

3154



State of New Mexico
Commissioner of Public Lands

RAY POWELL, M.S., D.V.M.
COMMISSIONER

310 OLD SANTA FE TRAIL P.O. BOX 1148

(505) 827-5760
FAX (505) 827-5766

March 28, 1995

SANTA FE, NEW MEXICO 87504-1148

Ray Westall Operating, Inc.
P.O. Box 4
Loco Hills, New Mexico 88255

Attention: Mr. Ray Westall

Re: Resignation/Designation of Successor Unit Operator
Culwin Queen Unit
Eddy County, New Mexico

Dear Mr. Westall:

This office is in receipt of a designation of successor unit operator, wherein B & A Operating Company has resigned as unit operator of the Culwin Queen Unit and designated Ray Westall Operating, Inc. as the successor unit operator.

The Commissioner of Public Lands has this date approved the resignation of B & A Operating Company and the designation of Ray Westall Operating, Inc. as the successor unit operator of this unit. This change in operators is effective February 1, 1993. In accordance with this approval, Ray Westall Operating, Inc. is now responsible for all operations and the reporting of all production from the unit.

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

Very truly yours,

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

BY: 
JAMES B. LEWIS, Director
Oil/Gas and Minerals Division
(505) 827-5744

RP/JBL/cpm

Enclosure

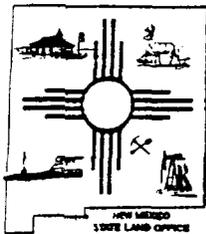
cc: Reader File

B & Operating Company

TRD

OCD

COM. 8-11-95



State of New Mexico
Commissioner of Public Lands

3154

W. R. Humphries
COMMISSIONER

Advisory Board April 2, 1990

George Clark
Chairman

Kristin Conniff
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

B & A Operating Company
P.O. Box 136
Lovington, New Mexico 88260

ATTN: Mr. Don Bell

RE: ~~Culwin Queen Unit~~
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the Culwin Queen Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the Unit may exist. You will be contacted at a later date regarding these possibilities.

Enclosed is an approved copy of the 1990 Plan of Development for your files. If we may be of further help, please do not hesitate to contact Susan Howarth at (505) 827-5791.

Very truly yours,

W. R. HUMPHRIES,
COMMISSIONER OF PUBLIC LANDS

BY:

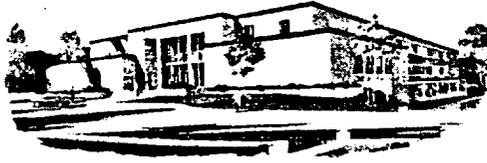
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5749

cc: OCD - Santa Fe, New Mexico
BLM
Unit Correspondence File
Unit P.O.D. File

WRH/FOP/SMH

3154

State of New Mexico



SLO REF NO. OG-457

W.R. HUMPHRIES
COMMISSIONER

Commissioner of Public Lands

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

September 17, 1987

B & A Operating Company
ATTENTION: Mr. D. R. Bell
P. O. Box 136
Lovington, New Mexico 88260

Re: Designation of Successor Unit
Operator, Culwin Queen Unit Area
Eddy County, New Mexico

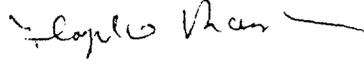
Gentlemen:

The Commissioner of Public Lands has this date approved B & A Operating Company as the successor unit operator for the Culwin Queen Unit Area, Eddy County, New Mexico. The effective date of is May 15, 1987 being the date the Bureau of Land Management approved this instrument. Please submit a revised copy of Exhibit "B".

