

Case No.

319

Application, Transcript,
Small Exhibits, Etc.

Sent to:
Ralph Lowe
Jack Campbell
Egmont White
C.P. Dinnitt

STATE OF NEW MEXICO
OFFICE OF STATE GEOLOGIST
SANTA FE, NEW MEXICO

November 15, 1951

Mr. Jack Campbell
Atwood, Malone & Campbell
ROSWELL, NEW MEXICO

Dear Jack:

Re: Cases 314 and 319

The Amerada Petroleum Corporation has indicated it will file a motion for continuance of Cases 314 and 319, which are set for hearing November 20. These cases, as you will recall, relate to spacing and pressure maintenance in the Knowles and Hightower pools. We have been informed that Amerada will make formal motion for a continuance to the regular January (1952) hearing in order to give them time to assemble necessary data.

I cannot, of course, forecast what action the Commission will take, but it is probable in the absence of any objection that the continuance will be granted. I am merely writing this for your information with the thought that it might affect your preparation for the November 20 hearing.

Very truly yours,

JK:nr

Jason Kellahin

C
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P
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STATE OF NEW MEXICO
OFFICE OF STATE GEOLOGIST
SANTA FE, NEW MEXICO

November 15, 1951

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Mr. Ralph Lowe, Oil Operator
Midland Tower
Midland, Texas

Dear Mr. Lowe:

RE: Cases 314 and 319

The Amerada Petroleum Corporation has indicated it will file a motion for continuance of Cases 314 and 319, which are set for hearing November 20. These cases, as you will recall, relate to spacing and pressure maintenance in the Knowles and Hightower pools. We have been informed that Amerada will make formal motion for a continuance to the regular January (1952) hearing in order to give them time to assemble necessary data.

I cannot, of course, forecast what action the Commission will take, but it is probable in the absence of any objection that the continuance will be granted. I am merely writing this for your information with the thought that it might affect your preparation for the November 20 hearing.

Very truly yours,

Jason Kellahin, Attorney

JK:nf

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

TRANSCRIPT OF PROCEEDINGS

CASE NO.

319
319

Hightower

Regular Hearing
April 15, 1952

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 12, CROMWELL BLDG
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

IN THE MATTER OF:

(From October 23, 1951 hearing)
Similar in principle to Cases 314
and 319, this deals with spacing
in the Bagley-Siluro-Devoqian
pool also. In it, the Oil Con-
servation Commission asks for order
directed to Amerada, Texas and
Pacific Coal and Oil Company, et al.,
setting forth approved spacing regu-
lations.

CASE NO. 315

TRANSCRIPT OF PROCEEDINGS

April 15, 1952
Regular Hearing

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 12, CROMWELL BLDG.
PHONES 7-9545 AND 8-9546
ALBUQUERQUE, NEW MEXICO

MR. SPURRIER: Mr. Kellough, are you ready?

MR. KELLOUGH: Yes, sir.

MR. SPURRIER: The meeting will come to order, please.

MR. KELLOUGH: The last case is the Hightower 80 acre spacing case. The history of Hightower is not quite as lengthy as in the other pools.

In November, 1949, Amerada filed its application for the establishment of 80 acre spacing units for the Hightower Devonian pool.

At that time the State BTB #1 well (NW/4 NW/4 Sec. 26-12S-33E) had been completed in the Devonian formation at a depth of 10,090 to 10,200 feet.

The Roach well (NW/4 SW/4 Sec. 26-12S-33E) and the Gulf N.M.M.I. #1 well (SE/4 SE/4 Sec. 22-12S-33E) were then drilling, but not yet completed. Both of these wells resulted in dry holes in the Devonian.

The application asked that four sections be covered (Secs. 22, 23, 26, 27-12S-33E) and that all wells be located in the center of the NW and SE quarter of each governmental quarter section.

1. ORDER NO. 846

The application was heard by the Commission on November 1, 1949. There was no opposition. Evidence was offered in support of the allegations of the application.

On November 18, 1949, the Commission entered its Order

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PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

846 establishing 80 acre proration units comprising the E/2 and W/2 of each governmental quarter section. The order provided for wells to be located in the center of the NW and SE quarter of each quarter section with 150 feet tolerance. All wells were on the pattern locations.

The allowable for each 80 acre unit was a single top allowable with deep well adaption as for a regular 40 acre unit, "until such time as the Commission may issue such further and additional orders as may be deemed necessary herein."

Paragraph 9 of the order provided:

"That the Commission retains jurisdiction of this case for the purpose of issuing such further and additional orders as may seem necessary to meet changed conditions, preclude inequities and preserve correlative rights; all upon the motion of the Commission or upon the petition of any interested operator upon public hearing, after notice as provided by law."

Exhibit 1 is a copy of Order 846.

2. ADDITIONAL DEVELOPMENT

Since the entry of the order one additional oil well has been completed in the Devonian formation. That is State BTE #1 (SE/4 SW/4 Sec. 23-12S-33E). Five other Devonian dry holes have been drilled:

- (1) Gulf N.M.M.I. (SE/4 SE/4 Sec. 22)
- (2) State BTF #1 (SE/4 NW/4 Sec. 23)
- (3) State BTH #1 (NW/4 NE/4 Sec. 26)

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ALBUQUERQUE, NEW MEXICO

(4) Roach (NW/4 SW/4 Sec. 26)

(5) BTB #2 (SW/4 NW/4 Sec. 26)

Exhibit 2 is a map showing the present Devonian development.

3. ISSUES INVOLVED IN PRESENT HEARING

The Commission has now, on its own motion, requested that Amerada show cause why the 80-acre spacing order now in effect for the Hightower pool should not be revoked. Exhibit 3 is a copy of the Notice for the present hearing.

The order expressly provides that the Commission retains jurisdiction to make such further orders "as may seem necessary to meet changed conditions, preclude inequities and preserve correlative rights." Thus the Commission has itself defined the scope of this hearing.

The order is final except for changed conditions. There is no inference that the Commission intended to reconsider the same issues heretofore presented.

Therefore, the question now properly before the Commission is whether there is a change of condition by reason of subsequent development which justifies the revocation of the 80 acre proration units or which is causing inequities.

The question of the allowable was temporary in the order and subject to review at any time.

Also, there is before the Commission the question of whether a pressure maintenance program is feasible at this time.

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ALBUQUERQUE, NEW MEXICO

MR. KELLOUGH: We now offer into evidence Exhibit No. 1, which is the original 80-acre spacing order; Exhibit No. 2, which is the map of the Hightower Devonian; and Exhibit No. 3, which is a Notice of the present hearing.

JOHN A. VEEDER,
having been first duly sworn, testified as follows:

DIRECT EXAMINATION

By MR. KELLOUGH:

Q You are the Mr. Veeder who testified in a previous case before this Commission?

A That is right.

Q You are a Geologist for Amerada Petroleum Corporation?

A That is right.

MR. KELLOUGH: Are the qualifications of this witness acceptable?

MR. SPURRIER: Yes.

Q Mr. Veeder, since the last hearing on the Hightower case, will you state how many additional oil wells or dry holes have been drilled?

A Since the last hearing, one additional oil well has been completed and five Devonian dry holes have been drilled.

Q Are these oil wells and dry holes shown on the map which is Exhibit 2?

A All of these wells are shown on the map, Exhibit 2.

Q I hand you Exhibit 4 and ask you to state what that is.

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A Exhibit 4 is Schlumberger and Amerada No. 1 State BTE.

Q Exhibit 5?

A Schlumberger on the Amerada No. 1 Roach.

Q Exhibit 6?

A Schlumberger on Amerada No. 1 State BTF.

Q Exhibit No. 7?

A Schlumberger on the No. 1 State BTH.

Q Exhibit No. 8.

A Amerada No. 2 State BTB.

Q Have all of the electric logs now been offered in evidence that effect the Devonian Hightower?

A All of Amerada's Schlumberger have been submitted.

MR. KELLOUGH: We offer in evidence Exhibits 4 through 8.

MR. SPURRIER: Without objection, they will be received.

Q I hand you Exhibit 9 and please state what that is.

A This is the tabulation of the pertinent drilling data. This will cover all the wells drilled in the Devonian in the Hightower field.

Q Including the original BTB No. 1 well? A That is right.

Q What data does that show?

A The sheet shows the well number, lease name, top of the Devonian with datum, top of Devonian pay with datum, Devonian cap and the Devonian completion history.

MR. KELLOUGH: We offer in evidence Exhibit No. 9.

MR. SPURRIER: Without objection it will be received.

Q Mr. Veeder, I hand you Exhibit No. 10 and ask you to state what that exhibit is and what it shows.

A No. 10 is a structural map on top of the Devonian of the Hightower Devonian Pool. Contour interval, 100 feet.

MR. KELLOUGH: We offer in evidence Exhibit No. 10.

MR. SPURRIER: Without objection it will be received.

Q From a study of all the available geological data, what is your opinion with reference to the porosity and permeability at Hightower Devonian Pool?

A The Hightower Devonian Pool has good porosity and good permeability.

Q Mr. Veeder, do you know of any change in the condition, from a geological point of view, which should require or justify a revocation or modification of the existing 80-acre spacing order for this pool?

A There has been no change.

Q Have you read the statement which has been prepared in connection with the Hightower Pool?

A Yes, sir, I have.

Q And are the facts which are set forth in that statement true and correct to the best of your knowledge and belief?

A That is right.

MR. KELLOUGH: That is all for this witness.

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PHONES 7-9845 AND 5-9846
ALBUQUERQUE, NEW MEXICO

MR. SPURRIER: Any questions of this witness?

By MR. MACEY:

Q These dry holes on the map pertain only to the Devonian?

A If you look on the bottom of the map, the pay wells are spotted.

MR. KELLOUGH: He doesn't have that map. That is Exhibit 2. This is the structural map.

A This map contains only the devonian wells.

Q Actually this 2 BTB is a plug-back?

A That is right.

MR. MACEY: That is all.

(Witness excused.)

R. S. CHRISTIE,

having been first duly sworn, testified as follows:

DIRECT EXAMINATION

By MR. KELLOUGH:

Q You are Mr. R. S. Christie?

A Yes, sir.

Q Petroleum Engineer for Amerada Petroleum Corporation who testified this morning?

A Yes, sir.

MR. KELLOUGH: Are the qualifications of this witness acceptable?

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MR. SPURRIER: Certainly.

Q I hand you Exhibit No. 11, and ask that you state to the Commission what this exhibit is.

A Exhibit 11 is a graph showing the number of wells completed and monthly oil production, monthly water production and cumulative oil production, bottom hole pressure of the Hightower Pool.

Q To what date?

A To April 1, 1952.

Q What does the pressure information which is depicted on this map indicate to you as a petroleum engineer?

A The bottom hole pressure declined very little from the beginning up until October of 1951. For the last six months period, the bottom hole pressure has declined approximately 76 pounds. That is attributed to a higher withdrawals. The withdrawals for the last six months average was 1567 barrels per day, as against 577 barrels per day for the preceeding six months.

Q Does that indicate a uniform withdrawal?

A Yes, sir, I believe it does.

Q Would you say that the draw down had been excessive or not excessive?

A The draw down has not been excessive. I might, for the record, state that PI tests were taken on both producing wells and one case it^{was} producing at a rate of 1,000 barrels per day. The PI was approximately 32. The pressure drop at that rate of 1,000 barrels per day was 31 pounds. That was on State BTB

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No. 1. Test on State BTE No. 1, producing at a rate of 967 barrels, had a drop of only 4 pounds and had a PI of infinity.

Q What is your opinion as to the permeability of this reservoir?

A Those tests would indicate a very good permeability.

Q Considering the withdrawals and the draw down, what would your opinion be as to whether there is any likelihood of channelling in the Hightower Devonian Pool?

A My opinion is there is no appreciable amount of channelling, if any.

Q Does the pressure information indicate good communication in all parts of this reservoir?

A Yes, it does.

Q Is it your opinion that this is a water drive pool?

A It is.

Q What is your opinion as to whether one well in the Hightower Devonian Pool is capable of draining 80 acres?

A It is my opinion that one well will drain in excess of 80 acres.

Q Do you know of any waste which is now being committed under the present spacing order of the Commission?

A No, I do not.

Q Do you know of any change in the conditions from the view point of reservoir performance that would justify or require a revocation or a modification of the original order?

A No, sir I do not.

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Q What has been the average cost of the producing Devonian well in the Hightower Pool?

A The average cost of the two producing wells has been \$227,000.00.

Q Amerada owns the full lease and interest in all the area within the productive limits of this pool?

A Yes, sir.

Q The State of New Mexico owns all their oil?

A Yes, sir.

Q Do you know of -- from an engineering point of view -- of any inequities that are now existing in this pool?

A No, sir, I do not.

Q What is your opinion as to what the allowable should be?

A My opinion is the allowable should not be changed.

Q Have you considered the question of whether a pressure maintenance program of any kind is advisable, necessary, at Hightower?

A Yes, sir, we have, and we do not think it would be advisable or necessary or would recover any additional oil.

Q You have read the statement which we prepared in connection with the Hightower case?

A Yes, sir.

Q With the exception of the date to which the pressure graph is made, which in the statement was March 1st, I believe our testimony was April 1, 1952.

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A I will correct that. It is to March 1st on the graph.

Q In 1952?

A 1952, yes, sir.

Q Well, there seems to be an error in the statement wherein it is given as March 1st of 1951, but the date shown on the graph of March 1, 1952.

A Yes.

Q With that exception, are the statements in this true to your knowledge and belief?

A Yes.

MR. KELLOUGH: That is all the evidence we have from this witness. However, we offer into evidence Exhibit No. 11.

MR. SPURRIER: Without objection it will be received.

MR. KELLOUGH: We wish to offer the facts contained in this statement into evidence and argument by way of a brief.

That concludes our case at the Hightower. Mr. Oliver Seth and Mr. Justin Reed appear with Amerada as co-counsel in this case. Do either of you have any further statements you wish to make?

MR. SETH: I don't believe we do. We believe the matter has been adequately covered and we couldn't add anything further to it.

By MR. WHITE:

Q Mr. Christie, how many wells do you have producing in this pool?

A Two wells.

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PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

Q Your bottom hole pressures were taken on both wells?

A Yes, sir.

MR. SPURRIER: Any further question of the witness?

If not the witness may be excused.

(Witness excused.)

MR. SPURRIER: We would like to have Mr. Veeder again,
Mr. Kellough.

JOHN A. VEEDER,

having been previously duly sworn, recalled as a witness, testified
as follows:

EXAMINATION

By MR. MACEY:

Q On Exhibit No. 10 I notice you have a complete closure.
Isn't it entirely possible that structurally it should be drawn
higher?

A It is possible it could be higher or else it could be
about the same datum that you have here.

Q You have no evidence, of course?

A And of course, this is down the southeast side. This
is not closed.

Q Is it entirely possible that it could be completely
closed?

A Yes, I believe so, because of the --

Q (Interrupting) In the event you had migration of water
up-dip to the point where the area in the middle of your closure
was structurally high enough so that these two producing wells
were drowned out, you could still have oil trapped in there?

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PHONES 7-9845 AND 5-9546
ALBUQUERQUE, NEW MEXICO

A If you did have enough relief in the central part, yes. Of course, if the area is a rather flat area, it is possible it could be obtained.

Q The only way you could ever prove or disprove the presence of that would be drilling, wouldn't it? There is no other way.

A That would be the only definite proof.

MR. MACEY: That is all.

MR. KELLOUGH: In connection with Mr. Macey's examination, I would like to ask Mr. Veeder another question or two.

By MR. KELLOUGH:

Q Mr. Veeder, Amerada is now in the process of drilling a well located in the southwest-northeast of 26, projected to the Pennsylvanian formation, is that right?

A That is right.

Q Will that well give information which may be of use geologically in evaluating the structure?

A Yes, sir, it will give very pertinent information, I would say, although Pennsylvanian and Devonian structures do not exactly conform. A high well on the Pennsylvanian would indicate accordingly high well on Devonian. That information would be very pertinent.

Q That will possibly throw some light upon the relief which you may have on top of the structure. That would give you an indication, of course, whether you did have closure.

A Out here, yes.

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COURT REPORTERS
ROOM 12, CROMWELL BLDG.
PHONES 7-9845 AND 5-9846
ALBUQUERQUE, NEW MEXICO

MR. KELLOUGH: That is all.

MR. SPURRIER: Anymore testimony in this case?

MR. KELLOUGH: That is all.

MR. SPURRIER: If not, the witness may be excused.

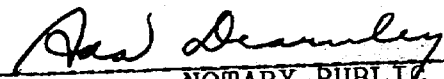
(Witness excused.)

MR. SPURRIER: These cases will be taken under advisement and the next case on the Docket is Case 333.

STATE OF NEW MEXICO)
 : SS.
COUNTY OF BERNALILLO)

I, ADA DEARNLEY, hereby certify that the foregoing and attached transcript of proceedings in Cases No. 314 & 319, before the Oil Conservation Commission, State of New Mexico, at Santa Fe, taken on April 15, 1952, is a true and correct record to the best of my knowledge, skill and ability.

DATED AT ALBUQUERQUE, this 24th day of April,
1952.



NOTARY PUBLIC
COURT REPORTER

My Commission Expires:

June 19, 1955.

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 12, CROMWELL BLDG.
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

TRANSCRIPT OF HEARING
Case No. 314 + 319

November 20, 1951

E. E. GREESON
ADA DEARNLEY
COURT REPORTERS
BOX 1303
PHONES 5-9422 AND 5-9546
ALBUQUERQUE, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

- - -

In Re:

Cases concerned with the Knowles
(Devonian) pool and the Hightower
(Devonian) pool, Lea County, re-
spectively. In both the Commission
is considering advisability of pres-
sure maintenance or other secondary
recovery methods, or advisability of
40-acre spacing for the prevention
of waste and the protection of cor-
relative rights. In both cases, Amerada
Petroleum Corporation is principal
operator.

Case No. 314 and 319

- - - - -

TRANSCRIPT OF HEARING

November 20, 1951

(Notices of publication read by Mr. Kellahin.)

MR. SETH: If the Commission please, on behalf of the Amerada we request that the cases be continued until the January hearing. The Knowles case, I don't know what the number is, while pressures are continuing there is a decline in production and they are doing remedio work on Well No. 2 and it will take 30 to 60 days. In the High-towers they are drilling a well and it will be completed in 30 or 60 days and may furnish further information in the matter.

CHAIRMAN SPURRIER: Thank you. Does anyone have any comment or testimony to present in these two cases? If not, without objection, they will be continued to the regular hearing, which date has not yet been definitely set. The next case and the final case is Case No. 254.

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

I HEREBY CERTIFY that the foregoing and attached Transcript of Proceedings in Case No. 314 and 319, before the Oil Conservation Commission, taken on November 20, 1951, is a true and correct record of the same to the best of my knowledge, skill and ability.

DATED at Albuquerque, New Mexico, _____,
1951.

REPORTER

ADA DEARNLEY, COURT REPORTER

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

Transcript of Hearing

CASES 314 AND 319

January 22, 1952

Henrickson's Reporting Service
2224 - 47th Street
Los Alamos, New Mexico

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

January 22, 1952

Case 314 and 319: If the Commission please, cases 314 and 319 have been continued. Case 314 refers to spacing in the Knowles Pool in Lea County and Case 319 to the Hightower (Devonian) Pool in Lea County.

MR. SHEPARD: I'd like the record to show that the advertisement has been read.

VOICE: Mr. Oliver Seth representing Seth and Montgomery, appearing for Amerada. We would like, if the Commission please, to continue these two cases until sometime after February 27th or 28th.

MR. SHEPARD: Would you like to have them continued until the March hearing?

VOICE: That would be satisfactory.

MR. SHEPARD: Are there any objections? Without objection, cases 314 and 319 will be continued until the regular March hearing.

STATE OF NEW MEXICO }
COUNTY OF LOS ALAMOS } ss.

I hereby certify that the foregoing and attached transcript of hearing in Cases 314 and 319 before the Oil Conservation Commission on January 22, 1952, at Santa Fe is a true record of the same to the best of my knowledge, skill and ability.

