

CASE NO.

6505

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,
ETC.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 6505
Order No. R-5972

APPLICATION OF DOYLE HARTMAN FOR
VERTICAL POOL LIMIT REDEFINITION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 28, 1979,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 9th day of April, 1979, the Division
Director, having considered the testimony, the record, and the
recommendations of the Examiner, and being fully advised in the
premises,

FINDS:

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

(2) That the applicant, Doyle Hartman, seeks an order
extending the vertical limits of the Langlie Mattix Pool in
Lea County, New Mexico, to include the lowermost 200 feet of
the Seven Rivers formation and the concomitant contraction of
the vertical limits of the Galmat Gas Pool underlying the
following described lands:

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM
Section 35: SW/4, S/2 SE/4 and NW/4 SE/4
Section 36: W/2 SW/4

TOWNSHIP 24 SOUTH, RANGE 36 EAST, NMPM
Section 1: NW/4, S/2 NE/4 and NW/4 NE/4
Section 2: W/2

(3) That the applicant proposed to amend the subject
application to involve only the lowermost 165 feet of the Seven
Rivers formation rather than 200 feet.

(4) The amendment of the application should be approved.

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Case No. 6505
Order No. R-5972

(5) That Doyle Hartman is the owner and operator of certain wells on applicant's leases in said Section 36 and said Section 2.

(6) That some of said wells have been completed within the vertical limits of the Langlie Mattix Oil Pool in Lea County, New Mexico.

(7) That because of the applicant's use of an incorrect geologic marker certain of said wells were also completed above the upper limit of said Langlie Mattix Pool but within 65 feet thereof as presently defined.

(8) That the applicant seeks the proposed amendment to the vertical limits of said Langlie Mattix and Jalmat Pools to permit production of said wells without the necessity for working over and plugging off of the upper zones therein.

(9) That no offset operator or other owner in either of said pools appeared and objected to the application.

(10) That there are areas within said Langlie Mattix Pool which have similar extensions to the vertical limits thereof.

(11) That the proposed change in the vertical limits of said pools should apply only to the applicant's acreage in said Section 36 and said Section 2 and not to said Section 35 and said Section 1 which contain leases owned by a different operator who filed a written protest.

(12) That to avoid drilling unnecessary wells, to prevent waste, and to protect correlative rights, the application to amend the vertical limits of said pools should be approved as to applicant's acreage in said Section 36 and said Section 2.

IT IS THEREFORE ORDERED:

(1) That effective April 1, 1979, the vertical limits of the Langlie Mattix Pool in Lea County, New Mexico, are hereby extended to include the lowermost 165 feet of the Seven Rivers formation and the vertical limits of the Jalmat Gas Pool are concomitantly contracted by exclusion of said lowermost 165 feet of the Seven Rivers formation underlying the following described lands:

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM
Section 36: W/2 SW/4

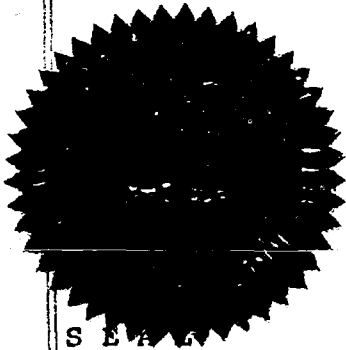
TOWNSHIP 24 SOUTH, RANGE 36 EAST, NMPM
Section 2: W/2

-3-

Case No. 6505
Order No. R-5972

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

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

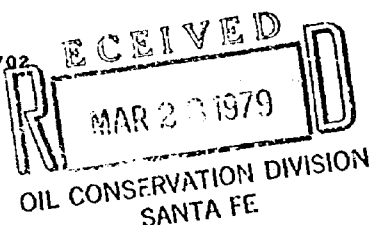
Joe D. Ramey
JOE D. RAMEY
Director

fd/

(915) 682-6482 - OFFICE
694-5472 - RESIDENCE

JAMES A. DAVIDSON
Oil & Gas Properties
P. O. BOX 494
MIDLAND, TEXAS 79702

March 26, 1979



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

Attention: Mr. R. L. Stamets, Examiner

Re: Case No. 6505
Doyle Hartman Application to
Modify Vertical Limits of
Langlie Mattix Pool: Secs. 1
and 2, T-24-S, R-36-E, and
Secs. 35 and 36, T-23-S,
R-36-E, Lea County, New Mexico

Gentlemen:

Reference is made to the above noted application.

I am a working interest owner in a number of wells in New Mexico (including Mobil's North Vacuum Abo Waterflood and wells operated by several independents). I am aware that in the Jalmat-Langlie Mattix Pool, it is common to have Langlie Mattix completions above the Langlie Mattix top agreed to by the Industry Committee.

It is my opinion that approval of this application will allow continued energy production during this period of energy shortage. Also, the Hartman-State of New Mexico Citgo "LM" Lease in W/2 SW/4 Sec. 36, T-23-S, R-36-E, is directly offset by two injection wells in the Langlie Mattix interval. This will eventually result in this lease being watered out so it is important that this lease be allowed to continue to produce.

Therefore, I fully support this application.

Thank you for your consideration.

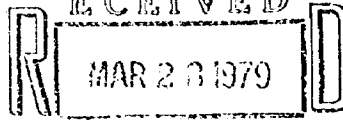
Very truly yours,


James A. Davidson

JAD/mv

CENTURION OIL & GAS CORPORATION
CHANCELLOR BUILDING
MIDLAND, TEXAS 79701

March 26, 1979



OIL CONSERVATION DIVISION
SANTA FE



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

Re: Case No. 6505
Doyle Hartman Application
For Langlie Mattix
Interval Exception

Attention: Mr. R. L. Stamets

Gentlemen:

We support the application requested by Doyle Hartman on the above referenced.

In the Jalmat-Langlie Mattix Pool area of Southeast Lea County it is not uncommon to have Langlie Mattix wells producing above the Langlie Mattix pick chosen by the Industry Geological Committee.

By approving the referenced application, it appears that hydrocarbons will be produced that would not otherwise be produced. The NMOCC has previously granted Langlie Mattix exceptions so there is no geological reason why this application should be denied.

In conclusion, We fully support the above referenced application by Doyle Hartman.

Very truly yours,

CENTURION OIL & GAS CORPORATION

Royce E. Lawson Jr.
Royce E. Lawson, Jr., President

REL:md

western union

Telegram

western union

Telegram

western union

IPMFEKA SANA
1-0037295086 03/27/79

TWX HOBBS CONOCO

001 HOBBS, NM 88240 MARCH 27, 1979

PMS STATE OF NEW MEXICO

ENERGY & MINERALS DEPT.

OIL CONSERVATION DIVISION

ATTN: MR. R. L. STAMETS, EXAMINER

P. O. BOX 2088

SANTA FE, NM 87101

RECEIVED
MAR 27 1979
OIL CONSERVATION DIVISION
SANTA FE

RE CASE 6505, MARCH 28 DOCKET. OTHER ENGAGEMENTS PRECLUDE OUR APPEARING IN PERSON. CONOCO IS CONCERNED AT THE PRESENT TENDENCY TO BEND POOL DEFINITIONS FOR THE CONVENIENCE OF VARIOUS INDIVIDUALS. THE JALMAT-LANGLIE MATTIX POOL BOUNDARY HAS SERVED THE INDUSTRY AND STATE WELL FOR TWENTY-SEVEN YEARS AND WE BELIEVE THIS IS NOT THE TIME FOR CHANGES IN SMALL ISOLATED AREAS. BASED ON INFORMATION AVAILABLE TO US, THE INTERVAL BEING ADDED TO THE LANGLIE-MATTIX POOL APPEARS TO BE GAS PRODUCTIVE, RATHER THAN OIL PRODUCTIVE, AND THEREFORE APPROPRIATELY ASSIGNED TO JALMAT POOL.

OUR SECOND CONCERN IS THAT THERE MAY BE A PROBLEM OF DIVERSE OWNERSHIP IN THE TWO POOLS, BUT CITIES SERVICE HAS INFORMED US THAT APPLICANT HAS EARNED ALL RIGHTS TO TOTAL DEPTH DRILLED UNDER AGREEMENT. THIS BEING THE CASE, CONOCO RECOMMENDS THAT THE POOL LIMITS NOT BE CHANGED AND THE APPLICANT'S PROBLEM BE HANDLED THROUGH APPLICATION FOR DOWNHOLE COMMINGLING, TO WHICH CONOCO WILL WAIVE OBJECTION.

L P THOMPSON &
DIVISION MANGER
CONTINENTAL OIL CO
P. O. BOX 460
HOBBS, NM 88240
TWX #: 910-986-9732

V. T. LYON
DIRECTOR CONSERVATION
CONTINENTAL OIL CO
P. O. BOX 2197
HOUSTON, TX 77001
TWX #: 910-881-2559

1113 EST

IPMFEKA SANA

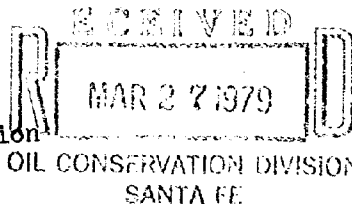
Highland Production Company

PHONES 362-2323 - 563-2086
ODESSA, TEXAS -- 79762

P. O. BOX 4725
6326

W. NELSON REES, PRES.
MARVIN L. SMITH, V. PRES.
W. N. REES, JR., SEC.-TREAS.

March 23, 1979



New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, NM 87501
Attn: R. L. Stamets, Examiner

Re: Case #6505
Doyle Hartman application for Langlie Mattix
Interval Redefinition: S 35 and S 36 T-23/S
and Range 36E and S1 and 2 T-24/S Range 36E
Lee County, New Mexico.

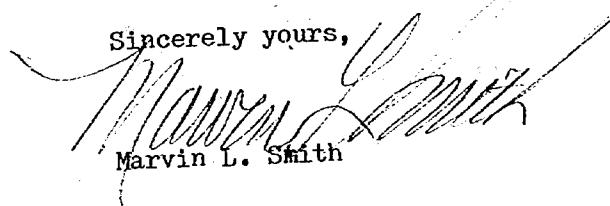
Gentlemen:

With reference to the above noted application, Highland Production Company concurs with the request placed before the New Mexico Oil Conservation Commission by Doyle Hartman.

As an Operator, Working Interest Owner, Royalty Interest Owner, and Oil & Gas Producer in Lee County, NM., Highland Production Company is aware that many active Langlie Mattix wells in the Jalmat - Langlie Mattix Pool area are producing from an interval above the Langlie Mattix top as defined by the Industry Geological Committee.

It is Highland's opinion that approval of the above noted request will maximize Hydrocarbon recovery from the subject properties, thereby, resulting in the conservation of a valuable energy resource. Furthermore, since the New Mexico Oil Conservation Commission has previously granted similar Vertical Interval exceptions in Southeast Lee County, there appears to be no reason geologically to deny the Vertical Interval Redefinition requested in case #6505.

Sincerely yours,


Marvin L. Smith

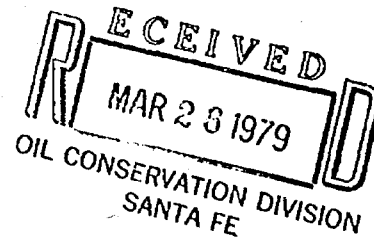
MLS:jlf

D. L. HANNIFIN

P. O. BOX 182

ROSWELL, NEW MEXICO 88201

505-623-4618



March 23, 1979

Oil Conservation Commission
P. O. Box 2888
Santa Fe, New Mexico 87501

Re: Case #6505, Doyle Hartman
Application for a Langlie,
Mattix interval exception.


Gentlemen:

As a non-operating working interest owner under the wells involved in the above case, I am advising you that I support Mr. Hartman on this application.

As I am a joint interest owner with other operators in this field, I know that it is not an unusual occurrence for the necessity of an exception being granted. I feel that hydrocarbons shall be recovered that would not have otherwise been recovered without drilling being done in this method.

Thank you for your consideration.

Sincerely yours,


D. L. Hanniffin

DLH/mah

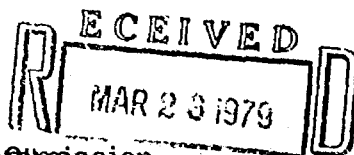


RESERVE OIL, INC.

THE SOUTHERN DIVISION

312 HBF BUILDING
MIDLAND, TEXAS 79701
(915) 682-4341

March 23, 1979



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

Attention: Mr. R. L. Stamets, Examiner

Re: Case No. 6505
Doyle Hartman Application to
Modify Vertical Limits of Langlie
Mattix Pool: Secs. 1 and 2,
T-24-S, R-36-E, and Secs. 35 and
36, T-23-S, R-36-E, Lea County,
New Mexico

Gentlemen:

With reference to the above noted application, Reserve Oil, Inc. supports the application requested by Doyle Hartman.

As operator of both the Cooper Jal Unit waterflood and the South Langlie Jal Unit waterflood in Southeast Lea County, we are aware that it is a very common occurrence in the Jalmat-Langlie Mattix Pool area to have Langlie Mattix wells producing above the official Langlie Mattix top agreed upon by the Industry Geological Committee.

It is our opinion that approval of the subject application will allow hydrocarbons to be produced that would otherwise not be produced. Furthermore, since the NMOCC has previously granted similar Langlie Mattix exceptions to both Reserve's Cooper Jal Unit waterflood (R-4019) and Union Texas Petroleum's Langlie Jal Unit waterflood (R-4929), there is no geological reason to deny the application requested in Case 6505.

In summary Reserve fully supports the above noted application by Doyle Hartman.