If we may be of further help please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY: 
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

WRH/FOP/pm

encls.

cc: OCD-Santa Fe, New Mexico
BLM-Roswell, New Mexico
Gulram

State of New Mexico



Commissioner of Public Lands

April 22, 1981

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

ALEX J. ARMIJO
COMMISSIONER

Clifford Cone
P. O. Box 6010
Lubbock, Texas 79413

3154

Re: Culwin Queen Unit
Eddy County, New Mexico
DESIGNATION OF SUCCESSOR
UNIT OPERATOR

Dear Mr. Cone:

We are in receipt of one copy of a "Designation of Successor Unit Operator" dated October 15, 1980, whereby B&A Operating Company has resigned as unit operator and Clifford Cone is designated as successor unit operator for the Culwin Queen Unit Agreement, Eddy County, New Mexico.

The Commissioner of Public Lands has this date approved the selection of Clifford Cone as successor unit operator, effective as of November 12, 1980. The USGS gave their approval April 3, 1981.

One approved copy of the instrument is enclosed herewith for your files.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
FLOYD O. PRANDO, Assistant Director
Oil and Gas Division
AC 505-827-2748

AJA/FOP/s
encl. 1
cc:

USGS-Albuquerque, New Mexico

DCLP:

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 11, 1972

**Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico 88201**

**Re: 1972 Plan of Development
Culwin Queen Unit
Eddy County, New Mexico**

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1972 Plan of Development dated January 11, 1972, for the Culwin Queen Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/og

**cc: United States Geological Survey - Roswell
Commissioner of Public Lands - Santa Fe**

January 20, 1972

Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico 88201

Re: Culwin Queen Waterflood Unit
Eddy County, New Mexico

ATTENTION: Mr. A. D. Kloxin

Gentlemen:

The Commissioner of Public Lands has this date approved your Report of Past Operations as well as your Plan of Development for the year 1972, whereby, you anticipate no further development during 1972. However, the remaining seven producers are still active so that the remaining economic reserves could be recovered as a Unit function.

Enclosed is one approved copy for your files, we have retained two copies for us.

This approval is subject to like approval by the United States Geological Survey.

Very truly yours,

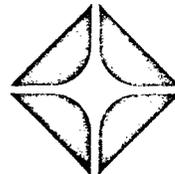
RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓

North American Producing Division
Permian District - West Area
Post Office Box 1978
Roswell, New Mexico 88201
Telephone 505 622 4041

A. D. Kloxin, Superintendent
Production & Drilling



RECEIVED

JAN 12 1972

CONSERVATION COMM.
SANTA FE

January 11, 1972

Director (6)
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201

Oil Conservation Commission (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

File: Culwin Queen Waterflood Unit

Re: Report of Past Operations and
Plan of Development for 1972

Gentlemen:

PAST OPERATIONS:

Water injection into the Culwin Queen Flood was begun 8-31-66. There has been a total of 2,849,369 BW injected into 6 wells with negligible response. Fill up calculations indicate we should have had response several years ago. Due to the lack of response we stopped flooding and are continuing to produce only those wells which are economical. A revised plan of development dated May 19, 1971 was approved by the appropriate state and federal governmental agencies. On 6-1-71 all injection wells were shut in with the exception of Well No. 7 which will be used as an SWD well.

Culwin Queen Unit Waterflood

Page 2

January 11, 1972

Waterflood Data: (Cumulative from 6-1-66 to
6-1-71)

Total Water Injection = 2,849,369 BW (Wells No. 2,
7, 9, 11, 17
& 18)

Total Oil Produced = 65,180 BO

Total Water Produced = 74,220 BW

DEVELOPMENT PLANS FOR 1972:

None anticipated.

