R. Power, a widow

My Commission Expires:

1-27-77

Helen Henderson
Notary Public in and for Lea
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By


CHARLES H. PRICE II

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

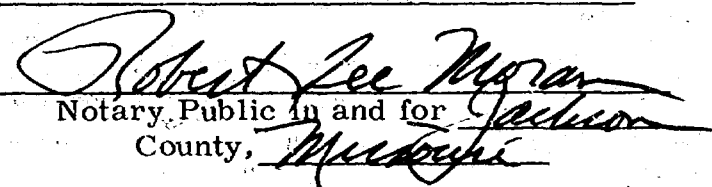
THE STATE OF MISSOURI

COUNTY OF JACKSON

The foregoing instrument was acknowledged before me this 17th day of December, 197 4, by Charles H. Price II

My Commission Expires:

April 8, 1974


Notary Public in and for _____

County, Missouri

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

CHARLES H. PRICE II, Attorney-in-Fact
for EDWARD C. PRICE

ATTEST:

By Charles H. Price II
CHARLES H. PRICE II, Attorney-in-Fact

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
a _____ of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF MISSOURI
COUNTY OF JACKSON

The foregoing instrument was acknowledged before me this 17th day
of December, 1974, by Charles H. Price II, Attorney-in-Fact
for Edward C. Price

My Commission Expires:
April 8, 1976

Robert Lee Moran
Notary Public in and for Jackson
County, Missouri

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

CHARLES H. PRICE II, Attorney-in-Fact
for DAVID E. PRICE

ATTEST:

By Charles H. Price II
CHARLES H. PRICE II, Attorney-in-Fact

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF Missouri

COUNTY OF Jackson

The foregoing instrument was acknowledged before me this 17th day
of December, 197____, by Charles H. Price II, Attorney-in-Fact
for David E. Price

My Commission Expires:
April 8, 1976

Robert Lee Morgan
Notary Public in and for Jackson
County, Missouri

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

**CHARLES H. PRICE II, Attorney-in-Fact
for LINWOOD SECURITIES COMPANY**

ATTEST:

By

Charles H. Price II
CHARLES H. PRICE II, Attorney-in-Fact

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF **MISSOURI**

COUNTY OF **JACKSON**

The foregoing instrument was acknowledged before me this **17th** day
of **December**, 197 **4**, by **Charles H. Price II, Attorney-in-Fact**
for Linwood Securities Company

My Commission Expires:
April 8, 1976

Robert Lee Morgan
Notary Public in and for **Jackson**
County, **Missouri**

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

**CHARLES H. PRICE II, Attorney-in-Fact
for MAIN STREET HOLDING CO.**

ATTEST:

By


CHARLES H. PRICE II, Attorney-in-Fact

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

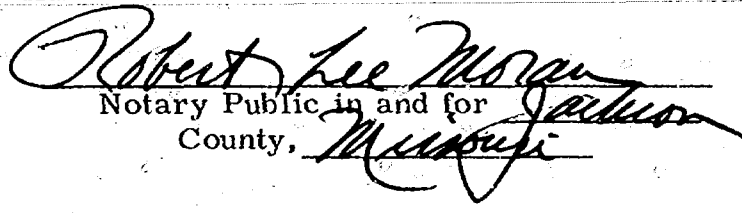
THE STATE OF MISSOURI

COUNTY OF JACKSON

The foregoing instrument was acknowledged before me this 17th day
of December, 1974, by Charles H. Price II, Attorney-in-Fact

My Commission Expires: _____

April 8, 1976

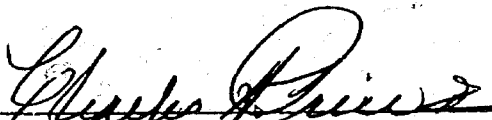

Notary Public in and for _____
County, Missouri

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

CHARLES H. PRICE II, Attorney-in-Fact
for MAPLE DUNBAR EARP

ATTEST:

By


CHARLES H. PRICE II, Attorney-in-Fact

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

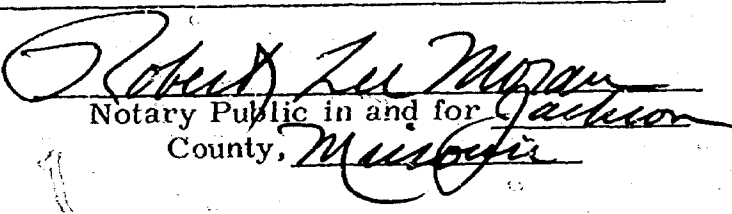
Notary Public in and for _____
County, _____

THE STATE OF MISSOURI

COUNTY OF JACKSON

The foregoing instrument was acknowledged before me this 17th day
of December, 1974, by CHARLES H. PRICE II, Attorney-in-Fact
for Maple Dunbar Earp

My Commission Expires:
April 8, 1976


Notary Public in and for Jackson
County, Missouri

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

**CHARLES H. PRICE II, Attorney-in-Fact
for PEOPLES SECURITIES COMPANY**

ATTEST:

By


CHARLES H. PRICE II, Attorney-in-Fact

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

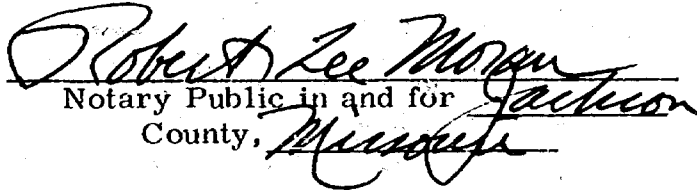
Notary Public in and for _____
County, _____

THE STATE OF **MISSOURI**

COUNTY OF **JACKSON**

The foregoing instrument was acknowledged before me this **17th** day
of **December**, 197 **4**, by **Charles H. Price II, Attorney-in-Fact**
for Peoples Securities Company

My Commission Expires:
April 8, 1976

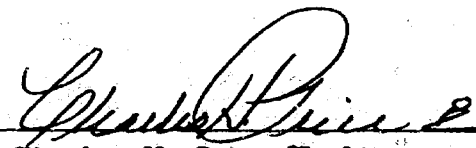

Notary Public in and for **Jackson**
County, **Missouri**

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

CHARLES H. PRICE II, Attorney-in-Fact
for WESTPORT BANK

ATTEST:

By


Charles H. Price II, Attorney-in-Fact

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
_____ of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

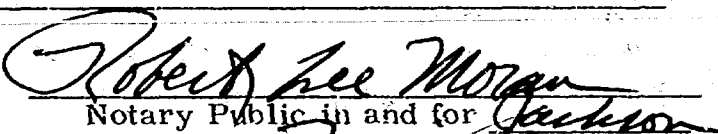
Notary Public in and for _____
County, _____

THE STATE OF MISSOURI

COUNTY OF JACKSON

The foregoing instrument was acknowledged before me this 17th day
of December, 1974, by Charles H. Price II, Attorney-in-Fact
for Westport Bank

My Commission Expires:
April 8, 1974


Notary Public in and for Jackson
County, Missouri

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

George L. Reese, Jr.

ATTEST:

By Lila Reese

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Chaves

The foregoing instrument was acknowledged before me this 2nd day of January, 1975, by George L. Reese, Jr. and Lila Reese, his wife

My Commission Expires: 10-1-78

Clarence G. Blair
Notary Public in and for Chaves County, N.M.

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

John N. Durrie
John N. Durrie
Secretary of the University

By John Perovich *cd*
John Perovich
Vice President for Business & Finance
For the Regents of the
University of New Mexico

THE STATE OF New Mexico

COUNTY OF Bernalillo

The foregoing instrument was acknowledged before me this 3rd day of January, 1975, by John Perovich,
Vice President of the University of New Mexico,
a State corporation, on behalf of said corporation.

My Commission Expires:
September 5, 1977

Wixon K. Kight
Notary Public in and for Bernalillo
County, New Mexico

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

S. A. Wells
S. A. Wells, Assistant Secretary

REPUBLIC NATIONAL LIFE INSURANCE COMPANY

By

C. E. Burnett

C. E. Burnett, Vice President

THE STATE OF Texas

COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by C. E. Burnett,
Vice President of Republic National Life Insurance Company,
a Texas corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Spitta Phillips
Notary Public in and for Dallas
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

[Signature]

By *[Signature]*

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New York

COUNTY OF New York

The foregoing instrument was acknowledged before me this 26 day of December, 1974, by John J. Reynolds

My Commission Expires: _____

JAMES H. CALLAHAN
Notary Public, State of New York
No. 41-5576501
Qualified in Queens County
Term Expires March 30, 1976

[Signature]
Notary Public in and for _____ County, _____

The foregoing two pages designated as Amendment to Unit Agreement,
Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are
expressly ratified, adopted and approved by the undersigned as the owner of
either a working interest, overriding royalty interest or royalty interest and does
hereby agree to be bound by said amendment as though each party had executed
the original amendment.

