

CASE RECORD FILE

96

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FEB 16 1953

February 13, 1953

Subject: Scheurich Unit Agree-
ment, Eddy County,
New Mexico

Aston and Fair
% Bert Aston
Roswell, New Mexico

Gentlemen:

Our records reveal that the Scheurich Unit Agreement was approved by the New Mexico Oil Conservation Commission on June 6, 1947. The Unit involves the SE/4 NW/4, SW/4 NW/4, N/2 SW/4 of Section 32, Township 17 South, Range 30 East, N.M. T. M., Eddy County, New Mexico.

The primary term of the Unit Agreement expired on June 6, 1952. Please advise us if the Unit Agreement has been dissolved. If this has been the case please prepare ten executed copies of a Certificate and Consent of Dissolution of the Unit Agreement and forward to our office for approval. The forms will then be returned for submission to the United States Geological Survey for their consideration and approval.

Very truly yours,

L. G. JAMES
Commissioner of Public Lands

cc: U. S. Geological Survey
Roswell, New Mexico (3)
Oil Conservation Commission
Santa Fe, New Mexico (1)

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*Reply to Land Office
Letter was "yes, the
unit agreement is still in
effect and the
unit operating."
cc: [unclear]
12/30/54*

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

February 18, 1952

Mr. Roger Aston
321 White Building
Roswell, New Mexico

Dear Mr. Aston:

At the time of your visit to Santa Fe it was agreed that the Commission would cause notice to be published on its own motion, leading to the curing of the omission of Order 708 relative to the Scheurich Unit from Order 850. After a further check of the files, it has been found that upon discovery of the omission a nunc pro tunc order was issued by the Oil Conservation Commission in November 1951. I am pleased to enclose a copy of this order.

May we suggest that if you desire the old order 708, as reactivated by R-117, be amended that you file an application in triplicate with the Commission for such change as will be proper under the circumstances of your further development.

Very truly yours,

Secretary and Director

CORRECTION ORDER

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF
THE OIL CONSERVATION COMMISSION UPON ITS
OWN MOTION FOR AN ORDER CORRECTING ORDER
NUMBER 850, ISSUED IN CASE NUMBER 189.

CASE NO. 189
ORDER NO. R-117

NUNC PRO TUNC ORDER OF THE COMMISSION

BY THE COMMISSION:

It appearing to the Commission that the order heretofore entered in Case Number 189, called by the Oil Conservation Commission of New Mexico upon its own motion for the purpose of considering Rules and Regulations, is not a correct memorial of the judgment as rendered and announced by this Commission in that Order Number 708 approving the Scheurich Unit Agreement was included in the list of orders relating to approval of unit agreements which were not repealed and rescinded by said Order Number 850, as said Order was rendered and announced by the Commission.

WHEREAS, through inadvertence and a clerical error, said Order Number 708 was omitted from Order Number 850, Paragraph 1, Sub-section b., being the list of orders relating to unit agreements not repealed or rescinded by Order Number 850.

THEREFORE, IT IS HEREBY ORDERED, that the order heretofore entered by this Commission in Case Number 189 on the 9th day of December, 1949, be, and the same hereby is corrected to conform to the actual judgment and order announced and rendered by the Commission by modifying Paragraph 1, Sub-section b., Order Number 850, to read as follows:

1. b. Orders relating to approval of unit agreements numbers 570, 583, 603, 602, 628, 629, 648, 655, 656, 676, 677, 684, 706, 708, 717, 731, 737, 755, 759, 772, 774, 786, 794, 796, 836, and said order in all other respects is hereby ratified and confirmed, and,

IT IS FURTHER ORDERED, that this order correcting the record of said order be entered nunc pro tunc as of the 9th day of December, 1949, that being the date when said order was originally made and entered.

DONE at Santa Fe, New Mexico, this 20 th. day of November, 1951.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

/s/ EDWIN L. MECHEM, Chairman

/s/ GUY SHEPARD, Member

/s/ R. R. SPURRIER, Secretary

SEAL

New Mexico
OIL CONSERVATION COMMISSION

GOVERNOR EDWIN L. MECHEM
CHAIRMAN
LAND COMMISSIONER GUY SHEPARD
MEMBER
STATE GEOLOGIST R. R. SPURRIER
SECRETARY AND DIRECTOR



ROOM 205, BOOKER BUILDING

Artesia, New Mexico

Nov. 16, 1951

Mr. R. R. Spurrier,
Oil Conservation Commission,
Box 871,
Santa Fe, New Mexico

Dear Mr. Spurrier:

Order No. 708 was written on Case No. 96
on June 6, 1947. We are agreed that this order is still in
effect and I have so informed the Proration Manager.

Paragraph 3, on the back page of Order 708,
states:

"That if production is had in such completed
well, the same shall be entitled to such allowable as may be
determined by the Commission but not in excess of the allowable
for a 40 acre unit in the Loco Hills Field".

The operators have now drilled another well,
Aston & Fair No. 7-E Scheurich, in the center of the NW/4, SW/4
NW/4 of Section 32-17S-30E. This well is on the unit and the
operator proposes that the Proration Manager and the Commission
prorate the well according to Order No. 708.

I approve of this method of proration and Mr.
Bert Aston and Mr. Roger Aston, agents for Aston & Fair, requests
that this method be used. If this does not meet with your approv-
al, please wire the Proration Manager November 19th. I plan to
be in Santa Fe the 19, 20, and 21st.

Very truly yours,

OIL CONSERVATION COMMISSION

OIL CONSERVATION COMMISSION

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NOV 19 1951

BY

Justin Newman

Justin Newman

Oil & Gas Inspector

JFH/lp

Nov. 16, 1951

Mr. A. L. Porter, Jr.,
Oil Conservation Commission,
Box 2045,
Hobbs, New Mexico

Dear Mr. Porter:

Will you please consider prorating
all the wells in the Scheurich unit according to Order
No. 708.

I would appreciate it very much if
you will return the copy of Order No. 708 to complete
my files.

Very truly yours,

OIL CONSERVATION COMMISSION

BY

Justin Newman
Oil & Gas Inspector

JPN/lp

cc: Mr. R. R. Spurrier

encl. Order No. 708
Form C-104
Form C-110
on 7-B Scheurich

Case 96

New Mexico
OIL CONSERVATION COMMISSION

GOVERNOR EDWIN L. MECHEM
CHAIRMAN
LAND COMMISSIONER GUY SHEPARD
MEMBER
STATE GEOLOGIST R. R. SPURRIER
SECRETARY AND DIRECTOR

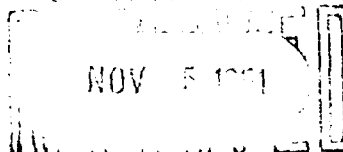


ROOM 205, BOOKER BUILDING

Artesia, New Mexico

Nov. 2, 1951

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO.



Mr. R. R. Spurrier,
Oil Conservation Commission,
Box 871,
Santa Fe, New Mexico

Dear Mr. Spurrier:

In answer to the questions you asked me on the telephone recently concerning Aston & Fair's new development in the Loco Hills area, I would like to point out that the Premier field is described as producing from the Grayburg. The Loco Hills field is described as producing from the Grayburg and San Andres. These pools are in reality two pools that have been joined together by several extensions. It would be against our general policy, and Nomenclature procedure, to rename the pool and classify it all as one pool. There are wells in both pools producing from either or both the Grayburg and San Andres.

When Aston & Fair recently completed their No. 7-B Scheurich, in the NW SW NW/4 of Section 32-17S-30E., it was classified as a Premier well because it came within the boundaries of the Premier field. They left the upper section open, but did not shoot it, and drilled to the Grayburg, which in this locality is called the Premier sand, and got their production by Hydrofracing.

I have not been able to determine how Commission Order 708 was disposed of, but this order is not now in effect. It was an order relating to pooling of interests in specified leases in the N/2 of Section 32. The Proration Manager is now prorating these wells on a 40 acre unit basis.

When Aston & Fair completed their No. 7-E Scheurich they were already getting 8 barrels of oil per day from another well on the same unit. If they wanted an allowable on each well, it would be necessary to run a liner through the upper pay and cement that pay off. Then if they wanted to drill to a lower pay on the other well, it would be necessary to run a liner through the upper pay on it.

It has been demonstrated that wells in either area become marginal wells within six to eight weeks after they are brought in. It is to the advantage of operators and royalty owners to produce from both of these pays from the same well bore. The Grayburg and San

Page 2 - R. R. Spurrier

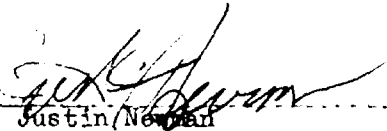
Andres are called a common source of supply in Artesia, Grayburg-Jackson, Maljamar, East Maljamar, Eunice-Monument, Robinson, Red Lake, Loco Hills and Vacuum pools.

Aston & Fair are now drilling a new well 1320 feet east of the well they have just brought in.

Very truly yours,

OIL CONSERVATION COMMISSION

BY


Justin Newman
Oil & Gas Inspector

JPN/lp

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

November 2, 1951

Case 96

C
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Y

Mr. Justin Newman
205 Booker Building
Artesia, New Mexico

Dear Justin:

With reference to your wire concerning Order No. 708:
Order 708 was inadvertently omitted from the rules and regulations.

It will be necessary that we write an order to reactivate
No. 708.

Very truly yours,

RRS:bpw

Secretary and Director

CLASS OF SERVICE
 This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

1201

W. P. MARSHALL, PRESIDENT

SYMBOLS
DL=Day Letter
NL=Night Letter
Int'l Letter Telegram
VLT=Int'l Victory Ltr.

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time at point of destination

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L.ARA034 PD=ARTESIA NMEX 2 1152A=

R R SPURRIER=

OIL CONSERVATION COMMISSION SANTA FE NMEX=

:IS ORDER 708 IN EFFECT WRITE TODAY OR WIRE MONDAY=

:JUSTIN NEWMAN=

No
RS/11/2

708=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

DESIGNATION OF OPERATOR

The undersigned, record holders of oil and gas leases:

SW 1/4 NW 1/4	Section 32, Twp. 17 South, Range 30 East,
SE 1/4 NW 1/4	" 32 " 17 " " 30 "
N 1/2 SW 1/4	" 32 " 17 " " 30 E

hereby designate the Scheurich Unit, 321 White Building,
Roswell, New Mexico, as their operator and local agent, with
full authority to act in their behalf in complying with the
terms of the lease and regulations applicable thereto.