Very truly yours,

RESERVE OIL, INC.

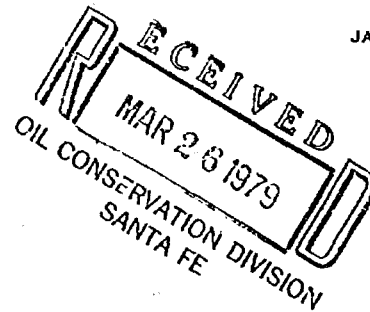
Clarence R. Chandler

ck

LEWIS B. BURLESON

JACK HUFF

BURLESON & HUFF
OIL PROPERTIES
BOX 2479 - PHONE 683.4747
MIDLAND, TEXAS 79702
March 23, 1979



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

Attention: Mr. R. L. Stamets

Re: Case No. 6505
Doyle Hartman Application
For Langlie Mattix
Interval Exception

Gentlemen:

I fully support Doyle Hartman's application for Langlie-Mattix exception in Case No. 6505.

The exact boundaries between Jalmat and Langlie-Mattix Fields is hard to ascertain and there are probably many wells who are unknowingly producing in the wrong limits as established by the Industry Geological Committee.

Sincerely,

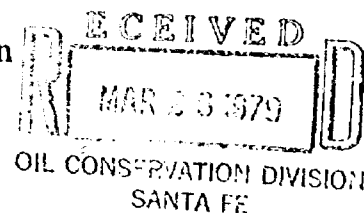
BURLESON & HUFF

A handwritten signature in cursive script, appearing to read "L. B. Burleson", followed by a horizontal line.

Lewis B. Burleson

LBB/sw

P. Edward Corrigan
Post Office Box 76
Midland, Texas 79702
March 23, 1979



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

Attention: Mr. R. L. Stamets, Examiner

Re: Case No. 6505
Doyle Hartman Application
for Langlie Mattix Pool
Vertical Limits Exception:
Secs. 1 and 2, T-24-S,
R-36-E, and Secs. 35 and 36,
T-23-S, R-36-E, Lea County,
New Mexico

Gentlemen:

With reference to the above noted application, the Hugh Corrigan II family supports the application submitted by Doyle Hartman before the NMOCC.

As both a mineral owner and working interest owner in numerous properties in Lea County, we are aware that in the Jalmat-Langlie Mattix area many Langlie Mattix wells have been completed above the Langlie Mattix top as defined by the Industry Geological Committee.

Although Mr. Hartman's specific application does not involve Corrigan Family properties, it is our opinion that the subject application will allow hydrocarbons to be produced that would otherwise not be produced and approval of the application by the NMOCC would promote conservation of a critical natural resource and protect correlative rights to the greatest degree. Furthermore, since the NMOCC has previously granted similar Langlie Mattix interval exceptions (examples being R-4019 and R-4929), there is no geological reason to deny the application requested in Case 6505.

In summary, the Corrigan Family fully supports the above application by Doyle Hartman.

Very truly yours,

P. Edward Corrigan
P. Edward Corrigan

PEC/mv



ROBERT H. HANNIFIN
OIL OPERATOR
BOX 218 - PHONE 694-5352
MIDLAND, TEXAS 79702
March 23, 1979

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

Attn: Mr. R. L. Stamets

Re: Case No. 6505
Doyle Hartman Application
for Langlie Mattix
Interval Exception

Gentlemen:

In reference to the subject application, I support Doyle Hartman's request.

I participated as a non-operator in numerous wells in the Jalmat - Langlie-Mattix area of Lea County. I have noticed that it is very difficult to pick the precise Langlie-Mattix top. My participation, of course, has been with several different operators.

Yours very truly,

Robert H. Hannifin
Robert H. Hannifin

RHH/sw

BLACK RIVER CORPORATION

2100 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

RECEIVED

MAR 23 1979

915 683-5384

March 23, 1979 OIL CONSERVATION DIVISION
SANTA FE

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

Attention: Mr. R. L. Stamets

Re: Case No. 6505
Doyle Hartman Application
For Langlie Mattix
Interval Exception

Gentlemen:

With reference to the above noted application, the undersigned supports the application requested by Doyle Hartman.

It is not an uncommon occurrence in the Jalmat-Langlie Mattix Pool area of Southeast Lea County to have Langlie Mattix wells producing above the Langlie Mattix pick chosen by the Industry Geological Committee.

It appears that by approving the subject application, hydrocarbons will be produced that would not otherwise be produced. Furthermore, since the NMOCC has previously granted Langlie Mattix exceptions, there is no reason geologically why this application should be denied.

In summary, we fully support the above noted application by Doyle Hartman, and believe that the best interests of all concerned will be enhanced by such approval.

Very truly yours,

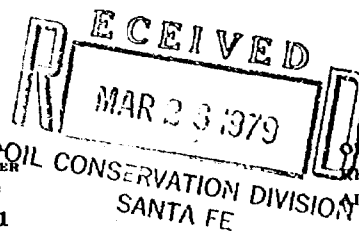


Tommy Phipps
Executive Vice President

TP:rm

JOHN YURONKA
CONSULTING PETROLEUM ENGINEER
102 PETROLEUM BUILDING
MIDLAND, TEXAS 79701

March 23, 1979



OFFICE 684-6223
RESIDENCE 683-4579
AREA CODE 915

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

Attn: Mr. R. L. Stamets

Re: Case No. 6505
Doyle Hartman Application
for Langlie Mattix Interval
Exception

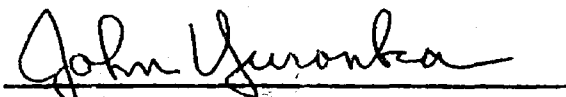
Dear Mr. Stamets:

With this letter, the undersigned supports Doyle Hartman's application in the captioned Case.

Over the years, many wells have been completed in the Jalmat-Langlie Mattix Pool of Lea County, New Mexico, above the Langlie Mattix Pool interval as designated by the Industry Geological Committee. Undoubtedly, this has occurred because of the difficulty in correlating logs over the wide area involved and has consequently caused a variance in a top of the Queen pick.

Therefore, the undersigned supports the application of Doyle Hartman.

Very truly yours,


John Yuronka

JY/ph

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
28 March 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of Doyle Hartman for verti-) CASE
cal pool limit redefinition, Lea County,) 6505
New Mexico.)

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Lynn Teschendorf, Esq.
Legal Counsel for the Division
State Land Office Building
Santa Fe, New Mexico 87503

For the Applicant:

William F. Carr, Esq.
CAMPBELL & BLACK, P. A.
P. O. Box 2208
Jefferson Place
Santa Fe, New Mexico 87501

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (SOS) 471-2462
Santa Fe, New Mexico 87501

I N D E X

DOYLE HARTMAN

Direct Examination by Mr. Carr 4
Cross Examination by Mr. Stamets 26

E X H I B I T S

Applicant Exhibit One, Log 6
Applicant Exhibit Two, Plat 6
Applicant Exhibit Three, Cross Section 9
Applicant Exhibit Four, Cross Section 10
Applicant Exhibit Five, Cross Section 22
Applicant Exhibit Six, C-104's & 105's 23

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3010 Plaza Blanca (505) 471-2462
Santa Fe, New Mexico 87501

MR. STAMETS: We'll call next Case 6505.

MS. TESCHENDORF: Case 6505. Application of Doyle Hartman for vertical pool limit redefinition, Lea County, New Mexico.

MR. CARR: May it please the Examiner, I'm William F. Carr, Campbell and Black, P. A., Santa Fe, appearing on behalf of the applicant. I have one witness.

MR. STAMETS: I'd like to have him stand and be sworn, please.

(Witness sworn.)

MR. STAMETS: You may proceed when ready, Mr. Carr.

MR. CARR: Initially, Mr. Examiner, we would request -- as you will note, we have requested that the vertical limits of the Langlie Mattix Pool be redefined to include the lowermost 200 feet of the Seven Rivers formation.

We would like to change that. We really would request that it be extended to include only the 165 lowermost feet. This will avoid other conflicts that would result from the larger request.

And so we would request that the application be treated only as a request to include the lowermost 165

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (SOS) 411-3462
Santa Fe, New Mexico 87501

1 feet of the Seven Rivers formation.

2 MR. STAMETS: And then the remainder, the
3 remaining 35 feet would stay in the Jalmat Pool?

4 MR. CARR: Yes, would not be affected.

5 MR. STAMETS: All right, we will consider
6 that change since it is less than what was advertised.

7
8 DOYLE HARTMAN

9 being called as a witness and having been duly sworn upon
10 his oath, testified as follows, to-wit:

11
12 DIRECT EXAMINATION

13 BY MR. CARR:

14 Q Will you state your full name, please?

15 A Doyle Hartman.

16 Q Where do you reside?

17 A Midland, Texas.

18 Q And you are the applicant in this case?

19 A That is correct.

20 Q Mr. Hartman, have you previously testified
21 before this Commission and had your credentials as an en-
22 gineer accepted and made a matter of record?

23 A Yes, they have been.

24 Q And you are familiar with the area which is
25 the subject matter of this application?

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3030 Plaza Blanca (905) 471-9192
Santa Fe, New Mexico 87501

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
8030 Plaza Blanca (SOS) 471-2462
Santa Fe, New Mexico 87501

1 A. Yes.

2 MR. CARR: Are the witness' qualifications

3 acceptable?

4 MR. STAMETS: They are.

5 Q. (Mr. Carr continuing.) Mr. Hartman, will

6 you briefly state what you are seeking with this applica-

7 tion?

8 A. What we are seeking is to have in the area

9 outlined in our application, which consists of parts of

10 Sections 35 and 36, Township 23 South, Range 36 East, and

11 parts of Sections 1 and 2 of 24, 36, we're requesting that

12 the vertical limits of the Langlie Mattix Pool be extended

13 from 100 feet above the top -- yeah, the top of the verti-

14 cal limits be extended from 100 feet above the top of the

15 Queen formation, as defined by the industry committee and

16 the pick that's used by the New Mexico Oil Conservation

17 Commission. We want to extend it from 100 feet above that

18 point to 165 feet above that point.

19 Q. Now, Mr. Hartman, would you summarize for

20 the Examiner the events which resulted in your filing this

21 application?

22 A. Yes. We have -- have four wells which

23 we've drilled and filed as Langlie Mattix wells, which were

24 reviewed recently by the OCC office in Hobbs, and we were

25 contacted and informed that our completion zone extended

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (601) 471-2462
Santa Fe, New Mexico 87501

1 above the official top of the Langlie Mattix Pool as defined
2 by the OCC.

3 Q Mr. Hartman, in determining that these wells
4 were Langlie Mattix completions were you using the same
5 picks as other companies in the area use in determining
6 whether or not they have Langlie Mattix wells?

7 A Well, we were not using, apparently -- this
8 is what resulted in a problem -- we were not using the
9 pick that is used by the OCC; however, we were using a pick
10 that is commonly used in the area.

11 Q Will you refer to what has been marked for
12 identification as Hartman Exhibit Number One, and explain
13 to the Examiner what it is and what it shows?

14 A Okay. Exhibit Number One is a type log
15 that gives the geological tops in the area and the defini-
16 tions of the Langlie Mattix Pool as defined by the OCC,
17 plus the definitions of the tops, say that we have used,
18 and also the original definition of what we were asking an
19 exception for, although we've now moved down our request to
20 the top of where we were calling the Langlie Mattix.

21 Q I would now direct your attention to what
22 has been marked as Exhibit Number Two and ask you to ident-
23 ify this for the Examiner.

24 A Okay. Exhibit Number Two is a plat con-
25 toured on the Yates interval, and also it's simultaneously

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (606) 471-2462
Santa Fe, New Mexico 87501

1 a well plat of a portion of southeast Lea County, consisting
2 of 24 South, 36 East; 24, 37; 23, 36; and 23, 37.

3 Q And what does the yellow line on this plat
4 indicate?

5 A Okay, the yellow outline is an outline of
6 the requested area that we were asking the exception for.

7 Q Now I notice this covers certain property
8 of Continental Oil Company, is that correct?

9 A That is correct.

10 Q Why were these tracts included in your
11 application?

12 A Well, on February 27th we talked to Con-
13 tinental and they asked us at that time to include these
14 particular tracts in our application.

15 Q And who with Continental made this request?

16 A Mr. Ron McWilliams. He's in their Hobbs
17 office.

18 Q And at this point in time do you have any
19 interest in whether or not they are actually included with-
20 in any order that results from this Commission or not?

21 A Well, apparently from our position that
22 would make no difference, but I would like to point out that
23 we were informed yesterday that Continental was opposing
24 our application, and we find that contrary to their original
25 request.

1 Q Now I would ask you to explain what the red
2 lines are on this plat?

3 A Okay, the red lines are three cross sections
4 that we would like to present as information on the geolo-
5 gical study of the area.

6 Q Now you have performed a geological study
7 on the entire area?

8 A Essentially, yes. We must say that due to
9 a limited amount of time in preparing, it would be impos-
10 sible to cover every single well, but we feel like the
11 cross sections give an indication of the geological and, I
12 guess, developmental history of the area.

13 Q Mr. Hartman, if your application is granted,
14 will it result in any conflicts as to overlapping zones on
15 your leases?

16 A No, it will not. That was one of the reasons
17 we wanted to restrict our application. When we were in con-
18 tact with the OCC office in Hobbs, we were originally asked
19 to apply for 200 feet -- for an exception which included
20 200 feet of the -- the lower 200 feet of the Seven Rivers.
21 But when we reviewed our own wells we found that there
22 would be one well that, you know, there would be a conflict,
23 so that was the reason we restricted it.