Inez R. Rhee

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF Florida

COUNTY OF Chieft

The foregoing instrument was acknowledged before me this 16th day
of December, 1974, by Inez R. Rhee

My Commission Expires: _____

Joe M. Heren
Notary Public in and for Chieft
County, Florida

Notary Public, State of Florida at Large
My Commission Expires May 17, 1976
Bonded By American Life & Casualty Co.

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Onez Norman Rooney *OK/PR*
WAR
William A. Rooney *WAR*

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF Oklahoma

COUNTY OF Oklahoma

The foregoing instrument was acknowledged before me this 20th day of December, 1974, by Onez Norman Rooney and William A. Rooney, her husband

My Commission Expires:
January 3, 1975

Grace Walker
Notary Public in and for Oklahoma
County, Oklahoma

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Velma Raring

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Oklahoma

COUNTY OF Oklahoma

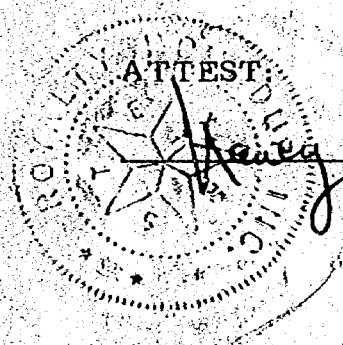
The foregoing instrument was acknowledged before me this 30th day of December, 1974, by Velma Raring

My Commission Expires: _____

August 23, 1978

L. Jay McDeuge
Notary Public in and for Oklahoma
County, Oklahoma

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



Secretary

ROYALTY ROUNDUP, INC.

By

Jack L. Hart
President

P. O. Box 5615

Midland, TX 79701

THE STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 13th day of February, 1975, by Jack L. Hart, President of Royalty Roundup, Inc., a Texas corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Loueta H. Smith
Notary Public in and for Midland
County, Texas

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Lula S. Rush ✓

LSR

ATTEST:

By _____

THE STATE OF Arkansas

COUNTY OF Garland

The foregoing instrument was acknowledged before me this 27 day of Dec., 1974, by Lula S. Rush of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires:

9-1-78

Mildred Burgess
Notary Public in and for Garland
County, Arkansas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

SABINE ROYALTY CORPORATION

ATTEST:

A. L. Harkins, Jr.
A. L. Harkins, Jr., Secretary

By H. D. Carter
H. D. Carter, Vice President

THE STATE OF TEXAS

COUNTY OF DALLAS

The foregoing instrument was acknowledged before me this 6th day of January, 1975, by H. D. CARTER, Vice President of SABINE ROYALTY CORPORATION, a Texas corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Joan M. Chapman
Notary Public in and for Dallas
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires: _____

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

Bon Colton
Secretary

SANDRINE OIL CORPORATION

By

Thomas G. Gabe
Vice President

*Over
for
4/3*

THE STATE OF Oklahoma
COUNTY OF Carter

The foregoing instrument was acknowledged before me this 8th day of January, 1975, by Thomas G. Gabe, Vice President of Sandrine Oil Corporation, a Oklahoma corporation, on behalf of said corporation.

My Commission Expires:

November 18, 1978

Ann Singleton
Notary Public in and for Oklahoma
County, Oklahoma

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

H. Dillard Schenck

THE STATE OF

COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires:

Notary Public in and for _____ County, _____

THE STATE OF NEW MEXICO

COUNTY OF LEA

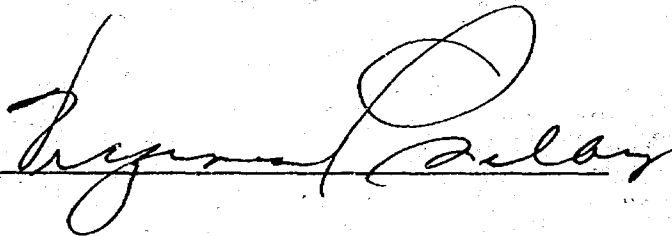
The foregoing instrument was acknowledged before me this 13th day of December, 1974, by H. DILLARD SCHENCK

My Commission Expires:

May 11, 1976

Virginia McCaw
Notary Public in and for Lea
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

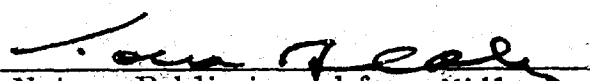
Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 13th day of December, 1974, by VIRGINIA P. SELBY

My Commission Expires: June 1, 1975


Notary Public in and for Midland County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

SHRINERS HOSPITALS FOR CRIPPLED CHILDREN

ATTEST:

Darryl L. Faye
Darryl L. Faye, Assistant Controller

By George M. Saunders
George M. Saunders, Secretary

THE STATE OF ILLINOIS

COUNTY OF COOK

The foregoing instrument was acknowledged before me this 6th day of JANUARY, 1975, by GEORGE M. SAUNDERS, SECRETARY of SHRINERS HOSPITALS FOR CRIPPLED CHILDREN, a COLORADO corporation, on behalf of said corporation.

My Commission Expires:

Feb 3, 1976

Harold K. Cook
Notary Public in and for ILLINOIS
County, COOK

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____.

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

J. E. Simmons
By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF NEW MEXICO

COUNTY OF LEA

The foregoing instrument was acknowledged before me this 16 day of Dec, 1974, by J. E. SIMMONS.

My Commission Expires: July 8, 1978

Betty A. Kaiser
Notary Public in and for Lea
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

June D. Speight
June D. Speight, a married woman dealing
in her sole and separate property

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day
of _____, 197____, by _____,
_____ of _____,
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 20th day
of December, 1974, by June D. Speight, a married woman dealing
in her sole and separate property.

My Commission Expires: _____

1-27-77

Florine Henderson
Notary Public in and for Lea
County, New Mexico

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Georgia Ann Stieren
Georgia Ann Stieren
Independent Executrix of the
Estate of Jack Stieren, Deceased

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____
County, _____

THE STATE OF Texas
COUNTY OF Brewer

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Georgia Ann Stieren, Independent Executrix of the Estate of Jack Stieren, Deceased

My Commission Expires: June 1975

Georgina A. Day
Notary Public in and for Brewer
County, Texas

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SUN OIL COMPANY (DELAWARE)

~~ATTEST:~~

By

Cecil A. Colville
Agent and Attorney in Fact

THE STATE OF Texas

COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 31st day of January, 1975, by CECIL A. COLVILLE, Agent and Attorney in Fact of SUN OIL COMPANY (DELAWARE), a Delaware corporation, on behalf of said corporation.

My Commission Expires:

June 1, 1975

Barbara Hayden
Notary Public in and for Dallas

County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.



TORTUGA OIL AND GAS, INC.

By Walter L. George
President

THE STATE OF Texas
COUNTY OF Dallas

The foregoing instrument was acknowledged before me this 27th day of January, 1975, by Walter L. George, President of Tortuga Oil and Gas Inc., a Texas corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Catherine J. Ashford
Notary Public in and for Dallas
County, Texas

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By

David Elliott Turner

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Denton

The foregoing instrument was acknowledged before me this 26th day of December, 1974, by David Elliott Turner

My Commission Expires: June 1, 1975

Thannell P. Aaron
Notary Public in and for Denton County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Nora Walker

ATTEST:

By Nora Walker

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF LUBBOCK

The foregoing instrument was acknowledged before me this 31 day of December, 1974, by Nora Walker

My Commission Expires:
5-31-75

Eulalie Davies
Notary Public in and for Eulalie Davies
Lubbock County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Mary D. Walsh

ATTEST:

By F. H. Walsh

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Tarrant

The foregoing instrument was acknowledged before me this 11th day of March, 1975, by F. H. Walsh

My Commission Expires:
June 1, 1975

Janice Mathers
Notary Public in and for Tarrant
County, Texas

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ATTEST:

WILLIAM B. WATSON, AGENT
and Attorney-in-Fact

By *William B. Watson*

THE STATE OF TEXAS
COUNTY OF TARRANT

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by William B. Watson, Agent and Attorney-in-Fact of William B. Watson, Agent, ~~xxx~~ occupations, on behalf of said ~~corporation~~ Agency.