Kinsfolke Trust

By

Aston and Fair

By

Bert Aston, H. W. Fair, C. A. Scheurich,
Mrs. Wirt Franklin, and Carl Hatch, a
joint ownership.

By

June 30, 1947

CERTIFICATE OF APPROVAL

STATE OF NEW MEXICO

The undersigned, having this day examined an Agreement for the unit operation and development entitled "The Scheurich Unit Agreement," covering SW $\frac{1}{4}$ NW $\frac{1}{4}$ and the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ and the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 32, Township 17 South, Range 30 East, New Mexico, and

WHEREAS, upon examination thereof, the Commissioner finds:

a. That such an agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said field;

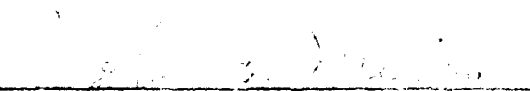
b. That under the operations proposed, the State will receive its fair share of the recoverable oil or gas in place under the lands affected;

c. That the agreement is in other respects for the best interest of the State;

d. That the agreement provides for the unit operation of the unit for the allocation of production and the sharing of proceeds from a part of the area covered by the agreement and as specified therein.

NOW, THEREFORE, by virtue of the authority conferred upon me by Chapter 88 of the Laws of New Mexico, approved April 14, 1943, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said "Scheurich Unit Agreement" and to the state lands included in the same, subject, however, to all of the provisions of the aforesaid Act.

EXECUTED this 21st day of July, 1947.



Commissioner of Public Lands
of the State of New Mexico

COMMISSION AND OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 96
ORDER NO. 708

IN THE MATTER OF APPLICATION FOR APPROVAL
OF SCHEURICH UNIT AGREEMENT; FOR AN
UNORTHODOX WELL LOCATION 2310 FEET SOUTH
OF THE NORTH LINE AND 1260 FEET EAST OF THE
WEST LINE OF SECTION 32, TOWNSHIP 17 SOUTH,
RANGE 30 EAST, N.M.P.M. AND FOR A MODIFICATION
OF ORDER NO. 562, WITH RESPECT TO ASTON & FAIR-
SCHEURICH STATE NO. 4, LIFTED WELL.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This matter came on regularly for hearing at 10: A.M., April 15, 1947
at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico,
hereinafter referred to as the "Commission".

NOW, on this 6th day of June, 1947, 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 Aston & Fair-Scheurich, State No. 4 oil well, originally
capable of making top allowable was designated by the Commission's Order No.
562 as an "input" well in the Loco Hills Pressure Maintenance Project.
2. That the Loco Hills Pressure Maintenance Association, Inc. has ceased
compensating the owners of Aston & Fair-Scheurich, State No. 4 well for pro-
duction loss resulting from the use of said well as an "input" well.
3. That the repeal by the Commission of paragraph 3 of Order No. 339 of
July 1, 1941 by its subsequent Order No. 562, the owners of said Aston & Fair-
Scheurich, State No. 4 "input" well are prevented from allocating its potential
allowable to other wells on the lease.
4. That the modification of the 31st and 32nd sections 32, Township
17 South, Range 30 East, N.M.P.M. as made by the Commission, which
appropriation of the well's production to the Loco Hills Pressure Maintenance
Project, and to provide sufficient and more to recovery of oil and gas and be a contrib-
uting factor in the production of oil.
5. That the modification of the 31st and 32nd sections 32, Township
17 South, Range 30 East, N.M.P.M. as made by the Commission, which
appropriation of the well's production to the Loco Hills Pressure Maintenance
Project, and to provide sufficient and more to recovery of oil and gas and be a contrib-
uting factor in the production of oil.

IT IS ORDERED:

(1.) The Commission hereby orders that the production of the
Aston & Fair-Scheurich, State No. 4 well, shall be allocated to the
Loco Hills Pressure Maintenance Project, and to provide sufficient and more to
recovery of oil and gas and be a contributing factor in the production of oil.

(2.) The Commission hereby orders that the production of the
Aston & Fair-Scheurich, State No. 4 well, shall be allocated to the
Loco Hills Pressure Maintenance Project, and to provide sufficient and more to
recovery of oil and gas and be a contributing factor in the production of oil.

(1.) A proper designation of a unit operator for the Scheurich unit in accordance with the operator's plan of operation.

(2.) That a Notice of Intention to Drill properly filed with Commission by the unit operator, when designated, will be approved by the Commission for an unorthodox well location 2310 feet South of the North line and 1200 feet East of the West line of Section 32, Township 17 South, Range 30 East.

(3.) That if production is had in such completed well, the same shall be entitled to such allowable as may be determined by the Commission but not in excess of the allowable for a 40 acre unit in the Loco Hills field.

(4.) That Aston & Fair-Scheurich State No. 4 well, shall be and remain an "input" well under the Loco Hills Pressure Maintenance Project.

(5.) That Order No. 562 insofar as the same relates to Aston & Fair-Scheurich, State No. 4 well, is hereby modified only to the extent necessary to authorize transfer of allowable from said well to other wells on the same basic lease, provided however, that production within the Scheurich unit area shall not be in excess of top allowable prescribed for four 40 acre tracts within the Loco Hills field.

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

OFFICE OF CONSERVATION COMMISSION

Thomas J. Maby

CHAIRMAN

John E. Miller

MEMBER

R. L. Spurrier

SECRETARY

BEFORE THE OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

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

Case No. 96
Order No. 708

IN THE MATTER OF APPLICATION FOR APPROVAL
OF SCHEURICH UNIT AGREEMENT; FOR AN
ORTHODOX WELL LOCATION 2310 FEET SOUTH
OF THE NORTH LINE AND 1260 FEET EAST OF THE
WEST LINE OF SECTION 32, TOWNSHIP 17 SOUTH,
RANGE 30 EAST, N.M.P.M. AND FOR A MODIFICATION
OF ORDER NO. 562, WITH RESPECT TO ASTON & FAIR-
SCHEURICH STATE NO. 4, INPUT WELL.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This matter came on regularly for hearing at 10: A.M., April 16, 1947
at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico,
hereinafter referred to as the "Commission".

NOW, on this 6 day of June 1947, 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 Aston & Fair-Scheurich, State No. 4 oil well, originally
capable of making top allowable was designated by the Commission's Order No.
562 as an "input" well in the Loco Hills Pressure Maintenance Project.
2. That the Loco Hills Pressure Maintenance Association, Inc. has ceased
compensating the owners of Aston & Fair-Scheurich, State No. 4 well for pro-
duction loss resulting from the use of said well as an "input" well.
3. That the repeal by the Commission of paragraph 3 of Order No. 339 of
July 1, 1941 by its subsequent Order No. 562, the owners of said Aston & Fair-
Scheurich, State No. 4 "input" well are prevented from allocating its potential
allowable to other wells on the lease.
4. That the unitization of the $\frac{1}{4}$ and $\frac{1}{4}$ of Section 32, Township
17 South, Range 30 East, N.M.P.M. as sought by all the lessees, with the
approbation of the Loco Hills Pressure Maintenance Association, Inc., will
tend to promote efficient and economic recovery of oil and gas and be a contrib-
uting factor in the prevention of waste.
5. That an additional well drilled on the proposed unit even at the
location requested, if production is had, and the well operated in accordance
with the terms of the proposed unit agreement, would in a manner compensate
the owners of Aston & Fair-Scheurich, State No. 4 well for loss of production
therefrom by reason of the designation of said well as an "input" well.

IT IS THEREFORE ORDERED:

(1.) That the proposed Scheurich unit agreement is hereby approved
subject, however, to the filing with the Commission, within 30 days from the
date hereof:

- (A.) A certificate of approval of said unit agreement
by the conservation of public lands of the State
of New Mexico.

Illegible

(B.) A proper designation of a unit operator for the Scheurich unit together with a statement of operator's plan of operation.

(2.) That a Notice of Intention to Drill properly filed with Commission by the unit operator, when designated, will be approved by the Commission for an unorthodox well location 2310 feet South of the North line and 1260 feet East of the West line of Section 32, Township 17 South, Range 30 East.

(3.) That if production is had in such completed well, the same shall be entitled to such allowable as may be determined by the Commission but not in excess of the allowable for a 40 acre unit in the Loco Hills Field.

(4.) That Aston & Fair-Scheurich State No. 4 well, shall be and remain an "input" well under the Loco Hills Pressure Maintenance Project.

(5.) That Order No. 562 insofar as the same relates to Aston & Fair-Scheurich, State No. 4 well, is hereby modified only to the extent necessary to authorize transfer of allowable from said well to other wells on the same basis lease, provided however, that production within the Scheurich unit area shall not be in excess of top allowable prescribed for four 40 acre tracts within the Loco Hills field.

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

OIL CONSERVATION COMMISSION

CHAIRMAN

MEMBER

SECRETARY

ILLUSTRABLE

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RESOLUTION

A motion made by Fred Brainerd and duly seconded by Bert Aston, was carried to the effect that the Loco Hills Pressure Maintenance Association, Inc. join in an application before the Oil Conservation Commission of the State of New Mexico for the approval of a Unit Operation Agreement for the Scheurich Unit; for the approval of an unorthodox location within the Scheurich Unit as set out in the petition on file before the Oil Conservation Commission and for a modification of Order No. 562 of the Commission insofar as said order pertains to the Scheurich lease, and that Martin Yates Jr. be authorized to sign said petition for such approval.

STATE OF NEW MEXICO)
COUNTY OF EDDY) ss.

I, Fred Brainerd, being of lawful age and first duly sworn on my oath state that I am secretary of the Loco Hills Pressure Maintenance Association, Inc. that the above and foregoing is a true and correct copy of a resolution passed by the executive committee of said Loco Hills Pressure Maintenance Association Inc. on the 25th day of March, 1947, at 2:30 p.m., all members of said executive committee being present and voting at said meeting.