24 MR. STAMETS: Mr. Hartman, while we're at
25 this point, would you tell me which of the yellow outlined

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1 acreages are Hartman acreage?

2 A. Yes, sir. The west half of the southwest
3 of 36.

4 MR. STAMETS: Okay.

5 A. And the west half of Section 2.

6 MR. STAMETS: Okay, the remainder of that,
7 then, is Continental acreage, which was advertised or
8 brought into this thing because you had a request from
9 Continental's employee --

10 A. That is correct.

11 MR. STAMETS: -- to do that. You really
12 don't care whether their acreage is included or not?

13 A. Well, I don't know what our position would
14 have to be, but, you know, it affects us personally neither
15 way, you know, would matter.

16 MR. STAMETS: Okay.

17 Q (Mr. Carr continuing.) Mr. Hartman, I'd
18 like to now go to the cross sections, and I think we're
19 going to have to ask you to go to --

20 A. Go to the board.

21 Q -- the cross sections, start with your
22 cross section A-A', and explain to the Examiner the data
23 contained thereon.

24 A. Okay. A-A' is an east/west cross section
25 through Sections 2 and Sections 36 -- 24, 36, and 23, 36.

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1 The first well is Cities Service State "X"
2 No. 1. It was drilled in 1949 and drilled to a total depth
3 of 3869. It was tested in various intervals; tested
4 6-million cubic feet of gas a day in the Yates, but at that
5 time the well was plugged and I guess due to the fact that
6 gas was fairly noncommercial at that point.

7 The second well is the Cities Service State
8 "AS" No. 1, drilled in 1956. It's located in Unit F of
9 Section 2. And it was drilled to a total depth of 3290;
10 drill stem tested gas in the Yates and right below the Yates
11 drill stem tested water in the Seven Rivers.

12 It was completed as a Yates gas well and
13 produced from 1956 until 1975, when it was plugged.

14 The next well on the cross section is my
15 Citgo "AS" State No. 2. It was drilled in June and July
16 of 1978 to a total depth of 3728 -- 3754, plugged back to
17 3728. It was completed from 3467 to 3465, which would be
18 this interval right here, and for initial well, we first
19 thought it was initial potential of 52 oil, 21 water,
20 12,500-to-1 GOR, but the oil dropped off very rapidly and
21 we're presently producing about 3 barrels of oil a day and
22 about 450,000 cubic feet of gas a day.

23 Now, on this diagram here the green line is
24 the official Queen pick. This is the Queen pick we had
25 used when we completed the well, and the dashed green line

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3010 Plaza Blanca (806) 471-2402
Santa Fe, New Mexico 87501

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3010 Plaza Blanca (SOS) 471-3462
Santa Fe, New Mexico 87501

1 is the top of the Langlie Mattix, as defined by the OCC,
2 and the portion colored red is that portion of our comple-
3 tion which lies above the present definition of the Langlie
4 Mattix.

5 And this will be the same terminology we'll
6 use in the rest of the cross sections.

7 The next well is --

8 Q (Mr. Carr continuing.) Mr. Hartman, if I
9 could interrupt you again, this well, the third well on
10 this cross section, is this the well that is drilled on a
11 unit on which there is also a top allowable Jalmat well
12 completed?

13 A Let's see, this one is in Unit C, yes.
14 No, this one's in Unit C; we have a Jalmat well --

15 Q And you're talking about now the fourth
16 well on the cross section?

17 A Yes, that's the fourth well. This is
18 located in Unit F, which is a twin to this well right here.

19 Q Okay. If you'll go on now to the fourth
20 well.

21 A Okay, the next one is the Citgo "AS" State
22 No. 3. It was drilled in -- or completed in September,
23 September 1st, 1978, over the interval 3480 to 3698, which
24 is this interval right here. Initial potential, 10 oil,
25 25 water, 45,000-to-1 GOR, and it produces approximately

1 450 Mcf a day and approximately 3 barrels of oil.

2 And again the red signifies the amount of
3 the completion that is above the official Langlie Mattix
4 pick.

5 The next well is our Citgo "LM" State.
6 We've come now to Section 36, as we go east. It was drilled
7 in July -- or late in June, 1977; 3379 - 3612. Initial
8 potential 445 Mcf per day.

9 Again here is the portion of our completion
10 that is above the official pick.

11 The next well was originally drilled -- was
12 the Ralph Lowe Shell State C No. 1. It is presently
13 Getty's Myers Langlie Mattix Unit No. 101.

14 It was drilled in 1947 and completed over
15 the interval 3500 - 3600. No, I take it back, 3452 - 3600.
16 It was shot 3500 - 3600. Initial potential 65 oil a day.

17 Now this well has now been put into the
18 Myers Langlie Mattix Unit waterflood and is presently a
19 water injection well in the waterflood interval, and also
20 over this interval right here.

21 We've also included on some of the older
22 wells the average production, say, for the year 1960, to
23 give an indication as to, you know, what type of hydro-
24 carbons we're talking about in these sums, so that we feel
25 like this is one of the problems of the hearing to start with,

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3030 Plaza Blanca (608) 471-2462
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1 so in 1960 this well averaged 2 barrels of oil per day,
2 161 Mcf of gas per day, which we feel like is essentially
3 a very gassy well.

4 The next well is Skelly's -- was originally
5 drilled as the Skelly's Mexico D No. 1. Now it's Getty's
6 Myers Langlie Mattix Unit 101, located in Unit J of Section
7 36. It was completed in 1948 over open hole interval 3400
8 to 3590.

9 Now, maybe we'd better discuss one other
10 item. If you'll notice, these are not well logs. These
11 are actually, you know, stick type logs, but the Queen,
12 both the Queen and the Yaters intervals were determined by
13 structure maps and, you know, using subsurface datums, and
14 what have you, we were able to arrive we feel like fairly
15 accurately, you know, at the completion interval.

16 Its initial potential was 35 oil per day and
17 they had this portion of its completion that was above the
18 official -- or later became above the official Langlie
19 Mattix pick.

20 Average 1960 production, 4 oil, 350,000
21 gas per day.

22 The next one is the Skelly Mexico D No. 2,
23 now it's Getty Oil Myers Langlie Mattix Unit 101. It's
24 a water injection well. It takes water from Myers Langlie
25 Mattix Unit waterflood, and it was completed in 1949, open

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (SOS) 471-2462
Santa Fe, New Mexico 87501

1 hole 3385 to 3648. Initial potential 42 oil, 3.8-million
2 gas.

3 Average 1960 production 6 oil, 330,000 gas.

4 The next well is originally drilled as the
5 Gulf Oil Company Holt B No. 2, now the Getty Oil Company
6 Myers Langlie Mattix Unit No. 104, located in Unit P of
7 Section 36, completed open hole 3389 to 3608 and scout
8 ticket data also indicates it was perforated 3380 to 3389.
9 Initial potential, 404 oil, 729 gas.

10 Average 1960 production 12 oil, 190,000
11 cubic feet of gas, and it had again this portion of the
12 completion above the official Langlie Mattix completion top.

13 The next well is the Gulf Oil Corporation
14 Holt B No. 1, now Getty Oil Company Myers Langlie Mattix
15 Unit 99, located in Unit I, Section 36, 23, 36.

16 It was drilled in 1949, also. Open hole
17 completion 3450 to 3610. Initial potential 274 barrels of
18 oil per day. And this well has been converted to a water
19 injection well, Myers Langlie Mattix waterflood.

20 Q. All right, Mr. Hartman, would you now go
21 to the cross section B-B' and explain it?

22 A. Yes.

23 MR. STAMETS: Before we do that, now, what
24 do you feel is the significance of this cross section you've
25 shown here?

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3010 Plaza Blanca (695) 471-2493
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1 A. Well, we're trying to point out several
2 things.

3 Number one, we're trying to demonstrate our
4 difficulties and the reason we're here to see the Commission

5 And also to give a geological developmental
6 history of the area, so that hopefully, it will illustrate,
7 you know, the reasons we have drawn our conclusions on com-
8 pletion.

9 MR. STAMETS: What are the red blocked in
10 areas on the logs that you've shown on that exhibit?

11 A. Okay. These are the portions of the well
12 completions. Like this one will be the total well comple-
13 tion, and this is a portion of the total well completion,
14 that would be presently located above the Langlie Mattix
15 top.

16 MR. STAMETS: Okay. Now you've drawn oil
17 symbols over some of the wells and gas symbols over some
18 others, and that means that they are currently classified
19 as oil or gas, is that correct?

20 A. Right, or -- and also when you'll find some
21 of the wells, like this one right here, I probably skipped
22 it, but it might have been dual, you know, in say the Jalmat
23 also, so it may be a Langlie Mattix oil and Jalmat gas, dual.

24 And in the triangular symbols represent
25 water injection wells, and this symbol here represents

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3020 Plaza Blanca (SOS) 471-2462
Santa Fe, New Mexico 87501

1 plugged and abandoned gas wells.

2 MR. STAMETS: Okay. Now, I don't want to
3 cramp your style, but I don't think it will be necessary
4 to give that detailed information on the rest of these
5 multitudinous wells on these cross sections. If you could
6 point out the significance of them as you go along, I
7 think the record will be a little cleaner and we can still
8 get the information we need on the record.

9 A. Okay.

10 Q. If you'll now go to Exhibit Number Four,
11 which is the B-B' cross section.

12 A. Okay. Exhibit Number Four is B-B'. It's
13 a north/south cross section starting in Section 25, 23,
14 36, and it winds up, I believe, in Section 31 of 24, 37.

15 The first well is a recently drilled well
16 by Flag-Redfern. Flag-Redfern's indicated completion on a
17 report they sent us was 3382 - 3522. It sand frac'd 40,000
18 plus 80 and it's presently testing.

19 But one of the reasons that we included
20 this well was to show that apparently we're not alone, you
21 know, in our completion tops, because this is just a re-
22 cently drilled well by Flag-Redfern that apparently is
23 going to have the same problem we have in this area.

24 The next well is a north offset to our Citgo
25 LM State lease. It's the Amerada -- it was originally

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CERTIFIED SHORTHAND REPORTER
3030 Plaza Blanca (805) 471-4495
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1 drilled by Amerada, the State LMP No. 1, now the Getty Oil
2 No. 67, Myers Langlie Mattix Unit No. 67, drilled in 1946,
3 completed for 68 oil, 2-1/2-million gas.
4 Average 1960 production 5 oil and 290,000

5 gas.

6 Next one is Cities Service State Q No. 1.
7 This is a twin to our LM State No. 2. It was drilled in
8 1947 for 33 oil, a million and a half gas. It was produced
9 from 1947 to 1952 and then recompleted as a Jalmat gas well
10 in 1952; had a cumulative oil production of 5000 barrels of
11 oil.

12 Again, this is our Citgo LM 1, discussed in
13 the previous cross section and this is our Citgo LM State
14 No. 2 in the previous cross section.

15 This is the Citgo LM No. 1. It was drilled
16 in February, 1977, perforated 3366 - 3600; initial poten-
17 tial 444 Mcf of gas per day.

18 And this right here again is the interval
19 that we are above the official pick.

20 Q Mr. Hartman, aren't these wells immediately
21 offset by injection wells?

22 A Yes, this well right here has been -- this
23 is the north offset to this lease and in the other diagram
24 we showed you the east offset to, you know, the same wells,
25 and as you can see, both of these wells, this one plus the

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1 Ralph Lowe Well, have both been converted to water injection
2 in the Langlie Mattix interval.

3 Q And they are injecting into the same inter-
4 val that you're producing from?

5 A That is correct, or at least a portion of
6 the same interval.

7 Okay, the next one is a John Yuronka com-
8 pletion in 1973. This is the Langlie Mattix completion
9 used by John Yuronka. It was 35 -- 3454 - 3628 --

10 MR. STAMETS: Mr. Hartman, I don't -- really
11 don't believe I need all this information. It looks like
12 what you're saying is that there are lots of wells out
13 there with at least the same problem that you've got, is
14 that correct?

15 A Yes, sir, and we would also like to demon-
16 strate that, you know, a lot of these hydrocarbons in this
17 interval we are talking about is gas, no matter, you know,
18 where we're talking about it, you know, in this study area.
19 Because I think, if you would allow us, would it be possible
20 to go ahead and continue a little bit more?

21 MR. STAMETS: Okay, if you feel the need,
22 that's fine.

23 A We're not trying to overwhelm you but I
24 also -- we feel like to understand our situation, we'd like
25 to review it.

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The next one is presently an Atlantic Richfield well Jim Camp No. 1, drilled in 1937 and completed open hole, 3220 to 3505, for initial potential of 10-million Mcf per day.

Again, in the diagram you can see the situation with this particular well.

The next one is ARCO's George Toby No. 2, now Getty's Myers Langlie Mattix Unit 239, and it was completed in 1940; initial potential 184 barrels of oil per day, 300,000 gas. Tested 10-million from 3449 - 3456 and 3480 to 3487 tested 16-million.

Average production on the Camp No. 1 was 344 gas, 1960; average production on the Toby No. 2 was 242 gas, 1 oil in 1960.

The next one is the Toby No. 1, similar completion to the Camp.

Coming on down we are now getting into what is considered the boundaries of the Jal Unit waterflood, and in this particular section we're only talking about Langlie Mattix completions and that is also the flood in the Jalmat.

This completion was made in -- this well is the Atlantic Richfield Bates No. 3, now the Reserve Cooper Jal Unit 105. It was completed in 1946 for 45 oil a day and the production 1960, 2 oil, 33 Mcf of gas per day.