Yours very truly,



A. D. Kloxin

Approved *February 11* 1972



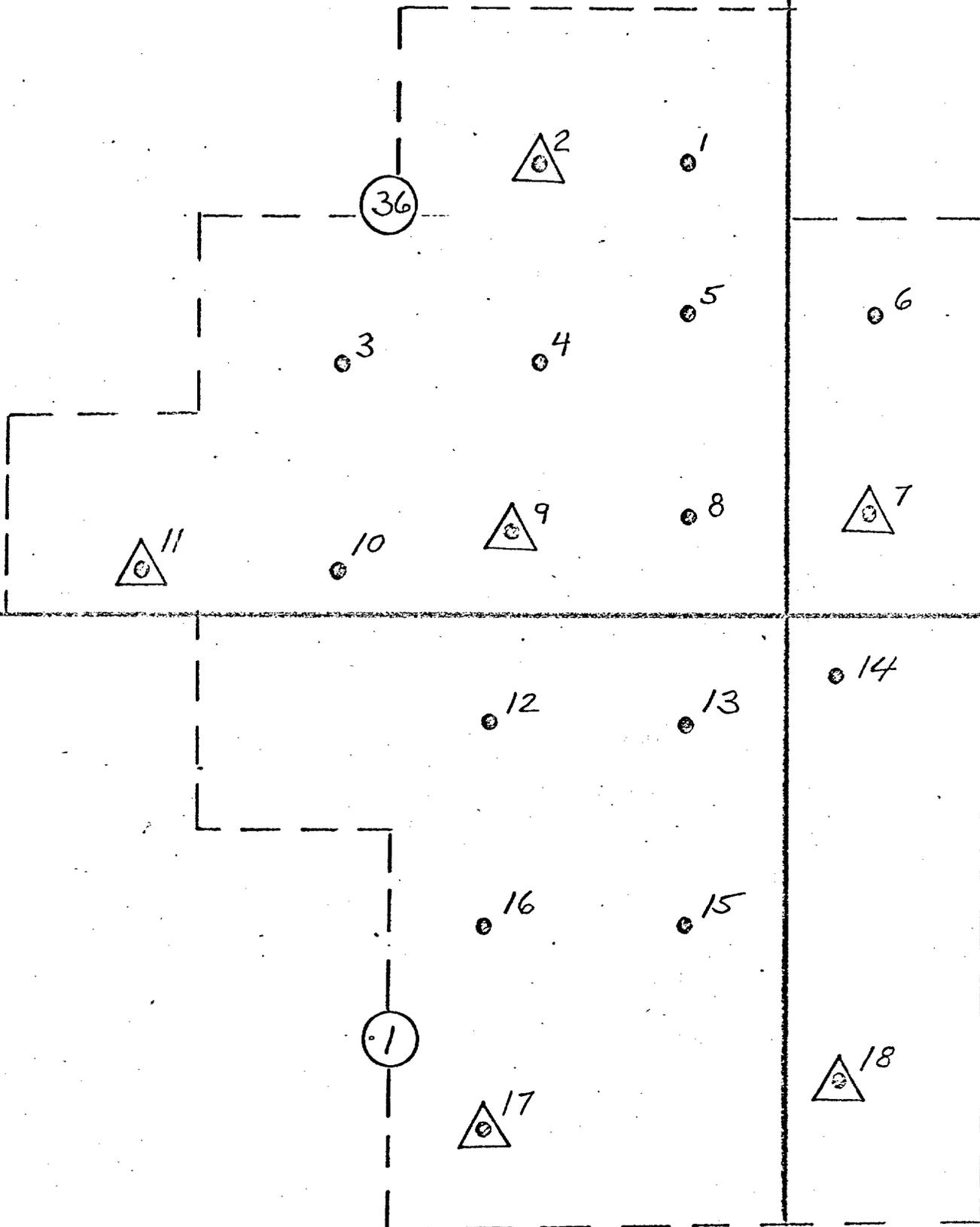
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

CULWIN QUEEN UNIT

R-30-E

R-31-E



7
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(6)

34 JUN 23 1971

May 25, 1971

3154

Hondo Oil and Gas Company
P. O. Box 1978
Roswell, New Mexico 88201

Re: Culwin Queen Unit
Amendment to Plan of Operations
Eddy County, New Mexico

ATTENTION: Mr. A. D. Kloxin

Gentlemen:

The Commissioner of Public Lands has this date given approval to your revised plan of operation for the Culwin Queen Unit, Eddy County, New Mexico, proposing the abandonment of five of the six injection wells and five of the twelve producing wells for economic reasons. Seven producing wells and one injection well will remain active within the unit area. This approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy of the plan.