My Commission Expires:
June 30, 1974

Notary Public in and for Tarrant
County, Texas

THE STATE OF TEXAS
COUNTY OF TARRANT

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by William B. Watson, Agent and Attorney-in-Fact

My Commission Expires:
June 30, 1976

Lubin Roberts
Notary Public in and for Tarrant
County, Texas

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Sadie Watson

ATTEST:

By _____

THE STATE OF Texas

COUNTY OF Midland

The foregoing instrument was acknowledged before me this 20th day of December, 1974, by Sadie Watson of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1975

Jessie Bess Duvall
Notary Public in and for Midland
County, Texas

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Ruth Rush Warner

THE STATE OF Arkansas
COUNTY OF Harlan

The foregoing instrument was acknowledged before me this 20th day of December, 1974, by Ruth Rush Warner of Harlan a corporation corporation, on behalf of said corporation.

My Commission Expires:

August 1, 1978

John Wilson
Notary Public in and for Harlan
County, Arkansas

THE STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Lamar Kimberly Whitman

ATTEST:

By _____

THE STATE OF Virginia

COUNTY OF City of Norfolk

The foregoing instrument was acknowledged before me this 17 day of Dec, 1974, by Lamar Kimberly Whitman, of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires:

2/18/78

Denton S. McCoy
Notary Public in and for City of Norfolk
County, State of VA

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____

My Commission Expires:

Notary Public in and for _____
County, _____

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Hattie C. Williams

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF Texas

COUNTY OF Lubbock

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Hattie C. Williams

My Commission Expires:
6-1-75

Dorothy K. Melton
Notary Public in and for Lubbock
County, Texas

The foregoing two pages designated as Amendment to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

ATTEST:

By Ellen Anne Wallace Williams

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF California

COUNTY OF Los Angeles

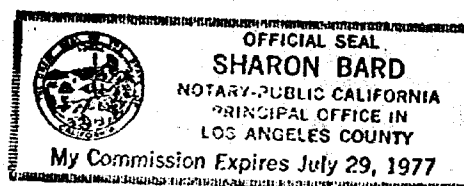
The foregoing instrument was acknowledged before me this _____ day of January, 1975, by Ellen Anne Wallace Williams

My Commission Expires: _____

Notary Public in and for Los Angeles County, Calif

CCH:ejl
11-20-74

-3-



The foregoing two pages designated as Amendmer to Unit Agreement, Central Drinkard Unit, Lea County, New Mexico, dated October 1, 1974, are expressly ratified, adopted and approved by the undersigned as the owner of either a working interest, overriding royalty interest or royalty interest and does hereby agree to be bound by said amendment as though each party had executed the original amendment.

Jane Johnson Wilson

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 18th day of December, 1974, by Jane Johnson Wilson

My Commission Expires: June 1, 1975

Norma Kenton
Notary Public in and for Midland
County, Texas

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Estella E Withers

ATTEST:

By _____

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____, a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Lincoln

The foregoing instrument was acknowledged before me this 13 day of Dec, 1974, by Estella E Withers

My Commission Expires: 7-14-76

J. S. Stearns
Notary Public in and for Lincoln County, N.M.

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ATTEST:

By Florence Louise Woods

THE STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 197____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public in and for _____ County, _____

THE STATE OF New Mexico

COUNTY OF Lea

The foregoing instrument was acknowledged before me this 16th day of December, 1974, by Florence Louise Woods

My Commission Expires: 5/24/77

E. Cheatham
Notary Public in and for Lea County, New Mexico

WORKING INTEREST OWNERS
CENTRAL DRINKARD UNIT
LEA COUNTY, NEW MEXICO

Amerada Hess Corp.
P. O. Box 2040
Tulsa, Oklahoma 74101

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

Atlantic Richfield Company
Attn: Mr. A. J. Brown
P. O. Box 1610
Midland, Texas 79701

Mary D. Walsh
1007 First National Bank Bldg.
Ft. Worth, Texas 76102

General American Oil Co. of Texas
Meadows Building
Dallas, Texas 75206

General Crude Oil Company
P. O. Box 2252
Houston, Texas 77001

Gulf Oil Corporation
P. O. Box 1150
Midland, Texas 79701

Marathon Oil Company
P. O. Box 552
Midland, Texas 79701

Mercantile - Safe Deposit & Trust Co. et al
Trustees, Trusts U/D Donaldson Brown
1503 Mercantile Bank & Trust Building
Baltimore, MD 21201

Mobil Oil Company
P. O. Box 663
Midland, Texas 79701

Royalty Roundup, Inc.
P. O. Box 5615
Midland, Texas 79701

Skelly Oil Company
P. O. Box 1351
Midland, Texas 79701

Georgia A. Stieren, Indp. Ex. of Est. of
Jack Stieren, Dec'd.
302 Belvidere Drive
San Antonio, Texas 78212

Sohio Petroleum Company
1100 Penn Tower
Oklahoma City, Oklahoma 73118

Sun Oil Company
12850 Hillcrest Road
Dallas, Texas 75230

ROYALTY OWNER'S ADDRESS LIST

CENTRAL DRINKARD UNIT

<u>ROYALTY OWNER & ADDRESS</u>	<u>TRACTS</u>	<u>DATE AMENDMENT EXECUTED</u>
Carol Turner (Sue) Adcox 2142 Des Jardines Houston, TX 77023	19, 20	1-7-75
Amoco Production Co. P. O. Box 3092 Houston, TX 77001	3, 18	2-17-75
Anderson Deerfield Agency Acc Kenneth Donald Anderson Janet Anderson Carrell Gary Anderson Fell Nancy Anderson Phariss Karen Anderson Reichert P. O. Box 136 Midland, Texas 79701	4,5,6,14, 20	12-17-74
Raymond R. Anderson 1806 Breckon Dr. Hobbs, New Mexico 88240	17	12-17-74
Amerada Hess Corporation Amerada Division P. O. Box 5279 New York, NY 10049	7, 8, 9	1-2-75
Atlantic Richfield Company P. O. Box 354 Dallas, TX 75221	13, 17	2-14-75
F. C. Ransom & William Barnes III, Trustees The Citizens National Bank of Decatur 236 North Water Street Decatur, Illinois 62525	13	12-20-74
Emma Gale Bartlett Agency #4533 Republic National Bank of Dallas P. O. Box 241 Dallas, Texas 75221	13, 18	1-7-75
Roy G. Barton Box 968 Hobbs, New Mexico 88240	11, 15, 17	12-18-74
Roy G. Barton, Jr. P. O. Box 978 Hobbs, New Mexico 88240	11, 15	12-18-74
Frank Bateman P. O. Box 2447 Santa Fe, New Mexico 87501	10	12-16-74
Helen Learmont Bedford P. O. Box 487 Dana Point, Calif. 92629	17	1-30-75
Charles F. Bedford No. 7 Westover Rd. Ft. Worth, TX 76107	17	12-16-74
Bishop Whipple Schools Faribault, Minn. 55113	11, 15	1-7-75
The Blanco Co. P. O. Box 1150 Roswell, New Mexico 88201	14	12-13-74

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
Rachel Bedford Bowen Box 572 San Clemente, Calif. 92672	17	12-30-74
Boys Clubs of America 771 First Avenue New York, New York 10017	11, 14, 15	3-10-75
Joyce Christmas Brown 909 North Alameda Las Cruces, New Mexico 88001	18, 19, 20	1-7-75
Constance E. Byers 209 Westgate Bldg. 1122 Colorado St. Austin, TX 78701	7, 8, 9, 10, 11 & 15	1-23-75
Willie M. Carson Est. of John Pearl Carson, Dec'd. 6106 B. Bullard St. Austin, TX 76751	4, 5, 6	1-6-75 4-2-75 as Ancillary Executrix
Powhatan Carter, Jr. & Anderson Carter Exec. of Estate of Effie Carter, Deceased Box 725 Lovington, NM 88260	10, 11, 15	1-14-75
Anderson Carter Box 725 Lovington, New Mexico 88260	10, 11, 15	12-16-74
Powhatan Carter, Jr. Box 328 Ft. Sumner, NM 88119	10, 11, 15	12-19-74
Mrs. Verna Chambers 715 North University Seminole, Oklahoma 74868	4, 5, 6, 14, 19 & 20	12-16-74
Rosemary Anderson Chapman Box 897 Post, Texas 79356	20	12-19-74
Peggy Chartier P. O. Box 751 Hobbs, NM 88240	10	12-23-74
Patricia Johnson Christenson 1214 Avenida Del Sombre Roswell, NM 88201	3	1-24-75
Bradford Christmas Chico Route Raton, NM 88740	19	12-27-74
B. A. Christmas, Jr. Chico Route Raton, NM 87740	18, 19, 20	1-13-75
B. A. Christmas, Jr. Gdn. for Helen Jane Christmas, Minor Chico Route Raton, NM 87740	18, 19, 20	1-13-75
B. A. Christmas, Jr., Gdn. for Bradford Christmas, Minor Chico Route Raton, NM 87740	20	1-13-75