DATED at Los Alamos, this 28th day of January, 1952.


Audrey M. Henriksen

My commission expires September 20, 1955.

14 Jan Feb March April May June July

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allowable by nomination
one normal

allowable -

Production -

Hightower Pools
10-11,000 (4.67)

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U.S.A.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

APPLICATION OF AMERADA PETROLEUM
CORPORATION FOR AN ORDER ESTABLISHING
EIGHTY ACRE PRORATION UNITS AND UNI-
FORM SPACING OF WELLS IN THE HIGHTOWER
DEVONIAN POOL, LEA COUNTY, NEW MEXICO

CASE NO. ~~198~~ → 319

STATEMENT OF FACTS

In November, 1949, Amerada filed its application for the establishment of 80 acre spacing units for the Hightower Devonian pool.

At that time the State BTB #1 well (NW/4 NW/4 Sec. 26-12S-33E) had been completed in the Devonian formation at a depth of 10,090 to 10,200 feet.

The Roach well (NW/4 SW/4 Sec. 26-12S-33E) and the Gulf N.M.M.I. #1 well (SE/4 SE/4 Sec. 22-12S-33E) were then drilling, but not yet completed. Both of these wells resulted in dry holes in the Devonian.

The application asked that four sections be covered (Secs. 22, 23, 26, 27-12S-33E) and that all wells be located in the center of the NW and SE quarter of each governmental quarter section.

1. ORDER NO. 846

The application was heard by the Commission on November 1, 1949. There was no opposition. Evidence was offered in support of the allegations of the application.

On November 18, 1949, the Commission entered its Order 846 establishing 80 acre proration units comprising the E/2 and W/2 of each governmental quarter section. The order provided for wells to be located in the center of the NW and SE quarter of each quarter section with 150 feet tolerance. All wells were on the pattern locations.

The allowable for each 80 acre unit was a single top

allowable with deep well adaption as for a regular 40 acre unit, "until such time as the Commission may issue such further and additional orders as may be deemed necessary herein."

Paragraph 9 of the order provided:

"That the Commission retains jurisdiction of this case for the purpose of issuing such further and additional orders as may seem necessary to meet changed conditions, preclude inequities and preserve correlative rights; all upon the motion of the Commission or upon the petition of any interested operator upon public hearing, after notice as provided by law."

Exhibit 1 is a copy of Order 846.

2. ADDITIONAL DEVELOPMENT

Since the entry of the order one additional oil well has been completed in the Devonian formation. That is State BTE #1 (SE/4 SW/4 Sec. 23-12S-33E). Five other Devonian dry holes have been drilled:

- (1) Gulf N.M.M.I. (SE/4 SE/4 Sec. 22)
- (2) State BTF #1 (SE/4 NW/4 Sec. 23)
- (3) State BTH #1 (NW/4 NE/4 Sec. 26)
- (4) Roach (NW/4 SW/4 Sec. 26)
- (5) BTB #2 (SE/4 NW/4 Sec. 26)

Exhibit 2 is a map showing the present Devonian development.

3. ISSUES INVOLVED IN PRESENT HEARING

The Commission has now, on its own motion, requested that Amerada show cause why the 80-acre spacing order now in effect for the Hightower pool should not be revoked.

Exhibit 3 is a copy of the Notice for the present hearing.

The order expressly provides that the Commission retains jurisdiction to make such further orders "as may seem necessary to meet changed conditions, preclude inequities and preserve correlative rights." Thus the Commission has itself defined the scope of this hearing.

The order is final except for changed conditions. There is no inference that the Commission intended to reconsider the same issues heretofore presented.

Therefore, the question now properly before the Commission is whether there is a change of condition by reason of subsequent development which justifies the revocation of the 80 acre proration units or which is causing inequities.

The question of the allowable was temporary in the order and subject to review at any time.

Also, there is before the Commission the question of whether a pressure maintenance program is feasible at this time.

4. TESTIMONY OF JOHN A. VEEDER, GEOLOGIST

Mr. John A. Veeder is a geologist for Amerada Petroleum Corporation and is qualified to testify as an expert witness. The substance of his testimony is as follows:

(1) Since the last hearing one additional oil well and four Devonian dry holes have been drilled. One dry hole was drilled by Gulf. Exhibits 4, 5, 6, 7 and 8 are copies of Schlumberger logs of the following wells, respectively:

- 4 - BTE #1
- 5 - Roach #1
- 6 - BTF #1
- 7 - BTH #1
- 8 - BTB #2

(2) Exhibit 9 is a tabulation of the pertinent drilling data for the additional wells.

(3) Exhibit 10 is a structure map of the Hightower Devonian pool.

(4) From a study of all available geological data, it is my opinion that the Hightower-Devonian Pool has good porosity and apparently good permeability.

5. TESTIMONY OF R. S. CHRISTIE, PETROLEUM ENGINEER

Mr. R. S. Christie is Petroleum Engineer for Amerada Petroleum Corporation and is qualified to testify as an expert witness. The substance of his testimony is as follows:

(1) Exhibit 11 is a graph showing monthly oil and water production and bottom hole pressures of the Hightower-Devonian Pool to March 1, 1951.

(2) The pressure information indicates uniform withdrawals and that the drawdown has not been excessive. This means that there is little likelihood of channeling.

(3) It is my opinion that this pool has good permeability for this type of reservoir. The wells have high potential and the uniformity of the reservoir pressure indicates good communication.

(4) It is my opinion that this pool is under an effective water drive.

(5) It is my opinion that a Devonian well in this reservoir is capable of effectively draining an area of 80 acres.

(6) No waste is now being committed. There is no change in condition which justifies a revocation of the eighty acre spacing order.

(7) The average cost of the Devonian producing wells at Hightower has been approximately \$227,000 per well.

(8) The state is the only lessor and Amerada is the only lessee in the entire Hightower pool and no inequities now exist.

(9) It is my opinion that the allowable should remain as now provided.

(10) It is my opinion that a pressure maintenance program at this time would not increase the ultimate recovery and would not be economical.

Respectfully Submitted

SETH & MONTGOMERY

By

Justin T. Reid

Harry D. Page
Harry D. Page

Booth Kellough
Booth Kellough

ATTORNEYS FOR AMERADA
PETROLEUM CORPORATION

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

APPLICATION OF AMERADA PETROLEUM
CORPORATION FOR AN ORDER ESTABLISHING
EIGHTY ACRE PRORATION UNITS AND UNI-
FORM SPACING OF WELLS IN THE HIGHTOWER
DEVONIAN POOL, LEA COUNTY, NEW MEXICO

CASE NO. 198

STATEMENT OF FACTS

In November, 1949, Amerada filed its application for the establishment of 80 acre spacing units for the Hightower Devonian pool.

At that time the State BTB #1 well (NW/4 NW/4 Sec. 26-12S-33E) had been completed in the Devonian formation at a depth of 10,090 to 10,200 feet.

The Roach well (NW/4 SW/4 Sec. 26-12S-33E) and the Gulf N.M.M.I. #1 well (SE/4 SE/4 Sec. 22-12S-33E) were then drilling, but not yet completed. Both of these wells resulted in dry holes in the Devonian.

The application asked that four sections be covered (Secs. 22, 23, 26, 27-12S-33E) and that all wells be located in the center of the NW and SE quarter of each governmental quarter section.

1. ORDER NO. 846

The application was heard by the Commission on November 1, 1949. There was no opposition. Evidence was offered in support of the allegations of the application.

On November 18, 1949, the Commission entered its Order 846 establishing 80 acre proration units comprising the E/2 and W/2 of each governmental quarter section. The order provided for wells to be located in the center of the NW and SE quarter of each quarter section with 150 feet tolerance. All wells were on the pattern locations.

The allowable for each 80 acre unit was a single top

allowable with deep well adaption as for a regular 40 acre unit, "until such time as the Commission may issue such further and additional orders as may be deemed necessary herein."

Paragraph 9 of the order provided:

"That the Commission retains jurisdiction of this case for the purpose of issuing such further and additional orders as may seem necessary to meet changed conditions, preclude inequities and preserve correlative rights; all upon the motion of the Commission or upon the petition of any interested operator upon public hearing, after notice as provided by law."

Exhibit 1 is a copy of Order 846.

2. ADDITIONAL DEVELOPMENT

Since the entry of the order one additional oil well has been completed in the Devonian formation. That is State BTF #1 (SE/4 SW/4 Sec. 23-12S-33E). Five other Devonian dry holes have been drilled:

- (1) Gulf N.M.M.I. (SE/4 SE/4 Sec. 22)
- (2) State BTF #1 (SE/4 NW/4 Sec. 23)
- (3) State BTH #1 (NW/4 NE/4 Sec. 26)
- (4) Roach (NW/4 SW/4 Sec. 26)
- (5) BTB #2 (SE/4 NW/4 Sec. 26)

Exhibit 2 is a map showing the present Devonian development.

3. ISSUES INVOLVED IN PRESENT HEARING

The Commission has now, on its own motion, requested that Amerada show cause why the 80-acre spacing order now in effect for the Hightower pool should not be revoked.

Exhibit 3 is a copy of the Notice for the present hearing.

The order expressly provides that the Commission retains jurisdiction to make such further orders "as may seem necessary to meet changed conditions, preclude inequities and preserve correlative rights." Thus the Commission has itself defined the scope of this hearing.

The order is final except for changed conditions. There is no inference that the Commission intended to reconsider the same issues heretofore presented.

Therefore, the question now properly before the Commission is whether there is a change of condition by reason of subsequent development which justifies the revocation of the 80 acre proration units or which is causing inequities.

The question of the allowable was temporary in the order and subject to review at any time.

Also, there is before the Commission the question of whether a pressure maintenance program is feasible at this time.

4. TESTIMONY OF JOHN A. VEEDER, GEOLOGIST

Mr. John A. Veeder is a geologist for Amerada Petroleum Corporation and is qualified to testify as an expert witness. The substance of his testimony is as follows:

(1) Since the last hearing one additional oil well and four Devonian dry holes have been drilled. One dry hole was drilled by Gulf. Exhibits 4, 5, 6, 7 and 8 are copies of Schlumberger logs of the following wells, respectively:

- 4 - BTE #1
- 5 - Roach #1
- 6 - BTF #1
- 7 - BTH #1
- 8 - BTE #2

(2) Exhibit 9 is a tabulation of the pertinent drilling data for the additional wells.

(3) Exhibit 10 is a structure map of the Hightower Devonian pool.

(4) From a study of all available geological data, it is my opinion that the Hightower-Devonian Pool has good porosity and apparently good permeability.

5. TESTIMONY OF R. S. CHRISTIE, PETROLEUM ENGINEER

Mr. R. S. Christie is Petroleum Engineer for Amerada Petroleum Corporation and is qualified to testify as an expert witness. The substance of his testimony is as follows:

(1) Exhibit 11 is a graph showing monthly oil and water production and bottom hole pressures of the Hightower-Devonian Pool to March 1, 1951.

(2) The pressure information indicates uniform withdrawals and that the drawdown has not been excessive. This means that there is little likelihood of channeling.

(3) It is my opinion that this pool has good permeability for this type of reservoir. The wells have high potential and the uniformity of the reservoir pressure indicates good communication.

(4) It is my opinion that this pool is under an effective water drive.

(5) It is my opinion that a Devonian well in this reservoir is capable of effectively draining an area of 80 acres.

(6) No waste is now being committed. There is no change in condition which justifies a revocation of the eighty acre spacing order.

(7) The average cost of the Devonian producing wells at Hightower has been approximately \$227,000 per well.

(8) The state is the only lessor and Amerada is the only lessee in the entire Hightower pool and no inequities now exist.

(9) It is my opinion that the allowable should remain as now provided.

(10) It is my opinion that a pressure maintenance program at this time would not increase the ultimate recovery and would not be economical.

Respectfully Submitted

SETH & MONTGOMERY

By _____

Harry D. Page

Booth Kellough

ATTORNEYS FOR AMERADA
PETROLEUM CORPORATION

EXHIBIT NO. 3

NOTICE

In the matter of the application of the Oil Conservation Commission upon its own motion for an order directed to Amerada Petroleum Corporation, Ralph Lowe, and all other operators and persons having an interest in the subject matter hereof, directing that pressure maintenance or other secondary recovery projects be instituted in the Hightower (Devonian) Pool in Lea County, New Mexico, within six months from October 23, 1951, or that 80-acre spacing as provided for in Commission Order No. 846, issued November 18, 1949, be rescinded and 40-acre spacing be instituted for the prevention of waste and the protection of correlative rights, and directing Amerada Petroleum Corporation, Ralph Lowe, and all other operators or persons interested to show cause at Santa Fe, New Mexico, why such order should not be entered.

EXHIBIT NO. 1

BEFORE THE OIL CONSERVATION
COMMISSION OF THE STATE OF
NEW MEXICO

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

CASE NO. 198
ORDER NO. 846

THE APPLICATION OF AMERADA PETROLEUM
CORPORATION FOR AN ORDER ESTABLISHING
EIGHTY ACRE PRORATION UNITS; ESTABLISH-
ING A UNIFORM PATTERN FOR THE SPACING
AND DRILLING WITH ALLOWANCE FOR TOLERANCE
FOR SURFACE OBSTRUCTIONS; AND FOR AN ORDER
FIXING AND ESTABLISHING ALLOWABLES FOR
WELLS DRILLED OR TO BE DRILLED IN THE
HIGHTOWER POOL TO THE COMMON SOURCE OF
SUPPLY DISCOVERED IN AMERADA-STATE
BTB NO. 1 WELL (DEVONIAN), LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 10:00 o'clock A.M.,
November 1, 1949 at Santa Fe, New Mexico, before the Oil
Conservation Commission of the State of New Mexico, herein-
after referred to as the "Commission".

NOW, on this 18th day of November, 1949, the Commission
having before it for consideration the testimony adduced at
the hearing of said cause and being fully advised in the
premises.

FINDS:

1. That the Applicant, Amerada Petroleum Corporation has
drilled and completed Amerada-State BTB No. 1 well located
in the approximate center of NW/4 NW/4 of Section 26, Township
12 south, Range 33 east, N.M.P.M. and discovered a new common
source of supply at the approximate depth of 10,090-10,200
ft., in the Devonian formation.
2. That the initial production from said well was 781 barrels
of 56.9 gravity pipe line oil in 19 3/4 hours through 1/4
in. tubing choke from 10,155 ft.-10,165 ft. and with a gas-
oil ratio of 280.
3. That the probable area has been delineated and recom-
mended by the Nomenclature Committee and approved by the
Commission for Devonian production as discovered by the above
described well as follows:

All of sections, 22, 23, 26 and 27 in Township
12 south, Range 33 east, N.M.P.M.

4. That Gulf Oil Company is now drilling a well in SE/4
SE/4 section 22, and Amerada Petroleum Corporation is also
drilling a well in the NW/4 SW/4 of section 26, all in Town-
ship 12 south, Range 33 east; both being at a present depth
of approximately 9000 ft. and projected to the Devonian
pay discovered in Amerada-State BTB No. 1 within the "High-
tower" pool as lately designated, and described hereinabove.

5. That this order shall cover all wells now or hereafter drilled to the common source of supply (Devonian) to which the discovery well, Amerada-State BTB No. 1 was drilled and is producing from within the pool described in paragraph 3 above, so as to insure a proper and uniform spacing, developing and producing plan for all wells drilled to the common source of supply.

6. That recognizing the conditions indicated by the discovery well, the Commission finds it advisable to amend and supplement its present rules, regulations and orders to properly cover the matter of lease development and well spacing now or hereafter drilled to, into and producing from the Hightower-Devonian formation encountered at a depth between 10,090 ft. and 10,200 ft. in the "Hightower" pool.

7. That the present rules and regulations of the Commission are adequate and sufficient to properly cover the drilling, equipping and operation of wells to the newly discovered common source of supply as found in Amerada-State BTB No. 1 well, and therefore, the general statewide rules and the special rules should remain in full force and effect except as hereinafter modified, amended or superceded.

8. That the "Hightower" Devonian formation as found in the Amerada-State BTB No. 1 well, is apparently a common source of supply which should be drilled and developed under a special program, other than that ordinarily required in compliance with existing Commission regulations particularly Order No. 637 effective March 1, 1946 with respect to pro-ration units, spacing and assignment of allowables due to the depth of such wells, drilling time required, the high costs attached thereto, in addition to the hazards of deep exploration.

9. That the best interest of the State of New Mexico seems to require encouragement of operators in the exploration and development of the States' natural resources, particularly oil and gas, by the authorization of a reasonable, proper and equitable spacing and development pattern for the "Hightower" pool.

IT IS THEREFORE ORDERED:

1. That the Amerada-State BTB No. 1 well located in the center of NW/4 NW/4 of section 26, Township 12 south, Range 33 east, N.M.P.M. is producing oil from the Devonian formation, a newly discovered common source of supply not heretofore discovered and produced in New Mexico, and that the probable area for such production is as follows:

All of sections 22, 23, 26 and 27, in Township 12 south, Range 33 east, N.M.P.M. (Hightower pool) Lea County, New Mexico.

2. That it is the intent of this order to cover all of the Devonian formation common source of supply within the area designated herein, and upon any regular additions to the Hightower pool which may from time to time be made, and that any well within said designated area to the same common source of supply shall be drilled on the pattern herein provided.

3. That 80-acre spacing and drilling units be established as hereinafter provided, for the production of oil and gas from the Devonian formation underlying the area as hereinabove described.

4. That each governmental quarter section be divided into two equal rectangular spacing units by a line drawn north-

south through such quarter section, and with wells to be drilled in the center of the northwest and southeast forty acre tracts of each such spacing unit, with a tolerance of not in excess of 150 ft. provided, however, that the units within may be changed by agreement of operators within any quarter section of the designated area upon proper showing before the Commission.

5. That allowable shall be assigned on the basis of proration units as herein established, and any proration unit of less than the normal one-half of a governmental quarter section as the result of an exception granted by the Commission after notice and hearing, shall be assigned an allowable in proportion that the acreage thereof bears to the 80-acre spacing unit - or one-half of a quarter section.

6. That the daily oil allowable for an 80-acre unit provided for herein shall be assigned to the Amerada-State BTB No. 1 well, the discovery well, located in the approximate center of NW/4 NW/4 of section 26, Township 12 south, Range 33 east, N.M.P.M., Lea County, New Mexico and to all other wells hereafter drilled and produced in accordance with the provisions of this order based upon the proportional factor of 4.67 times the regular top allowable until such time as the Commission may issue such further and additional orders as may be deemed necessary herein.

7. All rules, regulations and orders heretofore issued by this Commission which may conflict herewith are superceded, only with respect to the Devonian formation production at the approximate depth of 10,090 ft.-10,200 ft. in the Hightower pool.