Sincerely yours,

GORDON G. MARCUM, II, Director
Oil and Gas

AJA/GGM/s
encls.

cc: USGS-Roswell, New Mexico (ltr. only)

OCC: ✓

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Hondo Oil & Gas Company

Box ~~660~~ 1978
Roswell, New Mexico

May 19, 1971

Oil & Gas Supervisor (3)
U. S. Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands (3)
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico

Re: Culwin Queen Unit
Portions of Sec. 31, T18S, R31E; Sec. 36, T18S, R30E;
Sec. 6, T19S, R31E; Sec. 1, T19S, R30E, Eddy Co., N.M.
Plan of Operations; Amendment

Gentlemen,

The Culwin Queen Unit was formed for the purpose of a waterflood project. Injection began August 31, 1966. Included in the project were twelve producers and six injectors. The attached engineering resume' outlines the results of the waterflood project to date. It also recommends abandonment of the flood. There are two attachments to this engineering resume'. One chart gives monthly oil and water production and monthly injection rates and injection pressures. The other chart gives estimated radius of fillup from each injector.

As we can no longer economically operate the waterflood project, Hondo Oil & Gas Company proposes to shut down the injection plant, plug and abandon all of the injectors except the Culwin Queen Unit No. 7 and plug and abandon the Culwin Queen Unit Wells No. 1, 4, 8, 14 and 15, which are now classified as producers. we would then have one injector (Culwin Queen Unit No. 7) and seven producers remaining in the Unit. The remaining active injector would be used to dispose of produced water. The seven

RECEIVED

MAY 20 1971

D. C. C.
ARTESIAN OFFICE

Oil & Gas Supervisor &
Commissioner of Public Lands
Page 2
May 19, 1971

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MAY 24 1971

producers would remain active so that the remaining economic reserves could be recovered as a Unit function.

All working interest owners of the Unit have been notified of this proposal and we now have 100 percent approval. By this letter we are requesting approval of the Commissioner and the Supervisor to amend the Plan of Operations for the operation of the Unit so that we can profitably deplete the remaining recoverable reserves.

Yours very truly,



A. D. Kloxin
Dist. Drly. & Prod. Supt.

ADK/mea

cc: N. M. Oil Conservation Commission (2) ✓
P. O. Drawer DD
Artesia, New Mexico 88210

INTERNAL CORRESPONDENCE

To: Mr. P. E. Fletcher - Midland

From: W. T. Porter - Midland

Subject: Recommended Abandonment of
Culwin Queen Waterflood Unit
Shugart Pool

Date: January 5, 1971

Eddy County, New Mexico

The Culwin Queen waterflood was in the process of being unitized during the completion of the merger between Hondo Oil & Gas Company and The Atlantic Refining Company. The effective date of the unitization was 1-1-65. Atlantic was the operator with 71.6% working interest. The Culwin Queen waterflood began injection 8-31-66. There has been a total of 2,492,299 bbls. of water injected through September 1970. By observing the production curve attached to this letter (Item 1), it becomes obvious that there has been no significant stimulation thus far. The operating statement during the last four quarters shows we have lost \$5,120. It is our recommendation that the water plant be shut down and the water injection wells be P & A. Producers should be P & A as they become uneconomical. Since this is a unit, partners approval will be necessary, as pointed out in the unitization agreement, before project is abandoned.