Fred Brainerd

SUBSCRIBED and sworn to before me this 4th day of

April, 1947.

W. J. Hayburn
Notary Public

By Commission Expires:

March 3, 1949

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

March 26, 1947

Donald S. Bush, Esq.
Artesia, New Mexico

IN RE: Case 96 - The Scheurich Unit For
Approval of a Unit Operation
Agreement Etc.

Dear Mr. Bush:

The Commission has set the hearing of the above captioned
petition in Santa Fe, New Mexico at 10:00 A.M., April 15, 1947.

With kindest regards.

Very truly yours,

CARL B. LIVINGSTON
Administrator

CBL:bsp

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

March 26, 1947

Mr. Chuck Aston
Artesia, New Mexico

IN RE: Case 96 - The Scheurich Unit For
Approval of a Unit Operation
Agreement Etc.

Dear Mr. Aston:

The Commission has set the hearing of the above captioned
petition in Santa Fe, New Mexico at 10:00 A.M., April 15, 1947.

With kindest regards.

Very truly yours,

CARL B. LIVINGSTON
Administrator

CBL:bsp

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OFFICE OF PUBLICITY
STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

The Oil Conservation Commission as provided by law, hereby gives notice of the following hearings to be held at Santa Fe, New Mexico, at 10:00 A.M. April 15, 1947.

Case 95

In the matter of the application of V. S. Welch for an order granting an unorthodox well location in the NE NE Section 36, Township 16 South, Range 30 East, N.M.P.M. Eddy County, New Mexico and to be located 990 feet South of the North line and 1300 feet West of the East line of said Section 36.

Case 96

In the matter of the application of The Scheurich Unit for such orders as may be necessary to accomplish the following:

Approval of an operating agreement embracing $S\frac{1}{2}$ of NW $\frac{1}{4}$ and N $\frac{1}{2}$ of SW $\frac{1}{4}$ of Section 32, Township 17 South, Range 30 East, N.M.P.M. containing 160 acres, more or less, Eddy County, New Mexico; amendment of the Loco Hills Pressure Maintenance Order No. 562 in so far as the same applies to said 160-acre tract; the grant of an exception to existing spacing rule so as to permit the location of a well 2310 feet from the North Line and 1260 feet from the West line of said Section 32, and being within the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of said section; and the grant of permission to transfer the allowable of Aston and Fair-Scheurich-State No. 4, an input well, upon NE SW of said sections, to one or more other wells or forty-acre proration units within said 160 acre tract.

Case 97

In the matter of the application of the Oil Conservation Commission upon its own motion for an order regarding tank batteries for separate pools and whether one tank battery shall serve one pool only or whether separate tank batteries shall be employed for separate pools.

Case 98

In the matter of the application of the Oil Conservation Commission for an order governing gas-oil ratios for Lea, Eddy, and Chavez counties, New Mexico.

Given under the seal of said Commission at Santa Fe, New Mexico on March 24, 1947.

OIL CONSERVATION COMMISSION

per /s/ J. B. Blum, Secretary

SEAL

A UNIT OPERATING AGREEMENT

This agreement made and entered into by and between the parties, whose signatures appear below, this 19 day of March, 1947,

WITNESSETH THAT WHEREAS the Kinfolks Trust, a Trust Estate is the owner of a certain oil and gas lease from the State of New Mexico insofar as it covers the SW/4 NW/4 of Section 32 Township 17, South Range 30 East, N.M.P.M., Eddy County, New Mexico, upon which is located the Kinfolks Trust-State No. 3, a producing well, and

WHEREAS Aston and Fair, a tenancy in common composed of Bert Aston and R. W. Fair, is the owner of a certain oil and gas lease from the State of New Mexico insofar as it covers the SE/4 NW/4 of said section 32, upon which is located the Aston and Fair-State No. 6B, a producing well, and

WHEREAS Bert Aston, R. W. Fair, C. A. Scheurich, Mrs. Wirt Franklin, and Carl Hatch, a joint ownership is the owner of a certain oil and gas lease insofar as it covers the N/2 SW/4 of Section 32 and that the Aston and Fair-Scheurich State No. 3, a producing well is located on the NW/4 SW/4 of said section 32 and the Aston and Fair-Scheurich State No. 4 well which is located on the NE/4 SW/4 of said Section 32, is now and has been since the date of the completion thereof been used as an input well, and

WHEREAS the parties hereto desire to operate all of said acreage as above described as a unit for the purpose of providing for the most efficient and economic recovery of oil and gas and to achieve the maximum ultimate recovery thereof with no waste,

NOT THEREFORE do the parties hereto mutually set out and agreed as follows:

1. That all of said tracts of land as above described shall be operated subject and subservient to the rules and regulations of the New Mexico Oil and Gas Association Inc. and the orders of the Oil and Gas Conservation Commission of the

State of New Mexico, and that the lands described in the lands above described shall be known as the Schaurich Unit.

2. That the Aston & Fair-Schaurich State No. 4 well located on the NE/4 34/4 of said Section 32 shall be continued to be used as an input well in accordance with the rules and regulations of the Loco Hills Pressure Maintenance Association Inc. and Order Number 562 of the Oil Conservation Commission of effective April 1, 1944.

3. That in order to compensate the owners of the acreage on which said input well is located for the loss of production from said input well, and subject to the approval of the Oil Conservation Commission of the State of New Mexico, the Schaurich Unit shall drill a well 2310 feet from the North line and 1200 feet from the West line of said Section 32. In view of the fact that the Aston and Fair-Schaurich State No. 4 well was capable of producing well in excess of the top allowable at the time of completion thereof, when it was designated as an input well, it is desired by the parties hereto to request a top allowable for the new well to be drilled on the unorthodox location as set out above, provided the Oil Conservation Commission of the State of New Mexico consents to said unorthodox location.

4. That the Schaurich Unit will operate all wells producing within the unit and that the production from all of the wells drilled or to be drilled on said lands within the unit area shall be divided among the owners thereof in the same proportion that the acreage owned by each party hereto bears to the whole area within said unit.

5. That the Schaurich Unit shall be operated at top allowable in any of the wells within said Schaurich Unit subject to the approval of the Oil Conservation Commission of the State of New Mexico.

By Robert Fair
Attorney at Law,
Albuquerque, New Mexico.

By Robert Fair
Attorney at Law,
Albuquerque, New Mexico.

By Robert Fair
Attorney at Law,
Albuquerque, New Mexico.

WIRT FRANKLIN

BERT ASTON

R. W. FAIR

F. A. & F.
OIL PRODUCERS

321 White Building
Roswell, New Mexico
March 17, 1947

Mr. Carl Livingston
Attorney & Chief Clerk
Oil Conservation Commission
Capitol Office Building
Santa Fe, New Mexico

Dear Carl:

Enclosed are three copies of the petition with exhibits "A" and "B", concerning the case which I discussed with your last Wednesday. Of course the unit agreements attached are not signed, but we will bring the signed agreements to the hearing.

If there is any minor discrepancy please go ahead and publish, and we can change it in the interim.

Trusting the above meets with your approval, I am

Yours truly

CA:LL
enc.

CHUCK ASTON

WIRT FRANKLIN

BERT ASTON

R. W. FAIR

FRANKLIN, ASTON & FAIR

OIL PRODUCERS

321 J. P. WHITE BLDG.
ROSWELL, NEW MEXICO

SECTION 32
Twp. 17 S. Rge. 20 E.
Sidy County
New Mexico

List of Wells:

- 1-B Located 1650' North of the South line and 1650' East of the West line in Unit K. (Reclamation order number Schenrich 3 L)
- 2-B Located 2310' North of the North line and 2310' East of the West line in Unit J. (Reclamation order number Schenrich 4 L)
- C ✓ 3-B Located 2310' North of the South line and 330' East of the West line in Unit I. (Reclamation order number Schenrich 3 L)
- ✓ 4-B Located 2525' North of the South line and 1435' East of the West line in Unit K. (Reclamation order number Schenrich 4 L)
- O ✓ 5-B Located 2310' South of the North line and 1260' East of the West line in Unit L. (Reclamation order number State 5 L)
- ✓ 6-B Located 2310' South of the North line and 2310' East of the West line in Unit M. (Reclamation order number State 6 L)
- P 7-B Located 1650' South of the North line and 330' East of the West line in Unit E. (Reclamation order number Aston-Fair-Schenrich 7-B 1000 1121)
- 8-B Located 1650' South of North line and 1650' East of the West line in Unit F. (Reclamation order number not known as yet)
- Y ✓ 1-B Located 2310' South of the South line and 330' East of the West line in Unit G. (Reclamation order number State 1-B)

(The above wells are located on the land owned by the United States Government and are subject to the Reclamation Act of 1917, as amended.)