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
Candy Christmas Chico Route Katon, NM 87740	18, 19, 20	1-21-75
Cities Service Oil Co. P. O. Box 3353 Houston, TX 77001	14	1-16-75
George H. Coates Estate 1610 Milam Bldg. San Antonio, TX 78205	7, 8, 9, 12	12-30-74
Virginia Hardy Cochran Route 6, Box 239 Lucedale, MS 39452	10	
S. E. Cone, Jr. Rouce 2, Box 363 Lubbock, TX 79415	3	1-2-75
Hugh Corrigan, III P. O. Box 3388 Vero Beach, Fla 32960	9	12-9-74
J. Patrick Corrigan P. O. Box 3130, Beach Station Vero Beach, Fla. 32960	9	12-19-74
Wright E. Cowden Box 482 Midland, TX 79701	7, 8, 9, 12	12-16-74
Wayne Cowden Box 579 Carlsbad, NM 88220	18, 19, 20	12-13-74
Boyce Rush Davis P. O. Box 16 Lake Hamilton, Arkansas 71951	13	12-16-74
Marie Jan. Devoss Life Tenant 10522 Santa Gertodes Apt. 47 Whittier, CA 90603	14	1-6-75
Elks National Foundation Care New England Merchants National Bank Trust Dept. Acct. 5-5429 135 Devonshire St. Boston, Mass. 02107	11, 14, 15	12-20-74
Exxon Company, USA P. O. Box 1547 Houston, TX 77001	21	1-15-75
Belmont Oil Corp. 6 E. 43rd St. New York, New York 10017	18	1-15-75
Marlene Manovill Fitzmaurice 12 Wheatstone Circle Fairport, NY 14450	14, 20	
First National Bank of Casper Trustee, M. E. & Inez Tate Trusts P. O. Box 40 Casper, WY 82601	4, 5, 6, 14, 19, 20	12-17-74

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
First National Bank in Dallas Trustee Acct. 08088 c/o Tr. Services Oil Dept. P. O. Box 6031 Dallas, TX 75222	11, 15	
First National Bank in Dallas & Vena H. Long, Indp. Executors Est. of Frank O. Long, Dec'd., c/o Trust Dept. P. O. Box 6031 Dallas, TX 75222	11, 15	
First National Bank of Ft. Worth Trustees for the Benefit of Roger Fredric Makin Attn: Trust Dept. P. O. Box 2260 Ft. Worth, Texas 76101	11, 15	1-23-75
First National Bank of Ft. Worth Trustees for the Benefit of Raynard S. Makin, Jr. Attn: Trust Dept. P. O. Box 2260 Ft. Worth, Texas 76101	11, 15	1-23-75
First National Bank of Ft. Worth Indpt. Exec. of Estate of Smith Spradling, Deceased, Acct. #20-2743 P. O. Box 2546 Ft. Worth, Texas 76101	4, 5, 6, 14, 19 & 20	1-23-75
The First National Bank of Midland Trustee Trust No. 1010 P. O. Box 270 Midland, Texas 79701	13	12-26-74
The First National Bank of Midland Trustee Trust No. 1011 P. O. Box 270 Midland, TX 79701	13	12-26-74
The First National Bank of Midland Trustee Trust No. 1012 P. O. Box 270 Midland, TX 79701	13	12-26-74
The First National Bank of Midland Trustee Trust No. 1013 P. O. Box 270 Midland, TX 79701	13	12-26-74
First National Bank of Rochester, Trustee Rochester, Minn. 55901	14	
First National Bank of Roswell Trust for Nevada Childrens Fund, Inc. Reno Cancer Center, Inc. & Nevada Tuberculosis & Health Assoc. P. O. Box 1977 Roswell, NM 88201	10, 11, 15	12-18-74
First National Bank of Lubbock Indp. Exec. of the Estate of Hallie C. Posey, 100-3003 Trust Dept. P. O. Box 1241 Lubbock, TX 79406	3	2-4-75

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
Marlene Manovill Fitzmaurice 12 Wheatstone Circle Fair Port, New York 14450	5, 6, 19, 14 & 20	12-17-74
Flour Corporation Oil & Gas Division 615 Midland Tower Bldg. Midland, TX 79701	3, 7, 8, 9, 12, 13, 14	12-20-74
Ilamae Forbes Box 843 Tulsa, Oklahoma 74101	4, 5, 6, 14, 19 & 20	2-11-75
Foster Petroleum Corp. Box 729 Bartlesville, OK 74003	14	12-17-74
Frontier Oil & Gas Co., Inc. P. O. Box 1321 Midland, TX 79701	14	12-16-74
General American Oil Co. of Texas Meadows Bldg. Dallas, TX 75206	10	12-23-74
General Crude Oil Company Box 2252 Houston, TX 77001	10, 11, 15	12-17-74
Grace Carson Gladwin 8826 Pineridge Rd. San Antonio, TX 78217	4, 5, 6	12-27-74
J. Wood Glass Estate Julian W. Glass, Jr., Trustee P. O. Box 587 Nowata, OK 74048	18	12-19-74
A. W. Goal Estate Pennsylvania Bank & Trust Co. Trustee Warren, Pennsylvania 16365	18	3-24-75
Sue Saunders Graham P. O. Drawer 2168 Roswell, NM 88201	13	12-17-74
Henry De Graffenreid Bedford 1312 N. Richardson Ave. Roswell, NM 88201	17	12-16-74
Gulf Oil Corporation P. O. Box 1150 Midland, Texas 79701	4, 20	12-2-74
Delma Hardy Box 557 Eunice, NM 88231	10	1-29-75
Clotile Marie Hardy P. O. Box 544 Eunice, NM 88231	10	1-15-75
Neval Hardy c/o Security Bank & Trust Alamogordo, New Mexico 88310	10	12-22-74
Felix Hardy Box 1814 Hobbs, NM 88240	10	1-15-75

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
Pearl M. Harmon & Julia J. Harmon Foundation, Inc. 135 S. Pine St. Nowata, OK 74048	13	12-16-74
Jack Hazeltine St. Armands Towers N., Apt. 83 One Benjamin Franklin Dr. Sarasota, Fla. 33577	18	1-2-75
Leonora K. Hegamyer 520 N. Marshta Dr. Key Biscayne, Fla. 33149	17	3-21-75
Harvey A. Heller & Harvey A. Heller, Jr. The Heller Company 531 Beacon Bldg. Tulsa, OK 74103	10, 11, 15	12-18-74
Charles F. Henderson Box 1791 Midland, TX 79701	18	1-3-75
John H. Hendrix 403 Wall Tower West Midland, TX 79701	17	2-7-75
Heritage Resources, Inc. P. O. Box 777 Davis, Oklahoma 73030	18	3-10-75
Hinkle Investment Company P. O. Box 2002 Roswell, New Mexico 88201	13	2-17-75
Mary T. Christmas Holladay P. O. Box 21702 Phoenix, Arizona 80536	18, 19, 20	1-6-75
Mabel E. Hooper P. O. Box 733 Roswell, NM 88201	17	
R. E. Hubbard, Jr., Morgan R. Hubbard & Harold G. Hubbard, Trustees & Executors of Estate of R. E. Hubbard, Dec'd. ID #75-1360265 1302 Kirby Bldg. Dallas, Texas 75201	13	12-20-74
R. E. Hubbard, Jr. & Morgan R. Hubbard, Trustees & Executors of TGE Will & Estate of G. E. Hubbard, Dec'd. ID #75-6011644 1303 Kirby Bldg. Dallas, TX 75201	13	12-20-74
H. L. Huffman 815 First National Bank Bldg. Midland, Texas 79701	4, 5, 6, 14, 20	12-16-74
Mattie H. James 77 Tweed Blvd. Nyack, NY 10960	7, 8, 9, 12, 18, 19, 20	12-31-74
S. P. Johnson, III 2606 Bay Meadows Dr. Roswell, NM 88201	3	1-24-75