I skipped the Atlantic Richfield Bates No. 1.

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1 which was located in Unit C, Section 18, 24, 37. It was
2 open hole from 3440 to 3572, and average 1960 production,
3 7 oil, 103 gas.

4 The next two wells are wells originally
5 drilled by Carper and acquired by Cities Service, Jack No.
6 1 and Jack No. 2. They are both Cooper Jal Unit wells and
7 they were completed in 1948.

8 Average 1964 production on this particular
9 lease, 1 oil, 255 gas, and this particular one is -- the
10 No. 2 Jack was 1 oil, 240,000 gas.

11 Coming on down, almost through, I'll just
12 summarize this. The Cooper Jal waterflood, we see similar
13 completions and similar production histories, and wind up
14 down the final -- well, these two particular wells are Gulf
15 wells drilled in 1977. Completed 3414 to 3662 for 48 oil
16 a day -- this is the Woolworth No. 4, the No. 5, drilled in
17 1978 over the interval 3406 to 3692, and it potentialized 25
18 oil a day.

19 And these final two wells are water injection
20 wells in the Union Texas Petroleum Langlie Jal Unit. They
21 were drilled in 1971 and 1972, as water injection wells for
22 the waterflood and completed over the -- the first well, the
23 Langlie Jal Unit 13 was completed over the interval 3280 to
24 3543.

25 The second well was completed over the in-

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terval 3185 to 3547, and both converted -- or put on as water injectors.

But in summarizing, we wanted to illustrate we're talking about an area where we geologically are talking about the same units over the whole, you know, the whole area. We're not talking about different geological units. We wanted to illustrate this and illustrate the various completions, you know, that have been used in the area over the history from the time development started up to today.

The final cross section is --

Q Mr. Hartman, before we go to that, there are a number of waterflood projects reflected on your Exhibit Number Four. These waterflood projects, is this correct, they are injecting into the same zones that you are producing gas from?

A Well, only on offsetting our Langlie -- or our Citgo LM lease, but right, I guess the reason we mentioned the waterfloods is we wanted to bring out the point that the Commission has made exceptions to these waterfloods as far as Langlie Mattix interval is concerned.

The Cooper Jal Unit waterflood under its order had defined the Langlie Mattix as consisting of the lower 250 feet of the Seven Rivers plus the Queen and Grayburg.

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1 And the Langlie Jal Unit had an exception
2 to the base of the Yates to the base of the normal Langlie
3 Mattix.

4 And there's another exception that we don't
5 have in these particular cross sections that is the State
6 A Account No. -- or the State A Account waterflood 23, 36.
7 Apparently that was a pilot project. It was approved with
8 an exception of 160 feet of the lower part of the Seven
9 Rivers.

10 But we wanted to tie in geologically the
11 fact that we're talking about the same zones in the whole
12 area and we feel like, you know, that it cannot be treated
13 differently in different portions of the field.

14 Q Will you refer to your exhibit which is
15 C-C' and summarize what that is?

16 A It's just an east/west cross section through
17 the lower part. We wanted to show again that we're talking
18 approximately the same geology here as versus here, as far
19 as geology is concerned, and it starts in Section 14 of
20 24, 36, and goes to Section 17 of 24, 37, and it comes across
21 part of the Cooper Jal waterflood and then ends over on the
22 east side.

23 And it illustrates that on the west side of
24 the cross section that the zones that are above the official
25 Langlie Mattix interval are oil bearing. We feel like on

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3020 Plaza Blanca (955) 471-5463
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1 the east -- west side, that if you come up structurally
2 high enough, that you're back in the gas zones then.

3 Q Mr. Hartman, would you summarize the con-
4 clusions that you can draw from these three cross sections?

5 A Well, I believe I've sort of given the con-
6 clusions once before.

7 The idea of the cross sections is that we
8 are trying to show that we're dealing in this particular
9 area with sort of a complex system, but it is all the same
10 geologically from the northern part of our map, and ac-
11 tually extends much further than this, to the southern por-
12 tion of our map, and extends further than that. But we
13 were just trying to -- we're trying to illustrate we're
14 talking about the same geological zones or intervals from
15 top to bottom, and that they're all correlative; that --

16 Q Has the definition that you have used for
17 the Langlie Mattix been widely used in the industry through-
18 out the area?

19 A Well, I would have to say that apparently
20 more than one definition has been used, and these cross
21 sections illustrate that it's varied from company to company
22 and from time to time.

23 Q Will you refer to what has been marked for
24 identification as Exhibit Number Six and state to the
25 Examiner what it is?

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1 A. Okay, Exhibit Number Six is C-104's and
2 C-105's on the four wells in question in this hearing.

3 Q. Mr. Hartman, would it be possible for you
4 to go in and squeeze off the higher perforations in the
5 wells which are in the acreage which is the subject of this
6 application?

7 A. Well, in each -- we do not feel like it
8 would be practical because of the fact these wells have
9 been very heavily treated and very likely at the time that
10 you would squeeze the wells, you'd be squeezing everything.
11 We're also dealing with very delicate wells, low pressure,
12 and in all these cases, each well is equipped with, you
13 know, a pumping unit to keep a small amount of fluid off
14 and to minimize any restrictions to production.

15 And I think having to do any squeeze work
16 would be too drastic a measure.

17 Q. If this application is not granted, would
18 you be able to produce these wells?

19 A. No, we will not, in that, for example, in
20 the Citgo LM lease there is split rights as far as owner-
21 ship. Cities Service owns the upper portion of the Jalmat
22 and we own the Langlie Mattix rights.

23 Q. Would it therefore be possible to downhole
24 commingle production in this well?

25 A. No, because of the ownership, no.

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CERTIFIED SHORTHAND REPORTER
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1 Q Would denial of this application result in
2 hydrocarbons being left in the ground that would otherwise
3 be produced?

4 A I believe it would, due to the fact that
5 we're now being offset on the, say our Citgo LM lease, with
6 water injection completely surrounding us. It was obvious
7 from the cross sections that we're talking about gas bearing
8 zones here that are actually being flooded, you know, off-
9 setting us, and if we're not allowed to produce it at this
10 time, probably, you know, it's going to be lost because,
11 you know, the water could encroach within, you know, to-
12 morrow, it might be four or five years, but that's going
13 to be the nature of what's happening.

14 We've got several wells with the same prob-
15 lem right now where we're being watered, you know, out,
16 and it makes the lifting costs very high.

17 Q Would you therefore conclude that if this
18 application is not granted, that your correlative rights
19 would be impaired?

20 A Yes.

21 Q In your opinion, Mr. Hartman, will granting
22 this application be in the interests of conservation, the
23 prevention of waste, and the protection of correlative
24 rights?

25 A I think it will. I think it will allow gas

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3030 Plaza Blanca (SOS) 471-2462
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1 to be recovered that won't be recovered if, you know, if it's
2 not granted.

3 Q Is there anything else you would like to
4 add to your testimony?

5 A No.

6 Q Were Exhibits One through Six either pre-
7 pared by you or under your direction and supervision?

8 A Yes.

9 MR. CARR: At this time, Mr. Examiner, we
10 would offer Hartman Exhibits One through Six.

11 MR. STAMETS: These exhibits will be ad-
12 mitted.

13 MR. CARR: I have nothing further on direct.
14

15 CROSS EXAMINATION

16 BY MR. STAMETS:

17 Q Mr. Hartman, do your cross sections cover
18 the same two pools throughout or is there a difference in
19 nomenclature?

20 A Well, what do you mean?

21 Q Well, are we talking about the Langlie
22 Mattix and the Jalmat --

23 A Yes.

24 Q -- in all cases?

25 A In this particular area they both are, you

1 know, the Langlie Mattix is underneath the Jalmat over the
2 entire area.

3 Q And what you illustrated with these cross
4 sections is that there are numerous wells with varying
5 ownership that have been completed above the line, the
6 Langlie Mattix line.

7 A Yes, sir, and I would like to add that we
8 realize that maybe some of these wells were drilled prior
9 to, you know, some of the rules being established on the
10 pools but many of them were, you know, also, were drilled
11 after those dates, also.

12 Q And you indicated there were some water-
13 flood units that had been granted some recent exceptions to
14 the vertical limits.

15 A Yes.

16 Q Combined some pools.

17 A Right. We were dealing with Cooper Jal and
18 we feel that was granted by definition, you know, when the
19 hearings were held on the waterflood the interval was de-
20 fined, but the wells existed prior to the waterflood, you
21 know, in the state they're in.

22 Q Did you notify Cities Service of your ap-
23 plication today?

24 A No, sir, I didn't notify them directly. I
25 presume they were notified. They are aware of it, yes.

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3030 Plaza Blanca (606) 471-2462
Santa Fe, New Mexico 87501

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (SOS) 471-2462
Santa Fe, New Mexico 87501

Q We've got a large number of waivers here from offset operators, and I presume that in some manner Doyle Hartman had notified these offset operators and had acquired waivers.

A Well, we have not notified them.

Q Well, you certainly must be very popular with a large group of offset operators, who volunteered to do this for you.

MR. STAMETS: Any other questions of this witness? He may be excused.

As I indicated before, we do have a large number of letters here in support of this application, and we only have one bit of correspondence opposed to that.

I don't know that there's any need of reading these letters since they are in support, but I think perhaps we should make a note of the one telegram which is --

MR. CARR: Well, we would request that the names of the individuals who have written in support --

MR. STAMETS: Okay.

MR. CARR: -- be included in the record.

MR. STAMETS: I will do that.

MS. TESCHENDORF: The letters in support of the application came from Highland Production Company, D. L. Hanophen, Reserve Oil, Inc., Burleson and Huff, the Corrigan

1 Family, C-O-R-R-I-G-A-N, Robert H. Hanophen, Black River
2 Corporation, and John Yuronka.

3 And we had a telegram opposed to the appli-
4 cation from Continental Oil, and part of the telegram states
5 that they feel the interval being added to the Langlie
6 Mattix Pool appears to be gas productive rather than oil
7 productive and therefore appropriately assigned to the
8 Jalmat Pool, and they feel that the applicant's problems
9 should be handled through an application for downhole com-
10 mingling.

11 MR. STAMETS: Anything further in this
12 case?

13 MR. CARR: I just want to make one very
14 brief comment at the end.

15 We submit that Mr. Hartman drilled a well
16 and completed it using a definition which is commonly used
17 in the area for Langlie Mattix completions. He was notified
18 by the OCD that this was completed above the Langlie Mattix
19 and I think the evidence shows today that there are a num-
20 ber of wells, not just Mr. Hartman's, that suffer from
21 really the same problem.

22 We believe that the evidence shows that
23 the geology throughout the area correlates well zone by
24 zone, and that the objection to the application which has
25 been received today from Continental is based on their

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1 concern that the old definition has served everyone well,
2 but we would submit that the old definition would not have
3 served so well had it in fact been enforced.

4 And we also would submit that we're not
5 seeking special exceptions to pool definitions for special
6 individuals in this case, as Continental has suggested, but
7 we would submit that the converse is true, and we're asking
8 that Mr. Hartman be treated like other operators in the
9 pool.

10 MR. STAMETS: Anything further in this
11 case?

12 The case will be taken under advisement.
13 (Hearing concluded.)
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REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd
Sally W. Boyd, C.S.R.

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EXHIBIT NO. _____

CASE NO. _____

Submitted by _____

Hearing Date _____

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6505 heard by me on 3-28 1977.
Richard A. Stamets, Examiner
Oil Conservation Division

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CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (505) 471-2462
Santa Fe, New Mexico 87501

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE

, NEW MEXICO

Hearing Date

MARCH 28, 1979

Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
William F. Furr	Campbell & Black, P.A.	Santa Fe
Terry Cross	Bull Oil Corp	Midland
Charles F. Kalltayer	" " "	"
Chas O'Leary	Union Oil Co of Calif	Midland, TX
Janet Quincy	Seamings & Chris Y	Roswell
Robert V. Lockhart	Union Oil Co of Calif	Midland, TX
Richard R. Oelge	Union Oil Co of Calif	Midland, TX
Donald R. Oelge	Shirley Lewis firm	Midland, TX
Gail M. Galtich	Delta Drilling Co.	Midland, TX
Donald E. Luch	DELTA DRILLING CO	MIDLAND TX.
Tom Kellahan	Kellahan Kellahan	Santa Fe
Doyle Hartman	Doyle Hartman	Midland, TX
Richard Stump	Doyle Hartman	Midland Tex.
Joel Carson	Loren Carson & Nicholson	Artesia N.M.
Mark D. Adams	Yates Petroleum Corp	Artesia, NM
Eddie Mahood	Yates Petroleum Corp	Artesia N.M.
Charles Joy	Sundance	Roswell, N.M.
George L. Scott	Sundance	Roswell NM
Jim A. Alkin Jr	Sundance oil Co.	Roswell, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARINGSANTA FE, NEW MEXICOHearing Date MARCH 28, 1979 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
<i>Patrick J. Hornig</i>	<i>Honessco Inc</i>	<i>Roswell, NM</i>
<i>Robert H. Hannifan</i>	<i>Self</i>	<i>Midland, Texas</i>
<i>Robert H. Strand</i>	<i>Harvey E. Yates Co.</i>	<i>Roswell, NM</i>
<i>Andrew Latta</i>	<i>Harvey E. Yates Co.</i>	<i>Midland</i>
<i>Curt Parsons</i>	<i>Southland Royalty Co.</i>	<i>Farmington</i>

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
19 March 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of Doyle Hartman for verti-) CASE
cal pool limit redefinition, Lea County,) 6505
New Mexico.)