8. That this Order shall be in full force and effect from and after December 1, 1949.

9. That the Commission retains jurisdiction of this case for the purpose of issuing such further and additional orders as may seem necessary to meet changed conditions, preclude inequities and preserve correlative rights; all upon the motion of the Commission or upon the petition of any interested operator upon public hearing, after notice as provided by law.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

(SEAL)

s/ Thomas J. Mabry
THOMAS J. MABRY, CHAIRMAN

GUY SHEPARD, MEMBER

s/ R. R. Spurrier
R. R. SPURRIER, SECRETARY

EXHIBIT NO. 9

Case #19 - 4-15-52

HIGHTOWER FIELD - LEA COUNTY, NEW MEXICO:

WELL & NO.	TOP DEVONIAN	TOP DEVONIAN PAY	DEVONIAN CAP	DEVONIAN COMPLETION
BTB #1	10,090 (-5831)	10,128 (-5869)	38'	TD 11199 (-6940) PB 10165 (-5906)
BTB #2	10,196 (-5945)	10,215 (-5964)	19'	TD 10,225 (-5974) PB 8768 (-4517)
BTE #1	9,982 (-5728)	9,992 (-5738)	10'	TD 10,165 (-5911) No PB
BTF #1	11,021 (-6760)	11,163 (-6902)	142'	TD 11,185 (-6924) D & A
BTH #1	10,146 (-5893)	10,152 (-5899)	6'	TD 10,189 (-5936) D & A
ROACH #1	10,600 (-6351)	10,606 (-6357)	6'	TD 10,620 (-6371) PB 8685 (-4436)

5-1/2" Csg. @ 10,270 PB 10,165
Perf. Csg. 10,155-165
Wash Perf. with 250 Acid
IP: F 1386 BO plus 19 BW 24 hrs. thru
24/64" ch. GOR 435-1, Grav. 57.0 Corr.
Spud 3-28-49 Completed 9-16-49

5-1/2" Csg. @ 9050 PB 8768
Perf. Csg. 8728-8768
Wash Perf. with 500 acid.
IP: F 624 BO 24 hrs. thru 20/64" ch.
GOR 875-1, Grav. 44.5 Corr.
Spud 9-26-51 Completed 12-16-51

5-1/2" Csg. 10,150
Wash open hole 10,150-10,165 with 500 acid
IP: F 2596 BOPD thru 1/2" ch. (Based on 12
hr. test) GOR 481-1, Grav. 59.2 Corr.
Spud 1-5-50 Completed 4-21-50

TD 11,185 D & A
Spud 4-13-50 Completed 7-30-50

TD 10,189 D & A
Spud 8-3-50 Completed 10-21-50

C 4453

5-1/2" Csg. @ 9475 PB 8685
Perf. Csg. 8660-8685
IP: F Net. 2,640,000 CFOPD plus 153 B Dist.
24 hrs. thru 18/64" ch. GOR 17,028-1
Grav. 69.5 Corr.
Spud 9-4-49 Completed 1-20-50

10152
5893
4259

10215
5964
4251

11199
6940
4259

10600
6351
4249

UNIT AGREEMENT FOR THE DEVELOPMENT AND
OPERATION OF THE ANGELS PEAK UNIT AREA,
COUNTY OF SAN JUAN
STATE OF NEW MEXICO

I Sec. No. _____

THIS AGREEMENT, entered into as of the 3rd day of May,
1951, by and between the parties subscribing, ratifying, or consenting
hereto, and herein referred to as the "parties hereto";

WITNESSETH:

WHEREAS, the parties hereto are the owners of working, royalty, or
other oil or gas interests in the unit area subject to this agreement; and

WHEREAS, the act of February 25, 1920, 41 Stat. 437, as amended by
the act of August 8, 1946, 60 Stat. 950, 30 U.S.C. Secs. 181, et seq.,
authorizes Federal lessees and their representatives to unite with each other,
or jointly or separately with others, in collectively adopting and operating
under a cooperative or unit plan of development or operation of any oil or gas
pool, field, or like area, or any part thereof, for the purpose of more
properly conserving the natural resources thereof whenever determined and
certified by the Secretary of the Interior to be necessary or advisable in the
public interest; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is
authorized by an Act of the Legislature (Chap. 88, Laws 1943) to consent to
or approve this agreement on behalf of the State of New Mexico, insofar as it
covers and includes lands and mineral interests of the State of New Mexico;
and

WHEREAS, the Oil Conservation Commission of the State of New Mexico
is authorized by an Act of the Legislature (Chap. 168, Laws 1949) to approve
this agreement and the conservation provisions hereof; and

WHEREAS, the parties hereto hold sufficient interests in the Angels Peak Unit Area covering the land hereinafter described to give reasonably effective control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to conserve natural resources, prevent waste, and secure other benefits obtainable through development and operation of the area subject to this agreement under the terms, conditions, and limitations herein set forth;

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this agreement their respective interests in the below defined unit area and agree severally among themselves as follows:

1. ENABLING ACT AND REGULATIONS: The Act of February 25, 1920, as amended, supra, and all valid pertinent regulations, including operating and unit plan regulations, heretofore issued thereunder or valid pertinent and reasonable regulations hereafter issued thereunder are accepted and made a part of this agreement as to Federal lands, provided such regulations are not inconsistent with the terms of this agreement; and, as to non-Federal lands, the oil and gas operating regulations in effect as of the effective date hereof governing drilling and producing operations, not inconsistent with the terms hereof or the laws of the State in which the non-Federal land is located, are hereby accepted and made a part of this agreement.

2. UNIT AREA: The following described land is hereby designated and recognized as constituting the unit area:

NEW MEXICO PRINCIPAL MERIDIAN

T. 27N., R. 10 W., Sec. 1, Lots 3, 4 S $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$;
Secs. 2 to 6, inclusive;
Sec. 7, E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$;
Secs. 8 to 11, inclusive;
Sec. 12, $\frac{1}{2}$;
Sec. 13, $\frac{1}{2}$;
Secs. 14 to 17, inclusive;
Sec. 18, E $\frac{1}{2}$;
Secs. 20 to 23, inclusive;
Sec. 24, W $\frac{1}{2}$;
Sec. 25, N $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$;
Sec. 26, N $\frac{1}{2}$, SW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$;
Secs. 27 and 28

T. 28N., R. 10 W., Fractional Secs. 7, 8 and 9;
Sec. 15, SW $\frac{1}{4}$;
Secs. 16 to 22, inclusive;
Sec. 23, SW $\frac{1}{4}$;
Sec. 26, NE $\frac{1}{4}$;
Secs. 27 to 35, inclusive

T. 29N., R. 10 W., Sec. 29, SW $\frac{1}{4}$ SW $\frac{1}{4}$;
Sec. 30, S $\frac{1}{2}$;
Secs. 31 and 32

T. 28N., R. 11 W., Sec. 12, Lot 1, SE $\frac{1}{4}$ SE $\frac{1}{4}$;
Sec. 13, E $\frac{1}{2}$ E $\frac{1}{2}$;
Sec. 24, E $\frac{1}{2}$ E $\frac{1}{2}$;
Sec. 25, E $\frac{1}{2}$ E $\frac{1}{2}$;
Sec. 36, E $\frac{1}{2}$ NE $\frac{1}{4}$

T. 29N., R. 11 W., Sec. 25, SE $\frac{1}{4}$;
Sec. 36, all.

Total Unit Area embraces 29,802.17 acres, more or less.

Exhibit "A" attached hereto is a map showing the unit area and the boundaries and identity of tracts and leases in said area to the extent known to the Unit Operator. Exhibit "B" attached hereto is a schedule showing to the extent known to the Unit Operator the acreage, percentage, and kind of ownership of oil and gas interests in all land in the unit area. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest or interests as are shown in said map or schedule as owned by such party. Exhibits "A" and "B" shall be revised by the Unit Operator whenever changes in the unit area render such revision necessary, or when requested by the Oil and Gas Supervisor, hereinafter referred to as "Supervisor". Not less than six copies of the revised exhibits shall be filed with the Supervisor, and two copies each with the Commissioner of Public Lands of the State of New Mexico, hereinafter referred to as "Commissioner" and the Oil Conservation Commission, hereinafter referred to as "Commission".

The above-described unit area shall when practicable be expanded to include therein any additional tract or tracts regarded as reasonably necessary or advisable for the purposes of this agreement, or shall be contracted to exclude lands not within any participating area whenever such expansion or contraction is necessary or advisable to conform with the purposes of this agreement. Such expansion or contraction shall be effected in the following manner:

(a) Unit Operator, on its own motion or on demand of the Director of the Geological Survey, hereinafter referred to as "Director", or on demand of the Commissioner, shall prepare a notice of proposed expansion or contraction describing the contemplated changes in the boundaries of the unit area, the reasons therefor, and the proposed effective date thereof;

(b) Said notice shall be delivered to the Supervisor and Commissioner, and copies thereof mailed to the last known address of each working interest owner, lessee, and lessor whose interests are affected, advising that 30 days will be allowed for submission to the Unit Operator of any objections;

(c) Upon expiration of the 30-day period provided in the preceding item (b) hereof, Unit Operator shall file with the Supervisor and Commissioner evidence of mailing of the notice of expansion or contraction and a copy of any objections thereto which have been filed with the Unit Operator;

(d) After due consideration of all pertinent information, the expansion or contraction shall, upon approval by the Director and Commissioner, become effective as of the date prescribed in the notice thereof.

All land committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement".

3. UNITIZED SUBSTANCES: All oil and gas in any and all formations below the base of the Pictured Cliffs formation of the unitized land are unitized under the terms of this agreement and herein are called "unitized substances".

4. UNIT OPERATOR: STANOLIND OIL AND GAS COMPANY is hereby designated as Unit Operator and by signature hereto commits to this agreement all interests in unitized substances vested in it as set forth in Exhibit "B", and agrees and consents to accept the duties and obligations of Unit Operator for the discovery, development and production of unitized substances as herein provided. Whenever reference is made herein to the Unit Operator, such reference means the Unit Operator acting in that capacity and not as owner of interests in unitized substances, and the term "working interest owner" when used herein shall include or refer to Unit Operator as the owner of a working interest when such an interest is owned by it.

5. RESIGNATION OR REMOVAL OF UNIT OPERATOR: Unit Operator shall have the right to resign at any time prior to the establishment of a participating area or areas hereunder, but such resignation shall not become effective so as to release it from its duties and obligations and terminate his rights as such for a period of 6 months after notice of intention to resign has been served by him on all working interest owners, the Director, and the Commissioner and until all wells then drilled hereunder are placed in a satisfactory condition for suspension or abandonment as may be required by the Supervisor and Commissioner, unless a new Unit Operator shall have been selected and approved and shall have taken over and assumed the duties and obligations of Unit Operator prior to the expiration of said period.

Unit Operator shall have the right to resign after a participating area or areas have been established provided a successor unit operator has been selected and approved and has agreed to accept the duties and responsibilities of Unit Operator effective upon the termination of such duties and responsibilities by the retiring Unit Operator. The resignation of Unit Operator shall not release Unit Operator from any liability for any default by it hereunder occurring prior to the effective date of its resignation.

The Unit Operator may, upon default or failure in the performance of its duties or obligations hereunder, be subject to removal by the same percentage vote of the owners of working interests determined in like manner as herein provided for the selection of a new Unit Operator. Such removal shall be effective upon notice thereof to the Director and Commissioner.

The resignation or removal of Unit Operator under this agreement shall not terminate his right, title, or interest as the owner of a working interest or other interest in unitized substances, but upon the resignation or removal of Unit Operator becoming effective, such Unit Operator shall deliver possession of all equipment, materials, and appurtenances used in conducting the unit operations and owned by the working interest owners to the new duly qualified successor Unit Operator or to the owners thereof if no such new Unit Operator is elected, to be used for the purpose of conducting unit operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment and appurtenances needed for the preservation of any wells.

6. SUCCESSOR UNIT OPERATOR: Whenever the Unit Operator shall resign as Unit Operator or shall be removed as hereinabove provided, the owners of the working interests in the participating area or areas according to their respective acreage interests in such participating area or areas, or, until a participating area shall have been established, the owners of the working interests according to their respective acreage interests in all unitized land, shall by majority vote select a successor Unit Operator: Provided, That, if a majority but less than 75 per cent of the working interests qualified to vote are owned by one party to this agreement, a concurring vote of sufficient additional parties, so as to constitute in the aggregate not less than 75 per cent of the total working interests, shall be required to select a new operator. Such selection shall not become effective until (a) a Unit Operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and (b) the selection shall have been approved by the Director and Commissioner. If no successor Unit Operator is selected and qualified as herein provided, the Director and Commissioner at their election may declare this unit agreement terminated.

7. ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT: If the Unit Operator is not the sole owner of working interests, costs and expenses incurred in conducting unit operations hereunder shall be paid in the first instance by Unit Operator, and such costs and expenses so paid by Unit Operator shall be apportioned among and borne by the owners of working interests and the Unit Operator reimbursed, all in accordance with the agreement or agreements entered into by and between the Unit Operator and the owners of working interests, whether one or more, separately or collectively. Any agreement or agreements entered into between the working interest owners and the Unit Operator as provided in this section, whether one or more, are herein referred to as the "unit operating agreement". Such unit operating agreement shall also provide the manner in which the working interest owners shall be entitled to receive their respective proportionate and allocated share of the benefits accruing hereto in conformity with their underlying operating agreements, leases, or other independent contracts and as between the working interest owners and Unit Operator may provide for such limitations upon the power of the Unit Operator respecting the liability of the working interest

owners for cost of operations hereunder as may be agreed upon by Unit Operator and the working interest owners; however, no such unit operating agreement shall be deemed either to modify any of the terms and conditions of this unit agreement or to relieve the Unit Operator of any right or obligation established under this unit agreement, and in case of any inconsistency or conflict between the unit agreement and the unit operating agreement this unit agreement shall prevail. Three true copies of any unit operating agreement executed pursuant to this section shall be filed with the Supervisor and one true copy with the Commissioner.

8. RIGHTS AND OBLIGATIONS OF UNIT OPERATOR: Except as otherwise specifically provided herein, the exclusive right, privilege, and duty of exercising any and all rights of the parties hereto which are necessary or convenient for prospecting for, producing, storing, allocating and distributing the unitized substances are hereby delegated to and shall be exercised by the Unit Operator as herein provided. Acceptable evidence of title to said rights shall be deposited with said Unit Operator and, together with this agreement, shall constitute and define the rights, privileges, and obligations of Unit Operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this agreement the Unit Operator, in its capacity as Unit Operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

9. DEEP TEST WELL: It is recognized that one productive well in the Dakota formation has been completed within the Unit Area located in the NE/4 NW/4 Section 4, T27N, R10W, San Juan County, New Mexico. Within six months after the effective date hereof the Unit Operator shall begin to drill a second adequate test well at a location approved by the Supervisor if such location is upon lands of the United States, and if upon State lands or patented lands such location shall be approved by the Commission, unless on such effective date such a well is being drilled conformably with the terms hereof, and thereafter continue such drilling diligently until the Dakota formation has been tested or until at a lesser depth but below the base of the Pictured Cliffs formation, unitized substances shall be discovered which can be produced in paying quantities (to wit: quantities sufficient to repay the costs of drilling and producing operations, with a reasonable profit) or the Unit Operator shall

at any time establish to the satisfaction of the Supervisor as to wells on Federal lands, or the Commissioner as to wells on State lands or patented lands, that further drilling of said well would be unwarranted or impracticable, provided, however, that the Unit Operator shall not in any event be required to drill to a depth in excess of 7000 feet. In the event of discovery and completion of the second or subsequent test wells as a commercial well or wells in formation below the base of the Pictured Cliffs formation above and before reaching the Dakota formation, a test well shall be drilled to the original objective, and it is agreed that such well will be begun at a location approved as above not later than 18 months after the effective date of this agreement.

Nothing in this section shall be deemed to limit the right of the Unit Operator to resign as provided in Section 5 hereof, or as requiring Unit Operator to commence or continue any drilling during the period pending such resignation becoming effective in order to comply with the requirements of this section. The Director and Commissioner may modify the drilling requirement of this section by granting reasonable extensions of time when, in his opinion, such action is warranted. Upon failure to comply with the drilling provisions of this section, the Director and Commissioner may, after reasonable notice to the Unit Operator, and each working interest owner, lessee, and lessor at their last known addresses, declare this unit agreement terminated.

10, PLAN OF FURTHER DEVELOPMENT AND OPERATION: Within 6 months after completion of the second well, which is capable of producing unitized substances in paying quantities, the Unit Operator shall submit for the approval of the Supervisor, the Commissioner, and the Commission an acceptable plan of development and operation for the unitized land which, when approved by the Supervisor, the Commissioner, and the Commission, shall constitute the further drilling and operating obligations of the Unit Operator under this agreement for the period specified therein, subject to the test well provisions of Section 9 hereof. Thereafter, from time to time before the expiration of any existing plan, the Unit Operator shall submit for the approval of the Supervisor, the Commissioner, and the Commission, a plan for an additional specified period for the development and operation of the unitized land. Any plan submitted pursuant to this section shall provide for the exploration of the unitized

area and for the determination of the area or areas thereof capable of producing unitized substances in paying quantities in each and every productive formation and shall be as complete and adequate as the Supervisor, the Commissioner, and the Commission may determine to be necessary for timely development and proper conservation of the oil and gas resources of the unitized area and shall (a) specify the number and locations of any wells to be drilled and the proposed order and time for such drilling; and (b) to the extent practicable specify the operating practices regarded as necessary and advisable for proper conservation of natural resources. Separate plans may be submitted for separate productive zones, subject to the approval of the Supervisor, the Commissioner and the Commission. Said plan or plans shall be modified or supplemented when necessary to meet changed conditions or to protect the interests of all parties to this agreement. Reasonable diligence shall be exercised in complying with the obligations of the approved plan of development. The Supervisor and Commissioner are authorized to grant a reasonable extension of the 6-month period herein prescribed for submission of an initial plan of development where such action is justified because of unusual conditions or circumstances. After completion hereunder of a second well capable of producing oil and gas in paying quantities no further wells, except such as may be necessary to afford protection against operations not under this agreement or such as may be necessary to comply with Section 9 hereof, or such as may be specifically approved by the Supervisor and the Commissioner shall be drilled except in accordance with a plan of development approved as herein provided.

11. PARTICIPATION: A participating area hereinafter called "Dakota Participating Area" is hereby established effective as of the first of the month following the effective date of this agreement for all unitized substances produced from the Dakota formation through the existing well described in Section 9 hereof. The following land shall be embraced in the initial Dakota Participating Area:

PRINCIPAL MERIDIAN, NEW MEXICO (SAN JUAN COUNTY)

T. 27N. R. 10 W, $W\frac{1}{2}$ NE, NW Sec. 4, and

T. 28N., R. 10 W., $S\frac{1}{2}$ SW, $SW\frac{1}{4}$ SE/4 Sec. 33.

containing 361.54 acres, more or less.

The boundaries of the initial Dakota Participating Area are shown by a dashed line in Exhibit "A".

Upon completion of any other well capable of producing unitized substances in any formation in paying quantities, which does not cause a revision of an established participating area or areas as heretofore or hereinafter provided, or as soon thereafter as required by the Supervisor and Commissioner, the Unit Operator shall submit for approval by the Director, the Commissioner, and the Commission, a schedule, based on sub-divisions of the public-land survey or aliquot parts thereof, of all unitized land then regarded as reasonably proved to be productive of unitized substances in paying quantities; all land in said schedule on approval of the Director, the Commissioner, and the Commission to constitute a separate participating area, effective as of the date of first production. Said schedule also shall set forth the percentage of unitized substances to be allocated as herein provided to each unitized tract in the participating area so established, and shall govern the allocation of production from and after the date the participating area becomes effective.

A separate participating area shall be established in like manner for each separate pool or deposit of unitized substances or for any group thereof produced as a single pool or zone, and any two or more participating areas so established may be combined into one with the consent of the owners of all working interests in the lands within the participating areas so to be combined, and approval of the Director, the Commissioner, and the Commission. The participating area or areas so established shall be revised from time to time, subject to like approval, whenever such action appears proper as a result of further drilling operations or otherwise, to include additional land then regarded as reasonably proved to be productive in paying quantities and the percentage of allocation shall also be revised accordingly. The effective date of any revision shall be the first of the month following the date of first authentic knowledge or information on which such revision is predicated, unless a more appropriate effective date is specified in the schedule. No land shall be excluded from a participating area on account of depletion of the unitized substances.

It is the intent of this section that a participating area shall represent the area known or reasonably estimated to be productive in paying quantities; but, regardless of any revision of the participating area, nothing

herein contained shall be construed as requiring any retroactive apportionment of any sums accrued or paid for production obtained prior to the effective date of revision of the participating area.

In the absence of agreement at any time between the Unit Operator and the Director, the Commissioner, and the Commission as to the proper definition or redefinition of a participating area, or until a participating area has, or areas have, been established as provided herein, the portion of all payments affected thereby may be impounded in a manner mutually acceptable to the owners of working interests, except royalties due the United States and the State of New Mexico, which shall be determined by the Supervisor and the Commissioner and the amount thereof deposited as directed by the Supervisor and the Commissioner of Public Lands respectively, to be held as unearned money until a participating area is finally approved and then applied as earned or returned in accordance with a determination of the sum due as Federal and State Royalty on the basis of such approved participating area.