The main reason why this flood has failed, appears to be the lack of communication between injectors and producers. By correlating logs across the field, there appears to be many thin sand stringers in the Queen zone. These stringers apparently are not continuous to the producers. If all of the injection water were confined to the injection interval a total of 273% of fillup has been reached to date. A plat of the flood area is attached to this letter (Item 2) which shows the current and cumulative production history along with the calculated radius of fillup in each injection well. Tracers were run throughout the life of the flood which indicated that water was leaving the well bore in the desired interval. Many buildup pressures have been run which show low permeability with little well bore damage. Buildup pressures were run 10-29-70 on producing wells Nos. 8 and 10, to compare them with the previous buildup. Well No. 8 had a BHP of 142# after 77 hours. The previous buildup taken 10-14-68 showed 131# after 72 hours. Well No. 10 had a BHP of 66# after 78½ hours. The previous buildup taken 1-10-69 showed 56# after 72 hours. This indicates no significant effect from the waterflood.

Mr. P. E. Fletcher
January 5, 1971
Page 2

Within 2 months after the injection was begun, the pressure had reached 1400#. During 1970, the average injection pressure has run about 1950#, and the rate of injection has declined rapidly. Water injection wells Nos. 11, 17, and 18, have an average pressure of 2276# which is 1.2 psi/ft. of depth. This pressure is exceeding the overburden and is probably fracturing vertically. Dropping pressures to a safe point would result in a great reduction in rate. Since we are losing money, we have no alternative but to abandon the flood.

W. T. Porter

W. T. Porter

WTP/egp

cc: Messrs. A. D. Kloxin - Roswell
D. J. Biard - Midland
E. T. Hill - Midland
E. M. Pringle - Roswell
D. L. Wright - Roswell
W. A. Keeler - Dallas

JLWIN QUEEN WATERFLOOD UN.