SECTION PLAT

EDDY

County, State of

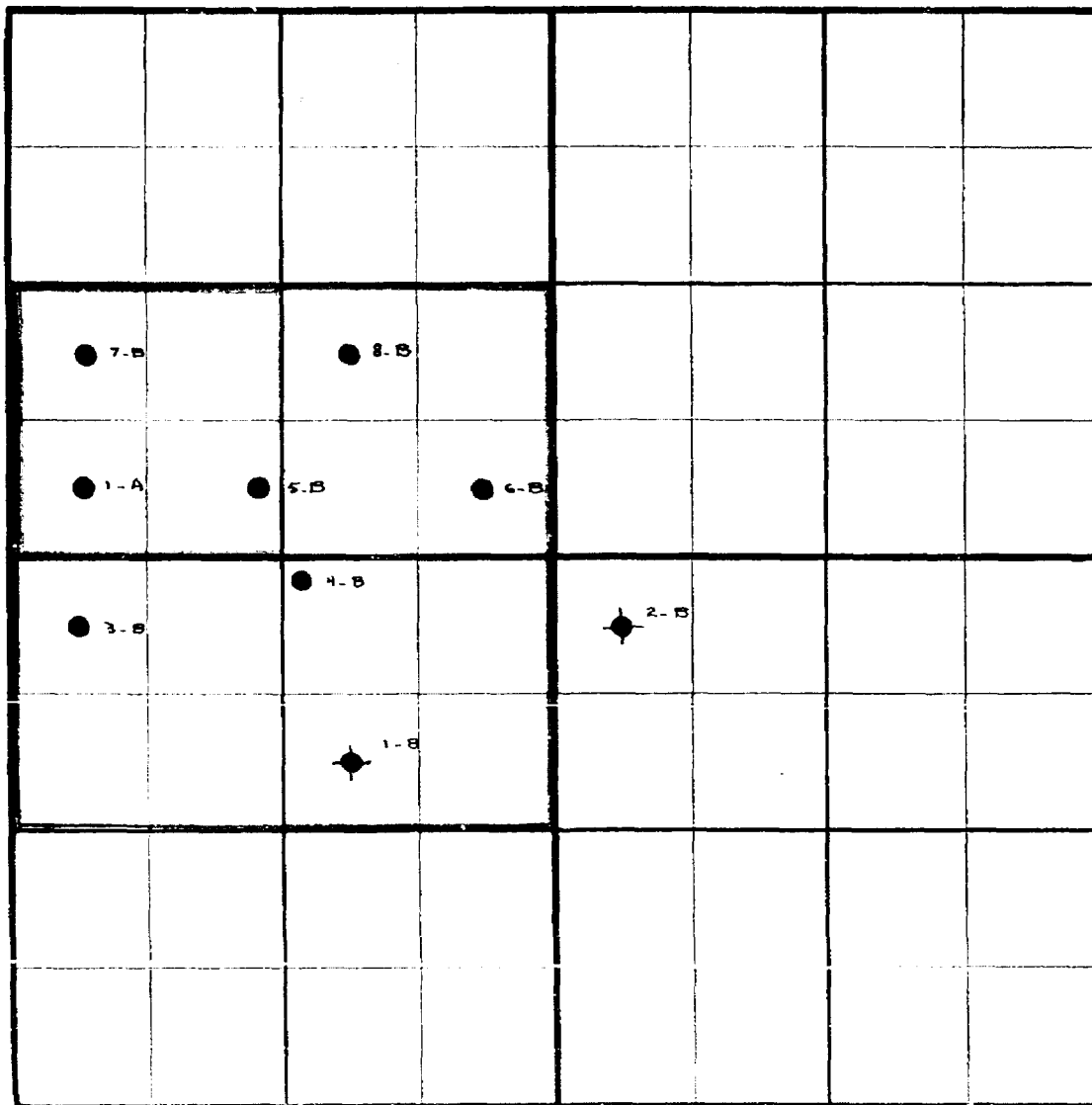
NEW MEXICO

Section 32

Township 17 South

Range 30 East

NORTH



Scheurich Unit

Lease formerly known as Kinfolks

TELEPHONE 720

P. O. Box 126

C. J. DEXTER
PRESIDENT

BERT ASTON
VICE-PRESIDENT

FRED BRAINARD
SECRETARY-TREASURER

**Loco Hills
Pressure Maintenance Association, Inc.**

ARTESIA, NEW MEXICO

January 11, 1944

MEMBERS
S. P. YATES
C. M. POPE, JR.
EMERY CARPER
A. B. OWEN
J. M. MURRAY, JR.
MARTIN YATES, JR.

Mr. John M. Kelly, State Geologist
Oil Conservation Commission
Santa Fe, New Mexico

Dear Sir:

The Loco Hills Pressure Maintenance Association respectfully request that the top allowable for wells in the Loco Hills field be set at 30 barrels per day for the month of February, 1944. This request was decided upon at a meeting of the Board of Directors of the Association and is an official act of the Association.

In verbal conversations with you at several times it has been pointed out that the Association was considering a new plan as to input wells. A plan has now been adopted in which the Association will reimburse the owner of the input well, thus, it will no longer be necessary for the operators to make up allowable out of other wells on the lease. We shall appreciate your preparing the Proration Schedules starting February 1st. in such a way so that input well allowable will not be assigned to other wells on the lease. It will not be necessary to give these wells any allowable consideration as the operator will be compensated by the Association.

There is some doubt as to just what effect the new input well compensation plan will have on royalty owners. The way the plan is set up it will be necessary for the operators to individually satisfy the royalty owners of their property, however, it is our thought that the Federal government and the State of New Mexico will waive any rights to compensation due to no allowable being produced for the input wells. We are contacting the U.S.G.S. concerning this and would appreciate your thoughts concerning the matter.

Very truly yours,

Vilas P. Sheldon
Vilas P. Sheldon, Chief Engineer

VPS:amk

encl:

REPORT OF EXECUTIVE COMMITTEE TO THE STOCKHOLDERS
OF THE LOCO HILLS PRESSURE MAINTENANCE ASS'N., INC.

October 29, 1943.

The Executive Committee of your Association was delegated to make a study of the operation of the Loco Hills Pressure Maintenance project and to prepare recommendations concerning the future operation of that project. The Executive Committee hired a Petroleum Engineer some two months ago who has since that time worked in conjunction with the Executive Committee in formulating a proposal for the future operation of the Loco Hills field.

The findings of the Executive Committee are set out on the following pages which cover the main questions which must be passed upon if the pressure maintenance project is to be carried out in an orderly and profitable manner.

Summing up the findings of the Executive Committee the following points are listed:

(1) To conduct field operations to promote maximum ultimate recovery from the field as a whole, and to preserve the various equities in the field, it is desirable, if not mandatory, that a cooperative plan of centralized field operation be adopted. If maximum oil recovery is obtained, it will be necessary to either adopt the Executive Committee Cooperative unit plan or the various equities in the field will have to be completely unitized.

(2) The Executive Committee recommends that a cooperative unit plan be adopted and that authority over operations in the field be vested in the Executive Committee of the Association who will in turn delegate power to the Chief Engineer of the Association.

(3) The plan of organization recommended by the Executive Committee is set out upon Exhibit 1 hereto attached.

(4) To reduce expenditures involved in some properties of the operators having a small number of wells in the field, the Executive Committee advocates combining several of these leases insofar as switching labor is concerned. Exhibit No. 2 hereto attached sets out some ten operators having a total of thirty-six wells, and also contains tentative suggestion as to how these various operators could group the properties so as to reduce the number of switches involved. This suggestion is to be carried out by the individual operators and will of course not be under the Association.

(5) The Executive Committee recognizes the matter of injection wells as of great concern and important to the stockholders and that some change in the plan of injection wells is needed, therefore a proposal is advanced as a recommendation by which the Association would reimburse the contributors of injection wells on a basis of 75% of the value of the normal allowable. The question as to whether or not 75% is the correct percentage is of little concern to the Executive Committee and should be decided upon by the Stockholders in general, however, the Executive Committee does feel that the plan should be adopted. Exhibits 3 and 4 are a detailed brief of such plan.

(6) In the pressure maintenance field the gas oil ratios will inevitably increase, in some cases, due to injection of gas. In order to maintain pressure it is necessary to enforce a rather strict gas oil ratio limitation, therefore in some cases certain equity owners in the field will undergo a hardship. To alleviate such situation the Executive Committee recommends the adoption of a plan whereby the Association would reimburse such equity owner. This recommendation is set out in Exhibit 5.

(7) The capacity of the present compressor is such that approximately three and a half million cubic feet can be reinjected into the reservoir. At the present time approximately seven million cubic feet of gas is being produced from the field. It is a recommendation of the Executive Committee that additional compressors be installed so as to raise the capacity to such an extent that seven million cubic feet of gas can be injected into the reservoir. The installation of the additional compressors should cost approximately \$80,000.00. Detailed estimates are available in the office of the Pressure Maintenance Association.

(8) To help defray the expenses of the Pressure Maintenance Association, the Executive Committee recommends the installation of a gasoline extraction plant at an approximate cost of \$70,000.00. At the present time Petroleum Engineering of Tulsa, Oklahoma, is checking the design of such an installation and preparing detailed specifications and cost. These detailed figures will be available at the time the Stockholders' meeting reconvenes on November 8.

(9) To insure the success of the cooperative unit operation plan certain authority must be vested in the Chief Engineer who will be directly responsible to the General Manager, who is also Chairman of the Executive Committee. Exhibit 6 sets out a proposed set of rules which delegates certain authority to the Chief Engineer and also sets out the manner in which the various operators can appeal the decisions of the Chief Engineer.

EXHIBIT I

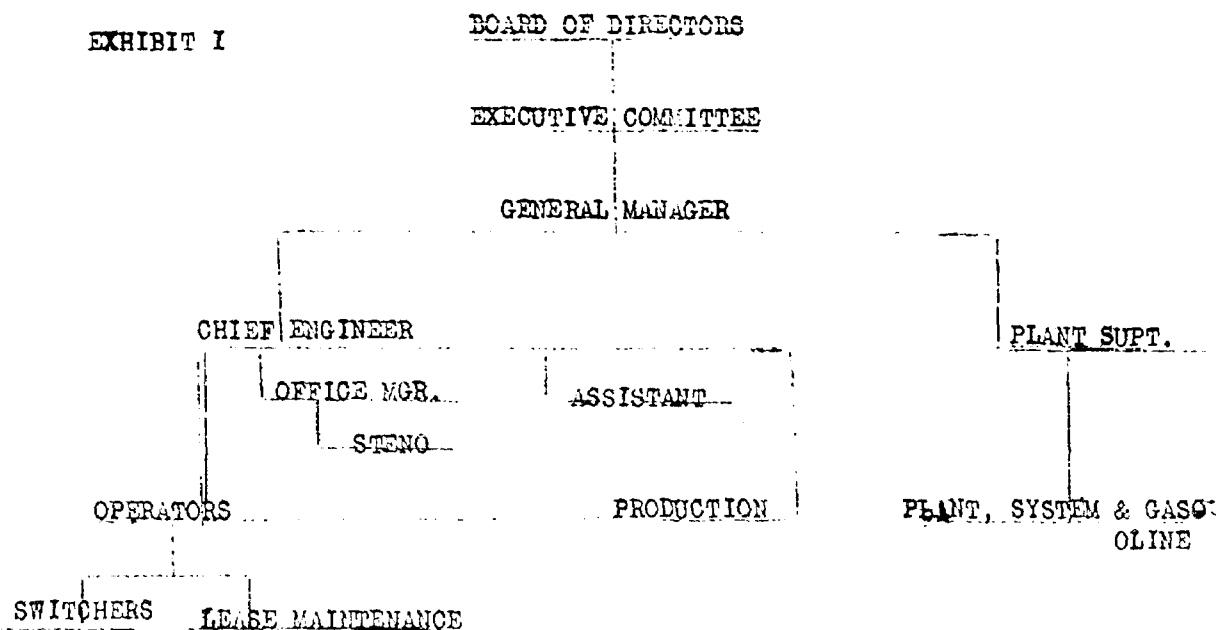


EXHIBIT 2

OPERATORS HAVING 6 WELLS OR LESS

Aston & Fair	2
Bassett & Birney	6
Bowers	1
Brainard-Guy	6
Carper	5
Cone, Gordon	5
Montgomery	2
Randel	1
Texas Trading	2
Yates, S. P.	6
	<hr/> 36