Whenever it is determined, subject to the approval of the Supervisor, as to wells on Federal land, the Commissioner as to wells on State land, and the Commission as to patented land, that a well drilled under this agreement is not capable of production in paying quantities and inclusion of the land on which it is situated in a participating area is unwarranted, production from such well shall be allocated to the land on which the well is located so long as that well is not within a participating area established for the pool or deposit from which such production is obtained.

12. ALLOCATION OF PRODUCTION: All unitized substances produced from each participating area established under this agreement, except any part thereof used in conformity with good operating practices within the unitized area for drilling, operating, camp and other production or development purposes, for repressuring or recycling in accordance with a plan of development approved by the Supervisor, the Commissioner, and the Commission, or unavoidably lost, shall be deemed to be produced equally on an acreage basis from the several tracts of unitized land of the participating area established for such production and, for the purpose of determining any benefits accruing under this agreement each tract of unitized land shall have allocated to it such

percentage of said production as the number of acres in such tract bears to the total acres of unitized land in said participating area. It is hereby agreed that production of unitized substances from a participating area shall be allocated as provided herein regardless of whether any wells are drilled on any particular part or tract of said participating area. If any gas produced from one participating area is used for repressuring or recycling purposes in another participating area, any gas withdrawn from such last mentioned participating area for sale during the life of this agreement shall be considered to be the gas so transferred until an amount equal to that transferred shall be so produced for sale and such gas shall be allocated to the participating area from which initially produced as constituted at the time of such final production.

Production of unitized substances from the Dakota Participating Area established in Section 11 hereof shall be apportioned among and allocated to the several tracts of land comprising such participating area effective as of the first of the month following the effective date of this agreement, in accordance with the schedule marked Exhibit "C" attached hereto. Nothing in this agreement shall be construed to affect the disposition of unitized substances, or the proceeds thereof, produced and saved from the unit area prior to the effective date of the establishment of the participating area.

13. DEVELOPMENT OR OPERATION OF NON-PARTICIPATING LAND OR FORMATIONS:

Any party hereto owning or controlling the working interest in any unitized land having thereon a regular well location may with the approval of the Supervisor, the Commissioner, and the Commission drill a well to test any formation for which a participating area has not been established or to test any formation for which a participating area has been established if such location is not within said participating area, unless within 90 days of receipt of notice from said party of his intention to drill the well the Unit Operator elects and commences to drill such well in like manner as other wells are drilled by the Unit Operator under this agreement.

If any well drilled as aforesaid by a working interest owner results in production such that the land upon which it is situated may properly be included in a participating area, such participating area shall be established or enlarged as provided in this agreement and the well shall thereafter be transferred to and operated by Unit Operator in accordance with the terms of this agreement and the unit operating agreement.

If any well drilled as aforesaid by a working interest owner obtains production in quantities insufficient to justify the establishment or the enlargement of a participating area such well may be operated and produced by the party drilling the same subject to the conservation requirements of this agreement. The royalties in amount or value of production from any such well shall be paid as specified in the underlying lease and agreements affected.

14. ROYALTY SETTLEMENT: The United States and the State of New Mexico and all royalty owners who, under existing contract, are entitled to take in kind a share of the substances now unitized hereunder produced from any tract, shall hereafter be entitled to the right to take in kind their share of the unitized substances allocated to such tract, and Unit Operator, or in case of the operation of a well by a working interest owner as herein in special cases provided for, such working interest owner, shall make deliveries of such royalty share taken in kind in conformity with the applicable contracts, laws and regulations. Settlement for royalty interests not taken in kind shall be made by working interest owners responsible therefor under existing contracts, laws, and regulations, on or before the last day of each month for unitized substances produced during the preceding calendar month; provided, however, that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any royalties due under their leases.

If Unit Operator introduces gas obtained from sources other than the unitized substances into any participating area hereunder, for use in repressuring, stimulation of production, or increasing ultimate recovery, which shall be in conformity with a plan first approved by the Supervisor and the Commissioner, a like amount of gas if available, with due allowance for loss or depletion from any cause, may be withdrawn from the formation into which the gas was introduced, royalty free as to dry gas, but not as to the products extracted therefrom; provided that such withdrawal shall be at such time as may be provided in the plan of operations or as may otherwise be consented to by the Supervisor the Commissioner, and the Commission as conforming to good petroleum engineering practice, and provided further, that such right of withdrawal shall terminate on the termination of this unit agreement.

Royalty due the United States shall be computed as provided in the operating regulations and paid in value or delivered in kind as to all unitized substances on the basis of the amounts thereof allocated to unitized Federal land as provided herein at the rates specified in the respective Federal leases, or at such lower rate or rates as may be authorized by law or regulation: provided, that for leases on which the royalty rate depends on the daily average production per well, said average production shall be determined in accordance with the operating regulations as though each participating area were a single consolidated lease.

15. RENTAL SETTLEMENT: Rentals or minimum royalties due on leases committed hereto shall be paid by working interest owners responsible therefor under existing contracts, laws, and regulations, provided that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any rental or minimum royalty in lieu thereof due under their leases. Rental or minimum royalty for lands of the United States subject to this agreement shall be paid at the rate specified in the respective leases from the United States, or as otherwise provided by law or regulation. Such rental or minimum royalty may be waived, suspended, or reduced to the extent authorized by law and regulation. Rentals on State of New Mexico lands subject to this agreement shall be paid at the rates specified in the respective leases, or may be reduced and suspended upon the order of the Commissioner of Public Lands of the State of New Mexico pursuant to applicable laws and regulations.

With respect to any lease on non-Federal land containing provisions which would terminate such lease unless drilling operations were within the time therein specified commenced upon the land covered thereby or rentals paid for the privilege of deferring such drilling operations, the rentals required thereby shall be deemed to accrue and become payable during the primary term thereof and thereafter until the required drilling operations are commenced upon the land covered thereby or some portion of such land is included within a participating area.

16. CONSERVATION: Operations hereunder and production of unitized substances shall be conducted to provide for the most economical and efficient recovery of said substances without waste, as defined by or pursuant to State or Federal law or regulation.

17. DRAINAGE: The Unit Operator shall take appropriate and adequate measures to prevent drainage of unitized substances from unitized land by wells on land not subject to this agreement or pursuant to applicable regulations pay a fair and reasonable compensatory royalty as determined by the Supervisor for Federal land or as approved by the Commissioner as to State land.

18. LEASES AND CONTRACTS CONFORMED AND EXTENDED: The terms, conditions and provisions of all leases, subleases, and other contracts relating to exploration, drilling, development or operation for oil or gas of lands committed to this agreement are hereby expressly modified and amended to the extent necessary to make the same conform to the provisions hereof, but otherwise to remain in full force and effect, and the parties hereto holding interests in leases embracing unitized land of the United States or of the State of New Mexico hereby consent that the Secretary of the Interior, hereinafter referred to as "Secretary", and the Commissioner, respectively, shall, and said Secretary and Commissioner or their duly authorized representatives by their approval of this agreement do, hereby establish, alter, change or revoke the drilling, producing, rental minimum royalty, and royalty requirements of such leases committed hereto and the regulations in respect thereto, to conform said requirements to the provisions of this agreement, and, without limiting the generality of the foregoing, all leases, subleases and contracts are particularly modified in accordance with the following:

(a) The development and operation of lands subject to this agreement under the terms hereof shall be deemed full performance of all obligations for development and operation with respect to each and every part or separately owned tract subject to this agreement, regardless of whether there is any development of any particular part or tract of the unit area, notwithstanding anything to the contrary in any lease, operating agreement or other contract by and between the parties hereto, or their respective predecessors in interest, or any of them.

(b) Drilling and producing operations performed hereunder upon any tract of unitized lands will be accepted and deemed to be performed upon and for the benefit of each and every tract of unitized land, and no lease shall be deemed to expire by reason of failure to produce wells situated on land therein embraced.

(c) Suspension of drilling or producing operations on all unitized lands of the United States pursuant to direction or consent of the Secretary or his duly authorized representative, and on all unitized lands of the State of New Mexico pursuant to direction or consent of the Commissioner or his duly authorized representative, shall be deemed to constitute such suspension pursuant to such direction or consent as to each and every tract of unitized land.

(d) Each lease, sublease or contract relating to the exploration, drilling, development or operation for oil or gas of lands other than those of the United States, committed to this agreement, which by its terms might expire prior to the termination of this agreement, is hereby extended beyond any such term so provided therein so that it shall be continued in full force and effect for and during the term of this agreement.

(e) Any Federal lease for a fixed term of twenty (20) years or any renewal thereof or any part of such lease which is made subject to this agreement shall continue in force beyond the term provided therein until the termination hereof. Any other Federal lease committed hereto shall continue in force beyond the term so provided therein or by law as to the committed land so long as the lease remains committed hereto, provided a valuable deposit of unitized substances is discovered within the unit area prior to the expiration date of the primary term of such lease.

(f) Each sublease or contract relating to the operation and development of unitized substances from lands of the United States committed to this agreement, which by its terms would expire prior to the time at which the underlying lease, as extended by the immediately preceding paragraph, will expire, is hereby extended beyond any such term so provided therein so that it shall be continued in full force and effect for and during the term of the underlying lease as such term is herein extended.

19. COVENANTS RUN WITH LAND: The covenants herein shall be construed to be covenants running with the land with respect to the interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance, of interest in land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder by the grantee, transferee, or other successor in interest. No assignment or transfer of any working, royalty or other interest

subject hereto shall be binding upon Unit Operator until the first day of the calendar month after Unit Operator is furnished with the original, photostatic or certified copy of the instrument of transfer.

20. EFFECTIVE DATE AND TERM: This agreement shall become effective upon approval by the Secretary and the Commissioner or their duly authorized representatives and shall remain in effect so long as unitized substances can be produced from the unitized land in paying quantities, and, should production cease, so long thereafter as diligent operations are in progress for the restoration of production or discovery of new production and so long thereafter as the unitized substances so discovered can be produced as aforesaid, or it is terminated as provided in Section 6 or Section 9 hereof.

This agreement may be terminated at any time by not less than 75 per centum, on an acreage basis, of the owners of working interests signatory hereto, with the approval of the Director and the Commissioner.

21. RATE OF PROSPECTING, DEVELOPMENT, AND PRODUCTION: The Director or Commissioner is hereby vested with authority to alter or modify from time to time in his discretion the quantity and rate of production under this agreement when such quantity and rate is not fixed pursuant to Federal or State law or does not conform to any state-wide voluntary conservation or proration program which, prior to the date of this agreement, is established, recognized, and generally adhered to by the majority of operators in such State, such authority being hereby limited to alteration or modification in the public interest, the purpose thereof and the public interest to be served thereby to be stated in the order of alteration or modification. Without regard to the foregoing the Director is also hereby vested with authority to alter or modify from time to time, in his discretion, the rate of prospecting and development and, within the limits made or fixed by the Commission, to alter or modify the quantity and rate of production under this agreement when such alteration or modification is in the interest of attaining the conservation objectives stated in this agreement; provided further that no such alteration or modification shall be effective as to any land of the State of New Mexico as to the rate of prospecting and development in the absence of the specific written approval thereof by the Commissioner and as to any lands of the State of New Mexico or privately-owned lands subject to this agreement as to the

quantity and rate of production in the absence of specific written approval thereof by the Commission.

22. CONFLICT OF SUPERVISION: Neither the Unit Operator nor the working interest owners nor any of them shall be subject to any forfeiture, termination, or expiration of any rights hereunder or under any leases or contracts subject hereto, or to any penalty or liability for delay or failure in whole or in part to comply therewith to the extent that the said Unit Operator, working interest owners or any of them are hindered, delayed, or prevented from complying therewith by reason of failure of the Unit Operator to obtain with the exercise of due diligence the concurrence of the representatives of the United States and the representatives of the State of New Mexico in and about any matters or thing concerning which it is required herein that such concurrence be obtained. The parties hereto, including the Commission, agree that all powers and authority vested in the Commission in and by any provisions of this contract are vested in the Commission and shall be exercised by it pursuant to the provisions of the laws of the State of New Mexico and subject in any case to appeal or judicial review as may now or hereafter be provided by laws of the State of New Mexico.

23. APPEARANCES: Unit Operator shall, after notice to other parties affected, have the right to appear for or on behalf of any and all interests affected hereby before the Department of the Interior and to appeal from orders issued under the regulations of said Department or to apply for relief from any of said regulations or in any proceedings relative to operations before the Department of the Interior or any other legally constituted authority; provided, however, that any other interested party shall also have the right at his own expense to be heard in any such proceeding.

24. NOTICES: All notices, demands or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if given in writing and personally delivered to the party or sent by postpaid registered mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party may have furnished in writing to party sending the notice, demand or statement.

25. NO WAIVER OF CERTAIN RIGHTS: Nothing in this agreement contained shall be construed as a waiver by any party hereto of the right to assert any legal or constitutional right or defense as to the validity or invalidity of any law of the State wherein said unitized lands are located, or of the United States, or regulations issued thereunder in any way affecting such party, or as a waiver by any such party of any right beyond his or its authority to waive.

26. UNAVOIDABLE DELAY: All obligations under this agreement requiring the Unit Operator to commence or continue drilling or to operate on or produce unitized substances from any of the lands covered by this agreement shall be suspended while, but only so long as, the Unit Operator despite the exercise of due care and diligence is prevented from complying with such obligations, in whole or in part, by strikes, acts of God, Federal, State, or municipal law or agencies, unavoidable accidents, uncontrollable delays in transportation, inability to obtain necessary materials in open market, or other matters beyond the reasonable control of the Unit Operator whether similar to matters herein enumerated or not.

27. FAIR EMPLOYMENT: The Unit Operator shall not discriminate against any employee or applicant for employment because of race, creed, color, or national origin, and an identical provision shall be incorporated in all sub-contracts.

28. LOSS OF TITLE: In the event title to any tract of unitized land or substantial interest therein shall fail and the true owner cannot be induced to join this unit agreement, so that such tract is not committed to this unit agreement, or the operation thereof hereunder becomes impractical as a result thereof, such tract may be eliminated from the unitized area and there shall be such readjustment of future costs and benefits as may be required on account of the loss of said acreage. In the event of a dispute as to title as to any royalty, working, or other interests subject thereto, the Unit Operator may withhold payment or delivery on account thereof without liability for interest until the dispute is finally settled: provided, that, as to Federal and State land or leases, no payments of funds due the United States or the State of New Mexico shall be withheld, but such funds shall be deposited with the Bureau of Land Management or as directed by the Supervisor

and with the Commissioner of Public Lands of the State of New Mexico, respectively, to be held as unearned money pending final settlement of the title dispute, and then applied as earned or returned in accordance with such final settlement.

Unit Operator as such is relieved from any responsibility for any defect or failure of any title hereunder.

29. NON-JOINDER AND SUBSEQUENT JOINDER: If the owner of any substantial interest in a tract within the unit area fails or refuses to subscribe or consent to this agreement, the working interest owner in that tract may withdraw said tract from this agreement by notice to the Director, the Commissioner, the the Unit Operator prior to the approval of this agreement by the Director and the Commissioner. Any oil or gas interests in lands within the unit area not committed hereto prior to submission of this agreement for final approval may thereafter be committed hereto by the owner or owners of such rights subscribing or consenting to this agreement and, if such owner is also a working interest owner, by subscribing to the Unit Operating Agreement. It is understood and agreed, however, that after operations are commenced hereunder, the right of subsequent joinder, as provided in this section, by a working interest owner is subject to such requirements, if any, pertaining to such joinder, as may be provided for in the Unit Operating Agreement, and it is also understood and agreed that after discovery of unitized substances in paying quantities hereunder, a subsequent joinder by a non-working interest owner must be consented to by the working interest owner responsible for the payment of any benefits that may accrue hereunder in behalf of such non-working interest. A subsequent joinder shall be effective as of the first day of the month following the filing with the Supervisor and the Commissioner of duly executed counterparts of all or any papers necessary to establish effective commitment of any tract to this agreement unless objection to such joinder is duly made within 60 days by the Director or Commissioner.

30. COUNTERPARTS: This agreement may be executed in any number of counter parts no one of which needs to be executed by all parties or may be ratified or consented to by separate instrument in writing specifically referring hereto and shall be binding upon all those parties who have executed

such a counterpart, ratification, or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above-described unit area.

31. SURRENDER: During the life of this agreement, no right to surrender any lease or operating agreement reserved in any such instrument shall be exercised as to any lands within a participating area established pursuant to this agreement. There shall be no restriction on the right to surrender any lease or operating agreement embracing nonparticipating lands if that right is reserved in such instrument, subject, however, to the conditions hereinafter prescribed: (a) if a lease or portion thereof embracing nonparticipating lands is terminated as a result of a surrender to the lessor such lands shall not be deemed committed to this agreement unless and until such lands are recommitted hereto by an agreement with the Unit Operator; (b) if operating rights are surrendered to a lessee said lessee shall have the right to become a party to a unit accounting agreement with the Unit Operator, effective as of the date of such surrender, or may with the consent of the lessor withdraw such lease from the unit agreement and operate such lease independently but in accord with the conservation provisions of the unit agreement, provided, that if neither of these alternatives is adopted within a period of six months following the effective date of surrender, the lease shall automatically terminate as to the lands remaining in the unit area.

32. TAXES: The working interest owners shall render and pay for their account and the account of the royalty owners all valid taxes on or measured by the unitized substances in and under or that may be produced, gathered and sold from the land subject to this contract after the effective date of this agreement, or upon the proceeds or net proceeds derived therefrom. The working interest owners on each tract shall and may charge the proper proportion of said taxes to the royalty owners having interests in said tract, and may currently retain and deduct sufficient of the unitized substances or derivative products, or net proceeds thereof from the allocated share of each royalty owner to secure reimbursement for the taxes so paid. No such taxes shall be charged to the United States or the State of New Mexico or to any lessor who has a contract with his lessee which requires the lessee to pay such taxes.

33. NO PARTNERSHIP: It is expressly agreed that the relation of the parties hereto is that of independent contractors and nothing in this agreement contained, expressed or implied, nor any operations conducted hereunder, shall create or be deemed to have created a partnership or association between the parties hereto or any of them.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed and have set opposite their respective names the date of execution.

UNIT OPERATOR AND WORKING INTEREST OWNER
STANOLIND OIL AND GAS COMPANY

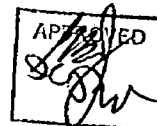
ATTEST:

DATE:

[Signature] 5-3-51
Assistant Secretary

By

[Signature]
Vice-President



WORKING INTEREST OWNERS

ATTEST:

DATE:

KUTZ CANON OIL & GAS CO.

[Signature] 7-7-51
Assistant Secretary

By

[Signature]
Vice-President

Address: 210 U.S. Nat'l Bldg.
Denver, Colo

ATTEST:

DATE:

KUTZ DEEP TEST INC

[Signature] 7-7-51
Secretary

By

[Signature]
President

Address: 210 U.S. Nat'l Bldg.
Denver, Colo

DATE:

EL PASO NATURAL GAS COMPANY

8-6-51

By

[Signature]
Vice President

ATTEST:

[Signature]
Assistant Secretary

Address: 1010 Bassett Tower
El Paso, Texas

WORKING INTEREST OWNERS

Address: _____

Attest:

Address: _____

Address: _____

NATIONAL STANDARD BLDG.
HOUSTON, TEXAS

Address: _____

Attest:

Address: _____

Address: 1110 Tower Petr. Bldg.
Dallas, Texas

BIG CHIEF WESTERN DRILLING CORP.
Address: 620 ARD'S BUILDING
SHREVEPORT, LOUISIANA

Attest:

Address: _____

Charles F. Hayes - Secy

Address: _____

Attest:

Address: _____

Address: 1110 TOWER PETROLEUM BUILDING
DALLAS, TEXAS

Address: 1110 TOWER PETROLEUM BUILDING

Address: DALLAS, TEXAS

Attest:

Address: _____

Address: Burt Bldg
Dallas, Texas

Attest:

Address: _____

Address: Burt Building
Dallas, Texas

Attest:

Address: _____

Address: Burt Bldg.
Dallas, Texas

Attest:

Address: _____

Address: Burt Bldg
Dallas, Texas

Address: _____

Address: _____

WESTERN NATURAL GAS COMPANY

AUG 8 1951

J. V. COWAN, VICE PRESIDENT

BYRD-FROST, INC.