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
S. P. Johnson, Jr. Box 1713 Roswell, NM 88201	3	2-20-75
Lottie D. Jones, Executor of Estate of Donald L. Jones, Dec'd. 3208 41st Lubbock, TX 79413	3	12-17-74
Vicki Anderson Jones P. O. Box 1884 Midland, TX 79701	4, 5, 6, 14	12-30-74
Marjorie Cone Kastman P. O. Box 3296 Lubbock, TX 79410	3	12-13-74
William Myron Keck, II, S.E. Cone, Jr. & Kathrine Cone Keck, Trustees of Trust C U/W S. E. Cone, Dec'd. 1801 Ave. of the Stars, Suite 1110 Los Angeles, California 90067	3	12-17-74
John Brown Kimberly, III Box 385 Gloucester, VA 23061	17	
Rollin Khoury, Atty at Law for Dorothy May Wilhite, Dec'd 701 Washington Ave. Waco, Texas 76701	17	
Kitman, Inc. Box 202 Brownfield, TX 79316	11, 15	1-7-75
W. W. Lechner 1303 Kirby Bldg. Dallas, TX 75201	13	12-13-74
Kurt Lekisch Box 852 Midland, TX 79701	18	12-20-74
Robert J. Leonard P. O. Box 400 Roswell, NM 88201	11, 14, 15	1-9-75
Patrick J. Leonard P. O. Box 335 Dallas, TX 75201	11, 14, 15	1-28-75
Timothy T. Leonard P. O. Box 6006 San Antonio, TX 78209	11, 14, 15	12-16-74
Mrs. Thelma A. Linam Box 743 Hobbs, NM 88240	11, 15	12-13-74
Sarah Lew Link Grimes Box 752 Midland, TX 79701	18	1-17-74
C. S. Longcope Box 667 Brownwood, TX 76801	10, 11, 15	12-18-74
Martha Madsen, MD 2200 W. Texas Midland, TX 79701	18	12-27-74

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
Edwin E. Manovill 117 Pine St. Deer Park, NY 11729	5, 6, 14, 20	
Mrs. Edwin G. Manovill 30-13 Eighty-Ninth St. Jackson Heights Long Island, NY 11372	19	
Estate of Edwin G. Manovill 30-13 Eighty-Ninth St. Jackson Heights Long Island, NY 11372	4	
Marathon Oil Co. P. O. Box 552 Midland, TX 79701	19	1-16-75
Frances Link Matthews P. O. Box 752 Midland, TX 79701	18	1-17-75
Mrs. Exor Megan Gdn Est Mrs. Maude Eagle Pfouts 2616 Virginia Court Ft. Worth, TX 76111	11, 15	
L. S. Melzer Box 2083 Midland, TX 79701	18	12-24-75
Mobil Oil Corporation P. O. Box 900 Dallas, TX 75221	11, 15	1-22-75
Newmont Oil Company Capital National Bank Bldg. Houston, TX 77002	18, 19, 20	3-4-75
New Mexico Bank & Trust Co. Trust UWO James Virgil Linam, Dec'd. Hobbs, NM 88240	11, 15	12-13-74
New Mexico Boys Ranch, Inc. P. O. Box 758 Belen, NM 87002	11, 14, 15	1-6-75
North Central Oil Corp. 4545 Post Oak Place Suite 301 Houston, TX 77027	3	3-25-75
Ida Elizabeth Oliver P. O. Box 1755 Midland, TX 79701	7, 8, 12	12-16-74
Ida Beth Cowden Oliver 21 Oaklawn Park Midland, TX 79701	9	12-16-74
Myrtle M. Olson Kaldahl, Apt. 10 Glenwood, Minn. 56334	14	2-18-75
Elyse Saunders Patterson 6444 Indian Lane Shawnee Mission, Kansas 66208	13	12-18-74
Elizabeth H. Penn, Trust U/W/O Robert Lee Penn 4466 1st National Bank Bldg. Dallas, TX 75202	10, 11, 15	12-16-74

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
Nancy Elizabeth Penson 4466 First National Bank Bldg. Dallas, TX 75202	10, 11, 15	12-16-74
Neville G. Penrose, Trustee 1605 Commerce Building Ft. Worth, TX 76101	10	3-24-75
Petroleum Corporation of Texas Box 911 Breckenridge, TX 76024	18	2-18-75
Phillips Distribution Account 3843 Park Blvd. San Diego, Calif. 92103	18	12-18-74
Fay R. Power Box 54 Lovington, New Mexico 88260	7, 12, 18, 19, 20	12-16-74
Charles H. Price, II c/o Price Candy Co. 2 West 39th St. Kansas City, MO 64111	16	12-17-74
Charles H. Price II Attorney in Fact for Edward C. Price c/o Price Candy Co. 2 West 39th St. Kansas City, MO 64111	16	12-17-74
Charles H. Price, II Attorney in Fact for David E. Price c/o Price Candy Co. 2 West 39th St. Kansas City, MO 64111	16	12-17-74
Charles H. Price, II Attorney in Fact for Linwood Securities Co. c/o Price Candy Co. 2 West 39th St. Kansas City, MO 64111	16	12-17-74
Charles H. Price, II Attorney in Fact for Main Street Holding Co. c/o Price Candy Co. 2 West 39th St. Kansas City, MO 64111	16	12-17-74
Charles H. Price, II Attorney in Fact for Maple Dunbar Earp c/o Price Candy Co. 2 West 39th St. Kansas City, Mo 64111	16	12-17-74
Charles H. Price, II Attorney in Fact for Peoples Securities Co. c/o Price Candy Co. 2 West 39th St. Kansas City, MO 64111	16	12-17-74

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
Charles H. Price, II Attorney in Fact for Westport Bank c/o Price Candy Co. 2 West 39th St. Kansas City, MO 64111	16	12-17-74
G. L. Reese, Jr. Box 1776 Roswell, NM 88201	3	1-2-75
Regents of the University of New Mexico c/o University of New Mexico Albuquerque, NM 87106	11, 14, 15	1-3-75
Republic National Life Ins. Co. P. O. Box 6210 Terminal Annex Dallas, TX 75222	19, 20	12-16-74
John J. Reynolds 330 Madison Avenue New York, NY 10017	3, 5, 6	12-26-74
Inez R. Rhee 224 E. 27th St. Tulsa, Oklahoma 74114	17	12-16-74
J. M. Richardson Lyeth, Jr. & Mamro Longyear Lyeth First National Bank of Denver Attn: Robert J. Sullivan, V. Pres. Box 5808 TA Denver, Colorado 80202	17	
Onex Norman Rooney 2915 City National Bank Tower Oklahoma City, OK 73102	17	12-20-74
Velma Roring 1710 Wilshire Bldg. Oklahoma City, OK 73116	4, 5, 6, 14, 19 & 20	12-30-74
Royalty Roundup, Inc. Box 5616 Midland, TX 79701	10, 11, 15	2-13-75
Lulu S. Rush 1107 Kirby Bldg. Dallas, TX 75201	13	12-27-74
Sabine Royalty Corp. 1200 Mercantile Bank Bldg. Dallas, TX 75201	3, 4, 5, 6, 7, 8, 9, 12, 18, 19, 20	1-6-75
Samedan Oil Corporation P. O. Box 909 Ardmore, Oklahoma 73401	5, 6, 14	1-8-75
H. Dillard Schenck Box 1225 Lovington, NM 88260	12	12-13-74
Virginia P. Selby Box 5434 Midland, TX 79701	7, 8, 9, 12	12-13-74
Shattuck School Faribault, Minn. 55021	14	
Shriners Hospital for Crippled Children 323 N. Michigan Ave. Chicago, Ill 60601	10, 11, 15	1-6-75

ROYALTY OWNER & ADDRESS	TRACTS	DATE AMENDMENT EXECUTED
George Patrick Sims Box 186 Eunice, NM 88231	17	
J. E. Simmons Box 548 Lovington, NM 88260	10, 11, 12 & 15	12-16-74
June D. Speight Drawer 1687 Lovington, NM 88260	3, 10, 12, 17	12-24-74
Georgia A. Stieren, Indept. Execx. Estate of Jack Stieren, Dec'd. 302 Belvidere Drive San Antonio, TX 78212	10, 11, 15	12-16-74
Sun Oil Company Box 2880 Dallas, TX 75225	15, 18	1-31-75
State of New Mexico P. O. Box 1148 Santa Fe, NM 87501	1, 2	
Sally Saunders Toles P. O. Drawer No. 1300 Roswell, NM 88201	13	
Tortuga Oil & Gas Company 3647 University Blvd. Dallas, TX 75203	10, 11, 15	1-27-75
David Elliott Turner 1919 Pasadena Austin, TX 78757	19, 20	12-26-74
Eugene A. Turner Box 121, West Bay Station Panama City, Fla. 32401	19, 20	
Nora Walker 302 Uvalde Lubbock, TX 79415	10, 11, 15	12-31-74
Mary D. Fleming Walsh 1007 1st National Bank Bldg. Ft. Worth, TX 76102	9, 13	3-11-75
William B. Watson, Agent 1319 Ft. Worth National Bank Bldg. Ft. Worth, TX 76100	3, 5, 6	12-16-74
Sadie Watson P. O. Box 590 Midland, TX 79701	18	12-20-74
Ruth Rush Weaver c/o Charles A. Abbott 1107 Kirby Bldg. Dallas, TX 75201	13	12-30-74
Lamar Kimberly Whitmore 2068 Hunters Trail Norfolk, VA 23518	17	12-17-74
Mrs. Hattie C. Williams P. O. Box 3187 Lubbock, TX 79410	12	12-16-74