PROPOSED COMBINATIONS

SWITCHER # 1		SWITCHER # 2		SWITCHER # 3	
Carper	3	Texas Trading	2	S. P. Yates	6
Bowers & Bowers	1	Carper	2	Brainard & Guy	6
Aston & Fair	2	Randel	1		
B. & Birney	5	Cone	5		
Montgomery	2	Bassett & Birney	1		

PRESENT SWITCHERS IN THE FIELD

<u>Lease-Owners</u>	<u>Switchers</u>
Premier	1
Joolley	1
Franklin & Aston & Fair	1
Dixon & Yates)	
Yates et al (1
Sallee & Yates	1
Carper)	
Bowers (1
Continental	1
S. P. Yates	1
Continental & M. Yates	1
Allen, Fair & Pope)	
R. W. Fair (2
Montgomery	1
Bassett & Birney	2
Brainard & Guy	1
Banner)	
Sanders Bros. (1
Mc-Tex)	
Kleiner (1
Cone	1
Randel	1
Stroup & Yates)	
Flynn, Welch & Yates (1

INJECTION WELLS

The injection well plan now in use in Loco Hills allows an operator to make up the allowable for an injection well out of other wells on the same lease. In that case the operator secures an immediate return on his investment as well as ultimate good through pressure maintenance.

Objection to this plan is that the lease owner having an injection well will definitely be giving the surrounding leases a free ride. The presence of the injection well will increase recovery on the immediate lease, thus, it is beneficial to have one, however, each operator should participate in the expense.

One possible solution is adoption of a plan similar to the one in use in Maljamar. That is, for the Association to compensate the owner of an injection well on a monthly basis. Under such plan the Production Engineer of the Association will be empowered to select injection wells from time to time as the need arises and will have authority to inject gas into such wells. The selection will be based upon detailed engineering studies and the Engineer will make a written report to the Executive Committee at the time of selecting a well or wells.

Payment to the owner of an injection well would be made by the Association by remitting 75% of the value of the normal allowable which the well would ordinarily have.

The normal allowable of the injection well would be computed by the Association's Production Engineer and will be the average of the allowable of all producing wells within the boundary described when mid points, between the well in question and all surrounding injection wells, are connected by a series of straight lines, however, said normal allowable shall not be greater than the well was capable of producing prior to its conversion to an injection well.

As stated above, the Association would pay 75% of the value of the normal allowable, however, such 75% is to include all royalty and over-ride payments. After all royalty and over-ride interests are met, the Association would compensate the operator up to the 75% limitation.

With 20 injection wells and a 30 barrel top allowable the payments for injection wells could cost \$8094 monthly. Prorated against a 3,300 barrel allowable, the assessment would be about 9.2¢ per bbl.

This appears very high at first but it must be remembered that it merely amounts to a redistribution of funds among the operators themselves. If an operator contributes injection wells in proportion to his field holdings he will break even.

EXHIBIT 4

LOCO HILLS PRESSURE MAINTENANCE ASSOCIATION, INC.

Artesia, New Mexico

October 28, 1943

SUMMARY OF INPUT WELL
PROPOSAL

<u>Operators</u>	<u>Actual August Runs in bbls</u>	<u>Probable Runs with 30 Top</u>	<u>Charges at 9.2¢ bbl. in dollars</u>	<u>Credit for input wells in dollars</u>
Allen & Fair	2588	2588	238	
Aston & Fair	5921	5921	544	530
Banner Oil Company	481	481	44	
Bassett & Birney	4582	4372	402	580
Bowers & Bowers	761	930	85	
Brainard & Guy	2846	3007	276	266
Bright & Gordon	321	321	30	
Carper Drilling Co & C-M-T	2959	3427	315	
Cone, Gordon	2200	2200	202	97
Continental Oil Co.	4487	3927	361	492
Continental & S. P. Yates	2000	2000	184	47
Dixon & Yates	6594	6975	641	605
Fair & Bright	768	930	85	
Fair, R. W.	770	930	85	
Flynn, Welch & Yates	1357	1357	125	
Franklin Petroleum Corp.	13669	13640	1255	1740
Friendship Oil Co	765	930	85	
Franklin & Yates	769	930	85	
Grayburg Oil Co.	780	930	85	
Kinfolks Trust	855	930	85	
Mc-Tex Supply Co.	1540	1540	141	240
Premier Petroleum Corp.	5335	4619	425	945
Randel, O. H.	257	257	24	
Rose City Oil Corp.	460	460	42	
Sallee & Yates	4486	4185	384	605
Sanders Brother	3956	3956	364	485
Stroup & Yates	1939	1939	178	420
Woolley, R. R.	2344	2790	256	
Yates, Harvey E.	251	251	23	
M. Yates & Continental	3076	3720	342	
Yates, S. P.	2750	2728	251	243
Yates, et al	3054	2790	256	606
Fair, N.N. & F. Brainard	2133	2133	196	193
<hr/>				
Total Association	87098	88094	\$ 8094	\$ 8094
Total Outside Association	9086	10802		
Field Total	96184	98896		

EXCESSIVE GAS-OIL RATIO RULE

EXHIBIT 8

WHEREAS: The Loco Hills Pressure Maintenance Association, Inc. is a cooperative enterprise with the main purpose of injecting gas into the Loco Hills field, so as to maintain bottom-hole pressure. The Association has erected gas compressor equipment and contemplates installing additional equipment to enable it to reinject residue gas into the reservoir, the cost of compressing and reinjecting said gas costing approximately 5¢ per MCF for operating expense alone.

WHEREAS: Some wells have already developed high gas-oil ratios, and in the future other wells will undoubtedly develop high gas-oil ratios, the result being production of gas beyond the capacity of the Association equipment.

WHEREAS: To reduce the total gas produced from the field, the operators have voluntarily accepted a gas limitation rule which limits the volume of gas produced from any one well to that volume allowed to the highest allowable well in the field. Such rule effectively reduces total gas production and lends emphasis to gas-oil ratio control. In some cases the gas-oil ratio cannot be corrected and in a pressure maintenance project the ratio of each well will necessarily eventually become excessive. Enforcement of a severe gas limitation rule is to the definite benefit of the field as a whole, however, such enforcement can be very objectionable to the royalty and lease owners in a field having diversified ownership.

THEREFORE: To compensate the operator for a severely penalized well, to promote maximum recovery from the field as a whole, and to prevent uneconomic compression charges per barrel of oil produced, the herein described compensatory scheme has been adopted.

✓ 1. The Association's Production Engineer will have authority, after making a careful study, to shut in any well having a gas-oil ratio in excess of 7,500 cu. feet per barrel. The execution of such an order will be promptly reported to the Executive Committee by means of a written report.

2. The Association's Production Engineer will prepare an evaluation as to the future recovery possible to obtain from the shut-in well had it not been closed in. Such evaluation will be submitted to the Executive Committee for subsequent approval by the Association.

3. The Loco Hills Pressure Maintenance Association, Inc. will reimburse the owner of the shut-in well by making monthly payments at a rate amounting to 75% of the crude price and based on the penalized allowable using the gas-oil ratio at the time of closing in the well, except that the allowable so used shall not be less than 10 bbls. for each allowable day. The payments will be made until the operator has been credited with the amount of future recovery estimated by the Production Engineer and approved by the Association.

✓ 4. The Operator shall have the option of testing such a closed in well at the end of each six month period and of producing the well so long as the gas-oil ratio remains under 7,500 cu. feet per barrel of oil. At such time as the ratio again exceeds 7,500 cu. feet the well will again be closed in and payments resumed by the Association. A new evaluation will Not be made after such a flow period but payments will be resumed on the basis of the agreement made at the time of originally closing in the well.

EXHIBIT 6

PLAN FOR COOPERATIVE FIELD OPERATION LOCO HILLS FIELD

Authority over producing operations of all properties included in the Loco Hills Pressure Maintenance Association shall be vested in the Executive Committee of the Board of Directors of the Loco Hills Pressure Maintenance Association.

The actual operation of the various properties is to be handled by the owners as at present, however, operations, insofar as producing of crude oil and gas are concerned, are to be carried out under the direction of the Executive Committee or person designated by the Executive Committee.

Should any operator desire to protest a decision of the Executive Committee he shall have the privilege of appealing to the Board of Directors of the Loco Hills Pressure Maintenance Association, Inc. at time of the regular meeting of that body.

To supervise producing operations of the Loco Hills field and to supervise the pressure maintenance program, the Association shall hire a Petroleum Engineer to serve in the capacity of "Chief Engineer" of the Loco Hills Pressure Maintenance Association, Inc. The "Chief Engineer" will report directly to the Chairman of the Executive Committee and will be charged with such responsibilities as may be designated by the Chairman of the Executive Committee. Certain responsibilities which shall be designated to the "Chief Engineer", although not necessarily the only one, are listed in the following topics.

1. The Chief Engineer will compute the volumes of gas to be injected into each injection well and will direct the Plant to follow such procedure.

2. The Chief Engineer will select injection wells as needed to properly produce the field under the pressure maintenance program. In the selection of injection wells the Chief Engineer will give proper consideration to the various theoretical engineering aspects and also give weight to equities so as to reduce, insofar as possible, inequitable conditions.

3. The Chief Engineer will direct the execution of the "Injection Well Plan" as approved by the Stockholders of the Loco Hills Pressure Maintenance Association, Inc.