By

Jacob Frost

Vice-Pres.

BIG CHIEF WESTERN DRILLING CORP.

By: H. Z. Lowrey - Pres.

FOUR CORNERS OIL CORP.

By: K. M. Wilson

Vice-Pres.

Jacob Frost

SOUTHERN UNION GAS CO.

J. C. Stewart

Vice President

AZTEC OIL & GAS COMPANY

J. C. Stewart

Vice President

ANGELS PEAK OIL CO.

Ben Hughes

President

CONGRESS OIL CO.

Ben Hughes

President

ROYALTY INTEREST OWNERS

[illegible]

STATE OF Oklahoma
COUNTY OF Delaware

On this 3rd day of May, 1951, before me appeared A. L. Halliday, to me personally known, who, being by me duly sworn, did say that he is the Vice President of Shawnee Oil and Gas Company and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said A. L. Halliday acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 3rd day of May, 1951.

My Commission Expires September 30, 1951

Leone J. Rappely
Notary Public

City and STATE OF Colorado
COUNTY OF Denver

On this 7th day of July, 1951, before me appeared A. G. Meyer, to me personally known, who, being by me duly sworn, did say that he is the President of Rutz Canyon Oil & Gas Co. and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said A. G. Meyer acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 7th day of July, 1951.

My Commission expires:

March 1-1953

Margaret Stepp
Notary Public

City and STATE OF Colorado
COUNTY OF Denver

On this 7th day of July, 1951, before me appeared A. G. Meyer, to me personally known, who, being by me duly sworn, did say that he is the President of Rutz Deep Test Inc. and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said A. G. Meyer acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 7th day of July, 1951.

My Commission expires:

March 1-1953

Margaret Stepp
Notary Public

STATE OF Texas
COUNTY OF El Paso

On this 6th day of August, 1951, before me appeared C. L. Perkins, to me personally known, who, being by me duly sworn, did say that he is the Vice President of El Paso Natural Gas Company and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said C. L. Perkins acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 6th day of August, 1951.

My Commission expires:

June 1, 1953

Robert E. Haysen
Notary Public

STATE OF Texas
COUNTY OF HARRIS

On this 8th day of August, 1951, before me appeared J.V. Cowan, to me personally known, who, being by me duly sworn, did say that he is the Vice President of WESTERN NATURAL GAS COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said J.V. Cowan acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 8th day of August, 1951.

My Commission expires:

ROBERT E. JINKS
Notary Public in and for Harris County, Texas
My Commission Expires June 1, 1953

Robert E. Jinks
Notary Public

STATE OF Texas
COUNTY OF Dallas

On this 13th day of Aug., 1951, before me appeared Jack Frost, to me personally known, who, being by me duly sworn, did say that he is the Vice President of Byrd-Frost, Inc. and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Jack Frost acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 13th day of Aug., 1951.

My Commission expires:

NAOMA WILLIAMS
Notary Public, Dallas County, Texas
My Commission Expires June 1, 1953

Naoma Williams
Notary Public

STATE OF Louisiana
COUNTY OF Caddo
Marsh

On this 29th day of June, 1951, before me appeared H. S. Lowmy, to me personally known, who, being by me duly sworn, did say that he is the President of BIG CHIEF WESTERN DRILLING CORP. and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said H. S. Lowmy acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 29th day of June, 1951.

My Commission expires:

is for life.

STATE OF Texas
COUNTY OF Dallas

On this 13 day of Sept., 1951, before me appeared K.M. Willson, to me personally known, who, being by me duly sworn, did say that he is the Vice President of FOUR CORNERS OIL CORP. and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said K.M. Willson acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 13 day of Sept., 1951.

My Commission expires:

NAOMA WILLIAMS
Notary Public, Dallas County, Texas
My Commission Expires June 1, 1953

Naoma Williams
Notary Public

STATE OF TEXAS
COUNTY OF DALLAS

On this 27th day of September, 1951, before me appeared J. O. Reid, to me personally known, who, being by me duly sworn, did say that he is the Vice President of Southern Union Gas Company and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said J. O. Reid acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 27th day of September, 1951.

My Commission expires:

June 1, 1953

Mary M. Green
Notary Public

STATE OF TEXAS
COUNTY OF DALLAS

On this 27th day of September, 1951, before me appeared J. O. Reid, to me personally known, who, being by me duly sworn, did say that he is the Vice President of Artes Oil & Gas Company and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said J. O. Reid acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 27th day of September, 1951.

My Commission expires:

June 1, 1953

Mary M. Green
Notary Public

STATE OF TEXAS
COUNTY OF DALLAS

On this 27th day of September, 1951, before me appeared Scott Hughes, to me personally known, who, being by me duly sworn, did say that he is the President of Angelo Park Oil Company and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Scott Hughes acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 27th day of September, 1951.

My Commission expires:

June 1, 1953

John Woodard
Notary Public

STATE OF TEXAS
COUNTY OF DALLAS

On this 27th day of September, 1951, before me appeared Scott Hughes, to me personally known, who, being by me duly sworn, did say that he is the President of Congress Oil Company and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Scott Hughes acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 27th day of September, 1951.

My Commission expires:

June 1, 1953

John Woodard
Notary Public

(New Mexico)

STATE OF Texas)

COUNTY OF Hall)

On this 13 day of Sept., 1951, before me personally appeared

to me known to be the person Jack Frost described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 13 day of Sept., 1951.

My Commission expires:

NAOMA WILLIAMS

Notary Public, Dallas County, Texas

~~My Commission Expires June 1, 1953~~

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 19____, before me personally appeared

to me known to be the person _____ described in and who executed and delivered the foregoing instrument, and acknowledged to me that _____ executed the same as _____ free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 19____.

My Commission expires:

Notary Public

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 19____, before me personally appeared

to me known to be the person _____ described in and who executed and delivered the foregoing instrument, and acknowledged to me that _____ executed the same as _____ free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 19____.

My Commission expires:

Notary Public

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 19____, before me personally appeared

to me known to be the person _____ described in and who executed and delivered the foregoing instrument, and acknowledged to me that _____ executed the same as _____ free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 19____.

My Commission expires:

Notary Public

STATE OF _____)

COUNTY OF _____)

On this _____ day of _____, 19____, before me personally appeared

to me known to be the person _____ described in and who executed and delivered the foregoing instrument, and acknowledged to me that _____ executed the same as _____ free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 19____.

My Commission expires:

Notary Public

R. 10 W.

T.
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N.

T.
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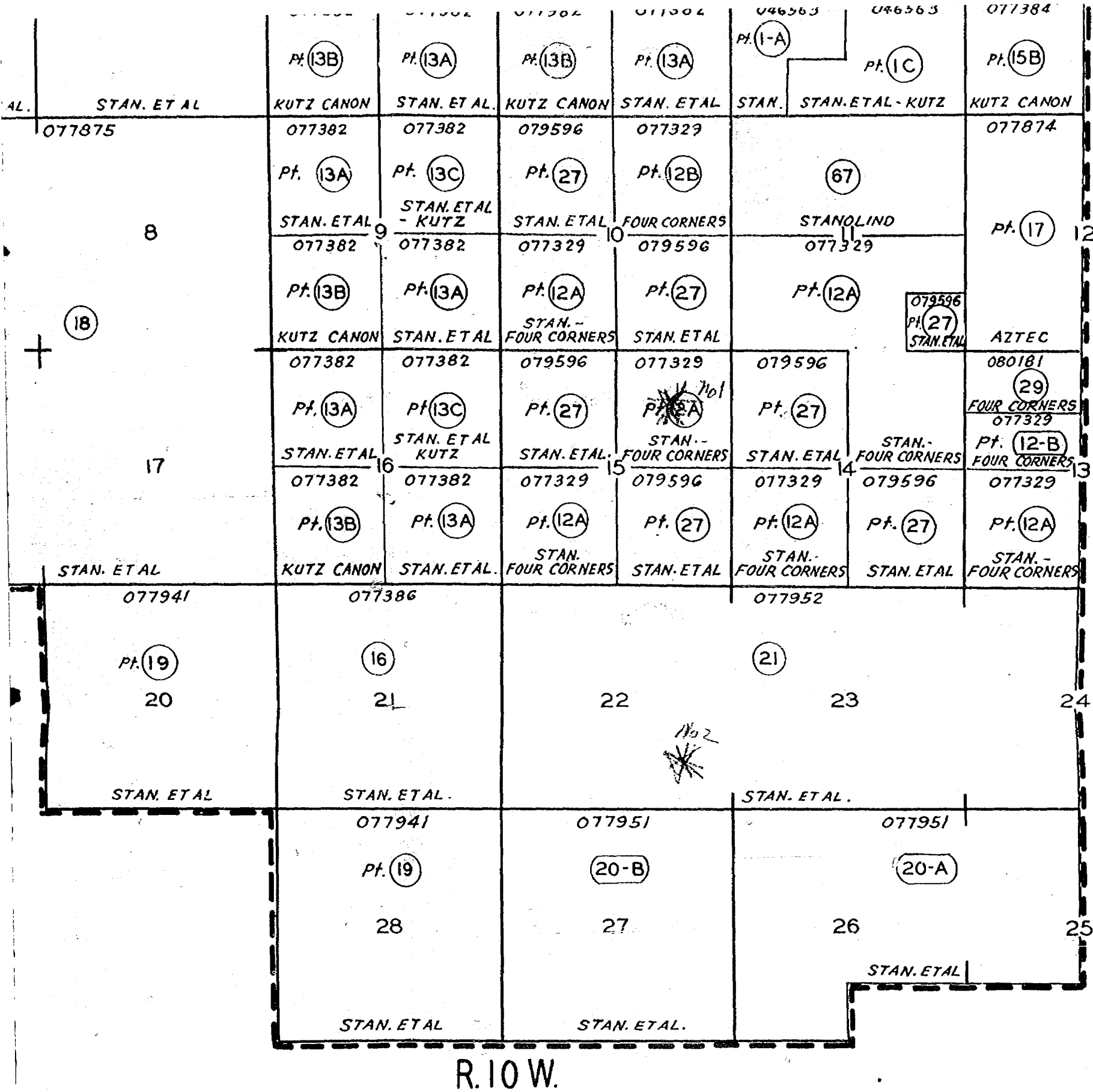
36

R.I.I.W.

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T.
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N.

EXHIBIT "A" TO ACCOMPANY
ANGEL PEAK UNIT AGREEMENT
SAN JUAN COUNTY, NEW MEXICO
SCALE: 2"=1 MILE

TICIPATING AREA

EXHIBIT "B"
SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND
GAS INTERESTS IN ALL LAND IN THE ANGELS PEAK UNIT AGREEMENT

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICANT	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
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FEDERAL LANDS

1.4.	<u>T28N-R10W</u>						
	Sec. 32-NW/4, SW/4 SW/4 SE/4	850.00	046563	USA 12 3/4%	Fred Feasel	None	Stanolind (1/2) 43.7500 Byrd-Frost (3/16) 16.4063 Western Nat. Gas (1/4 oil) 21.8750 El Paso Nat. Gas (1/4 gas) 5.4687 P. B. English (1/16)
	Sec. 33-SE/4		12-31-38				
	Sec. 34-NW/4, and SE/4						
B.	<u>T27N-R10W</u>						
	Sec. 2-S/2 NE/4, N/2 SW/4, SW/4 SW/4						
	Sec. 3-Lot 1	360.68			Fred Feasel	None	Kutz Canon 87.5000
	<u>T28N-R10W</u>						
C.	Sec. 32-SW/4						
	Sec. 34-SW/4						
	<u>T27N-R10W</u>						
	Sec. 2-Lots 3, 4, S/2 NW/4, SE/4, SE/4 SW/4	681.38			Fred Feasel	None*	Kutz Canon 87.5000*
	<u>T28N-R10W</u>						
	Sec. 33-NE/4						Stanolind (1/2) 42.2500** Byrd-Frost (3/16) 15.8437** El Paso Nat. Gas (1/4) 21.1250** P. B. English (1/16) 5.2813**
	Sec. 34-NE/4						

* All rights below the Mesa Verde.
 ** Rights between the base of the Pictured Cliffs and the base of the Mesa Verde.

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
D.	T28N-R10W Sec. 32-N/2 SE/4, SE/4 SE/4, E/2 SW/4 SE/4, NW/4 SW/4 SE/4 Sec. 33-NW/4, SE/4 SW/4	350.00		Fred Feasel	Fred Feasel - 7 $\frac{1}{2}$ %	Stanolind (1/2) Byrd-Frost (3/16) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) P. B. English (1/16)	40.0000 15.0000 20.0000 5.0000
E.	Sec. 32-NE/4	160.00		Fred Feasel	Fred Feasel - 7 $\frac{1}{2}$ %**	Kutz Canon	80.0000*
F.	Sec. 33-N/2 SW/4, SW/4 SW/4	120.00		Fred Feasel	Fred Feasel - 7 $\frac{1}{2}$ %	Kutz Canon	80.0000
2.	T28N-R11W Sec. 12-Lot 1, SE/4 SE/4 Sec. 13-E/2 E/2 Sec. 24-E/2 E/2 Sec. 25-E/2 E/2	543.19	047017-B 11-15-35	USA 12 $\frac{1}{2}$ %	Angels Peak Oil Co.	None	Angels Peak 67.5000
3.	T29N-R11W Sec. 25-S/2 SE/4	80.00	047020-B 5-11-31	USA 12 $\frac{1}{2}$ %	Congress Oil Co.	None	Congress 87.5000

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TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OPERATING AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST	
4.A.	<u>T28N-R10W</u> Sec. 20-SE/4	160.00	047039-A 8-22-39	USA 5%	Kutz Canon Oil and Gas Company	Alta Day Lachman 7 3/8% Kutz Canon 3%** (Plus Oil Payment of \$20.00 per acre out of 1/3 of 7/8)	Kutz Canon Stanolind (1/2) Byrd-Frost (3/16) El Paso Nat. Gas (1/4) P. B. English (1/16)	80.0000* 38.5000** 14.4375** 19.2500** 4.8125**
B.	<u>T28N-R10W</u> Sec. 20-E/2 NW/4, SW/4 NW/4, SW/4 SW/4	160.00			Kutz Canon Oil and Gas Company	Alta Day Lachman 7 3/8%	Kutz Canon	80.0000
C.	Sec. 20-NE/4, N/2 SW/4, SE/4 SW/4	280.00			Kutz Canon Oil and Gas Company	Alta Day Lachman 7 3/8% Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16)	40.0000 20.0000 15.0000 5.0000	
5.A.	Sec. 7-Lots 1,2, S/2 SE/4 Sec. 8-Lots 3,4, S/2 SW/4 Sec. 17-NW/4, SE/4 Sec. 18-N/2 SE/4, SE/4 SE/4	696.11	047039-B 9-19-50	USA 12 3/8%	Kutz Canon Oil and Gas Company	Alta Day Lachman 2 3/8% Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16)	42.5000 21.2500 15.9375 5.3125	
B.	Sec. 8-Lots 1,2, S/2 SE/4 Sec. 17-SW/4	287.74			Kutz Canon Oil and Gas Company	Alta Day Lachman 2 3/8% Kutz Canon 3%** (Plus Oil Payment of \$20.00 per acre out of 1/8 of 7/8)	Kutz Canon Stanolind (1/2) Byrd-Frost (3/16) El Paso Nat. Gas (1/4) P. B. English (1/16)	85.0000* 41.0000** 15.3750** 20.5000** 5.1250**

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TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OR ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
C.	Sec. 17-NE/4 Sec. 18-NE/4 Sec. 20-NW/4 NW/4	360.00			Kutz Canon Oil and Gas Company	Alta Day Lachman 2 2/3%	Kutz Canon
6.	Sec. 7-Lots 3, 4, 5, SE/4 SW/4 Sec. 18-Lots 1, 2, 3, 4, E/2 W/2, SW/4 SE/4	497.86	047039-C 8-22-39	USA. 12 2/3%	Congress Oil Co.	Reese P. Fullerton & Alta Day Lachman 2 2/3% Kutz Canon 5 2/3%	Congress Oil Co.
7.	Sec. 19-Lots 1, 2, 3, E/2 NW/4 NE/4 SW/4, E/2	566.52	065546-A 10-26-36	USA. 5%	E. H. Newman	Nick Brink, et al 7 2/3%	aztec
8.	Sec. 19-Lot 4, SE/4 SW/4 Sec. 29-SE/4 NE/4, SW/4 SE/4 NW/4 SW/4 Sec. 30-N/2 N/2, NW/4 SE/4 Sec. 31-NW/4 NE/4, NE/4 SE/4	484.59	065546-B 10-26-36	USA. 12 2/3%	E. H. Newman	None	aztec
9.	Sec. 29-N/2 NW/4, SE/4 NW/4 N/2 NE/4	200.00	077084 11-1-46	USA. 12 2/3%	aztec Oil and Gas Co.	San Juan Basin Pool 2% R. E. Beamon 1/4 of 1% R. A. Johnson 1/4 of 1%	aztec
10.	Sec. 26-W/2 Sec. 35-N/2	640.00	077085 9-1-47	USA 12 2/3%	Delhi Oil Corporation	San Juan Basin Pool 2% C. H. Nye 1/4 of 1% Gladys Watford 6 2/3% R. E. Beamon 1412/2048 of 1% E. R. Richardson 580/2048 of 1% Archer Romero 200/2048 of 1% R. A. Johnson 1280/2048 of 1% Carl Porterfield 500/2048 of 1% E. W. Ingram 100/2048 of 1%	Delhi Oil Corporation

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST	
11.	T28N-R10W Sec. 31-NE/4 NE/4, S/2 NE/4, NW/4 SE/4, S/2 SE/4	240.00	077315 2-1-45	USA 12 3/4%	Stanolind Oil and Gas Western Natural Gas Byrd-Frost, Inc.	None	Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16)	43.7500 21.8750 16.4062 5.4688
12.A	T27N-R10W Sec. 10-SW/4 Sec. 11-SW/4, SW/4 SE/4, N/2 SE/4 Sec. 13-SW/4 Sec. 14-NE/4, SW/4 Sec. 15-NE/4, SW/4	1240.00	077329 2-1-45	USA 12 3/4%	Stanolind Four Corners	Eva E. Martin - 12 3/4%	Stanolind Four Corners	37.5000 37.5000
B.	Sec. 10-NE/4 Sec. 13-S/2 NW/4	240.00			Four Corners	Eva E. Martin - 12 3/4%	Four Corners	75.0000
13.A.	Sec. 3-Lots 3,4, S/2 NW/4, SE/4 Sec. 4-Lot 4, S/2 NW/4, SE/4 Sec. 9-NW/4, SE/4 Sec. 16-NW/4, SE/4	1241.52	077382 1-1-44	USA 12 3/4%	R. P. Hargrave	R. P. Hargrave 2% ✓	Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16)	42.7500 21.3750 16.0313 5.3437
B.	Sec. 3-Lot 2, S/2 NE/4, SW/4 Sec. 4-Lots 1,2,S/2 NE/4, SW/4 Sec. 9-SW/4 Sec. 16-SW/4	921.49			R. P. Hargrave	R. P. Hargrave 2% ✓	Kutz Canon	85.5000

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
C.	Sec. 9-NE/4 Sec. 16-NE/4	320.00			R. P. Hargrave	R. P. Hargrave 2%*** Kutz Canon 3%*** (Plus Oil Payment of \$20.00 per acre out of 1/8 of 7/8)	Kutz Canon Stanolind (1/2) Byrd-Frost (3/16) El Paso (1/4) P. B. English (1/16) 41.2500** 15.4688** 20.6250** 5.1562**
D.	Sec. 4-Lot 3	40.51			R. P. Hargrave	R. P. Hargrave 2% Kutz Canon (1/2) Byrd-Frost (5/16) Western Nat. Gas (1/8 oil) El Paso Nat. Gas (1/8 gas) P. B. English (1/16)	42.7500 26.7187 10.6875 5.3438
14..4.	<u>T28N-R10W</u> Sec. 21-NE/4 NE/4	40.00	077383 1-1-44	USA 12 3/4% to 32% sliding scale	Kutz Deep Test Inc.	Frances Cooper) Hartman) 1/4 of 2% F. J. Kaspar) each Wm. J.A. Scott) each Jean Davidson) Yocum) 1/8 of 2% Dorothy Cholson) each Kutz Canon 3%*** (Plus Oil Payment of \$20.00 per acre out of 1/8 of 7/8)	Kutz Deep Test (Subject to USA sliding royalty) Stanolind (1/2) Byrd-Frost (3/16) El Paso (1/4) P. B. English (1/16) (Subject to USA sliding royalty) 85.5000* 41.2500** 15.4688** 20.6250** 5.1562**

* All rights below the Mesa Verde.
** Rights between the base of the Pictured Cliffs and the base of the Mesa Verde.