<u>ROYALTY OWNER & ADDRESS</u>	<u>TRACTS</u>	<u>DATE AMENDMENT EXECUTED</u>
Ellen Ann W. Williams P. O. Box 10054 Glendale, CA 91209	17	1-10-75
Jane Johnson Wilson Box 2682 Midland, TX 79701	4, 5, 6, 14, 19, 20	12-18-74
Estella E. Withers Carrizozo, NM 88301	18, 19, 20	12-13-74
Florence Louise Woods 224 E. Yucca Hobbs, NM 88240	10	12-16-74

Case 5474

Gulf Oil Company - U.S.

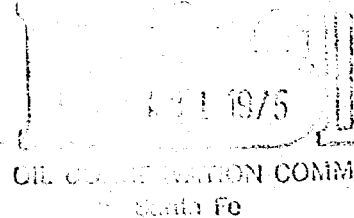
PRODUCTION DEPARTMENT
MIDLAND DISTRICT

B. L. Choate
DISTRICT PRODUCTION MANAGER
J. L. Pike
DISTRICT OPERATIONS MANAGER
M. B. Mosley
DISTRICT SERVICES MANAGER
A. J. Evans, Jr.
DISTRICT ENVIRONMENTAL & SAFETY MANAGER
J. C. Howard
DISTRICT EMPLOYEE RELATIONS MANAGER

16 April 1975

P. O. Drawer 1150
Midland, Texas 79701

Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico 87501



Attention: Mr. A. L. Porter, Jr.

Re: Application of Gulf Oil Corporation for Two
Unorthodox Well Locations, Vertical Enlargement
of Unit and Amendment of Order R-2909, Central
Drinkard Unit, Drinkard Pool, Lea County,
New Mexico

Gentlemen:

It is respectfully requested that a hearing be scheduled on your May 14, 1975, Examiners Docket for the purpose of considering our application for two unorthodox well locations on our Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico. The wells are to be reworked to the Drinkard Pool and are located as follows:

Unit Well No. 101: 554' FNL & 766' FEL Unit A, Section 28, T-21S,
R-37E (formerly Gulf's Eunice King No. 16)

Unit Well No. 401: 660' FNL & 660' FEL Unit A, Section 28, T-21S,
R-37E (formerly Gulf's Eunice King No. 12)

Unit Well No. 101 is to be completed as a producer in the oil zone of the Drinkard Pay which is now under active waterflood while Unit Well No. 401 is to be completed in the gas zone of the Drinkard Pay.

Under Case No. 3240 and Order No. R-2904 the Commission on May 6, 1965 approved the Central Drinkard Unit Agreement. Under Case No. 3241 and Order No. R-2909 the Commission on May 10, 1965 approved the Central Drinkard Waterflood Project. Under Case No. 4652 and Order No. R-4256, the Commission on February 8, 1972 approved the expansion of the waterflood project to include fifteen additional injection wells. Gulf will further propose that the unit be expanded vertically to include the entire Drinkard formation as encountered in Gulf's J. N. Carson (NCT-A) Well No. 7 between the depths of 6330' and 6590' and located 810' FNL & 2180' FEL of Section 33, T-21S, R-37E, Lea County, New Mexico.



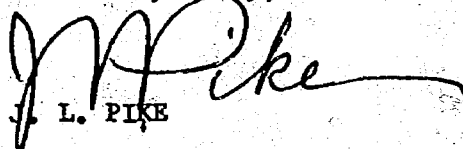
A DIVISION OF GULF OIL CORPORATION

Oil Conservation Commission
16 April 1975
Page 2

Gulf will further request that Order No. R-2909, which authorized the Central Drinkard Unit Waterflood Project be amended to establish a procedure for administrative approval for unorthodox producing well locations. The purpose of this being to provide separate well bores for production from the oil zone and from the gas zone of the Drinkard Pay and to protect correlative rights.

Enclosed is a plat of the unit together with the location calls of Unit Wells No. 101 and 401.

Yours very truly,


J. L. PIKE

CFK:jm
Attachment

cc: Joe D. Ramey
P. O. Box 1980
Hobbs, New Mexico 88240

Case 5474

J. R. MODRALL
JAMES E. SPERLING
JOSEPH E. ROEHL
GEORGE T. HARRIS, JR.
DANIEL A. SISK
LELAND S. SEDBERRY, JR.
ALLEN C. DEWEY, JR.
FRANK H. ALLEN, JR.
JAMES A. PARKER
JOHN R. COONEY
KENNETH L. HARRIGAN
PETER J. ADAMS
DALE W. EK
DENNIS J. FALK
ARTHUR O. MELENDRIS
BRUCE D. BLACK
JOE R. O. FULCHER
MEL E. YOST
JAMES R. KIGHTON
GEORGE J. HOPKINS
PAUL M. FISH
JUDY A. FRY

LAW OFFICES OF
MODRALL, SPERLING, ROEHL, HARRIS & SISK
PUBLIC SERVICE BUILDING
P. O. BOX 2168
ALBUQUERQUE, NEW MEXICO 87103

JOHN F. SIMMS (885-1954)
AUGUSTUS T. SEYMOUR
(907-1965)

TELEPHONE 243-4811
AREA CODE 505

APR 24 1975
April 22, 1975 Santa Fe

IL CONSERVATION COMM.

Mr. A. L. Porter
Secretary-Director
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Application of Gulf Oil Corporation
for Two Unorthodox Well Locations,
Vertical Enlargement of Unit and
Amendment of Order R-2909, Central
Drinkard Unit, Drinkard Pool, Lea
County, New Mexico

Dear Mr. Porter:

Enclosed is Entry of Appearance on behalf of the Applicant,
Gulf Oil Corporation, in the above-captioned application,
which has been requested for docketing at the Examiner's
hearing on May 14, 1975.

Very truly yours,


James E. Sperling

/jv

Enclosure

cc: Mr. Robert W. Fuller, w/encl.
Divisional Attorney
Gulf Oil Company - U.S.

Mr. J. L. Pike, w/encl.
District Operations Manager
Gulf Oil Company - U.S.

BEFORE THE OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

1975
OIL CONSERVATION COMMISSION
SANTA FE

IN THE MATTER OF THE APPLICATION
OF GULF OIL CORPORATION FOR TWO
UNORTHODOX WELL LOCATIONS, VERTICAL
ENLARGEMENT OF UNIT AND AMENDMENT
OF ORDER R-2909, CENTRAL DRINKARD
UNIT, DRINKARD POOL, LEA COUNTY,
NEW MEXICO.

Case No. _____

ENTRY OF APPEARANCE

The undersigned, Modrall, Sperling, Roehl, Harris & Sisk,
of Albuquerque, New Mexico, hereby enter their appearance
herein for the Applicant, Gulf Oil Corporation, with its
house counsel of Midland, Texas.

MODRALL SPERLING ROEHL HARRIS & SISK

By: 

Attorneys for Gulf Oil Corporation
P. O. Box 2168
Albuquerque, New Mexico 87103

Dockets Nos. 12-75 and 13-75 are tentatively set for hearing on May 28 and June 11, 1975. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 14, 1975

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner.

- ALLOWABLE: (1) Consideration of the allowable production of gas from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico, for June, 1975.
- (2) Consideration of the allowable production of gas from five prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for June, 1975.

CASE 5429: (Continued from the March 5, 1975 Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Charles M. Goad and United States Fidelity & Guaranty Company and all other interested parties to appear and show cause why the Charles M. Goad, State No. 1 Well located in Unit M of Section 28, Township 2 South, Range 26 East, De Baca County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 5408: (Continued from the April 2, 1975 Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit W. E. Medlock and Reliance Insurance Company and all other interested parties to appear and show cause why the Queen Ridge No. 1 Well located in Unit M of Section 36, Township 10 South, Range 26 East, Chaves County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 5469: Application of Read & Stevens for an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of a well to be drilled at a point 990 feet from the South and East line of Section 7, Township 15 South, Range 28 East, Chaves County, New Mexico, in exception to the Buffalo Valley-Pennsylvanian Gas Pool Rules.