4. The Chief Engineer will direct the execution of the "Excessive Gas-Oil ratio Rule" as approved by the stockholders of the Loco Hills Pressure Maintenance Association, Inc.

5. The Chief Engineer will be responsible for the taking of the official gas-oil ratios and will report such ratios to the New Mexico Conservation Commission for use in the allocation of oil allowable. An official ratio survey is to be taken approximately three times per year, but the exact number of surveys is to be determined by the Executive Committee.

6. The Chief Engineer will be responsible for the taking of bottom-hole pressures. A complete field survey is to be taken at least twice a year and oftener at the discretion of the Executive Committee. The Chief Engineer will notify the well owners to place their wells in proper condition so that a pressure gauge can be run at least 15 days prior to the time the pressure is to be secured. In case of pumping wells or flowing wells having devices preventing the running of a pressure gauge, the bottom hole pressures will be secured by the use of a sound-wave deflection recording device such as the Echometer.

7. The Chief Engineer will prepare operation schedules setting out time and method of producing each well so as to secure the optimum oil production with the optimum gas production and to insure an even flow of gas to the plant.

8. The Chief Engineer will study the ~~individual~~ leases and wells and will recommend remedial or corrective work to the owners of the wells. Under no circumstances shall the Chief Engineer have authority to direct a well owner to undertake remedial or corrective works other than such work as is necessary to permit the taking of bottom hole pressures and/or gas-oil ratios.

9. The Chief Engineer will be responsible for the Artesia office of the Loco Hills Pressure Maintenance Association, Inc.

10. In order to carry out the obligation of the operator to properly produce his wells to prevent wasting of gas and to deliver proper flow of gas to the plant, it is agreed that the chief engineer shall report to the Executive Committee any well permitting the wasting of gas or which fails to deliver the proper amount of gas to the system and the Executive Committee shall authorize the Engineer to order said well to be shut in until such practices are remedied. In the event such an order is made, and the operator fails to comply with the order, then such operator shall not be entitled to receive any payments from the Association for injection wells and shall not be entitled to receive any shares of stock or any other privileges or benefits so long as such harmful practices are continued. If an order is issued by the Engineer to shut in a well, the Engineer shall serve a written notice upon the operator by delivering a copy thereof to the person in charge of the wells for the operator and by mailing a copy thereof to the office of the operator as shown by the books of the Association. Such notice shall state the well to be shut in and the practices which are objectionable in the opinion of the Engineer and the steps required to correct such practices. The operator may appeal any such order to the Executive Committee and/or to the Board of Directors.

EXHIBIT 7

B U D G E T - -

<u>DISBURSEMENTS</u>		<u>RECEIPTS</u>	
Operating Expense	\$ 5,000.00	8¢ per bbl. (for bank)	\$7,200.00
Bank Note & Interest	7,200.00 *	7¢ per bbl. (for input wells)	6,300.00
Input wells	8,100.00	Sale Gas & Butane	10,500.00
Wells shut in	1,800.00		
	<hr/>		<hr/>
	\$ 22,100.00		\$ 24,000.00

* Repayment of loan to bank - approximately four years.

August 13, 1943

Members of the Board
Lease Hills Pressure
Maintenance Association
Artesia, New Mexico.

Sirs:

It is my pleasure to transmit to you, herewith, my report on the progress of the Lease Hills Pressure Maintenance Project, together with my recommendations.

I have endeavored in this report to bring together all of the available pertinent data not covered in previously submitted reports and have prepared maps illustrating the data, in so far as possible.

After assembling this data and having spent considerable time in the field it is my opinion that the present organizational set-up does not permit the utilization of the services of a full time petroleum engineer. In other words that in as much as the organizational set-up which was planned has not been put into operation, I cannot feel that I can justify the salary and car expense which would be incident to my further employment.

For the reasons stated, I wish to tender my resignation, subject to your decision.

I would like to recommend that a qualified engineer should be employed on a retainer fee basis, to supervise the collection of accurate information and to prepare a quarterly report on the progress of the operation.

Your present plant superintendent, Mr. Fred Jacobs, has been very helpfull to me in assembling the data included in my report and I can see no reason why he is not well qualified to carry on, as he has in the past, the routine testing and field work which is vital to the success of the project. I do feel though that he is entitled to and needs at least the part time assistance of a petroleum engineer who could continue the studies which I have begun.

Should you at any time feel the need of my further assistance or advise I shall be pleased to extend the fullest possible cooperations

May I add that I have sincerely enjoyed my work here and my association with the board and personnel of the Loce Hills Pressure Maintenance Association.

I remain

Very truly yours

Charles H. Rankin

TELEPHONE 720

P. O. Box 126

C. J. DEXTER
PRESIDENT

BERT ASTON
VICE-PRESIDENT

FRED BRAINARD
SECRETARY-TREASURER

Loco Hills
Pressure Maintenance Association, Inc.

ARTESIA, NEW MEXICO

July 20, 1943

MEMBERS

S. P. YATES
C. M. POPE, JR.
EMERY CARPER
G. M. PURSWELL
J. M. MURRAY, SR.
MARTIN YATES, JR.

Mr. John Kelly, State Geologist
State Capitol Building
Santa Fe, New Mexico

Dear Mr. Kelly:

I am enclosing herewith the recapitulation of the proration schedule for the Loco Hills field which you requested.

Because of the fact that these formulae increase the allowables of the marginal wells having low gas/oil ratios, the field production will not meet the allowable figures, shown. I have indicated what I believe to be the approximate yields under the different schedules.

Will you kindly call us when you can set a date for the discussion of your order.

Thanking you for your kind attention, I remain

Very truly yours,


C.H. Rankin

CHR:PRB

Barrell.
J. 20-47

John. I have spent the
afternoon with the U.S.D.
office here going over
their logs and a few
other mail and they
express themselves as
being in favor of a
top 2000 water with
either a 30 or preferably
25 barrel top.

Barrell

Rocky Mountain
Lower 48 Field - Production Schedule
August - September 1943

Company Lease	July Allowable	Daily Av'g Pl. Puns May	Daily Av'g Gas Prod'n May	B.H.P. 6/0
Allen Fair & Pope				
State A 1-11	77	73.10	119800	
State B 1-2	36	3500	61200	
Aston & Fair Total	113	10810	181000	
Brigham 1-2	68	61	140600	
State A 1-2 State A 1	30	32	68500	
State - Schenck 3-4	60	6260	67300	
State B 5-6	45	4230	117500	
Total Aston & Fair	50	4650	61800	
Banner Oil Co.	245	24440	455100	
Miller 1-4	18	1620	7200	
Bassett & Birney				
Dunn C 1	8	1420	42600	
State 1-7	202	21060	573700	
Total Bassett & Birney	210	22480	616300	
Bowers, H. A. & R. M.				
State 1	30	30	48000	
Brainerd & Goy				
Brainerd 1-2	60	5980	148500	
Goy 1-6	71	6980	323300	
Bright & Gordon				
State A 1	11	1025	6150	
Carper Drly Co.				
Carper State A 1-16	5	5	3000	
Carper - White & S. L. M. Co.	90	90	62400	
State 1-15				
Carper - White & S. L. M. Co.	15	15	8000	
Carper - White & S. L. M. Co.				
Goy 1-16	65	65	241000	
Carper 1-16	30	1400	57000	
Brainerd & Goy				
State 1-16 1	63	6010	200000	
State 1-16 1	12	900	77000	
State 1-16 1	120	11910	372100	
State A-2 1	30	8200	83000	
State A-12 1	30	2340	63000	
State A-16 1	20	600	15700	
State 1-16 1	30	4200	46700	
State 1-16 1	30	71343	314800	

Schedule I
3000 G/G x 25 Top
Proposed Over-Under Estimated Gas
Allowable July Gas Produced Conserved

100	23-	119800	
50	14-	61200	
150	37-	181000	
50	10	114500	25500
25	5	61250	7250
50	10	55700	13600
38	7	104000	13500
42	8	55800	6000
205	40	389250	65550

100	82-	7200	-
25	17-	42600	
169	33	431800	1-1900
174	16	474400	100000

25	5	33800	14200
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50	10	148500	
67	4	230300	93000

25	14-	6150	
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25	20-	3000	
75	15	52150	10250

18	1-	75000	70000
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57	8	228000	14000
19	11	53000	

91	28-	151200	50000
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25	13-	27400	
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25	32	285000	102100
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25	5	62000	21000
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25	5	63000	
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25	5	63000	
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25	5	39000	7700
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310	1	64000	19000
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1300	47-		
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Schedule
2000 G/G
Proposed Over-Under
Allowable July

120	43-
60	24-
180	67-
52	8
25	5
60	-
32	13
50	-
219	26

120	102-
-----	------

20	12-
161	41
181	29

30	-
----	---

41	12
64	7

30	19-
----	-----

30	25-
90	-

14	3
----	---

40	22
15	15

93	30-
----	-----

72	10-
----	-----

75	45
----	----

30	6
----	---

21	2
----	---

30	10-
----	-----

33	
----	--

100	3
-----	---

140	43-
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1c II
x 30 Top
Estimated
Gas Prod'n

Gas
Conserved

Proposed
Allowable

Sched. 1c III
2000 3/4 x 20 Top
Percentage
July

Estimated
Gas Prod'n

Gas
Conserved

119800		100	23-	119800	
61200		50	14-	61200	
181000		150	37-	181000	
116600	23400	12	17	47000	43000
60000	8500	20	10	50000	11600
64500	2800	50	10	53700	13600
90000	27500	29	18	78000	42500
67000	-5200	42	8	55800	6000
398100	57010	122	63	331500	123600
7200	-	100	82-	7200	-
42600		17	9-	42600	-
397700	176000	138	64	302200	231500
440300	176000	155	55	374800	231500
39700	5300	25	8	33800	14200
120000	21500	40	20	100000	48000
185300	131000	53	17	155300	168000
6150		25	14-	6150	-
3000		25	20-	3000	-
62400	-	75	15	52150	10250
60000	8000	12	5	50000	18000
170000	71000	50	10	150000	101000
59000		12	15	50000	8000
136000	67000	77	13-	126000	79000
37400		17	6-	37400	-
242000	152100	63	57	197500	174600
10000	23000	20	10	50000	33000
60000	3000	19	11	50000	13000
10000		20	5	10000	
46700		55	5	20000	27000
337600	247800	245	57	300000	200500
200000	50000	25	40	150000	110000