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TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown)	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICANT	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OPERATING AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
B.	<u>T28N-R10W</u> Sec. 21-W/2 NE/4, SE/4 NE/4 Sec. 22-NE/4 Sec. 27-NE/4 Sec. 28-NE/4	600.00		USA 12 3/4 %	Kutz Deep Test Inc.	Same as Tract 14.A.	Kutz Deep Test Stanolind (1/2) Byrd-Frost (3/16) El Paso (1/4) P. B. English (1/16) 41.2500** 15.4688** 20.6250** 5.1562**
C.	<u>T28N-R10W</u> Sec. 21-NW/4, SE/4 Sec. 22-S/2 NW/4, SE/4 Sec. 27-NW/4, SE/4 Sec. 28-NW/4, SE/4	1200.00		USA 12 3/4 %	Kutz Deep Test Inc.	Frances Cooper Hartman 1/4 of 2% F. J. Kaspar 1/4 of 2% Wm. J. A. Scott 1/4 of 2% Jean Davidson Yocum 1/8 of 2% Dorothy Gholson 1/8 of 2%	Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16) 42.7500 21.3750 16.0313 5.3437
D.	Sec. 22-N/2 NW/4	80.00		USA 12 3/4 % to 32% sliding scale	Kutz Deep Test Inc.	Same as Tract 14.C.	Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16) (Subject to USA sliding royalty) 42.7500 21.3750 16.0312 5.3437
E.	Sec. 21-SW/4 Sec. 27-SW/4 Sec. 22-SW/4 Sec. 28-SW/4	640.00		USA 12 3/4 %	Kutz Deep Test Inc.	Same as Tract 14.C.	Kutz Deep Test 87.5000

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TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown)	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST	
15.A.	T27N-R10W Sec. 6-Lots 1,2,S/2 NE/4	160.51	077384 1-1-44	USA 12½%	Madeleine N. Galt	Madeleine N. Galt 2½% Kutz Canon 3%* (Plus Oil Payment of \$20.00 per acre out of 1/8 of 7/8)	Kutz Canon Stanolind (1/2) Byrd-Frost (3/16) El Paso (1/4) P. B. English (1/16)	85.5000* 41.2500** 15.4688** 20.6250** 5.1562**
B.	T27N-R10W Sec. 1-SW/4 Sec. 6-Lots 6,7, E/2 SW/4	325.89			Madeleine N. Galt	Madeleine N. Galt 2%	Kutz Canon	85.5000
C.	Sec. 1-Lots 3,4, S/2 NW/4 Sec. 6-Lots 3,4,5, SE/4 NW/4, SE/4	486.43			Madeleine N. Galt	Madeleine N. Galt 2%	Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16)	42.7500 21.3750 16.0313 5.3437
16.	Sec. 21-A11	640.00	077386 1-7-44	USA 12½%	Stanolind Oil & Gas Wm. B. Hardie Byrd-Frost	J. J. Hudson 1% Edward J. Johnson 2%	Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16)	42.2500 21.1250 15.8438 5.2812
17.	Sec. 2-Lots 1 and 2 Sec. 12-W/2	401.26	077874 4-1-48	USA 12½%	Aztec Oil & Gas Co.	Sunshine Royalty Co. 2% Dorothy L. Hanks 1/2 of 1%	Aztec	85.0000

* All rights below the Mesa Verde.
 ** Rights between the base of the Pictured Cliffs and the base of the Mesa Verde.

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OPERATING AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST	
18.	Sec. 7-E/2 W/2, E/2 Sec. 8-A11 Sec. 17-A11 Sec. 18-E/2	2080.00	077875 5-1-46	USA 12 $\frac{1}{2}$ %	Stanolind Oil & Gas Western Natural Gas Byrd-Frost, Inc. P. B. English	Pearl O. Pipkin 3%	Stanolind (1/2) Western Nat. Gas (1/2) El Paso Nat. Gas (1/4) Byrd-Frost (3/16) P. B. English (1/16)	42.2500 21.1250 15.8437 5.2813
19.	Sec. 5-Lots 1,2,3,4, S/2 N/2, 1921.84 S/2 Sec. 20-A11 Sec. 28-A11		077941 3-1-48	USA 12 $\frac{1}{2}$ %	Stanolind Oil & Gas Wm. B. Hardie Byrd-Frost, Inc.	Note: O.R.R. interests shown on list attached to last page of this exhibit 3 $\frac{1}{2}$ %	Stanolind (1/2) Western Nat. Gas (1/2) El Paso Nat. Gas (1/4) Byrd-Frost (3/16) P. B. English (1/16)	42.2500 20.6250 15.8438 5.2812
20.A.	T27N-R10W Sec. 26-N/2, N/2 S/2, S/2 S $\frac{1}{2}$ /4 Sec. 25-N $\frac{1}{2}$ /4, N/2 S $\frac{1}{2}$ /4	800.00	077951 2-1-48	USA 12 $\frac{1}{2}$ %	Stanolind Oil & Gas Wm. B. Hardie Byrd-Frost, Inc.	Jack Frost 1% (to be borne Entirely by Byrd-Frost, Inc.)	Stanolind (1/2) Western Nat. Gas (1/2) El Paso Nat. Gas (1/4) Byrd-Frost (3/16) Less O.R.I. P. B. English (1/16)	43.7500 21.8750 15.4062 5.4688
B.	Sec. 27-A11	640.00	077951-A 2-1-48	USA 12 $\frac{1}{2}$ %	Big Chief Western Drilling Wm. B. Hardie Byrd Frost, Inc.	Jack Frost 1% (to be borne Entirely by Byrd-Frost, Inc.)	Stanolind (1/2) Byrd-Frost (3/16) (less 1% O.R.R.) Western Nat. Gas (1/2) El Paso Nat. Gas (1/4) P. B. English (1/16)	43.7500 15.4062 21.8750 5.4688
21.	Sec. 22-A11 Sec. 23-A11 Sec. 24-W/2	1600.00	077952 2-1-48	USA 12 $\frac{1}{2}$ %	Stanolind Oil & Gas Wm. B. Hardie Byrd-Frost, Inc.	J. C. Gordon 1% ✓	Stanolind (1/2) Western Nat. Gas (1/2) El Paso Nat. Gas (1/4) Byrd-Frost (3/16) P. B. English (1/16)	43.2500 21.6250 16.2188 5.4062

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22.	T28N-R11W Sec. 36-E/2 NE/4	80.00	078019 3-1-48	USA 12 $\frac{1}{2}$ % Potash Company of America	Lucille H. Pipkin 5%	Potash Company of America
3.	T29N-R10W Sec. 30-Lot 4	39.95	078674 2-1-48	USA 12 $\frac{1}{2}$ % Tom Bolack	None	Tom Bolack
24.	T28N-R10W Sec. 29-SW/4 NE/4, SW/4 SW/4, 56L.75 E/2 SW/4, NW/4 SE/4, E/2 SE/4	56L.75	078715 11-1-46	USA 12 $\frac{1}{2}$ % Byrd-Frost, Inc.	San Juan Basin Pool 2% Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas)	42.5000 21.2500
25.	Sec. 30-Lots 3,4, S/2 SE/4, NE/4 SE/4, E/2 SW/4	320.00	079508 9-1-47	USA 12 $\frac{1}{2}$ % Delhi Oil Corp.	R. A. Johnson et al. 1/2 of 1% San Juan Basin Pool 2% Delhi Oil Corporation C. H. Nye 1/4 of 1% R. E. Beamon 1412/2048 of 1% D. W. Johnson 2 $\frac{1}{2}$ % E. R. Richardson 580/2048 of 1% Archer Romero 200/2048 of 1% C. A. Porterfield 500/2048 of 1% R. A. Johnson 1280/2048 of 1% E. W. Ingram 100/2048 of 1% Gladys Watford 64% of 7/8	15.9375 5.3125 74.5117
26.	T28N-R10W Sec. 30-Lot 2, SE/4 NW/4, S/2 NE/4 Sec. 29-SW/4 NW/4	202.34	079583 11-1-46	USA 12 $\frac{1}{2}$ % Stanolind Oil & Gas Western Natural Gas Byrd-Frost, Inc.	San Juan Basin Pool 2% Stanolind (1/2) G. T. Lackey 1/2 of 1% Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas)	42.5000 21.2500
					Byrd-Frost (3/16) P. B. English (1/16)	15.9375 5.3125

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27.	T27N-R10W Sec. 10-NW/4, SE/4 Sec. 11-SE/4 SE/4 Sec. 14-NW/4, SE/4 Sec. 15-NW/4, SE/4	1000.00	079596 2-1-45	USA 12 $\frac{1}{2}$ %	Stanolind Oil & Gas Western Natural Gas Byrd-Frost, Inc. P. B. English	None	Stanolind (1/2) Western Nat. Gas (1/4 oil) El Paso Nat. Gas (1/4 gas) Byrd-Frost (3/16) P. B. English (1/16)	43.7500 21.8750 16.4062 5.4688
28.	T28N-R10W Sec. 23-SW/4	160.00	079634 5-1-48	USA 12 $\frac{1}{2}$ %	Robert L. Cooper	None	Robert L. Cooper	87.5000
29.	T27N-R10W Sec. 13-N/2 NW/4	80.00	080181 2-1-45	USA 12 $\frac{1}{2}$ %	Four Corners Oil Corp. Stanolind Oil & Gas	Bruce Arbogast 3%	Four Corners	84.5000
30.	T28N-R10W Sec. 9-Lots 1,2,3,4, S/2 S/2	256.68	080724 8-1-49	USA 12 $\frac{1}{2}$ %	Raymond C. Harrison	None	Raymond C. Harrison	87.5000
31.	Sec. 15-SW/4 Sec. 16-W/2, NE/4, NE/4 SE/4	680.00	080781 1-1-49	USA 12 $\frac{1}{2}$ %	John S. Cain	None	John S. Cain	87.5000
32.	T29N-R10W Sec. 31-Lots 1,2,3,4, E/2 W/2, S/2 NE/4, SE/4	560.00	NM 0702 7-1-50	USA 12 $\frac{1}{2}$ %	J. Harvey Wilson	None	J. Harvey Wilson	87.5000
33.	T28N-R10W Sec. 31-Lots 1,2,3,4, E/2 W/2	329.88	NM 0764 2-1-50	USA 12 $\frac{1}{2}$ %	Walter G. Knauff John L. Brinkman Alec J. Keller	None	Walter G. Knauff (5/8) John L. Brinkman (1/4) Alec J. Keller (1/8)	54.6875 21.8750 10.9375

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. (Santa Fe except as otherwise shown) AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, OPERATING AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
34.	T29N-R10W Sec. 32-N/2 NE/4 Sec. 30-SE/4 SW/4, SW/4 SE/4	160.00	NM 01772 5-1-50	USA 12 $\frac{1}{2}$ %	S. D. Colvin	San Juan Basin Pool 2% S. D. Colvin	85.5000
35.	Sec. 31-N/4 NE/4	40.00	NM 03369 2-1-48	USA 12 $\frac{1}{2}$ %	Southern Union Gas Co.	Tom Bolack 5% Southern Union Gas Co.	82.5000

TOTAL FEDERAL ACREAGE - 27,811.12 acres

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
<u>STATE LANDS</u>							
36.	<u>T29N-R10E</u> Sec. 32-SW/4 SE/4	40.00	B-10644-8 9-10-43	State 12 $\frac{1}{2}$ %	O. C. Beck	None	O. C. Beck 87.500
37.	Sec. 32-SE/4 SE/4	40.00	B-10644-36 9-10-43	State 12 $\frac{1}{2}$ %	Frank J. and Elizabeth Sumser	None	Frank J. and Elizabeth Sumser 87.500
38.	Sec. 32-SW/4 NW/4, SE/4 NW/4; NE/4 SW/4, SW/4 SW/4, NE/4 SW/4	200.00	Unleased				
39.	<u>T28N-R10E</u> Sec. 16-SE/4 SE/4, N/4 SE/4	80.00	E-3149 12-10-49	State 12 $\frac{1}{2}$ %	The Texas Co.	None	The Texas Company 87.500
40.	Sec. 16-SW/4 SE/4	40.00	E-955 8-10-46	State 12 $\frac{1}{2}$ %	Stanolind Oil & Gas	None	Stanolind Oil & Gas 87.500
41.	<u>T29N-R11E</u> Sec. 36-NE/4 SW/4	39.58	B-10644-29 9-10-43	State 12 $\frac{1}{2}$ %	A. J. Flagge	None	A. J. Flagge 87.500
42.	Sec. 36-E/2 SE/4	78.60	E-3149 12-10-49	State 12 $\frac{1}{2}$ %	The Texas Co.	None	The Texas Company 87.500
43.	Sec. 36-W/2 SW/4	78.61	B-10644-28 9-10-43	State 12 $\frac{1}{2}$ %	Gulf Oil Co.	None	Gulf Oil Co. 87.500
44.	Sec. 36-NW/4 SE/4	39.53	E-53-2 1-10-45	State 12 $\frac{1}{2}$ %	C. T. Campbell	None	C. T. Campbell 87.500
45.	Sec. 36-SW/4 NW/4	39.66	B-10644-31 9-10-43	State 12 $\frac{1}{2}$ %	Tri State Oil & Refining Co.	None	Tri State Oil & Refining Co. 87.500

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPL. CATION	OVERRIDE ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
46.	Sec. 36-SW/4 SE/4	39.06	B-11303 6-10-44	State 12 $\frac{1}{2}$ %	The Texas Pacific Coal & Oil Company	None	The Texas Pacific Coal & Oil Company 87.500
47.	Sec. 36-NW/4 NE/4	39.54	B-10644-18 9-10-43	State 12 $\frac{1}{2}$ %	Dr. Jewell Gann	None	Dr. Jewell Gann 87.500
48.	Sec. 36-SE/4 SW/4	39.05	B-10644-14 9-10-43	State 12 $\frac{1}{2}$ %	Harry Cooley	None	Harry Cooley, et ux 87.500
49.	Sec. 36-SE/4 NE/4	39.54	B-10644-13 9-10-43	State 12 $\frac{1}{2}$ %	Geo. M. Trunk	None	Geo. M. Trunk 87.500
50.	Sec. 36-NW/4 NW/4	39.65	B-10644-5 9-10-43	State 12 $\frac{1}{2}$ %	C. S. Hurdle	None	C. S. Hurdle 87.500
51.	Sec. 36-NE/4 NW/4	39.65	B-10644-1 9-10-43	State 12 $\frac{1}{2}$ %	David H. Bell	None	David H. Bell 87.500
52.	Sec. 36-NE/4 NE/4	39.54	OPEN				
53.	Sec. 36-SE/4 NW/4	39.65	OPEN				
54.	Sec. 36-SW/4 NE/4	39.54	OPEN				
55.	T29N-R10W Sec. 32-SE/4 SW/4, NW/4 SE/4, 120.00 NE/4 NW/4	120.00	E-3149 12-10-49	State 12 $\frac{1}{2}$ %	The Texas Co.	None	The Texas Co. 87.500
56.	Sec. 32-SE/4 NE/4	40.00	B-10644-31 9-10-43	State 12 $\frac{1}{2}$ %	Tr. State Oil & Refining Co.	None	Tr. State Oil & Refining Co. 87.500

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	SERIAL NO. AND DATE OF LEASE	LANDOWNERS & PERCENTAGE OF ROYALTY	RECORD OWNER OF LEASE OR APPLICANT	OVERRIDE ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
57.	Sec. 32-SW/4 NE/4	40.00	B-10644-19 9-10-43	State 12 $\frac{1}{2}$ %	Clarence Rupp	None	Clarence Rupp 87.500
58.	Sec. 32-NE/4 SE/4	40.00	B-10644-2 9-10-43	State 12 $\frac{1}{2}$ %	A. H. Applegate	None	A. H. Applegate 87.500

TOTAL STATE ACREAGE ~ 1,271.20 acres

TRACT NO.	DESCRIPTION OF LAND	NO. OF ACRES	ROYALTY OWNERS AND INTEREST	RECORD OWNER OF LEASE OR APPLICATION	OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST	WORKING INTEREST OWNER UNDER OPTION AGREEMENT, LEASE OR ASSIGNMENT AND PERCENTAGE OF INTEREST
<u>PATENTED LANDS</u>						
59.	<u>T29N-R10W</u> Sec. 30-Lot 3	39.65	H. Bruce Sullivan } Marguerite Sullivan } John A. Pierce 6 1/4%	Southern Union Gas Co.	None	Southern Union Gas Co. 87.500 -
60.	Sec. 30-E/2 ⁵ acres of NE/4 SW/4, NW/4 SE/4	65.00	Maude Keyes 12 3/4%	Stanolind Oil & Gas Co.	None	Edward M. Schmidt and Fannie May Schmidt 100.000
61.	Sec. 29-SW/4 SW/4 Sec. 31-NE/4 NE/4 Sec. 32-NW/4 NW/4	120.00	Maude Keyes 12 3/4%	Stanolind Oil & Gas Co.	None	Stanolind Oil & Gas Co. 87.500 -
62.	Sec. 30-W/15 acres of NE/4 SW/4	15.00	J. F. Rogers ✓ 12 3/4%	Stanolind Oil & Gas Co.	None	Stanolind Oil & Gas Co. 87.500 -
63.	Sec. 30-NE/4 SE/4	40.00	A. A. Pinkstaff 12 3/4%	Stanolind Oil & Gas Co.	None	Stanolind Oil & Gas Co. 87.500 -
64.	Sec. 30-W/2 SE/4 SE/4	20.00	Luther Manning ✓ 12 3/4%	Stanolind Oil & Gas Co.	None	Stanolind Oil & Gas Co. 87.500 -
65.	Sec. 30-E/2 SE/4 SE/4	20.00	Heirs of W. A. Reid 12 3/4%	Stanolind Oil & Gas Co.	None	Stanolind Oil & Gas Co. 87.500 -
66.	<u>T29N-R11W</u> Sec. 25-N/2 SE/4	80.00	R. Bruce Sullivan } Marguerite Sullivan } John A. Pierce 6 1/4%	Southern Union Gas Co.	None	Southern Union Gas Co. 87.500 -
67.	<u>T27N-R10W</u> Sec. 11-N/2	320.00	R. Bruce Sullivan } Marguerite Sullivan } TOTAL LANDS IN ANGELS PEAK UNIT - 29,801.97 acres	Stanolind Oil & Gas Co.	None	Stanolind Oil & Gas Co. 87.500 -

R E C A P I T U L A T I O N

Federal Land	27,811.12 acres or 93.3197% of Unit
State Land	1,271.20 acres or 4.2655% of Unit
Patented Land	<u>719.65</u> acres or <u>2.4148%</u> of Unit
Total Number of Acres In Angels Peak Unit	29,801.97 acres or 100.0000% of Unit

TRACT NO.