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Lynn Teschendorf, Esq.
Legal Counsel for the Division
State Land Office Building
Santa Fe, New Mexico 87503

For the Applicant:

William F. Carr, Esq.
CAMPBELL & BLACK, P. A.
P. O. Box 2200
Jefferson Place
Santa Fe, New Mexico 87501

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3010 Plaza Blanca (S.E.) 871-3402
Santa Fe, New Mexico 87501

I N D E X

DOYLE HARTMAN

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MR. STAMETS: We'll call next Case 6505.

MS. TESCHENDORF: Case 6505. Application of Doyle Hartman for vertical pool limit redefinition, Lea County, New Mexico.

MR. CARR: May it please the Examiner, I'm William F. Carr, Campbell and Black, P. A., Santa Fe, appearing on behalf of the applicant. I have one witness.

MR. STAMETS: I'd like to have him stand and be sworn, please.

(Witness sworn.)

MR. STAMETS: You may proceed when ready, Mr. Carr.

MR. CARR: Initially, Mr. Examiner, we would request -- as you will note, we have requested that the vertical limits of the Langlie Mattix Pool be redefined to include the lowermost 200 feet of the Seven Rivers formation.

We would like to change that. We really would request that it be extended to include only the 165 lowermost feet. This will avoid other conflicts that would result from the larger request.

And so we would request that the application be treated only as a request to include the lowermost 165

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1 feet of the Seven Rivers formation.

2 MR. STAMETS: And then the remainder, the
3 remaining 35 feet would stay in the Jalmat Pool?

4 MR. CARR: Yes, would not be affected.

5 MR. STAMETS: All right, we will consider
6 that change since it is less than what was advertised.

7 DOYLE HARTMAN

8 being called as a witness and having been duly sworn upon
9 his oath, testified as follows, to-wit:
10

11 DIRECT EXAMINATION

12 BY MR. CARR:

13 Q Will you state your full name, please?

14 A Doyle Hartman.

15 Q Where do you reside?

16 A Midland, Texas.

17 Q And you are the applicant in this case?

18 A That is correct.

19 Q Mr. Hartman, have you previously testified
20 before this Commission and had your credentials as an en-
21 gineer accepted and made a matter of record?

22 A Yes, they have been.

23 Q And you are familiar with the area which is
24 the subject matter of this application?
25

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Santa Fe, New Mexico 87501

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A Yes.

MR. CARR: Are the witness' qualifications acceptable?

MR. STAMETS: They are.

Q (Mr. Carr continuing.) Mr. Hartman, will you briefly state what you are seeking with this application?

A What we are seeking is to have in the area outlined in our application, which consists of parts of Sections 35 and 36, Township 23 South, Range 36 East, and parts of Sections 1 and 2 of 24, 36, we're requesting that the vertical limits of the Langlie Mattix Pool be extended from 100 feet above the top -- yeah, the top of the vertical limits be extended from 100 feet above the top of the Queen formation, as defined by the industry committee and the pick that's used by the New Mexico Oil Conservation Commission. We want to extend it from 100 feet above that point to 165 feet above that point.

Q Now, Mr. Hartman, would you summarize for the Examiner the events which resulted in your filing this application?

A Yes. We have -- have four wells which we've drilled and filed as Langlie Mattix wells, which were reviewed recently by the OCC office in Hobbs, and we were contacted and informed that our completion zone extended

1 above the official top of the Langlie Mattix Pool as defined
2 by the OCC.

3 Q Mr. Hartman, in determining that these wells
4 were Langlie Mattix completions were you using the same
5 picks as other companies in the area use in determining
6 whether or not they have Langlie Mattix wells?

7 A Well, we were not using, apparently -- this
8 is what resulted in a problem -- we were not using the
9 pick that is used by the OCC; however, we were using a pick
10 that is commonly used in the area.

11 Q Will you refer to what has been marked for
12 identification as Hartman Exhibit Number One, and explain
13 to the Examiner what it is and what it shows?

14 A Okay. Exhibit Number One is a type log
15 that gives the geological tops in the area and the defini-
16 tions of the Langlie Mattix Pool as defined by the OCC,
17 plus the definitions of the tops, say that we have used,
18 and also the original definition of what we were asking an
19 exception for, although we've now moved down our request to
20 the top of where we were calling the Langlie Mattix.

21 Q I would now direct your attention to what
22 has been marked as Exhibit Number Two and ask you to ident-
23 ify this for the Examiner.

24 A Okay. Exhibit Number Two is a plat con-
25 toured on the Yates interval, and also it's simultaneously

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1 a well plat of a portion of southeast Lea County, consisting
2 of 24 South, 36 East; 24, 37; 23, 36; and 23, 37.

3 Q And what does the yellow line on this plat
4 indicate?

5 A Okay, the yellow outline is an outline of
6 the requested area that we were asking the exception for.

7 Q Now I notice this covers certain property
8 of Continental Oil Company, is that correct?

9 A That is correct.

10 Q Why were these tracts included in your
11 application?

12 A Well, on February 27th we talked to Con-
13 tinental and they asked us at that time to include these
14 particular tracts in our application.

15 Q And who with Continental made this request?

16 A Mr. Ron McWilliams. He's in their Hobbs
17 office.

18 Q And at this point in time do you have any
19 interest in whether or not they are actually included with-
20 in any order that results from this Commission or not?

21 A Well, apparently from our position that
22 would make no difference, but I would like to point out that
23 we were informed yesterday that Continental was opposing
24 our application, and we find that contrary to their original
25 request.

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1 Q Now I would ask you to explain what the red
2 lines are on this plat?

3 A Okay, the red lines are three cross sections
4 that we would like to present as information on the geolo-
5 gical study of the area.

6 Q Now you have performed a geological study
7 on the entire area?

8 A Essentially, yes. We must say that due to
9 a limited amount of time in preparing, it would be impos-
10 sible to cover every single well, but we feel like the
11 cross sections give an indication of the geological and, I
12 guess, developmental history of the area.

13 Q Mr. Hartman, if your application is granted,
14 will it result in any conflicts as to overlapping zones on
15 your leases?

16 A No, it will not. That was one of the reasons
17 we wanted to restrict our application. When we were in con-
18 tact with the OCC office in Hobbs, we were originally asked
19 to apply for 200 feet -- for an exception which included
20 200 feet of the -- the lower 200 feet of the Seven Rivers.
21 But when we reviewed our own wells we found that there
22 would be one well that, you know, there would be a conflict,
23 so that was the reason we restricted it.

24 MR. STAMETS: Mr. Hartman, while we're at
25 this point, would you tell me which of the yellow outlined

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1 acreages are Hartman acreage?

2 A Yes, sir. The west half of the southwest
3 of 36.

4 MR. STAMETS: Okay.

5 A And the west half of Section 2.

6 MR. STAMETS: Okay, the remainder of that,
7 then, is Continental acreage, which was advertised or
8 brought into this thing because you had a request from
9 Continental's employee --

10 A That is correct.

11 MR. STAMETS: -- to do that. You really
12 don't care whether their acreage is included or not?

13 A Well, I don't know what our position would
14 have to be, but, you know, it affects us personally neither
15 way, you know, would matter.

16 MR. STAMETS: Okay.

17 Q (Mr. Carr continuing.) Mr. Hartman, I'd
18 like to now go to the cross sections, and I think we're
19 going to have to ask you to go to --

20 A Go to the board.

21 Q -- the cross sections, start with your
22 cross section A-A', and explain to the Examiner the data
23 contained thereon.

24 A Okay.. A-A' is an east/west cross section
25 through Sections 2 and Sections 36 -- 24, 36, and 23, 36.

1 The first well is Cities Service State "X"
2 No. 1. It was drilled in 1949 and drilled to a total depth
3 of 3869. It was tested in various intervals; tested
4 6-million cubic feet of gas a day in the Yates, but at that
5 time the well was plugged and I guess due to the fact that
6 gas was fairly noncommercial at that point.

7 The second well is the Cities Service State
8 "AS" No. 1, drilled in 1956. It's located in Unit F of
9 Section 2. And it was drilled to a total depth of 3290;
10 drill stem tested gas in the Yates and right below the Yates
11 drill stem tested water in the Seven Rivers.

12 It was completed as a Yates gas well and
13 produced from 1956 until 1975, when it was plugged.

14 The next well on the cross section is my
15 Citgo "AS" State No. 2. It was drilled in June and July
16 of 1978 to a total depth of 3728 -- 3754, plugged back to
17 3728. It was completed from 3467 to 3465, which would be
18 this interval right here, and for initial well, we first
19 thought it was initial potential of 52 oil, 21 water,
20 12,500-to-1 GOR, but the oil dropped off very rapidly and
21 we're presently producing about 3 barrels of oil a day and
22 about 450,000 cubic feet of gas a day.

23 Now, on this diagram here the green line is
24 the official Queen pick. This is the Queen pick we had
25 used when we completed the well, and the dashed green line

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1 is the top of the Langlie Mattix, as defined by the OCC,
2 and the portion colored red is that portion of our comple-
3 tion which lies above the present definition of the Langlie
4 Mattix.

5 And this will be the same terminology we'll
6 use in the rest of the cross sections.

7 The next well is --

8 Q (Mr. Carr continuing.) Mr. Hartman, if I
9 could interrupt you again, this well, the third well on
10 this cross section, is this the well that is drilled on a
11 unit on which there is also a top allowable Jalmat well
12 completed?

13 A Let's see, this one is in Unit C, yes.
14 No, this one's in Unit C; we have a Jalmat well --

15 Q And you're talking about now the fourth
16 well on the cross section?

17 A Yes, that's the fourth well. This is
18 located in Unit F, which is a twin to this well right here.

19 Q Okay. If you'll go on now to the fourth
20 well.

21 A Okay, the next one is the Citgo "AS" State
22 No. 3. It was drilled in -- or completed in September,
23 September 1st, 1978, over the interval 3480 to 3698, which
24 is this interval right here. Initial potential, 10 oil,
25 25 water, 45,000-to-1 GOR, and it produces approximately

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1 450 Mcf a day and approximately 3 barrels of oil.

2 And again the red signifies the amount of
3 the completion that is above the official Langlie Mattix
4 pick.

5 The next well is our Citgo "LM" State.
6 We've come now to Section 36, as we go east. It was drilled
7 in July -- or late in June, 1977; 3379 - 3612. Initial
8 potential 445 Mcf per day.

9 Again here is the portion of our completion
10 that is above the official pick.

11 The next well was originally drilled -- was
12 the Ralph Lowe Shell State C No. 1. It is presently
13 Getty's Myers Langlie Mattix Unit No. 101.

14 It was drilled in 1947 and completed over
15 the interval 3500 - 3600. No, I take it back, 3452 - 3600.
16 It was shot 3500 - 3600. Initial potential 65 oil a day.

17 Now this well has now been put into the
18 Myers Langlie Mattix Unit waterflood and is presently a
19 water injection well in the waterflood interval, and also
20 over this interval right here.

21 We've also included on some of the older
22 wells the average production, say, for the year 1960, to
23 give an indication as to, you know, what type of hydro-
24 carbons we're talking about in these sums, so that we feel
25 like this is one of the problems of the hearing to start with,

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1 so in 1960 this well averaged 2 barrels of oil per day,
2 161 Mcf of gas per day, which we feel like is essentially
3 a very gassy well.

4 The next well is Skelly's -- was originally
5 drilled as the Skelly's Mexico D No. 1. Now it's Getty's
6 Myers Langlie Mattix Unit 101, located in Unit J of Section
7 36. It was completed in 1948 over open hole interval 3400
8 to 3590.

9 Now, maybe we'd better discuss one other
10 item. If you'll notice, these are not well logs. These
11 are actually, you know, stick type logs, but the Queen,
12 both the Queen and the Yaters intervals were determined by
13 structure maps and, you know, using subsurface datums, and
14 what have you, we were able to arrive we feel like fairly
15 accurately, you know, at the completion interval.

16 Its initial potential was 35 oil per day and
17 they had this portion of its completion that was above the
18 official -- or later became above the official Langlie
19 Mattix pick.

20 Average 1960 production, 4 oil, 350,000
21 gas per day.

22 The next one is the Skelly Mexico D No. 2,
23 now it's Getty Oil Myers Langlie Mattix Unit 101. It's
24 a water injection well. It takes water from Myers Langlie
25 Mattix Unit waterflood, and it was completed in 1949, open

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1 hole 3385 to 3648. Initial potential 42 oil, 3.8-million
2 gas.

3 Average 1960 production 6 oil, 330,000 gas.

4 The next well is originally drilled as the
5 Gulf Oil Company Holt B No. 2, now the Getty Oil Company
6 Myers Langlie Mattix Unit No. 104, located in Unit P of
7 Section 36, completed open hole 3389 to 3608 and scout
8 ticket data also indicates it was perforated 3380 to 3389.
9 Initial potential, 404 oil, 729 gas.

10 Average 1960 production 12 oil, 190,000
11 cubic feet of gas, and it had again this portion of the
12 completion above the official Langlie Mattix completion top.

13 The next well is the Gulf Oil Corporation
14 Holt B No. 1, now Getty Oil Company Myers Langlie Mattix
15 Unit 99, located in Unit I, Section 36, 23, 36.

16 It was drilled in 1949, also. Open hole
17 completion 3450 to 3610. Initial potential 274 barrels of
18 oil per day. And this well has been converted to a water
19 injection well, Myers Langlie Mattix waterflood.