CASE 5470: Application of Maralo, Inc. for a unit agreement, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Butler Springs Unit Area comprising 3841 acres, more or less, of state and federal lands in Townships 14 and 15 South, Range 28 East, Chaves County, New Mexico.

CASE 5471: Application of Union Texas Petroleum for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Justis Blinebry and Justis Tubb-Drinkard production in the wellbore of its Carlson "B" Wells Nos. 1 and 2 located in Unit P of Section 23 and Unit H of Section 26, respectively, Township 25 South, Range 37 East, Lea County, New Mexico.

CASE 5472: Application of Mesa Petroleum Co. for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of a well to be drilled at a point 660 feet from the North and East line of Section 6, Township 26 South, Range 33 East, Red Hills Field, Lea County, New Mexico.

CASE 5473: Application of Mesa Petroleum Co. for pool creation and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Drinkard production for its West Knowles Well No. 1 located in Unit P of Section 34, Township 16 South, Range 37 East, Lea County, New Mexico, and for the promulgation of special rules therefore, including a provision for 80-acre spacing units.

CASE 5474: Application of Gulf Oil Company for two non-standard locations and the amendment of Order Nos. R-2904 and R-2909, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Central Drinkard Unit Wells Nos. 101 and 401 located, respectively, 554 feet from the North line and 766 feet from the East line, and 660 feet from the North and East lines of Section 28, Township 21 South, Range 37 East, Drinkard Pool, Lea County, New Mexico. Applicant further seeks the amendment of Order No. R-2904 which order approved the Central Drinkard Unit Agreement to provide that the vertical limits of the unitized formation shall include the entire Drinkard formation; application further seeks the amendment of Order No. R-4909 which approved the Central Drinkard Unit Waterflood Project to provide an administrative procedure for the approval of additional unorthodox well locations.

CASE 5475: Application of Mobil Oil Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Lower Siluro-Devonian formation in the open-hole interval from 12,188 feet to 12,525 feet in its Santa Fe Pacific Well No. 9, located in Unit E of Section 35, Township 9 South, Range 36 East, Crossroads Siluro-Devonian Pool, Lea County, New Mexico.

CASE 5476: Application of Cities Service Oil Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp formation underlying the NE/4 of Section 30, Township 22 South, Range 27 East, and in the Pennsylvanian formation underlying the E/2 of said Section 30, to be dedicated to a proposed gas well to be drilled at an orthodox location for both formations. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs as well as actual operating costs and charges for supervision. Also to be considered will be the designation of the applicant as operator of the well and a charge for the risk involved in drilling said well.

(gg) EXTEND the Round Tank San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM
Section 31: NW/4 NW/4

(hh) EXTEND the vertical limits of the Sand Hills-San Andres Pool in Lea County, New Mexico, to include the Grayburg formation.

(ii) EXTEND the Sulimar Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 30 EAST, NMPM
Section 18: SW/4 SW/4

(jj) EXTEND the Tres Papalotes-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 34 EAST, NMPM
Section 5: SW/4

(kk) EXTEND the Turkey Track Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM
Section 32: NE/4 NE/4

(q) EXTEND the Blinebry Oil and Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM
Section 27: SE/4

(r) EXTEND the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 27 EAST, NMPM
Section 3: N/2

(s) EXTEND the Burton Flat-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM
Section 18: N/2

(t) EXTEND the South Carlsbad-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 26 EAST, NMPM
Section 3: W/2
Section 11: All

TOWNSHIP 23 SOUTH, RANGE 27 EAST, NMPM
Section 8: All
Section 17: N/2

(u) EXTEND the South Carlsbad-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 26 EAST, NMPM
Section 16: S/2

TOWNSHIP 24 SOUTH, RANGE 26 EAST, NMPM
Section 1: W/2

(v) ESTABLISH a discovery allowable in the Casey-Strawn Pool in Lea County, New Mexico, and assign 56,630 barrels of discovery allowable to the discovery well, the C & K Petroleum, Inc. Shipp "27" Well No. 1, located in Unit O of Section 27, Township 16 South, Range 37 East, NMPM.

(w) EXTEND the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM
Section 27: S/2 and NE/4

(x) EXTEND the East Chisum San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 28 EAST, NMPM
Section 16: NE/4 NE/4

(y) EXTEND the Double L Queen Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 29 EAST, NMPM
Section 23: NE/4

TOWNSHIP 14 SOUTH, RANGE 30 EAST, NMPM
Section 32: N/2 and SW/4

TOWNSHIP 15 SOUTH, RANGE 30 EAST, NMPM
Section 17: N/2

(z) EXTEND the Double X-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 32 EAST, NMPM
Section 27: NE/4

(aa) EXTEND the Drinkard Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM
Section 36: SW/4

(bb) EXTEND the East Empire Yates Seven Rivers Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM
Section 34: W/2 NE/4

(cc) EXTEND the Kennedy Farms-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 26 EAST, NMPM
Section 22: E/2

(dd) EXTEND the Penasco Draw-San Andres-Yeso Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM
Section 30: NW/4 SW/4

(ee) EXTEND the Ranger Lake-Bough Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 34 EAST, NMPM
Section 23: SW/4

(ff) EXTEND the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 25 EAST, NMPM
Section 18: All

TOWNSHIP 21 SOUTH, RANGE 29 EAST, NMPM

Section 6: Lots 1, 2, 7, 8, 9, 10, 15, and 16

(f) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Grayburg-Atoka Gas Pool. The discovery well is the Horizon Oil & Gas Co. of Texas State 28 Com Well No. 2, located in Unit K of Section 28, Township 17 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM

Section 28: S/2

Section 29: E/2

(g) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Premier production and designated as the High Nitro-Premier Gas Pool. The discovery well is the McClellan Oil Corporation Hinkle Federal Well No. 1, located in Unit A of Section 9, Township 16 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM

Section 3: SW/4

Section 4: SE/4

Section 9: NE/4

(h) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Hoag Tank-Morrow Gas Pool. The discovery well is the Yates Petroleum Corporation Allison CQ Federal Well No. 1, located in Unit P of Section 22, Township 19 South, Range 24 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM

Section 22: E/2

(i) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the N. W. Indian Basin-Morrow Gas Pool. The discovery well is the Charles A. Dean Northwest Indian Basin Well No. 1Y, located in Unit K of Section 28, Township 20 South, Range 23 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 23 EAST, NMPM

Section 28: W/2

(j) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the Lonesome-San Andres Pool. The discovery well is the Phillips Petroleum Company Luther A Well No. 1 located in Unit N of Section 18, Township 8 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM

Section 18: SW/4

(k) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the South Rocky Arroyo-Wolfcamp Gas Pool. The discovery well is the El Paso Natural Gas Co. Patterson A Well No. 1, located in Unit N of Section 20, Township 22 South, Range 22 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 22 EAST, NMPM
Section 20: SW/4

(l) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Sheep Draw-Atoka Gas Pool. The discovery well is the Hanagan Petroleum Corp. Mary Federal Well No. 1, located in Unit H of Section 11, Township 23 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 25 EAST, NMPM
Section 11: E/2

(m) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Sheep Draw-Morrow Gas Pool. The discovery well is the Hanagan Petroleum Corp. Mary Federal Well No. 1 located in Unit H of Section 11, Township 23 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 25 EAST, NMPM
Section 11: E/2
Section 12: W/2

(n) CREATE a new pool in Lea County, New Mexico, classified as an oil pool and designated as the Shipp-Drinkard Pool and assign 41,650 barrels of discovery allowable to the discovery well, the Mesa Petroleum Company West Knowles Well No. 1, located in Unit P of Section 34, Township 16 South, Range 37 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 37 EAST, NMPM
Section 34: SE/4

(o) EXTEND the Atoka-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM
Section 2: All

(p) EXTEND the North Benson Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM
Section 32: N/2 NE/4