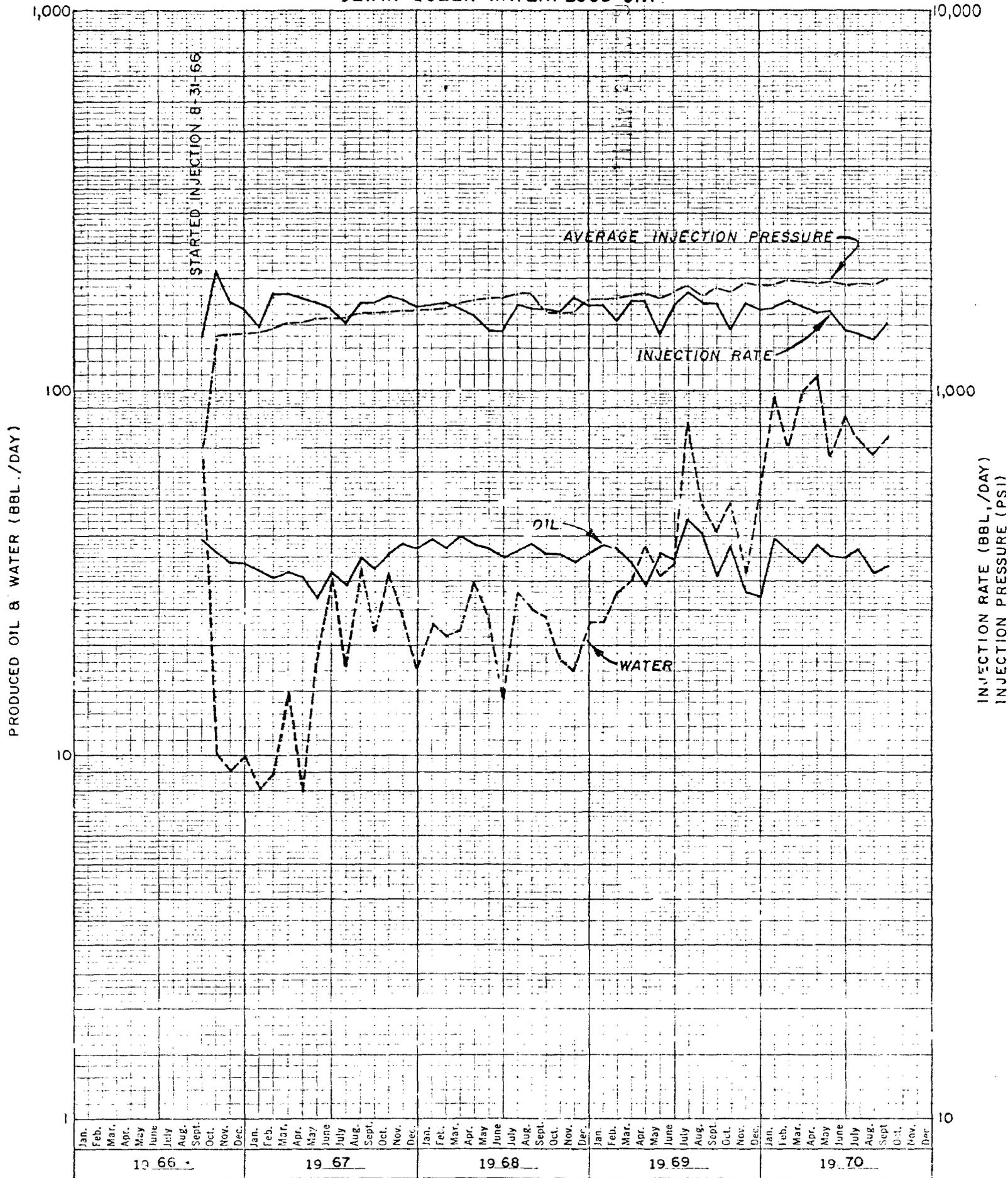
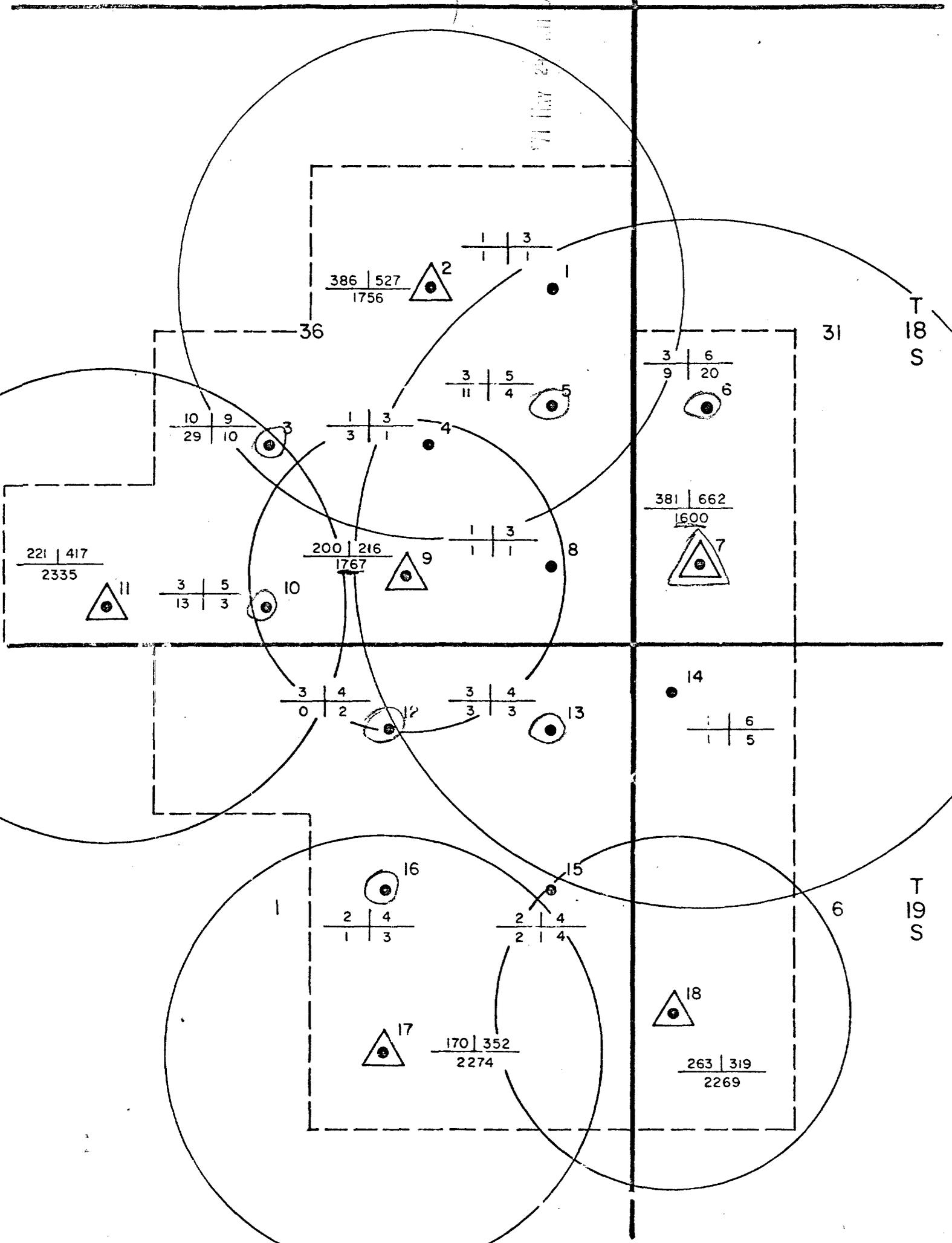