20 Q All right, Mr. Hartman, would you now go
21 to the cross section B-B' and explain it?

22 A Yes.

23 MR. STAMETS: Before we do that, now, what
24 do you feel is the significance of this cross section you've
25 shown here?

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1 A Well, we're trying to point out several
2 things.

3 Number one, we're trying to demonstrate our
4 difficulties and the reason we're here to see the Commission.

5 And also to give a geological developmental
6 history of the area, so that hopefully, it will illustrate,
7 you know, the reasons we have drawn our conclusions on com-
8 pletion.

9 MR. STAMETS: What are the red blocked in
10 areas on the logs that you've shown on that exhibit?

11 A Okay. These are the portions of the well
12 completions. Like this one will be the total well comple-
13 tion, and this is a portion of the total well completion,
14 that would be presently located above the Langlie Mattix
15 top.

16 MR. STAMETS: Okay. Now you've drawn oil
17 symbols over some of the wells and gas symbols over some
18 others, and that means that they are currently classified
19 as oil or gas, is that correct?

20 A Right, or -- and also when you'll find some
21 of the wells, like this one right here, I probably skipped
22 it, but it might have been dual, you know, in say the Jalmat
23 also, so it may be a Langlie Mattix oil and Jalmat gas, dual.

24 And in the triangular symbols represent
25 water injection wells, and this symbol here represents

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1 plugged and abandoned gas wells.

2 MR. STAMETS: Okay. Now, I don't want to
3 cramp your style, but I don't think it will be necessary
4 to give that detailed information on the rest of these
5 multitudinous wells on these cross sections. If you could
6 point out the significance of them as you go along, I
7 think the record will be a little cleaner and we can still
8 get the information we need on the record.

9 A Okay.

10 Q If you'll now go to Exhibit Number Four,
11 which is the B-B' cross section.

12 A Okay. Exhibit Number Four is B-B'. It's
13 a north/south cross section starting in Section 25, 23,
14 36, and it winds up, I believe, in Section 31 of 24, 37.

15 The first well is a recently drilled well
16 by Flag-Redfern. Flag-Redfern's indicated completion on a
17 report they sent us was 3382 - 3522. It sand fraced 40,000
18 plus 80 and it's presently testing.

19 But one of the reasons that we included
20 this well was to show that apparently we're not alone, you
21 know, in our completion tops, because this is just a re-
22 cently drilled well by Flag-Redfern that apparently is
23 going to have the same problem we have in this area.

24 The next well is a north offset to our Citgo
25 LM State lease. It's the Amerada -- it was originally

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1 drilled by Amorada, the State LMP No. 1, now the Getty Oil
2 No. 67, Myers Langlie Mattix Unit No. 67, drilled in 1946,
3 completed for 68 oil, 2-1/2-million gas.

4 Average 1960 production 5 oil and 290,000
5 gas.

6 Next one is Cities Service State Q No. 1.
7 This is a twin to our LM State No. 2. It was drilled in
8 1947 for 33 oil, a million and a half gas. It was produced
9 from 1947 to 1952 and then recompleted as a Jalmat gas well
10 in 1952; had a cumulative oil production of 5000 barrels of
11 oil.

12 Again, this is our Citgo LM 1, discussed in
13 the previous cross section and this is our Citgo LM State
14 No. 2 in the previous cross section.

15 This is the Citgo LM No. 1. It was drilled
16 in February, 1977, perforated 3366 - 3600; initial poten-
17 tial 444 Mcf of gas per day.

18 And this right here again is the interval
19 that we are above the official pick.

20 Q Mr. Hartman, aren't these wells immediately
21 offset by injection wells?

22 A Yes, this well right here has been -- this
23 is the north offset to this lease and in the other diagram
24 we showed you the east offset to, you know, the same wells,
25 and as you can see, both of these wells, this one plus the

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1 Ralph Lowe Well, have both been converted to water injection
2 in the Langlie Mattix interval.

3 Q And they are injecting into the same inter-
4 val that you're producing from?

5 A That is correct, or at least a portion of
6 the same interval.

7 Okay, the next one is a John Yuronka com-
8 pletion in 1973. This is the Langlie Mattix completion
9 used by John Yuronka. It was 35 -- 3454 - 3628 --

10 MR. STAMETS: Mr. Hartman, I don't -- really
11 don't believe I need all this information. It looks like
12 what you're saying is that there are lots of wells out
13 there with at least the same problem that you've got, is
14 that correct?

15 A Yes, sir, and we would also like to demon-
16 strate that, you know, a lot of these hydrocarbons in this
17 interval we are talking about is gas, no matter, you know,
18 where we're talking about it, you know, in this study area.
19 Because I think, if you would allow us, would it be possible
20 to go ahead and continue a little bit more?

21 MR. STAMETS: Okay, if you feel the need,
22 that's fine.

23 A We're not trying to overwhelm you but I
24 also -- we feel like to understand our situation, we'd like
25 to review it.

1 The next one is presently an Atlantic Rich-
2 field well Jim Camp No. 1, drilled in 1937 and completed
3 open hole, 3220 to 3505, for initial potential of 10-million
4 Mcf per day.

5 Again, in the diagram you can see the situ-
6 ation with this particular well.

7 The next one is ARCO's George Toby No. 2,
8 now Getty's Myers Langlie Mattix Unit 239, and it was com-
9 pleted in 1940; initial potential 184 barrels of oil per
10 day, 300,000 gas. Tested 10-million from 3449 - 3456 and
11 3480 to 3487 tested 16-million.

12 Average production on the Camp No. 1 was
13 344 gas, 1960; average production on the Toby No. 2 was 242
14 gas, 1 oil in 1960.

15 The next one is the Toby No. 1, similar
16 completion to the Camp.

17 Coming on down we are now getting into what
18 is considered the boundaries of the Jal Unit waterflood, and
19 in this particular section we're only talking about Langlie
20 Mattix completions and that is also the flood in the Jalmat.

21 This completion was made in --- this well is
22 the Atlantic Richfield Bates No. 3, now the Reserve Cooper
23 Jal Unit 105. It was completed in 1946 for 45 oil a day
24 and the production 1960, 2 oil, 33 Mcf of gas per day.

25 I skipped the Atlantic Richfield Bates No. 1,

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1 which was located in Unit C, Section 18, 24, 37. It was
2 open hole from 3440 to 3572, and average 1960 production,
3 7 oil, 103 gas.

4 The next two wells are wells originally
5 drilled by Carper and acquired by Cities Service, Jack No.
6 1 and Jack No. 2. They are both Cooper Jal Unit wells and
7 they were completed in 1948.

8 Average 1964 production on this particular
9 lease, 1 oil, 255 gas, and this particular one is -- the
10 No. 2 Jack was 1 oil, 240,000 gas.

11 Coming on down, almost through, I'll just
12 summarize this. The Cooper Jal waterflood, we see similar
13 completions and similar production histories, and wind up
14 down the final -- well, these two particular wells are Gulf
15 wells drilled in 1977. Completed 3414 to 3662 for 48 oil
16 a day -- this is the Woolworth No. 4, the No. 5, drilled in
17 1978 over the interval 3406 to 3692, and it potentialed 25
18 oil a day.

19 And these final two wells are water injection
20 wells in the Union Texas Petroleum Langlie Jal Unit. They
21 were drilled in 1971 and 1972, as water injection wells for
22 the waterflood and completed over the -- the first well, the
23 Langlie Jal Unit 13 was completed over the interval 3280 to
24 3543.

25 The second well was completed over the in-

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1 terval 3185 to 3547, and both converted -- or put on as
2 water injectors.

3 But in summarizing, we wanted to illustrate
4 we're talking about an area where we geologically are
5 talking about the same units over the whole, you know, the
6 whole area. We're not talking about different geological
7 units. We wanted to illustrate this and illustrate the
8 various completions, you know, that have been used in the
9 area over the history from the time development started
10 up to today.

11 The final cross section is --

12 Q Mr. Hartman, before we go to that, there
13 are a number of waterflood projects reflected on your Ex-
14 hibit Number Four. These waterflood projects, is this
15 correct, they are injecting into the same zones that you
16 are producing gas from?

17 A Well, only on offsetting our Langlie -- or
18 our Citgo LM lease, but right, I guess the reason we men-
19 tioned the waterfloods is we wanted to bring out the point
20 that the Commission has made exceptions to these waterfloods
21 as far as Langlie Mattix interval is concerned.

22 The Cooper Jal Unit waterflood under its
23 order had defined the Langlie Mattix as consisting of the
24 lower 250 feet of the Seven Rivers plus the Queen and Gray-
25 burg.

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1 And the Langlie Jal Unit had an exception
2 to the base of the Yates to the base of the normal Langlie
3 Mattix.

4 And there's another exception that we don't
5 have in these particular cross sections that is the State
6 A Account No. -- or the State A Account waterflood 23, 36.
7 Apparently that was a pilot project. It was approved with
8 an exception of 160 feet of the lower part of the Seven
9 Rivers.

10 But we wanted to tie in geologically the
11 fact that we're talking about the same zones in the whole
12 area and we feel like, you know, that it cannot be treated
13 differently in different portions of the field.

14 Q Will you refer to your exhibit which is
15 C-C' and summarize what that is?

16 A It's just an east/west cross section through
17 the lower part. We wanted to show again that we're talking
18 approximately the same geology here as versus here, as far
19 as geology is concerned, and it starts in Section 14 of
20 24, 36, and goes to Section 17 of 24, 37, and it comes across
21 part of the Cooper Jal waterflood and then ends over on the
22 east side.

23 And it illustrates that on the west side of
24 the cross section that the zones that are above the official
25 Langlie Mattix interval are oil bearing. We feel like on

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8020 Plaza Blanca (505) 471-2462
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1 the east -- west side, that if you come up structurally
2 high enough, that you're back in the gas zones then.

3 Q Mr. Hartman, would you summarize the con-
4 clusions that you can draw from those three cross sections?

5 A Well, I believe I've sort of given the con-
6 clusions once before.

7 The idea of the cross sections is that we
8 are trying to show that we're dealing in this particular
9 area with sort of a complex system, but it is all the same
10 geologically from the northern part of our map, and ac-
11 tually extends much further than this, to the southern por-
12 tion of our map, and extends further than that. But we
13 were just trying to -- we're trying to illustrate we're
14 talking about the same geological zones or intervals from
15 top to bottom, and that they're all correlative; that --

16 Q Has the definition that you have used for
17 the Langlie Mattix been widely used in the industry through-
18 out the area?

19 A Well, I would have to say that apparently
20 more than one definition has been used, and these cross
21 sections illustrate that it's varied from company to company
22 and from time to time.

23 Q Will you refer to what has been marked for
24 identification as Exhibit Number Six and state to the
25 Examiner what it is?

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1 A Okay, Exhibit Number Six is C-104's and
2 C-105's on the four wells in question in this hearing.

3 Q Mr. Hartman, would it be possible for you
4 to go in and squeeze off the higher perforations in the
5 wells which are in the acreage which is the subject of this
6 application?

7 A Well, in each -- we do not feel like it
8 would be practical because of the fact these wells have
9 been very heavily treated and very likely at the time that
10 you would squeeze the wells, you'd be squeezing everything.
11 We're also dealing with very delicate wells, low pressure,
12 and in all these cases, each well is equipped with, you
13 know, a pumping unit to keep a small amount of fluid off
14 and to minimize any restrictions to production.

15 And I think having to do any squeeze work
16 would be too drastic a measure.

17 Q If this application is not granted, would
18 you be able to produce these wells?

19 A No, we will not, in that, for example, in
20 the Citgo LM lease there is split rights as far as owner-
21 ship. Cities Service owns the upper portion of the Jalmat
22 and we own the Langlie Mattix rights.

23 Q Would it therefore be possible to downhole
24 commingle production in this well?

25 A No, because of the ownership, no.

1 Q Would denial of this application result in
2 hydrocarbons being left in the ground that would otherwise
3 be produced?

4 A I believe it would, due to the fact that
5 we're now being offset on the, say our Citgo LM lease, with
6 water injection completely surrounding us. It was obvious
7 from the cross sections that we're talking about gas bearing
8 zones here that are actually being flooded, you know, off-
9 setting us, and if we're not allowed to produce it at this
10 time, probably, you know, it's going to be lost because,
11 you know, the water could encroach within, you know, to-
12 morrow, it might be four or five years, but that's going
13 to be the nature of what's happening.

14 We've got several wells with the same prob-
15 lem right now where we're being watered, you know, out,
16 and it makes the lifting costs very high.

17 Q Would you therefore conclude that if this
18 application is not granted, that your correlative rights
19 would be impaired?

20 A Yes.

21 Q In your opinion, Mr. Hartman, will granting
22 this application be in the interests of conservation, the
23 prevention of waste, and the protection of correlative
24 rights?

25 A I think it will. I think it will allow gas

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3020 Plaza Blanca (606) 471-2482
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1 to be recovered that won't be recovered if, you know, if it's
2 not granted.

3 Q Is there anything else you would like to
4 add to your testimony?

5 A No.

6 Q Were Exhibits One through Six either pre-
7 pared by you or under your direction and supervision?

8 A Yes.

9 MR. CARR: At this time, Mr. Examiner, we
10 would offer Hartman Exhibits One through Six.

11 MR. STAMETS: These exhibits will be ad-
12 mitted.

13 MR. CARR: I have nothing further on direct.
14

15 CROSS EXAMINATION

16 BY MR. STAMETS:

17 Q Mr. Hartman, do your cross sections cover
18 the same two pools throughout or is there a difference in
19 nomenclature?