Receipts
Sheet 1822

Company Lease	John H/llmole	Daily Avg P.L. Runs May	Daily Avg Gas Prods May
Dixon & Yates			
Ballard A 1,2	60	60	75500
" B 1,2	60	60	86500
Day 1,2	60	60	60200
Saunders 1-6	143	143	112200
Total Dixon Yates	323	323	334400
Fair, R.W. & Foundation			
Brainard 1-2	101	9835	394400
Fair & Bright			
State 1-1,2-1	60	60	82600
Flynn, Welch & Yates			
Langford 1,2	28	2830	105300
State 1	30	2940	39700
Travis 1,2,3	8	756	13200
Total F.W.Y.	66	6520	156200
Franklin Pet. Corp.			
Ballard A 1,2,3	90	9840	144000
" B 1,2,3	78	82	196000
Confield 1,2,3	90	90	86100
Coppedge 2,3	77	7925	56840
Yates III 1-6	180	19135	241200
Total Franklin	516	541	724140
Friendship Oil Co.			
State 1	30	30	30000
Graybury Oil Co.			
State 1	30	2980	106000
Jonas & McKee			
State 1	30		
Seneca-Yates Trust			
Rebman 1	2		
Winkler Trust			
State No 1	20	20	3700
Gray, G. & Madge Trust	4	600	
McIntosh Supply Co.			
Bonnie 10, 8	1	1.1	2000
Miller 16, 20, 3	30	2825	22000
State 1, 2, 3, 4, 5, 6, 7, 8	20	2100	6000
Contingency, Mrs. C.			
Saunders	30	3000	20000
Pennsylvania Co.			
100000	1	22000	60000

Schedule I
3000 G/G x 25 Top
Proposed Over-Under Estimated Gas
Allowed July On Prodn Contract

50	10	63000	12500
50	10	72000	14500
50	10	50100	10100
125	18	96000	16200
275	48	211100	53300

136	35-	345100	49300
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50	10	68500	14100
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41	13-	103300	—
25	5	93800	5900
75	67-	13200	—
141	75-	150300	5900

75	15	109800	34200
68	10	162580	33500
75	15	66950	19150
67	10	48500	8040
150	30	189200	52000
436	80	577280	146890

25	5	25000	5000
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22	8	75000	31000
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20	3	34700	4500
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25	19-	20000	—
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50	20-	73500	—
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50	30-	60200	—
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50	14-	16000	—
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160	38	320000	156500
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Schedule
2000 G/G x
Proposed Over-Under
Allowed July

60	—
55	5
60	—
150	7-
325	2-

126	25-
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60	—
----	---

33	5-
30	—
80	72-
143	77-

90	—
----	---

65	13
----	----

90	—
----	---

78	—
----	---

180	—
503	13

30	—
----	---

17	13
----	----

30	2-
----	----

70	14-
----	-----

40	3-
----	----

47	27-
----	-----

60	2-
----	----

159	39
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1/2 II 30 Top Estimated Gas Prod'n		Schedule III 2000 G/L x 25 Top Proposed Allowable Over-Under July				Estimated Gas Prod'n Gas Conserved.	
75500	—	50	10	63000	12500		
75300	11200	46	14	62700	23800		
60200	—	50	10	50100	10100		
112200	—	125	11	96000	16200		
323200	11200	271	52	271800	62600		
315100	79300	108	7-	229700	104700		
82600	—	50	10	68500	14100		
103300	—	27	1	100000	3300		
39700	—	25	5	33800	5900		
13200	—	67	59-	13200			
156200	—	119	53-	147000	9200		
131800	12200	75	15	109100	34200		
156000	40000	57	21	136000	60000		
86100	—	75	15	66950	19150		
56000	840	68	10	48800	2040		
227100	14100	150	30	189200	52000		
657000	67140	425	91	550750	173390		
30000		25	5	25000	5000		
60000	40000	14	16	50000	56000		
29100	—	25	3	24700	4300		
10000		17	11	20000			
23000		51	20	23000			
60000		40	20	10000			
46500		50	11	41500			
351400	184000	135	62	216100			

Company Lease	July Allowable	Early Avg P.L. Rents May	Daily Avg Gas Price May
Randall, G.H.			
Shelley 1	19	1840	97200
Rose City Oil Co.			
Watson-Smith 1, 2	24	2400	98600
Sallee & Yates			
Ballard B 1, 2	60	6000	174500
State 1-6	120	12000	297800
Sanders Bros			
Guy 1	24	2400	137000
Guy 1HX	30	3000	89000
Guy P 1-H	75	7380	332200
Guy R 1			
Longford 1, 2	24	2400	72000
Miller 1-4	21	1950	7700
Murdock 1	2	150	600
Travis 1-3	24	2260	9800
Total Sanders Bros	200	18900	633400
Stroop & Yates			
Ballard 1, 2, 3	50	5670	153800
Travis 2, 3, 4	25	3570	126300
Suppes & Suppes			
Miller 1, 2, 3	32	3135	15700
Texas Trading Co.			
State A+B	12	12	18000
Woolley, Robert & Bick			
Woolley 1-4	120	1120	140700
Yates, H.E.			
Dunn 1	12	1000	3700
Travis 1	8	500	1300
Yates, Martin Jr			
Brummet 1-11	112	10720	112000
State with Gas	30	2950	9000
Yates, G.P.			
Brummet 1-6	111	1040	31000
Yates, H.H.			
Yates H.H.	120	12030	113100
This Sheet	1073	108090	2692400
Sheet N. 1	1270	116500	3012500
" N. 2	1444	149375	2531500
Total	3787	365035	8306600

Schedule No. I
3405 6/10 x 25 Tip

Proposed Allowable	Over-Under July	Estimated Gas Price	Gas Consumed
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14	5	75000	22200
39	15-	98600	—
47	13	131200	43300
99	21	247300	51500
12	12	75000	77000
25	5	75000	14000
64	11	220200	82000
50	26-	72000	—
75	54-	7800	—
25	23-	600	—
75	51-	9800	—
326	126-	460400	173000
65	11-	135300	11500
67	31-	126500	—
75	43-	15700	—
25	13-	18000	—
106	20	117850	22750
19	4-	57000	—
20	17-	7300	—
88	27	171900	100000
20	8	200	3000
104	7	741500	150000
100	20	107700	1100
1713	140-	2638000	654350
1310	40-	2528600	534700
1405	1-	2086550	465290
3772	185	6653750	1654200

Schedule
2000 6/10

Proposed Allowable	Over-Under July
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11	8
33	9-
44	16
98	22
9	15
20	10
51	24
40	16-
90	69-
30	28-
70	66-
330	130-
67	15-
51	15-
96	58-
30	15-
170	—
15	—
30	22-
70	18
30	—
74	17
170	—
1259	186-
1363	73-
1580	136-
4207	415-

Table II x 30 Top Estimated Gas Prod'n	Gas Conserved	Approximate Allowable	Schedule III 2000 G/s x 25 Top Over Under July	Estimated Gas Prod'n	Gas Conserved
60 000	37200	9	10	50 000	47200
93700	4900	27	3-	83700	14900
120 000	54500	37	23	100 000	74500
240 000	57500	92	28	179 500	77300
60 000	92000	8	16	50 000	102 000
60 000	79000	17	13	50 000	39 000
150 000	122200	42	33	150 000	152200
72000	—	34	10-	72000	—
7800	—	75	54-	7800	—
600	—	25	23-	600	—
9800	—	75	51-	9800	—
390200	243200	276	76-	340600	293700
120300	33500	62	8-	110300	43500
120500	—	42	2-	119000	7500
15700	—	75	43-	15700	—
18000	—	25	13-	18000	—
140700	—	100	20	117800	22000
57000	—	13	2.	57000	7000
73000	—	25	17-	73000	—
183000	153500	70	44	183000	173500
27300	—	20	5	10000	5000
211500	188000	79	32	171500	108000
151500	—	100	2	109700	11400
1921500	770600	1065	15	1680350	1012050
2325750	734100	1131	130	2015300	1002550
2164800	383000	1329	115	1855850	666990
2415350	1592700	3532	255	5580500	2777590

Company Lease Area	July allowable	Daily 800 Oil Prod May	Daily 900 Gas Prod May	B.H.P. C/O
Area No 1 Sec 31, 32, 5, 6, 7, 8	1089	121770	1713840	
Area No 2 Secs 35, 36, 12, 11, 12, 13, 14 Excess allowable - marginal Wells Net estimated Production	1527	182905	2932350	
Area No 3 Secs 33, 34, 3, 4, 7, 12, 13, 14 Excess allowable - marginal Wells Net - estimated Production	957	90123	3171300	
Area No 4 Sec 31, 32, 5, 6, 7, 8, 17, 18 Excess Allowable Net - estimated Production	251	25480	533500	
Field Excess Allowable Net - estimated Production	3824	420368	8356770	

Proposed
 11/15/66
 2000 20/6 21.4%
 2000 20/6 21.4%
 2000 20/6 21.4%

Proposed
 11/15/66
 2000 20/6 21.4%
 2000 20/6 21.4%
 2000 20/6 21.4%

905 184 1345050 350000 21.4%

1004 20

1361 166 2330300 600000 20.7%
 54
 1307

1497 30
 102
 1395

1201 244- 2509700 661600 20.9%
 402
 799

1159 202-
 428
 731

601 350- 513000 10000 3.5%
 223
 368

632 381-
 251
 381

4068 244- 6701900 1655040 20.9%
 689
 3379 11.6%

4302 483-
 781
 3526 7.85%

II

30 T.P.

Estimated
Gas Profit

Gas
Reserves

Estimated
Profitable

Estimated
Selling

Estimated
Gas Profit

Estimated
Reserves

%

1421300 292540 17.5%

855

234

1142000

519790 29.8

2349450 588700 25%

1253

276

1924250

914100 31.1

53

1200

3201800 954500 30.5%

764

127

1947400

1223900 38.6

309

660

500000 33500 6.3%

633

287

475500

58500 10.9

277

356

6472550 1871440 22.5%

3710

216

5541200

2715790

639

3271 19.7%

32.5%

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF THE SCHEURICH UNIT FOR APPROVAL
OF A UNIT OPERATIONS AGREEMENT; FOR
AN UNORTHODOX LOCATION; FOR MODI-
FICATION OF ORDER #562

TO THE HONORABLE OIL CONSERVATION COMMISSION, STATE OF NEW MEXICO:

The petitioner herein, appearing by its attorney, Donald S. Bush, hereby makes application for the approval of a Unit Operations Agreement and an Unorthodox Location, located 2310 feet from the North line and 1260 feet from the West line of Section 32, Township 17 South, Range 30 East, N.M.P.M., Eddy County, New Mexico, said location being closer to the boundary line of the unit than is permitted by present general rules and regulations, and for a modification of Order #562, and, in support of such request, respectfully state as follows:

1. That this application involves the S/2 of the NW/4 and the N/2 of the SW/4 of said Section 32, which 160 acre tract was originally one basic lease from the State of New Mexico.