CHART NO. I

R-33-E

R-31-E



LEGEND

- PRODUCING WELLS $\frac{\text{BOPD}}{\text{BWPD}} \mid \frac{\text{CUMULATIVE OIL PRODUCTION (1000^5 \text{BBLs})}}{\text{CUMULATIVE WATER PRODUCTION (1000^5 \text{BBLs})}}$
- ▲ INJECTION WELLS $\frac{\text{BWPD}}{\text{WELL HEAD PRESSURE (PSIG)}} \mid \frac{\text{CUMULATIVE WATER INJECTION (1000^5 \text{BBLs})}}{\text{CUMULATIVE WATER PRODUCTION (1000^5 \text{BBLs})}}$
- CALCULATED RADIUS OF FILLUP (WITH NO LOSS TO OTHER FORMATIONS)

CHART NO. II

Atlantic Richfield Company
 North American Producing Division
 Permian District, Midland Texas



CULWIN QUEEN UNIT
 MONTH OF SEPTEMBER
 Eddy County, New Mexico

BY	W.T.P.	DRAWN BY	B.E.S.	DATE	1-7-71
DATE	11-20-70	REVISED BY		DATE	
DEPT		UNIT NO.			

Hondo Oil & Gas Company

P. O. Box 1978

~~Box 660~~

Roswell, New Mexico

May 25, 1966

MAIL OFFICE 019

'66 MAY 26 PM 1 14

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

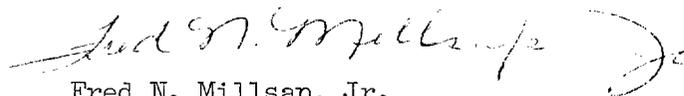
Re: Culwin Queen Unit
Eddy County, New Mexico

Gentlemen:

Attached is the U.S.G.S. approval of our Culwin Queen Waterflood Unit. If you need additional copies, please advise.

Yours very truly,

HONDO OIL & GAS COMPANY



Fred N. Millsap, Jr.
Land Department

FNM/dlm
Attach.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

MAIN OFFICE 010

'66 MAY 26 PH 1 14

MAY 19 1966

Hondo Oil and Gas Company
Post Office Box 1978
Roswell, New Mexico

Gentlemen:

On May 19, 1966, Arthur A. Baker, Acting Director of the Geological Survey, approve the Culwin Queen unit agreement, Eddy County, New Mexico, filed by your company as unit operator. This agreement has been designated No. 14-08-0001-8772, and is effective as of June 1, 1966.