20 A Well, what do you mean?

21 Q Well, are we talking about the Langlie
22 Mattix and the Jalmat ---

23 A Yes.

24 Q -- in all cases?

25 A In this particular area they both are, you

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...and I would like to see how
realize that maybe more of them rather than in the
to, you know, more of the other thing about it, in the
pools but many of them better you know, about, with different
after them data, about.

Q And you indicated there was a little flood with that had been granted under contract for the vertical limit.

1. *Conducting work*
 2. *Supervising work*
 3. *Planning work*
 4. *Organizing work*
 5. *Controlling work*
 6. *Coordinating work*
 7. *Communicating work*
 8. *Managing work*
 9. *Leading work*
 10. *Supporting work*
 11. *Monitoring work*
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 13. *Improving work*
 14. *Developing work*
 15. *Implementing work*
 16. *Maintaining work*
 17. *Protecting work*
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 19. *Optimizing work*
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 232. *Evaluating work*
 233. *Improving work*
 234.

Q We've got a large number of waivers here from offset operators, and I presume that in some manner Doyle Hartman had notified these offset operators and had acquired waivers.

A. Well, we have not notified them.

Q Well, you certainly must be very popular with a large group of offset operators, who volunteered to do this for you.

MR. STAMETS: Any other questions of this witness? He may be excused.

As I indicated before, we do have a large number of letters here in support of this application, and we only have one bit of correspondence opposed to that.

I don't know that there's any need of reading these letters since they are in support, but I think perhaps we should make a note of the one telegram which is --

MR. CARR: Well, we would request that the names of the individuals who have written in support --

MR. STAMETS: Okay.

MR. CARR: -- be included in the record.

MR. STAMETS: I will do that.

MS. TESCHENDORF: The letters in support of the application came from Highland Production Company, D. L. Hanophen, Reserve Oil, Inc., Burleson and Huff, the Corrigan

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1 Family, C-O-R-R-I-G-A-N, Robert E. Kanophen, Black River
2 Corporation, and John Yuronka.

3 And we had a telegram opposed to the appli-
4 cation from Continental Oil, and part of the telegram states
5 that they feel the interval being added to the Langlie
6 Mattix Pool appears to be gas productive rather than oil
7 productive and therefore appropriately assigned to the
8 Jalmat Pool, and they feel that the applicant's problems
9 should be handled through an application for downhole com-
10 mingling.

11 MR. STAMETS: Anything further in this
12 case?

13 MR. CARR: I just want to make one very
14 brief comment at the end.

15 We submit that Mr. Hartman drilled a well
16 and completed it using a definition which is commonly used
17 in the area for Langlie Mattix completions. He was notified
18 by the OCD that this was completed above the Langlie Mattix
19 and I think the evidence shows today that there are a num-
20 ber of wells, not just Mr. Hartman's, that suffer from
21 really the same problem.

22 We believe that the evidence shows that
23 the geology throughout the area correlates well zone by
24 zone, and that the objection to the application which has
25 been received today from Continental is based on their

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1 concern that the old definition has served everyone well,
2 but we would submit that the old definition would not have
3 served so well had it in fact been enforced.

4 And we also would submit that we're not
5 seeking special exceptions to pool definitions for special
6 individuals in this case, as Continental has suggested, but
7 we would submit that the converse is true, and we're asking
8 that Mr. Hartman be treated like other operators in the
9 pool.

10 MR. STAMETS: Anything further in this
11 case?

12 The case will be taken under advisement.
13 (Hearing concluded.)
14
15
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25

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REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

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CERTIFIED SHORTHAND REPORTER
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Santa Fe, New Mexico 87501

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EXHIBIT NO. _____

CASE NO. _____

Submitted by _____

Hearing Date _____

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. _____ heard by me on _____ 19____.

_____, Examiner
Oil Conservation Division

JASON W. KELLAHIN
W. THOMAS KELLAHIN
KAREN AUBREY

KELLAHIN and KELLAHIN
ATTORNEYS AT LAW
800 DON GASPAR AVENUE
P. O. BOX 1769
SANTA FE, NEW MEXICO 87501

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TELEPHONE 982-4286
AREA CODE 505

March 2, 1979

OIL CONSERVATION DIVISION
SANTA FE

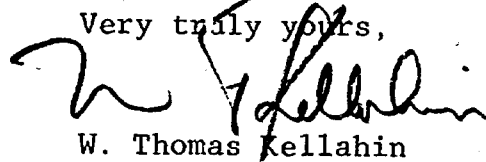
Mr. Joe Ramey
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Doyle Hartman

Dear Joe:

Please set the enclosed application for hearing on
March 28, 1979:

Very truly yours,


W. Thomas Kellahin

CC: Mr. Doyle Hartman

WTK:kfm

Enclosure

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NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
Applicants EXHIBIT NO. 6

Form OCS-105
Revised 1-68

Date ☒ Filed ☐ Page 1

State TX County Lea

Well No. B-1484

1. TYPE OF WELL
L. TYPE OF COMPLETION
NEW WELL ☒ RECOMPLETION ☐
2. Name of Operator
DOYLE HARTMAN

CASE NO. 6505
Submitted by Doyle Hartman
Hearing Date 3/28/79

3. Location of Well
T. Township 24-S R. Range 36-E S. Section 2
4. Location of Well
UNIT LETTER F LOCATED 1650 FEET FROM THE North LINE AND 2310 FEET FROM THE West LINE OF SEC. 2 TWP. 24-S RGE. 36-E
5. Date Spudded 6-1-78 16. Date First Production 5-9-78 17. Date Completed (Ready to Produce) 7-8-78 18. Location (DE, RKB, RT, GR, etc.) 3380 RKB 19. Elev. Casings at Base 3368

20. Total Depth 3754 21. Final Log T.D. 3728 22. Interval from Completion, How Long --- 23. Intervals Perforated By --- History Tools --- Cable Tools ---
24. Producing Interval, 1 ft. or less in section - Top, Bottom, Range 3467 - 3665 w/26 (Seven Rivers - Queen) 25. Was Direction of Flow Made No
26. Type Electric and Other Logs Run CDL-Neutron-GR, Forxo-Guard, GRN-CCL 27. Was Well Cased No

CASING RECORD (Report all strings set in well)			LINER RECORD			TUBING RECORD		
CASING SIZE	WEIGHT LB. FT.	DEPTH SET	SIZE	TOP	BOTTOM	SIZE	DEPTH SET	PACKER SET
8 5/8	28	427	12 1/4			2 3/8	3705	None
4 1/2	10.5	3754	7 7/8					

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	
3570-3665	A/4650	
3467-3542	A/3000	
3467-3665	SWF/60,000 + 100,000	

33. PRODUCTION
Date First Production 6-26-78 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping (10 x 74 x 1 1/2) Well Status (Prod. or Shut-in) Producing
Date of Test 7-8-78 Hours Tested 24 Flow Rate 64/64 Oil - BBL. 52 Gas - MCF 650 Water - BBL. 21 Gas - Oil Ratio 12,500
Flow Testing Press. --- Casing Pressure 45 Cased hole 24-Hour Rate --- Oil - BBL. 52 Gas - MCF 650 Water - BBL. 21 Oil Gravity - API (Corr.) 35

34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented BEFORE EXAMINER STAMETS
Oil Conservation Commission

35. List of Attachments Exhibit No. 6

36. I hereby certify that the information shown on both sides of my knowledge and belief.

SIGNED Doyle Hartman TITLE Operator - Part Owner DATE 7-14-78

Test Witnessed By
Jim Gray

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1210	1420	210	Rustler				
1420	2829	1409	Salado Salt				
2829	2980	151	Tansil				
2980	3195	214	Yates				
3195	3565	370	Seven Rivers				
3565	3723	158	Queen				
3723	3754	31	Penrose				

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INDIAN, N. M.

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	GAS
OPERATOR	
PRODUCTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and
Effective 1-1-65

I. OPERATOR

Operator DOYLE HARTMAN

Address 508 C & K Petroleum Building, Midland, Texas 79701

Reason(s) for filing (Check proper box)

New Well <input checked="" type="checkbox"/>	Change in Transporter of:	Other (Please explain)
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Citgo "AS" State</u>	Well No. <u>2</u>	Pool Name, including Formation <u>Langlie Mattix</u>	Kind of Lease State, Federal or Fee <u>State</u>	Lease No. <u>B-148</u>
Location				
Unit Letter <u>F</u>	<u>1650</u> Feet From The <u>North</u> Line and <u>2310</u> Feet From The <u>West</u>			
Line of Section <u>2</u>	Township <u>24-S</u>	Range <u>36-E</u>	N.M.P.M. <u>1ea</u>	County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>Permian Corporation</u>	<u>P. O. Box 1183, Houston, Texas 77001</u>
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>El Paso Natural Gas Company</u>	<u>P. O. Box 1384, Jal, New Mexico 88252</u>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	<u>F 2 24-S 36-E No 7-15-78</u>

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well <input type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res'v. <input type="checkbox"/>	Diff. res'v. <input type="checkbox"/>
Date Spudded <u>6-1-78</u>	Date Compl. Ready to Prod. <u>7-8-78</u>	Total Depth <u>3754 RKB</u>		P.B.T.D. <u>3728</u>				
Elevations (IDE, RAB, RT, CR, etc.) <u>3380</u>	Name of Producing Formation <u>Seven Rivers - Queen</u>	Top Oil/Gas Pay <u>3467</u>		Tubing Depth <u>3705</u>				
Perforations <u>3467 - 3665 w/ 26 (Seven Rivers - Queen)</u>						Depth Casing Shoe <u>3754</u>		
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
<u>12 1/8"</u>	<u>8 5/8, 28 #/ft</u>		<u>427 RKB</u>		<u>325 SX</u>			
<u>4 1/2"</u>	<u>4 1/2, 10.5 #/ft</u>		<u>3754 RKB</u>		<u>850 SX</u>			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top oil able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks <u>6-26-78</u>	Date of Test <u>7-8-78</u>	Producing Method (Flow, pump, gas lift, etc.) <u>Pump (10 x 74 x 1 1/2)</u>	
Length of Test <u>24 hours</u>	Tubing Pressure <u>---</u>	Casing Pressure <u>45</u>	Choke Size <u>64/64</u>
Actual Prod. During Test	Oil-Bbls. <u>52 BOPD</u>	Water-Bbls. <u>21 BWPD</u>	Gas-MCF <u>650</u>

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (spiral, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Doyle Hartman
(Signature)
Operator-Part Owner
(Title)
July 14, 1978
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 12
BY John W. Ryan
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the data tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for a well on now and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of conditions.
Separate Form C-104 must be filed for each pool in a recompleted well.

NO. OF COPIES RECEIVED
DISTRIBUTION
SANTA FE
FILE
U.S.G.N.
LAND OFFICE
OPERATOR

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FILED IN
INDEXED IN

B-1484

1. TYPE OF WELL
2. TYPE OF COMPLETION
3. NAME OF OPERATOR
4. ADDRESS OF OPERATOR

5. LOCATION OF WELL
6. UNIT LETTER
7. LOCATED
8. FEET FROM THE
9. North
10. 1650

11. THE West
12. LINE OF SEC.
13. 2
14. TWP.
15. 24S
16. RGE.
17. 36E

18. Date Spudded
19. Date First Production
20. Date Ready to Prod.
21. Elevation (D.P., R.R., R.F., G.R., etc.)
22. Flow, Sustained

23. Total Depth
24. Depth to Top of Zone
25. Depth to Bottom of Zone
26. Depth to Top of Cement
27. Depth to Bottom of Cement

28. Type Electric and Other Logs Run
29. GRN-CCL, CDL-Neutron-GR, Forxo-Guard

30. CASING RECORD (Report all strings set in well)

31. LINER RECORD

32. TUBING RECORD

33. PRODUCTION

34. Disposition of Gas (Said, used for fuel, vented, etc.)

35. List of Attachments

36. I hereby certify that the information shown on both sides of this Case No. 6505

SIGNED Doyle Hartman TITLE Operator - Part Owner DATE 9-6-78

Citgo "AS" State

3

Langlie Mattix

Lea

3368 GL 3368

0-3800

No

No

None

None

2 3/8 3715 None

One shot each at: 3480, 3483, 3486, 3499,

3502, 3505, 3508, 3511, 3582, 3585, 3588,

3619, 3621, 3647, 3652, 3659, 3662, 3672,

3675, 3678, 3690, 3693, 3698

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

3480 - 3698 A/6000 gal 15% MCA

3480 - 3698 SWF/55,000 + 90,000

Producing

45,000

James Gray

Exhibit No.

Knowledge and belief

DATE 9-6-78

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-filled or deepened well. It shall be accompanied by a copy of all electric and radioactivity logs run in the well and a summary of all special tests conducted, including full flow tests. All depths reported shall be measured to the true vertical depth of the well. In the case of newly-filled wells, true vertical depth shall also be reported. For multiple completions, items 10 through 14 shall be reported for each zone. The form is to be filed in quadruplicate except on state land where only one copy is required. See Rule 1155.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1190</u>	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt <u>1300</u>	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt <u>2845</u>	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates <u>2995</u>	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers <u>3217</u>	T. Devonian	T. Menefee	T. Madison
T. Queen <u>3580</u>	T. Silurian	T. Point Lookout	T. Eibert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Qtzite
T. Glorieta	T. McKee	T. Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	
T. Blinberry	T. Gr. Wash	T. Morrison	
T. Tubb	T. Granite	T. Todilto	
T. Drinkard	T. Delaware Sand	T. Entrada	
T. Abo	T. Bone Springs	T. Wingate	
T. Wolfcamp		T. Chule	
T. Penn.		T. Permian	
T. Cisco (Bough C)		T. Penn. "A"	

OIL OR GAS SANDS OR ZONES

No. 1, from <u>2995</u> to <u>3698</u>	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
No. 2, from _____ to _____ feet.
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1190	1300	110	Rustler				
1300	2845	1545	Salado Salt				
2845	2995	150	Tansil				
2995	3217	222	Yates				
3217	3580	363	Seven Rivers				
3580	3735	155	Queen				
3735	3801	66	Penrose				

RECEIVED

SEP 11 1978

CH. COMM. COMM.
FIVE M. M.