- CASE 5477: Application of Cities Service Oil Company for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 18, Township 22 South, Range 27 East, South Carlsbad Field, Eddy County, New Mexico, to be dedicated to a well to be drilled at an unorthodox location for said unit 1650 feet from the South line and 1980 feet from the West line of said Section 18. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs as well as actual operating costs and charges for supervision. Also to be considered will be the designation of the application as operator of the well and a charge for the risk involved in drilling said well.
- CASE 5478: Application of Continental Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Warren Unit Well No. 31 located in Unit O of Section 27, Township 20 South, Range 38 East, Lea County, New Mexico, in such a manner as to produce oil from the Blinberry Oil and Gas Pool and oil from the Warren-Tubb Gas Pool through parallel strings of tubing.
- CASE 5479: Application of Continental Oil Company for two non-standard gas proration units, two unorthodox locations, and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a non-standard gas proration unit comprising Lots 1, 2, and 3 and Lots 6 through 11 of Section 4, Township 11 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its Meyer B-4 Well No. 14 located in Unit G of said Section 4. Applicant further seeks approval of a 360-acre Eumont Gas proration unit comprising Lots 14, 15, and 16 and the SE/4 and E/2 SW/4 of said Section 4 to be simultaneously dedicated to its Meyer B-4 Well No. 4 and 29 at unorthodox locations in Units S and P, respectively, of said Section 4.
- CASE 5480: Application of Continental Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Pennsylvanian formation through the perforated interval 7648 to 7690 feet in its SEMU Well No. 7 located in Unit F of Section 23, Township 20 South, Range 37 East, Cass-Pennsylvanian Gas Pool, Lea County, New Mexico.
- CASE 5481: Application of Phillips Petroleum Company for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of South Carlsbad-Atoka and South Carlsbad-Morrow gas production in the wellbore of its Tidwell-A "COM" Well No. 1 located in Unit E of Section 8, Township 23 South, Range 27 East, Eddy County, New Mexico.
- CASE 5482: Application of Phillips Petroleum Company for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Lusk Deep Unit "A" Well No. 1 located in Unit A of Section 19, Township 19 South, Range 32 East, Lusk-Morrow Gas Pool, Lea County, New Mexico, and the simultaneous dedication of said Section 19 to the above well and to applicant's Lusk Deep Unit "A" Well No. 5 located in Unit J of said Section 19.

CASE 5483: Application of Phillips Petroleum Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval to dually complete its Lusk Deep Unit "A" Well No. 12 located in Unit G of Section 20, Township 19 South, Range 32 East, Lusk Field, Lea County, New Mexico, in such a manner as to produce oil from the Wolfcamp formation through the casing-tubing annulus and gas from the Lusk-Morrow Gas Pool through tubing.

CASE 5484: Southeastern New Mexico nomenclature case calling for the creation and extension of certain pools in Lea, Eddy, and Chaves Counties, New Mexico and for the assignment of certain oil well discovery allowables.

(a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the East Carlsbad-Wolfcamp Gas Pool. The discovery well is the Champlin Petroleum Co, Nix-Yates Well No. 1, located in Unit G of Section 2, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM
Section 36: SW/4

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM
Section 1: NW/4
Section 2: NE/4

(b) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Cemetery-Wolfcamp Gas Pool. The discovery well is the Read & Stevens, Inc. Allirish Well No. 1, located in Unit P of Section 30, Township 20 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM
Section 30: SE/4

(c) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Crooked Creek-Strawn Gas Pool. The discovery well is the C & K Petroleum Inc. Lowe State Well No. 1, located in Unit C of Section 16, Township 24 South, Range 24 East, NMPM. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 24 EAST, NMPM
Section 16: N/2

(d) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production and designated as the Dickenson-San Andres Pool. The discovery well is the Hanson Oil Corporation Santa Fe Well No. 1, located in Unit F of Section 35, Township 10 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 10 SOUTH, RANGE 36 EAST, NMPM
Section 35: NW/4

(e) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Golden Lane-Atoka Gas Pool. The discovery well is the Meadco Properties Ltd. Harris 6 Well No. 1, located in Unit I of Section 6, Township 21 South, Range 29 East, NMPM. Said pool would comprise:

DRAFT

DSN/dr

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 5474

Order No. R-5030

APPLICATION OF GULF OIL COMPANY
FOR TWO NON-STANDARD LOCATIONS
AND THE AMENDMENT OF ORDERS
NOS. R-2904 AND R-2909, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 14, 1975,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this day of May, 1975, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That Gulf Oil Company is the operator of the Central
Drinkard Unit, Drinkard Pool, Lea County, New Mexico, which unit is
governed by the Central Drinkard Unit Agreement which was approved
by the Commission by Order No. R-2904, dated May 6, 1965.

(3) That pursuant to Commission Order No. R-2909, dated May 10, 1965, and certain other orders, the applicant is conducting secondary recovery operations within said Central Drinkard Unit Area.

(4) That the unitized interval for said Central Drinkard Unit Area was defined in the original Central Drinkard Unit Agreement as being from 6440 feet to 6590 feet as found on the log of the Gulf Oil ^{Corporation} J. N. Carson Well No. 7, located 810 feet from the North line and 2180 feet from the East line of Section 33, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

(5) That the applicant seeks the amendment of the Central Drinkard Unit Agreement to change the unitized interval for said Central Drinkard Unit Area to be from 6330 feet to 6590 feet as found on the log of the aforesaid J. N. Carson Well No. 7.

(6) That the applicant further seeks approval for the unorthodox location of two wells in the Drinkard Pool underlying said Central Drinkard Unit, said wells being Unit Well No. 101 located 554 feet from the North line and 766 feet from the East line, and Unit Well No. 401 located 660 feet from the North line and 660 feet from the East line, both in Section 28, Township 21 South, Range 37 East, NMPM.

(7) That the applicant further seeks the amendment of Order No. R-2909, which authorized the secondary recovery project in said Central Drinkard Unit Area, to provide for the administrative approval of additional wells at unorthodox locations in said unit area.

(8) That the necessity for the amendment of the unitized interval of the Central Drinkard Unit, the location of the two wells described in Finding No. (6) above, and the establishment of the administrative procedure described in Finding No. (7) above is occasioned by development of the Upper Drinkard gas pay in wells offsetting the Central Drinkard Unit Area.

(9) That to protect the said unit area from drainage by offsetting wells, the applicant, as unit operator, must complete gas wells in the Upper Drinkard gas pay on the same 40-acre tract as existing wells in the Lower Drinkard oil pay which are part of the Lower Drinkard Waterflood Project.

(10) That approval of the amendment of the vertical limits of the unitized interval of the Central Drinkard Unit, the two above-described non-standard locations, and the aforesaid administrative procedure is in the interest of the protection of correlative rights and the prevention of waste, and should be approved, provided that the gas production from any 40-acre tract should be limited to top unit allowable for the Drinkard Pool times the limiting gas-oil ratio for the pool.

IT IS THEREFORE ORDERED:

(1) That the vertical limits of the unitized interval of the Central Drinkard Unit Area are hereby amended to be from 6330 feet to 6590 feet as found on the log of the Gulf Oil Corporation J. N. Carson Well No. 7, located 810 feet from the North line and 2180 feet from the East line of Section 33, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, subject to like approval by the Commissioner of Public Lands for the State of New Mexico.

(2) That the applicant, Gulf Oil Company, is hereby authorized to complete the following wells in the Drinkard Pool at the following non-standard locations in Section 28, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico:

Central Drinkard Unit Well No. 101, located 554 feet from the North line and 766 feet from the East line; *and*
and

Central Drinkard Unit Well No. 401, located
660 feet from the North line and 660 feet
from the East line.

PROVIDED HOWEVER, that the 40-acre tract upon which said
wells are located shall have a limited casinghead gas allowable
determined by multiplying top unit allowable for the Drinkard
Pool by the gas-oil ratio limitation for said pool.

(3) That Order (1) of Commission Order No. R-2909, is
hereby amended by the addition of the following:

"PROVIDED HOWEVER, that the Secretary-Director
of the Commission is hereby authorized to approve
such additional producing wells and injection wells
at orthodox and unorthodox locations within the
boundaries of the Central Drinkard Unit Area as may
be necessary to complete an efficient production
and injection pattern, and to protect the unit
from drainage, provided said wells are drilled
no closer than 330 feet to the outer boundary of
the unit area nor closer than 10 feet to any
quarter-quarter section or subdivision inner
boundary, and provided further, that no 40-acre
tract shall be permitted to produce more gas than
the amount obtained by multiplying top unit
allowable for the Drinkard Pool by the limiting
gas-oil ratio for the pool. To obtain such
administrative approval, the unit operator shall
file proper application with the Commission, which
application, if it seeks to convert additional
wells to injection or to drill additional production
or injection wells, shall include the following:

(1) A plat showing the location of ^{the} proposed well, all wells within the project area, and offset operators, ^{and} locating wells which offset the project area.

(2) A schematic drawing of the proposed ^{injection} well which fully describes the casing, tubing, perforated interval, and depth.

(3) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.

The Secretary-Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval, provided waivers of objection are received from all offset operators."

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.