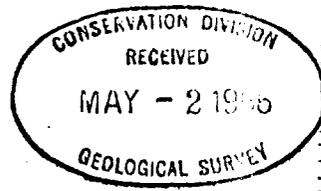
Enclosed is one copy of the approved unit agreement for your records. We request that you furnish the State of New Mexico, and any other interested principal with whatever evidence of this approval is deemed appropriate.

Sincerely yours,

For the Director

Enclosure

CERTIFICATION--DETERMINATION
14-08-0001 8772



MAIN OFFICE 0000

'66 MAY 26 PM 1 14

Pursuant to the authority vested in the Secretary of Interior, under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U. S. C. secs. 181, et seq., and delegated to the Director of the Geological Survey pursuant to Departmental Order No. 2365 of October 8, 1947, I do hereby:

A. Approve the attached agreement for the development and operation of the Culwin Queen Unit Area, Eddy County, New Mexico.

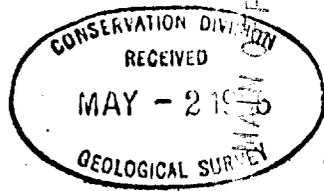
B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.

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 MAY 19 1966

Arthur O. Baker
ACTING Director, United States Geological Survey

CERTIFICATION--DETERMINATION
14-08-0001 8772



66 MAY 26 PM 1 15

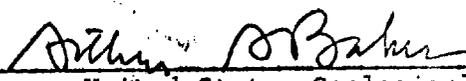
Pursuant to the authority vested in the Secretary of Interior, under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U. S. C. secs. 181, et seq., and delegated to the Director of the Geological Survey pursuant to Departmental Order No. 2365 of October 8, 1947, I do hereby:

A. Approve the attached agreement for the development and operation of the Culwin Queen Unit Area, Eddy County, 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 MAY 19 1966


ACTING Director, United States Geological Survey

CLARENCE E. HINKLE
W. E. BONDURANT, JR.
S. B. CHRISTY IV
LEWIS C. COX, JR.
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY
MICHAEL P. WALLER

LAW OFFICES
HINKLE, BONDURANT & CHRISTY
HINKLE BUILDING
ROSWELL, NEW MEXICO

OF COUNSEL: HIRAM M. DOW

TELEPHONE 622-6510
AREA CODE 505
POST OFFICE BOX 10

November 16, 1964

Oil Conservation Commission
Box 2088
Santa Fe, New Mexico

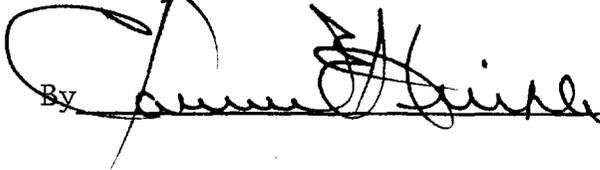
Re: OCC Cases 3154 and 3155

Gentlemen:

The Atlantic Refining Company has advised us that there has been a delay in having the proposed unit area for the Culwin Queen Unit in Eddy County designated as an area logically subject to unitization and Atlantic would prefer not to have the hearing on the unit agreement until after the area has been approved by the U.S.G.S. and the Commissioner of Public Lands. Because of this situation we would appreciate your continuing case No. 3154, being the hearing on the unit agreement and case No. 3155, being the application for approval of the unit water flood project until the last examiner hearing in December.

Yours very truly,

HINKLE, BONDURANT & CHRISTY

By 

CEH:cs

cc: W. P. Tomlinson, Roswell

cc: The Atlantic Refining Company, Dallas

DOCKET MAILED

Date 11-16-64