2. That subsequent assignments of portions of this lease have lodged ownership therein as follows:

- a. SE/4 NW/4 - Aston and Fair, a Partnership in Common composed of Bert Aston and R. A. Fair.
- b. SW/4 NW/4 - Kinfolks Trust, a Trust Estate.
- c. S/2 SW/4 - A Joint Ownership composed of Bert Aston, R. A. Fair, C. A. Scheurich, Mrs. Mirt Franklin and Carl Hatch.

3. That all of said acreage is subject to the rules and regulations of the Loco Hills Pressure Maintenance Association and Order #562 of this Commission, effective April 1, 1944.

4. That said unit operations agreement includes as input wells, one of which is the Aston and Fair-Scheurich State #4 located on the NE/4 SW/4 of said Section 32; that said order was made and issued with the understanding that the Loco Hills

Pressure Maintenance Association Inc. would compensate the owners of such input wells by 60% of the production of each such well.

5. That said Order #562 expressly repealed paragraph 3 of previous Order #339, which permitted the owner of an input well to produce lost allowable from other wells on such owner's lease; that the Loco Hills Pressure Maintenance Association Inc. has now ceased payment of said 60% compensation for the use of said Scheurich State #4 well as an input well and that so long as paragraph 3 of Order #339 remains repealed, the owners of said well are unable to be compensated for its use as an input well.

6. That petitioner desires to drill a well on the unorthodox location, as above set out, for the following reasons, to wit:

a. That three dry holes have been drilled immediately to the South and East of said Scheurich State #4 as evidenced by a map of said area hereto attached and marked exhibit "A", and that it would be extremely hazardous and impractical to attempt the drilling of a producing well in said direction.

b. That it would not be feasible to drill a well too close to said Scheurich State #4 for the reason that such a well would merely siphon off the gas from said input well.

c. That the wells located on the SW/4 NE/4 and the SE/4 NW/4 are both 10 acre locations and that a well drilled on the location herein requested would more efficiently drain said area and furnish maximum ultimate recovery of oil therefrom and therefore will serve to compensate the owners of said Scheurich State #4 well for their lost production.

7. That neither the owners of the SW/4 NE/4 nor the SE/4 NW/4 will contest said unorthodox location, as shown by their signatures approving this petition.

8. That the owners of the acreage contained in this said 160 acre tract desire to enter into a unit operations agreement, for the purpose and under the terms and conditions set

Donald S. Bush
Donald S. Bush
Attorney for Petitioner

37. Gus W. Arnold
Gus W. Arnold, Agent

Robert O'Brien, Attorney in General
by Robert O'Brien
Notary Public, New York

Robert Brown, A. B. Yale, U. S. Geological,
1201 West 12th St., and John H. Allen,
Owens Corning.

10. Plant Order

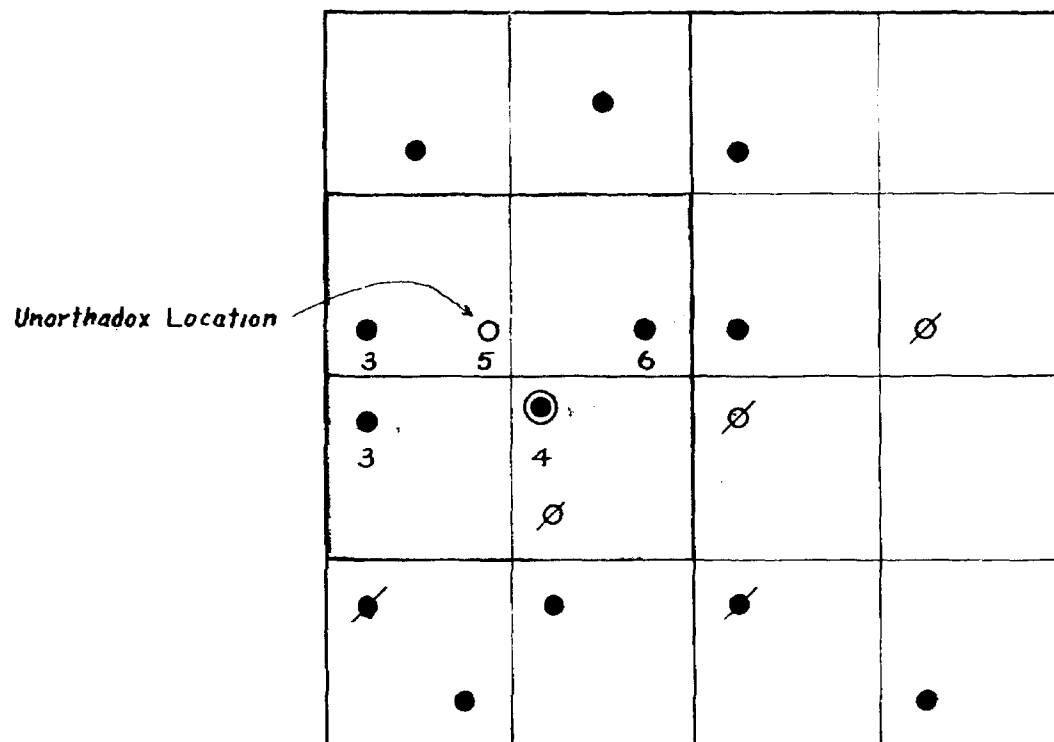
1000 Hills Pressure Transducer Associa-
tion, Inc.

Martin Yates, Jr., Vice Pres.

Sec. 32

Twp. 17S

Rge. 30E



Scale: 1"=1320'

DRAWN BY:

Chuck Weston

Exhibit "A"

A UNIT OPERATING AGREEMENT

This agreement made and entered into by and between the parties, whose signatures appear below, this _____ day of _____, 1947,

WITNESSETH THAT WHEREAS the Kinfolks Trust, a Trust Estate is the owner of a certain oil and gas lease from the State of New Mexico insofar as it covers the SW/4 NW/4 of Section 32 Township 17, South Range 30 East, N.M.P.M., Eddy County, New Mexico, upon which is located the Kinfolks Trust-State No. 3, a producing well, and

WHEREAS Aston and Fair, a tenancy in common composed of Bert Aston and R. W. Fair, is the owner of a certain oil and gas lease from the State of New Mexico insofar as it covers the SE/4 NW/4 of said section 32, upon which is located the Aston and Fair-State No. 6B, a producing well, and

WHEREAS Bert Aston, R. W. Fair, C. A. Scheurich, Mrs. Wirt Franklin, and Carl Hatch, a joint ownership is the owner of a certain oil and gas lease insofar as it covers the N/2 SW/4 of Section 32 and that the Aston and Fair-Scheurich State No. 3, a producing well is located on the NW/4 SW/4 of said section 32 and the Aston and Fair-Scheurich State No. 4 well which is located on the NE/4 SW/4 of said Section 32, is now and has been since the date of the completion thereof been used as an input well, and

WHEREAS the parties hereto desire to operate all of said acreage as above described as a unit for the purpose of providing for the most efficient and economic recovery of oil and gas and to achieve the maximum ultimate recovery thereof without waste,

AND WHEREFORE it is mutually stipulated and agreed as follows:

1. That all of said tracts of land as above described shall be operated subject and subservient to the rules and regulations of the Loco Hills Pressure Maintenance Association Inc. and the orders of the Oil Conservation Commission of the

Exhibit B.

ILLUSTRATION

State of New Mexico, and that the area included in the lands above described shall be known as the Scheurich Unit.

2. That the Aston & Fair-Scheurich State No. 4 well located on the NE/4 SW/4 of said Section 32 shall be continued to be used as an input well in accordance with the rules and regulations of the Loco Hills Pressure Maintenance Association Inc. and order Number 562 of the Oil Conservation Commission effective April 1, 1944.

3. That in order to compensate the owners of the lease on which said input well is located for the loss of production from said input well, and subject to the approval of the Oil Conservation Commission of the State of New Mexico, the Scheurich Unit shall drill a well 2310 feet from the North line and 1260 feet from the West line of said Section 32. In view of the fact that the Aston and Fair-Scheurich State No. 4 well was capable of producing well in excess of the top allowable at the time of completion thereof, when it was designated as an input well, it is desired by the parties hereto to request a top allowable for the new well to be drilled on the unorthodox location as set out above, provided the Oil Conservation Commission of the State of New Mexico consents to said unorthodox location.

4. That the Scheurich Unit will operate all wells producing within the unit and that the production from all of the wells drilled or to be drilled on said lands within the unit area shall be divided among the owners thereof in the same proportion that the acreage owned by each party hereto bears to the whole area within said unit.

5. That the Scheurich Unit will not request a top allowable on any 40 acre tract within said Scheurich Unit unless the well on such 40 acre tract is capable of producing said top allowable.

Kinfolke Trust, a Trust Estate

By _____
J. L. Fair, Trustee.

Aston and Fair, a Tenancy in common

By _____
Bert Aston, Manager

Bert Aston, J. L. Fair, O. L. Scheurich,
Mrs. Mirt Franklin and Carl Hatch, a
Joint Ownership.

By _____
Bert Aston, Manager

ILLUSTRABLE