DESCRIPTION

OVERRIDING ROYALTY OWNERS & PERCENTAGE OF INTEREST

19. Sec. 5-Lots 1,2,3,4, S/2 N/2, S/2
 Sec. 20-All
 Sec. 28-All

J. D. Hancock, undivided .15000 of 449.5/649.5 interest in 3/4 of 1% in 1,921.84 acres
 J. D. Hancock, an undivided .15000 of 449.5/649.5 interest in 5/8 of 1% in 640 acres
 Alfred Corning Clark, an .03334 of 449.5/649.5 interest in 5/8 of 1% in 640 acres
 Paul S. Kerr, undivided .03334 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 W. Beach Day, undivided .03334 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Henry R. Labouisse, undivided .03334 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Alfred Corning Clark, undivided .03334 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Stephen Carlton Clark, Jr. undivided .03333 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Susan Vanderpool Clark, undivided .06666 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Stephen Carlton Clark, undivided .33333 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Edward D. Wells, undivided .00666 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Chas. E. Main, undivided .3334 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Chas. E. Main, undivided .3334 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Arthur E. Palmer, Jr., undivided .02000 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Arthur E. Palmer, undivided .02000 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Geo. Roberts, undivided .02000 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Geo. Roberts, undivided .02000 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Charles J. Mourse, undivided .02000 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Charles J. Mourse, undivided .02000 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Raymond W. Ellis, undivided .01666 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Raymond W. Ellis, undivided .01666 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Harlan M. Ellis, undivided .01666 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Harlan M. Ellis, undivided .01666 of 449.5/649.5 of 5/8 of 1% in 640 acres
 Paul S. Kerr, undivided .03334 of 449.5/649.5 of 5/8 of 1% in 640 acres
 W. Beach Day, undivided .03334 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Henry R. Labouisse, Jr., undivided .03334 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Stephen Carlton Clark, Jr., undivided .03333 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Susan Vanderpool Clark, undivided .06666 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Stephen Carlton Clark, undivided .33333 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 Edward D. Wells, undivided .00666 of 449.5/649.5 of 3/4 of 1% in 1,921.84 acres
 C. V. Lyman - 3/4 of 1% of entire lease
 Ben Dansby, Jr., 3/4 of 1% of entire lease
 J. D. Hancock 100/649.5 of 3/4 of 1% in entire lease
 C. A. McDams - 3/4 of 1% of entire lease
 W. B. Hardie - 1/2 of 1% entire lease (to be borne entirely by El Paso - Western Nat.)

EXHIBIT "C"

Schedule showing allocation of participation
for the Initial Dakota Participating Area in
the Angels Peak Unit Agreement.

1. Lessee: Fred Feasel
 Serial Number: Santa Fe 046563
 Description: SW/4 SE/4 Sec. 33-T28N-R10W
 Amount of Acreage: 40.00
 Percentage of Participation: 11.06378
 Overriding Royalty: None
 Operating Rights: Stanolind Oil and Gas Company 1/2
 Byrd-Frost Inc. 3/16
 Western Natural Gas Company 1/4 (oil only)
 El Paso Natural Gas Company 1/4 (gas only)
 P. B. English 1/16

2. Lessee: Fred Feasel
 Serial Number: Santa Fe 046563
 Description: SE/4 SW/4 Sec. 33-T28N-R10W
 Amount of Acreage: 40.00
 Percentage of Participation: 11.06378
 Overriding Royalty: Fred Feasel-7½%
 Operating Rights: Stanolind Oil and Gas Company 1/2
 Byrd Frost Inc. 3/16
 Western Natural Gas Company 1/4 (oil only)
 El Paso Natural Gas Company 1/4 (gas only)
 P. B. English 1/16

3. Lessee: Fred Feasel
 Serial Number: Santa Fe 046563
 Description: SW/4 SW/4 Sec. 33-T28N-R10W
 Amount of Acreage: 40.00
 Percentage of Participation: 11.06378
 Overriding Royalty: Fred Feasel-7½%
 Operating Rights: Kutz Canon Oil & Gas Company - All

4. Lessee: R. P. Hargrave
Serial Number: Santa Fe 077382
Description: Lot 4, S/2 NW/4 Sec. 4-T27N-R10W
Amount of Acreage: 120.56
Percentage of Participation: 33.34624
Overriding Royalty: R. P. Hargrave - 2%
Operating Rights: Stanolind Oil and Gas Company 1/2
Western Natural Gas Company 1/4 (oil only)
El Paso Natural Gas Company 1/4 (gas only)
Byrd-Frost, Inc. 3/16
P. B. English 1/16
5. Lessee: R. P. Hargrave
Serial Number: Santa Fe 077382
Description: Lot 3, Sec. 4, T27N-R10W
Amount of Acreage: 40.51
Percentage of Participation: 11.20485
Overriding Royalty: R. P. Hargrave-2%
Operating Rights: Kutz Canon Oil & Gas Company 1/2
Byrd-Frost Inc. 5/16
Western Natural Gas Company 1/8 (oil only)
El Paso Natural Gas Company 1/8 (gas only)
P. B. English 1/16
6. Lessee: R. P. Hargrave
Serial Number: Santa Fe 077383
Description: Lot 2, SW/4 NE/4 Sec. 4-27N-10W
Amount of Acreage: 80.47
Percentage of Participation: 22.25757
Overriding Royalty: R. P. Hargrave-2%
Operating Rights: Kutz Canon Oil & Gas Company - All

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____	Name <u>P.B. English</u>
Address _____	Address _____

Name _____	Name _____
Address _____	Address _____

Name _____	Name _____
Address _____	Address _____

STATE OF <u>TEXAS</u>	}	<u>Tracts 1, 4, 5, 11, 13, 14, 15, 16, 18,</u> <u>19, 20, 21, 24, 26, 27.</u>
COUNTY OF <u>DALLAS</u>		

On this 5 day of October, 1951, before me personally appeared P. B. English to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 5 day of October, 1951.

My Commission expires:

STATE OF _____)
COUNTY OF _____)

Leola Cundiff
Notary Public
LEOLA CUNDIFF
Notary Public, Dallas County, Texas
My Commission Expires June 1, 1953

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tracts 4, 5

Name _____	Name <u>Alta Day Lachman</u>
Address _____	Address <u>40 West Berger St</u>
_____	<u>Santa Fe, N.M.</u>
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF New Mexico)
COUNTY OF Santa Fe)

On this 25th day of October, 1951, before me personally appeared Alta Day Lachman to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 25th day of October, 1951.

My Commission expires: June 9, 1955

Reese C. Fullerton
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____ Address _____ _____ _____	Name <u>Reese P. Fullerton</u> Address <u>Santa Fe, N.M.</u> _____ _____
Name _____ Address _____ _____ _____	Name <u>Loretta T. Fullerton</u> Address <u>Santa Fe, N.M.</u> _____ _____
Name _____ Address _____ _____ _____	Name _____ Address _____ _____ _____

STATE OF New Mexico)
 COUNTY OF Santa Fe)

On this 25th day of October, 1951, before me personally appeared Reese P. Fullerton & Loretta T. Fullerton, his wife to me known to be the persons described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 25th day of October, 1951.

My Commission expires:

Jan 14, 1954
 STATE OF _____)
 COUNTY OF _____)

Clara M. Croshaw
 Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

 Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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SIGNATURES AND ADDRESSES

Tract 7

Name <u>Ruth P. Brink</u>	Name _____
Address <u>205 North Behrend</u>	Address _____
<u>Farmington, N.M.</u>	_____
Name <u>Paul Davis Brink</u>	Name _____
Address <u>205 N. Ave. B.</u>	Address _____
<u>Farmington, Texas</u>	_____
Name <u>Chris L. Smith</u>	Name _____
Address <u>202 N. Ave. B.</u>	Address _____
<u>Farmington, Texas</u>	_____

STATE OF NEW MEXICO)
COUNTY OF SAN JUAN)

On this 30 day of October, 1951, before me personally appeared Ruth P. Brink to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 30 day of Oct., 1951.

My Commission expires:
2-27-55

LaVoy W. Burnham
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

STATE OF TEXAS }
COUNTY OF WINKLER } SS

On this 7 day of November, 1951, before me personally appeared Iris L. Smith, to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 7 day of November, 1951.

Bobbie R. Perkins
Notary Public

My commission expires:
June 1, 1953

STATE OF TEXAS }
COUNTY OF WINKLER } SS

On this 7 day of November, 1951, before me personally appeared Paul Irvin Brink, to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 7 day of November, 1951.

Bobbie R. Perkins
Notary Public

My commission expires:
June 1, 1953

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____
Address _____

Name E. H. Newman
Address 3700 Southwestern
Dallas, Texas

Tracts
7 and 8

Name _____
Address _____

Name Raymond C. Harrison
Address 6222 Belmont
Dallas, Texas

Tract
30

Name _____
Address _____

Name _____
Address _____

STATE OF TEXAS)

COUNTY OF DALLAS)

On this 5th day of October, 1951, before me personally appeared E. H. Newman and Raymond C. Harrison to me known to be the person as described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 5th day of October, 1951.

My Commission expires: June 1, 1953

STATE OF _____)
COUNTY OF _____)

53 Conrad L. Harrison
Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tracts 9, 10, 24, 25, 26, 34

ATTEST

~~Name~~ *Lupina Meyer*
Address Secretary

Name _____
Address _____

Name _____
Address _____

Name *San Juan Basin Pool*
Address *3914 - West Eighth Ave.*

By *Amarillo, Texas*
Name *Alice R. Hubbell*
Address President

Name *W.D. Bartlett*
Address Treasurer

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me personally appeared _____ to me known to be the person _____ described in and who executed and delivered the foregoing instrument, and acknowledged to me that _____ executed the same as _____ free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 19____.

My Commission expires:

STATE OF TEXAS)
COUNTY OF POTTER)

Notary Public

On this 23 day of October, 1951, before me appeared ALICE R. HUBBELL, to me personally known, who, being by me duly sworn, did say that he is the _____ President of SAN JUAN BASIN POOL, a co-partnership.

and that the seal affixed to said instrument is the ~~seal~~ seal of said ~~co-partnership~~, and that said instrument was signed and sealed in behalf of said ~~co-partnership~~ by authority of its Board of Directors, and said Alice R. Hubbell acknowledged said instrument to be the free act and deed of said ~~co-partnership~~ co-partnership.

Given under my hand and notarial seal this 23 day of October, 1951.

My Commission expires:

6-1-53

Barbara Brooks
Notary Public
Potter County, Texas.

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Lease 7, 10, 25

Name _____	Name <u>R. E. Benson</u>
Address _____	Address <u>1155 Esperson Blvd.</u>
	<u>Houston 2, Texas</u>
Name _____	Name <u>Alma M. Benson</u>
Address _____	Address <u>1155 Esperson Blvd.</u>
	<u>Houston 2, Texas</u>
Name _____	Name _____
Address _____	Address _____

STATE OF Texas)
COUNTY OF Harris)

On this 24 day of October, 1951, before me personally appeared R. E. Benson and Alma M. Benson, his wife to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 24 day of October, 1951.

My Commission expires: (-1-53)

STATE OF _____)
COUNTY OF _____)

Betty Meade
Notary Public

BETTY MEADE
Notary Public in and for Harris County, Texas

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires: _____

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement of the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

Tracts 10, 25

DELHI OIL CORPORATION Name By <u>Frank A. Schultz</u> Address <u>1315 Pacific Avenue</u> <u>Dallas, Texas</u>	SIGNATURES AND ADDRESSES Vice President	ATTEST <u>[Signature]</u> Secy
---	--	--------------------------------

Name _____
 Address _____

Name _____
 Address _____

STATE OF _____)
 COUNTY OF _____)

On this _____ day of _____, 19____, before me personally appeared _____ to me known to be the person _____ described in and who executed and delivered the foregoing instrument, and acknowledged to me that _____ executed the same as _____ free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 19____.

My Commission expires:

STATE OF Texas)
 COUNTY OF Dallas)

Notary Public

On this 18th day of October, 1951, before me appeared Frank A. Schultz, to me personally known, who, being by me duly sworn, did say that he is the Vice President of Delhi Oil Corporation

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Frank A. Schultz acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 18th day of October, 1951.

My Commission expires:

June 1, 1953

Mary Virginia Lloyd
 Notary Public

Mary Virginia Lloyd

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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SIGNATURES AND ADDRESSES

Name _____ Address _____ _____ _____	Name <u><i>[Signature]</i></u> Address <u>P. O. Box 427</u> <u>Aztec, New Mexico</u> _____ _____
Name _____ Address _____ _____ _____	Name <u><i>Linda Nye</i></u> Address <u>P. O. Box 427</u> <u>Aztec, New Mexico</u> _____ _____
Name _____ Address _____ _____ _____	Name _____ Address _____ _____ _____

STATE OF NEW MEXICO,)
)
 COUNTY OF SAN JUAN.)

On this 2 day of November, 1951, before me personally appeared C. H. NYE and LINDA NYE, his wife to me known to be the persons described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 2 day of Nov., 1951.

My Commission expires:
December 17, 1955

STATE OF _____)
)
 COUNTY OF _____)

Thos. A. King
 Notary Public
 in and for San Juan County,
 New Mexico.

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

 Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement of the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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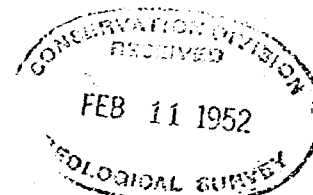
SIGNATURES AND ADDRESSES

Name E. W. Ingram
Address 835 Coppage Bldg
Houston, Texas

Name Mary Doll Ingram
Address 835 Coppage Bldg
Houston, Texas

Name _____
Address _____

STATE OF Texas)
COUNTY OF Harris)



On this 29 day of January, 1952, before me personally appeared E. W. Ingram and Mary Doll Ingram to me known to be the persons described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 29 day of January, 1952.

My Commission expires:
June 1, 1953

STATE OF Texas)
COUNTY OF Harris)

Ann Luckel
Notary Public ANN LUCKEL
Notary Public, in and for Harris County, Texas

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____ Address _____ _____ _____ Name _____ Address _____ _____ _____ Name _____ Address _____ _____ _____	Name _____ Address _____ _____ _____ Name _____ Address _____ _____ _____ Name _____ Address _____ _____ _____
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STATE OF Texas
COUNTY OF Galveston

On this 22nd day of October, 1951 before me personally appeared R. P. Hargrave to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 22nd day of Oct., 19 51

My Commission expires:

June 1, 1953

STATE OF _____
COUNTY OF _____

On this ____ day of _____, 19__, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this day of , 19 .

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 14

Name <u>Mrs Dorothy E. Holman</u>	Name _____
Address <u>Box 208</u>	Address _____
<u>Las Animas, Colo.</u>	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF Colorado)
COUNTY OF Bent)

On this 26 day of Oct, 1951, before me personally appeared Dorothy E. Holman to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 26 day of Oct, 1951

My Commission expires:
Feb 10, 1954

George W. Disher
Notary Public

STATE OF _____)
COUNTY OF _____)

On this ____ day of _____, 19__, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this ____ day of _____, 19__.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 14

Name <u>Frank J. Kauffman</u>	Name _____
Address <u>607 1/2 St. Rocky Fork, Colo</u>	Address _____
Name _____	Name _____
Address _____	Address _____
Name _____	Name _____
Address _____	Address _____

STATE OF Colorado)
COUNTY OF Otero)

On this 8 day of Oct, 1956, before me personally appeared Frank J. Kauffman to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 8 day of Oct, 1956.

My Commission expires:
Oct 1st - 1952.

Marguerite Robin
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Trail 14

Name <u>Frances C. Hartman</u> Address <u>1587 Canada Rd</u> <u>Woodside Calif</u>	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF California
 COUNTY OF San Mateo

On this 16th day of October, 1956 before me personally appeared Frances C. Hartman to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 16th day of Oct., 1956.

My Commission expires:
April 5, 1955

Josephine C. Thorup
 Notary Public

STATE OF _____
 COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

 Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name <u>Jean Davidson Youm</u>	Name _____
Address <u>319 Biene</u>	Address _____
<u>Albuquerque, N. Mex</u>	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF N. Mex
COUNTY OF Bernalillo

On this 25 day of Oct., 1951, before me personally appeared Jean Davidson Youm to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 25 day of Oct., 1951

My Commission expires:
My Commission Expires Oct. 25, 1954

San Dennis
Notary Public

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 14

Name <u>William J. Scott</u>	Name _____
Address <u>22 E. Main St.</u>	Address _____
<u>Grand Central, New York</u>	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF New York)
COUNTY OF Cattaraugus)

On this 24 day of Aug, 1951, before me personally appeared William J. Scott to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 24 day of Aug, 1951

My Commission expires:
March 30, 1952

Quint R. Janbourn
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

Tract 15

SIGNATURES AND ADDRESSES

Name <u>Madeline N. Galt</u>	Name _____
Address <u>P.O. Box 1046</u>	Address _____
<u>Santa Fe N.M.</u>	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF New Mexico)
COUNTY OF Santa Fe)

On this 21 day of August, 1951, before me personally appeared Madeline N. Galt to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 21 day of August, 1951.

My Commission expires:
June 2, 1955

STATE OF _____)
COUNTY OF _____)

Greene P. Fullerton
Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 16

Name _____
Address _____

Name *Edward J. Johnson*
Address *223 Greenbank
Redmont, Calif*

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

STATE OF CALIFORNIA)
COUNTY OF ALAMEDA)

On this 21 day of September, 1951, before me personally appeared Edward J. Johnson to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 21 day of Sept., 1951.

My Commission expires:
9-25-54

Alpho J. Krueger
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

Tract 16

SIGNATURES AND ADDRESSES

Name <u>J. J. Hudson</u>	Name _____
Address <u>Pyramidean Hotel</u>	Address _____
<u>Albuquerque, New Mexico</u>	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF New Mexico)
COUNTY OF Bernalillo)

On this 25th day of September, 1951, before me personally appeared J. J. Hudson to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 25th day of Sept., 1951.

My Commission expires:
March 7, 1954

Richard B. Briggs
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tracts 16, 19, 20, 21

Name _____	Name <u>Emilie M. Hardie</u>
Address _____	Address <u>2717 N. Florence</u>
	<u>El Paso, Texas</u>
Name _____	Name <u>William B. Hardie</u>
Address _____	Address <u>2717 N. Florence</u>
	<u>El Paso, Texas</u>
Name _____	Name _____
Address _____	Address _____

STATE OF Texas
COUNTY OF El Paso

On this 10th day of September, 1951, before me personally appeared William B. Hardie & wife Emilie M. Hardie to me known to be the persons described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 10th day of September 1951.

My Commission expires:
June 1, 1953

Bert Schumacher
Notary Public

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

in the event of any conflict between the provisions of said Unit Agreement and any other agreements, lease or contract, the provisions of said Unit Agreement shall prevail and control. The undersigned, as agent and authorized representative of the undersigned, agrees that the terms of the lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, and that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such lease or other contract.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

tract 17

Name <u>Wm. L. Hanks</u>	Name _____
Address <u>1000 1st St. N.E.</u>	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF Colorado

COUNTY OF Moffat

On this 3rd day of November, 1951, before me personally appeared Deborah L. Hanks to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 3rd day of November 1951.

My Commission expires: _____

My Commission expires: _____

STATE OF _____

COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____ to me personally known who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the act and deed of said corporation.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this _____ day of _____, 19____.

Notary Public in and for the State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES Tract 19
SUSAN VANDERPOEL CLARK

Name _____
Address _____

Name BY 107 Beach Day
Address AS HER ATTORNEY IN FACT
149 Broadway, New York 6, New York

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

STATE OF New York
COUNTY OF New York

On this 27th day of August, 1951, before me personally appeared W. Beach Day as atty-in-fact for Susan Vanderpoel Clark to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of August, 1951.

My Commission expires: ISABEL S. LONGFELLOW Isabel S Longfellow
NOTARY PUBLIC, State of New York Notary Public
No. 31-7592500

STATE OF _____
COUNTY OF _____
Qualified in New York County
Cert. filed in N.Y. Co. Clks. & Reg. Off.
Term Expires March 30, 1952

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____
Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____ Address _____	Name <u>ALFRED CORNING CLARK</u> Address <u>149 Broadway, New York 6, New York</u>
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF New York
COUNTY OF New York

On this 27th day of August, 1951, before me personally appeared Alfred Corning Clark to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of August, 1951.

My Commission expires: _____
ABEL S. LONGFELLOW
 NOTARY PUBLIC, State of New York
 No. 21-7592500

Isabel S. Longfellow
 Notary Public

STATE OF _____
 COUNTY OF _____
 Qualified in New York County
 Cert. filed in N.Y. Co. Clerk & Reg. Of.
 Term Expires March 30, 1952

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____

My Commission expires: _____

 Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____	Name <u>Sigfrido C. Cule</u>
Address _____	Address <u>149 Broadway, New York 6, New York</u>
Name _____	Name _____
Address _____	Address _____
Name _____	Name _____
Address _____	Address _____

STATE OF New York
COUNTY OF New York

On this 27th day of August, 1951, before me personally appeared Sigfrido C. Cule to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of August, 1951.

My Commission expires: ISABEL S. LONGFELLOW
NOTARY PUBLIC, State of New York Isabel S. Longfellow
No. 31-7592500 Notary Public
Qualified in New York County
Cert. filed in N.Y. Co. Clks. & Reg. Off.
STATE OF _____
COUNTY OF _____ Term Expires March 30, 1952

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____

My Commission expires: _____

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____
Address _____

Name BY W. Beach Day
Address AS HIS ATTORNEY IN FACT
149 Broadway, New York 6, New York

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

STATE OF New York
COUNTY OF New York

On this 27th day of August, 1951, before me personally appeared W. Beach Day as atty-in-fact for Stephen Carlton Clark, Jr. to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of August, 1951.

My Commission expires:
ISABEL S. LONGFELLOW
NOTARY PUBLIC, State of New York
No. 31-7592500

Isabel S. Longfellow
Notary Public

STATE OF _____
COUNTY OF _____
Qualified in New York County
Cert. filed in N.Y. Co. Clks. & Reg. Off.
Term Expires March 30, 1952

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____	Name <u>W. Beach Day</u>
Address _____	Address <u>149 Broadway</u> <u>New York 6, N.Y.</u>
Name _____	Name _____
Address _____	Address _____
Name _____	Name _____
Address _____	Address _____

STATE OF New York
COUNTY OF New York

On this 27th day of August, 1951, before me personally appeared W. Beach Day to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of August, 1951.

My Commission expires: ISABEL S. LONGFELLOW
Notary Public, State of New York
No. 31-7592500
Qualified in New York County
Commission Expires, Co. Clerk's Reg. Off.
June 1, 1952
Isabel S. Longfellow
Notary Public

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____
Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name Harlan M. Ellis
Address c/o R. W. Ellis
30 State Street, Boston 9, Mass.

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

STATE OF California)
COUNTY OF Los Angeles)

On this 29th day of August, 1951, before me personally appeared Harlan M. Ellis to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 29th day of August, 1951.

My Commission expires:
October 26, 1951

Helen L. Rice
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____ Address _____ _____ Name _____ Address _____ _____ Name _____ Address _____ _____	Name <u>Tract 19</u> <u>Raymond W. Ellis</u> Address _____ _____ Name _____ Address _____ _____ Name _____ Address _____ _____
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STATE OF _____)
 COUNTY OF _____)

On this 27th day of August, 1951, before me personally appeared Raymond W. Ellis to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of August, 1951.

My Commission expires:

May 2, 1958

STATE OF _____)
 COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____	Name _____
Address _____	Address _____
Name _____	Name _____
Address _____	Address _____
Name _____	Name _____
Address _____	Address _____

STATE OF Texas)
COUNTY OF Dallas)

On this 28 day of August, 1951 before me personally appeared J. D. Harcock to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 28 day of Aug, 1951

My Commission expires:
6-1-53

O. F. Stevens
Notary Public
O. F. STEVENS

STATE OF _____)
COUNTY OF _____)

On this ____ day of _____, 19__, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this ____ day of _____, 19__.

My Commission expires: _____

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 19

Name _____	Name _____ <i>Paul B. Kerr</i>
Address _____	Address _____ <i>149 Broadway,</i>
	<i>New York 6, N.Y.</i>
Name _____	Name _____
Address _____	Address _____
Name _____	Name _____
Address _____	Address _____

STATE OF *New York*
COUNTY OF *New York*)

On this *27* day of *August*, 19*51*, before me personally appeared *PAUL B. KERR* to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that *he* executed the same as *his* free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this *27* day of *August*, 19*51*.

My Commission expires: *ISABEL S. LONGFELLOW* *Isabel S Longfellow*
NOTARY PUBLIC, State of New York Notary Public
No. 31-7592500
Qualified in New York County
STATE OF _____ Cert. filed in N.Y. Co. Clks. & Reg. Off.
COUNTY OF _____ Term Expires March 30, 1952

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____
Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

Tract 19

SIGNATURES AND ADDRESSES Henry R. Labouisse, Jr.

Name _____	Name BY <u>W. J. Beach</u>
Address _____	Address <u>AS HIS ATTORNEY IN FACT</u>
_____	<u>149 Broadway, New York 6, New York</u>
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF New York)
COUNTY OF New York)

On this 27th day of August, 1951, before me personally appeared W. J. Beach, Esq., in and for Henry R. Labouisse, Jr. to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of August, 1951.

ISABEL S. LONGFELLOW
My Commission expires March 30, 1952 Isabel S. Longfellow
No. 31-7592500 Notary Public
Qualified in New York County
Cert. filed in N.Y. Co. Clks. & Reg. Off.
Term Expires March 30, 1952
STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____
Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

Part 19
SIGNATURES AND ADDRESSES **CHARLES E. MAIN**

Name _____ Address _____	Name BY <u>Paul S. Kerr</u> Address <u>AS HIS ATTORNEY IN FACT</u> <u>149 Broadway, New York 6, New York</u>
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF New York
COUNTY OF New York

On this 27 day of August, 1951, before me personally appeared Paul S. Kerr as atty-in-fact for Charles E. Main to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27 day of August, 1951.

My Commission expires _____
ISABEL S. LONGFELLOW
NOTARY PUBLIC, State of New York
No. 31-7592500
Qualified in New York County
Cert. filed in N.Y. Co. Clks. & Reg. Off.
Term Expires March 30, 1952
Isabel S. Longfellow
Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____
Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 19

Name _____ Address _____	Name <u><i>Charles J. Nourse</i></u> Address <u>CHARLES J. NOURSE</u> <u>40 WALL ST.</u> <u>NEW YORK CITY 5, N. Y.</u>
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF *New York*
COUNTY OF *New York*

On this *14th* day of *August*, 19*56*, before me personally appeared *CHARLES J. NOURSE* to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that *he* executed the same as *his* free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this *14th* day of *August*, 19*56*.

My Commission expires: _____

James J. Farrell
Notary Public
JAMES J. FARRELL
NOTARY PUBLIC, State of New York
Qualified in Bronx County
No. 03-1166500
Certificates filed in New York Co. CLK's
and Bronx and New York Co. Reg's Offices
Commission Expires March 30, 1953

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 19

Name <u><i>Arthur E. Palmer</i></u> Address <u>40 Wall Street</u> <u>New York, N. Y.</u>	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF NEW YORK
 COUNTY OF NEW YORK

On this 28th day of August, 1951, before me personally appeared Arthur E. Palmer to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 28 day of Aug, 1951

My Commission expires: _____

Thomas P. Dunn

Notary Public **THOMAS P. DUNN**
 Notary Public, State of New York
 Qualified in Bronx County
 No. 03-6118500
 Certificates Filed in New York Co. Clk's.
 and Bronx & New York Co. Reg's. Office.
 Commission Expires March 30, 1952

STATE OF _____
 COUNTY OF _____

On this ____ day of _____, 19__, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this ____ day of _____, 19__.

My Commission expires: _____

 Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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SIGNATURES AND ADDRESSES

Tract 19

Name <u><i>Arthur E. Palmer</i></u> Address <u><i>40 Wall Street</i></u> <u><i>New York, N. Y.</i></u>	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF **NEW YORK**
 COUNTY OF **NEW YORK**

On this **28th** day of **August**, 19**51**, before me personally appeared **Arthur E. Palmer, Jr.** to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that **he** executed the same as **his** free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this **28** day of **Aug**, 19**51**

My Commission expires: _____

Thomas P. Dunn
 Notary Public

THOMAS P. DUNN
 Notary Public, State of New York
 Qualified in Bronx County
 No. 03-6118500
 Certificates Filed in New York Co. Clk's.
 and Bronx & New York Co. Reg's. Office.
 Commission Expires March 30, 1952

STATE OF _____
 COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 19

Name <u>George Roberts</u> Address <u>40 Wall Street</u> <u>New York 5, N.Y.</u>	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF New York)
 COUNTY OF New York)

On this 10th day of September, 1951, before me personally appeared George Roberts to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 10th day of September, 1951.

My Commission expires: _____

Eileen J. O'Hare
 Notary Public, State of New York
 2423-6001

STATE OF _____)
 COUNTY OF _____)

Qualified in Kings County
 Certificates filed in Kings Co. Register
 N.Y. Co. Clerk, N.Y. Co. Register
 Commission Expires March 30, 1953

On this ____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this ____ day of _____, 19____.

My Commission expires: _____

 Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

Tract 19

SIGNATURES AND ADDRESSES

Name <u><i>Edward S. Bell</i></u>	Name _____
Address <u><i>410 1st Street</i></u>	Address _____
<u><i>New York 6, N.Y.</i></u>	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF *New York*
COUNTY OF *New York*

On this *22nd* day of *August*, 19*51*, before me personally appeared *Edward S. Bell* to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that *he* executed the same as *his* free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this *22nd* day of *August*, 19*51*

My Commission expires:
March 30, 1952

Lou E. Gaffney
Notary Public

LOU ETHEL GAFFNEY
Notary Public, State of New York
No. 03-6140650
Qualified in Bronx County
Certificates filed with
Bronx, N.Y., Kings & Queens Co. Clerks
Bronx, N.Y., Kings & Queens Reg. Offices
Commission expires March 30, 1952

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 21

Name <u>J. C. Gordon</u>	Name _____
Address <u>1103 Tower Pet. Bldg.</u>	Address _____
<u>DALLAS 1, TEXAS</u>	_____
Name _____	Name _____
Address _____	Address _____
_____	_____
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF TEX.
COUNTY OF DALLAS

On this 14 day of AUG., 1951 before me personally appeared J. C. Gordon to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 14 day of Aug., 1951

My DOBOTHY E. JONES expires:
Notary Public, Dallas County, Texas
My Commission Expires June 1, 1953

Donothy E. Jones
Notary Public

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this _____ day of _____, 19____.

My Commission expires: _____

Notary Public

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereto, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

Name	Name
Address	Address

Name Mr. M. A. Ash
Address 166 E. 7th St. Box 526
Albuquerque, N.M. 87102

Name _____ Name _____
Address _____ Address _____

STATE OF NEW MEXICO
COUNTY OF BERNARDINO

On this 5th day of September, 1951, before me personally appeared Bruce Arbogast and Maude Arbogast to me known to be the persons described in and who executed and delivered the foregoing instrument and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 5th day of September, 1951

My Commission expires;
My Commission Expires April 18, 1964

STATE OF _____
COUNTY OF _____

On this _____ day of _____, 19____ before me appeared _____
sworn, did say that he is the _____ President of _____

and that the said applicant has not been convicted of any crime involving moral turpitude, and that said corporation is licensed and qualified to do business in the jurisdiction of the said State of New York.

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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SIGNATURES AND ADDRESSES

Tract 31

Name _____	Name <u>John S. Cain</u>
Address _____	Address <u>Gulf States Building</u>
_____	<u>Dallas, Texas</u>
Name _____	Name <u>Elvan G. Woodard</u>
Address _____	Address <u>507 Clermont</u>
_____	<u>Dallas, Texas</u>
Name _____	Name _____
Address _____	Address _____
_____	_____

STATE OF TEXAS)
COUNTY OF DALLAS)

On this 12th day of October, 1951, before me personally appeared John S. Cain to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 12th day of October, 1951.

My Commission expires:

June 1, 1953

Marcelle A. Roberts
Notary Public

STATE OF TEXAS)
COUNTY OF DALLAS)

On this 15th day of October, 1951, before me personally appeared Elvan G. Woodard to me known to be the person(s) described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have set my hand and seal of office on this 15th day of October, 1951.

My Commission Expires:

June 1, 1953

Jaye Griffin
Notary Public in and for

Dallas County, Texas

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____
Address _____

Name *A. D. Colvin*
Address "Box 322"

Tract
34

Name _____
Address _____

Name *J. H. Wilson*
Address "Box 1149"

Tract
32

Name _____
Address _____

Name _____
Address _____

STATE OF New Mexico
COUNTY OF San Juan

On this 13th day of October, 1951, before me personally appeared S. D. Colvin to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as a free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 13th day of October, 1951.

My Commission expires:
October 26, 1953

R. A. Gleason Jr.
Notary Public

STATE OF New Mexico
COUNTY OF Curry

On this 15 day of October, 1951, before me appeared J. H. Wilson, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

GIVEN UNDER MY HAND AND NOTARIAL SEAL, this 15 day of October, 1951.

My Commission expires:
March 17, 1955

Mayreese L. Dilliner
Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name <u>OC Beck</u> Address <u>P.O. Box 703</u> <u>Washington, Calif</u>	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____
Name _____ Address _____	Name _____ Address _____

STATE OF California)
 COUNTY OF Los Angeles)

On this 17 day of October, 1947, before me personally appeared OC Beck to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as a free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 17 day of Oct, 1947.
 My Commission expires: 3/23/53
 STATE OF _____)
 COUNTY OF _____)

[Signature]
 Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.
 My Commission expires: _____

 Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____
Address _____

Name D. J. Flagg
Address 14397 Detroit Ave
Oakland, Cal

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

STATE OF California)
COUNTY OF Alameda)

On this 12 day of October, 1957, before me personally appeared D. J. Flagg to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 12 day of October, 1957.

My Commission expires:

8/31/52
STATE OF _____)
COUNTY OF _____)

[Signature]
Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

1. The obligations and liabilities of this Agreement may be executed in the name of one or more of the parties to the effect that all parties have agreed to be bound upon all those who execute a contract of this Agreement, and the obligations of this Agreement may be executed by all other parties to the effect that all parties to the Agreement have agreed to be bound upon all those who execute a contract of this Agreement.

[illegible]

On this 15th day of October, 1951, before me appeared _____, a person personally known to me and being by me duly sworn, did say that he is the President of _____.

10

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Name _____
Address _____

Name George M. Frank
Address 235 Linden St
San Francisco 2, Cal

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

Name _____
Address _____

STATE OF California
COUNTY OF San Francisco

On this 24th day of October, 1951, before me personally appeared George M. Frank to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 24th day of October, 1951.

My Commission expires:
June 12, 1954

STATE OF _____
COUNTY OF _____

Joseph E. Fine
Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Inact 62

Name <u>Elta F. Rogers</u>	Name _____
Address <u>Bloomfield N.M.</u>	Address _____
Name <u>James F. Rogers</u>	Name _____
Address <u>Bloomfield N.M.</u>	Address _____
Name _____	Name _____
Address _____	Address _____

STATE OF New Mexico)
COUNTY OF San Juan)

On this 27th day of September, 1951, before me personally appeared Elta F. Rogers and James F. Rogers to me known to be the person s described in and who executed and delivered the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 27th day of Sept., 1951.

My Commission expires:
April 12, 1953

STATE OF _____)
COUNTY OF _____)

Edmund P. Hoole
Notary Public

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Angels Peak Unit Area, County of San Juan, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the term of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his heirs, devisees, assigns or successors in interest.

SIGNATURES AND ADDRESSES

Tract 64

Name *[Signature]* Name _____
Address *[Signature]* Address _____

Name _____ Name _____
Address _____ Address _____

Name _____ Name _____
Address _____ Address _____

STATE OF *New Mexico*)
COUNTY OF *San Juan*)

On this *18* day of *Sept.*, 19*57*, before me personally appeared *Luther Manning* to me known to be the person described in and who executed and delivered the foregoing instrument, and acknowledged to me that *he* executed the same as *a* free act and deed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this *18* day of *Sept.*, 19*57*.

My Commission expires:
June 3, 1952

Lena P. [Signature]
Notary Public

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____

and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this _____ day of _____, 19____.

My Commission expires:

Notary Public

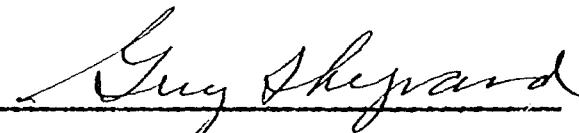
IN THE MATTER OF THE APPLICATION OF
STANOLIND OIL AND GAS COMPANY FOR THE
APPROVAL OF THE ANGELS PEAK UNIT
AGREEMENT EMBRACING 29,802.17 ACRES
OF LAND IN TOWNSHIPS 27, 28, AND 29
NORTH, RANGES 10 AND 11 WEST, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO.

The undersigned, Commissioner of Public Lands of the State of New Mexico, having considered the application of Stanolind Oil and Gas Company for approval of the Angels Peak Unit Agreement covering lands in San Juan County, New Mexico, described in said Agreement, and the undersigned having considered the aforesaid application and the evidence offered by the Petitioner at the hearing before the Oil Conservation Commission on the 23rd day of October, 19 51, FINDS:

1. That said Angels Peak Unit Agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy.
2. That under the operation of the proposed Unit Agreement the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area affected.
3. That the Agreement is in other respects in the best interests of the State of New Mexico.

Said Agreement is hereby approved.

Dated October 23, 19 51, at Santa Fe, New Mexico.



Commissioner of Public Lands

Abstract

the cause of the death of a child and, under 42 U.S.C. § 1981, for the death of a person because of his or her race. The Commission on the Causes and Prevention of Violence, in its report on the assassination of Dr. Martin Luther King, Jr., noted that the Commission was "convinced that the assassination of Dr. King was a crime against the American people."

Notar on this 23rd day of October, 1953, at New York, New York, before me, the undersigned authority, personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument, acknowledged to me that he executed the same for the purposes and consideration therein expressed.

THIS IS A COPY OF THE ORIGINAL DOCUMENT
AND NOT A REPRODUCTION OF THE ORIGINAL DOCUMENT

1. Objetivo de la asignatura

ANGELS PEAK UNIT AGREEMENT ORDER BY

SECCIO. 21 (C) 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 263

[illegible]

SECTION 2. That the Angelo Park Unit Agreement Plan shall be and is hereby approved in principle. It is hereby approved in principle, provided, however, that the plan shall conform to the provisions contained in the unit plan, and that the plan shall conform to the provisions contained in the unit plan, and that the plan shall conform to the provisions contained in the unit plan.

CERTIFICATION--DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior, under the act approved February 25, 1920, 41 Stat. 437, 30 U.S.C. secs. 181 et seq., as amended by the act of August 8, 1946, 60 Stat. 950, and delegated to the Director of the Geological Survey pursuant to Departmental Order No. 2365 of October 8, 1947, 43 CFR sec. 4.611, 12 F. R. 6784, I do hereby:

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

Dated JAN 22 1952.

Thomas B. Nolan

Acting Director, United States Geological Survey

J. O. SETH
A. K. MONTGOMERY
OLIVER SETH
WM. FEDERICI
JUSTIN T. REID

SETH AND MONTGOMERY
ATTORNEYS AND COUNSELORS AT LAW
III SAN FRANCISCO ST.
SANTA FE, NEW MEXICO

February 28, 1952

Oil Conservation Commission
Santa Fe
New Mexico

Gentlemen:

Please find enclosed an approved copy of
the Angel's Peak Unit Agreement located in San Juan
County, New Mexico.

Very truly yours,



OS/mds

Enc.