RECEIVED

SEP 11 1978

OIL CONSERVATION COMM.
EDDIE H. H.

DISTRICT	
COUNTY	
FILE	
DATE	
NAME OF WELL	
NAME OF FIELD	
TRANSPORTER	OIL GAS
OPERATOR	
PRODUCTION OFFICE	

REGISTRATION OF OIL CONSERVATION COMMISSION

REQUEST FOR ALLOWABLE

AND

AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form O-104
Superseding O-101 and
Effective 1-1-65

I.

Doyle Hartman

Address
508 C & K Petroleum Building, Midland, Texas 79701

Reason(s) for filing (check proper box)

New Well	<input checked="" type="checkbox"/>	Change in Transporter of	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership	<input type="checkbox"/>	Casinghead Gas	<input type="checkbox"/> Condensate <input type="checkbox"/>

Other (Please explain)

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Citgo "AS" State	3	Langlie Mattix (Seven Rivers Queen)	State, Federal or Fed	B-148
Location	Unit Letter	Feet From The	Line and	Feet From The
	C	330	North	1650
			West	
Line of Section	2	Township	24-S	Range
			36-E	Lea

1. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Permian Corporation	P. O. Box 1183, Houston, Texas 77001
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	P. O. Box 1384, Jal. New Mexico 88252
If well produces oil or fluid, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	F 2 24S 36E Yes 7-15-78

If this production is commingled with that from any other lease or pool, give commingling order number:

V. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same as prev. Dist. In
X	X						
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.				
7-30-78	9-1-78	3801	3780'				
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth				
3368 G. L.	Seven Rivers - Queen	3480	3715				
Perforations			Depth Casing Shoe				
3480 - 3698 w/23 (Seven Rivers - Queen)			3801				
TUBING, CASING, AND CEMENTING RECORD							
MOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT				
12 1/4	8 5/8, 28#	490	325-sx				
7 7/8	5 1/2, 14#	3801	800-sx				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top of hole for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)
8-21-78	9-1-78	Pumping (11 x 64 x 1 1/4)
Length of Test	Tubing Pressure	Casing Pressure
24 hours	72	72
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.
	10	35
		450

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (prior, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Doyle Hartman
(Signature)

Operator - Part Owner
(Title)

9-6-78
(Date)

OIL CONSERVATION COMMISSION

APPROVED SEP 11 1978

BY [Signature]
TITLE SUPERVISOR DISTRICT 1

This form is to be filed in compliance with rule 1104.

If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the data tests taken on the well in accordance with rule 111.

All sections of this form must be filled out completely on all wells on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter or other such change of record.

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG						Form [X] Rev []	
1. NAME OF WELL 2. LAND OF WELL 3. OPERATOR						4. WELL NO. (SEE PAGE 1) B-1484	
5. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						6. Part A required here	
7. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> RECOMPLETION <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						8. Name of Lease Owner Citgo "LM" State	
9. Name of Operator Doyle Hartman						10. Well No. 1	
11. Address of Operator 312 C & K Petroleum Bldg., Midland, Texas 79701						12. Field or Loc. No., or Wildcat Langlie Mattix	
13. Location of Well UNIT LETTER M LOCATED 330 FEET FROM THE South LINE AND 330 FEET FROM _____						14. County Lea	
15. THE West LINE OF SEC. 36 TAP. 23S RGE. 36E						16. Elevations (dt., RKB, RT, GK, etc.) 3329 G.L.	
17. Date of Completion 1/26/77		18. Date of Test 2/5/77		19. Date of Log (Ready to Prod.) 2/14/77		20. Total Depth 3725	
21. Flow back T.D. 3683		22. If Multiple Compl., How Many _____		23. Intervals Drilled By Rotary Tools 0-3725		24. Cable Tools _____	
25. Producing Interval(s) of this completion - Top, Bottom, Name 3366-3600 (Seven Rivers-Queen)						26. Was Directional Survey Made No	
27. Type Electric and other logging Compensated Density-Neutron, Guard-FORXO, GRN-CCL						28. Was Well Cased No	
29. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
8 5/8	28	433	11	300 sx	None		
4 1/2	10.5	3725	7 7/8	1250 sx	None		
30. LINER RECORD							
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	TUBING RECORD		
					SIZE	DEPTH SET	PACKER SET
					2 3/8	3280	-----
31. Perforation Interval(s) (Interval, size and number) One shot each at: 3366, 3370, 3374, 3378, 3390, 3394, 3398, 3424, 3435, 3439, 3468, 3472, 3476, 3510, 3530, 3537, 3544, 3571, 3576, 3596, 3600.				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 3366-3600 5000 gal. 15% HCA 3366-3600 53,000 gal. gelled water and CO ₂ plus 87,000 lb 20-40 and 10-20 frac sand.			
33. PRODUCTION							
Date First Production 2/11/77		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Shut-In	
Date of Test 2/14/77	Hours Tested 24	Choke Size 20/64	Prodn. Per Test Period →	Oil - bbl. -----	Gas - MCF 444	Water - Bbl. -----	Gas - Oil Ratio Dry Gas
Flow Testing Press. 170	Casing Pressure 210	Calculated 24-Hour Rate →	Oil - Bbl. -----	Gas - MCF 444	Water - Bbl. -----	Oil Gravity - γ_a : 1 (Corr.) -----	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented						Test Witnessed By Doyle Hartman	
35. List of Attachments BEFORE EXAMINER STAMETS Oil Conservation Commission Exhibit No.						Case No. 6505	
36. I hereby certify that the information shown on both sides of my knowledge and belief.							
SIGNED Doyle Hartman				TITLE Operator-Part Owner		DATE 2-17-77	

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FEB 11 1977
OIL CONSERVATION CO.
CHICAGO, IL. U.S.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Aubrey	1173	T. Canyon	T. Ojo Alamo	T. Pen
T. Salt	1343	T. Strawn	T. Kirtland-Fruitland	T. Penn
B. Salt	2747	T. Atoka	T. Fractured Cliffs	T. Penn
T. Yates	2904	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	3129	T. Devonian	T. Menefee	T. Madison
T. Queen	3462	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg		T. Montoya	T. Mancos	T. McCracken
T. San Andres		T. Simpson	T. Gallup	T. Ignacio
T. Glorieta		T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blinberry		T. Gr. Wash	T. Morrison	T.
T. Tubb		T. Granite	T. Todilto	T.
T. Drinkard		T. Delaware Sand	T. Entrada	T.
T. Abo		T. Bone Springs	T. Wingate	T.
T. Wolfcamp		T.	T. Chinle	T.
T. Penn.		T.	T. Permian	T.
T. Cisco (Bough C)		T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from	2904	to	3602	No. 4, from		to	
No. 2, from		to		No. 5, from		to	
No. 3, from		to		No. 6, from		to	

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from		to		feet	
No. 2, from		to		feet	
No. 3, from		to		feet	
No. 4, from		to		feet	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
520	760	240	Santa Rosa				
760	1173	413	Dewey Red Beds				
1173	1343	170	Rustler Anhydrite				
1343	2747	1404	Salado Salt				
2747	2904	157	Tansil				
2904	3129	225	Yates				
3129	3462	333	Seven Rivers				
3462	3640	178	Queen				
3640	3725	85	Penrose				

FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATOR	
PRODUCTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form O-100
 Supersedes OIL C-100 and
 Effective 1-1-65

*Citgo in state
 well file*

Operator Doyle Hartman

Address 312 C & K Petroleum Bldg., Midland, Texas 79701

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change in Transporter of ☐

Recompletion ☐ Oil ☐ Dry Gas ☐

Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name <u>Citgo "LM" State</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Langlie Mattix (Seven Rivers-Queen)</u>	Kind of Lease State, Federal or Fee <u>State</u>	Lease No. <u>B-1484</u>
Location				
Unit Letter <u>M</u>	<u>330</u>	Feet From The <u>South</u>	Line and <u>330</u>	Feet From The <u>West</u>
Line of Section <u>36</u>	Township <u>23S</u>	Range <u>36E</u>	, NMPM, <u>Lea</u> County	

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>El Paso Natural Gas Co.</u>	<u>Box 1384, Jal., New Mexico 88252</u>
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
	<u>No</u> <u>2/28/77</u>

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Some Res't. Pail, etc.
		<u>X</u>	<u>X</u>				
Date Spudded <u>1/26/77</u>	Date Compl. Ready to Prod. <u>2/14/77</u>	Total Depth <u>3725</u>	P.B.T.D. <u>3683</u>				
Elevations (D.F., RKB, RT, GR, etc.) <u>3329 G.L.</u>	Name of Producing Formation <u>Seven Rivers-Queen</u>	Top Oil/Gas Pay <u>3366</u>	Testing Depth <u>3280</u>				
Perforations <u>3366-3600 W/21</u>			Depth Casing Shoe <u>3725</u>				

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
<u>11</u>	<u>8 5/8, 28#</u>	<u>433</u>	<u>300</u>
<u>7 7/8</u>	<u>4 1/2, 10.5#</u>	<u>3725</u>	<u>1250</u>

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Testing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D <u>444</u>	Length of Test <u>24 hrs.</u>	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (Flow, back pr.) <u>choke nipple</u>	Testing Pressure (lb/in ²) <u>170</u>	Casing Pressure (lb/in ²) <u>210</u>	Choke Size <u>20/64</u>

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Doyle Hartman
 (Signature)
 Operator-Part Owner
2-17-77
 (Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____
 BY [Signature]
 TITLE [Signature]

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a calculation of the average tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for all wells except as noted and accepted by the Commission.

Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of data.

NO. OF COPIES REQUIRED

BY SUBMITTER

SANTA FE

FILE

U.S.G.S.

CARD OFFICE

OPERATOR

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form O-105
Revised 10-66

1. Name and Type of Lease
Name ☒ Lease ☐

2. Lease No. B-1484

1. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐

2. TYPE OF COMPLETION

NEW WELL ☒ ACHE ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESER. ☐ OTHER ☐

3. Name of Operator
Doyle Hartman

4. Address of Operator
312 C & K Petroleum Bldg., Midland, Texas 79701

5. Location of Well

UNIT LETTER L LOCATED 1800 FEET FROM THE South LINE AND 330 FEET FROM

THE West LINE OF SEC. 36 TWP. 23-S RGE. 36-E

15. Date Drilled 5-25-77 16. Date T.D. Reached 6-5-77 17. Date Comp. (Ready to Prod.) 6-18-77 18. Elevation (D.E., RKB, RT, GR, etc.) 3331 GL 19. Elev. - established 3331

20. Total Depth 3700 21. Plug Back T.D. 3683 22. If Multiple Comp., How Many None 23. Intervals Drilled By 0-3700 Rotary Tools 0-3700 Cable Tools None

24. Producing Interval(s) of this completion - Top, Bottom, Range
Seven Rivers - Queen (3379-3612)

25. Was Directional Survey Made No

26. Type Electric and Other Log Run
CDL-Nuetron-GR, Guard-Forxo, GRN-CCL

27. Was Well Cored No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	28	463	11	300 SX	None
4 1/2	10.5	3700	7 7/8	1650 SX	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	3365	None

31. Production Report (Interval, size and number) one shot each at:

3612, 3599, 3589, 3586, 3582, 3563, 3560, 3556, 3547, 3537, 3520, 3500, 3482, 3478, 3474, 3445, 3432, 3405, 3401, 3388, 3385, 3382, 3379

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3379 - 3612	A/5500 gal 15% MCA
3379 - 3612	SWF/50,000 + 87,000

33. PRODUCTION

Date First Production 6-12-77 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut - in

Date of Test 6-18-77 Hours Tested 24 Choke Size 32/64 Prodn. Per Test Period 445 Oil - Bbl. 445 Gas - MCF 0 Water - Bbl. 0 Gas - Oil Ratio Dry Gas

Flow Tubing Press. 58 Casing Pressure 127 Calculated 24-Hour Rate 445 Oil - Bbl. 445 Gas - MCF 0 Water - Bbl. 0 Oil Gravity - API (Corr.) 445

34. Disposition of Gas (Sdld, used for fuel, vented, etc.) Vented Test Witnessed By J. Gray

35. List of Attachments

36. I hereby certify that the information shown on both sides of it Case No. 6505 knowledge and belief.

SIGNED Lugh M. Carls Office Manager DATE 6-28-77

BEFORE EXAMINER STAMETS
Oil Conservation Commission
Exhibit No.

This form is to be filled with the appropriate information of the formation and later than 20 days after the completion of any newly-drilled oil or gas well. It shall be completed for each well drilled in the State and shall be filed in the well and a copy of it shall be filed in the State Office, including drill stem logs. All logs, including those of the well, shall be filed in the State Office. In the case of a well drilled in the State, the logs shall be reported for each well, including those of the well, shall be reported for each well. The form is to be filed in the State Office except in the case of a well drilled in the State, where a copy is required. See Rule 11.5.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____ 1170 _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____ 1380 _____	T. Strawn _____	T. Kirtland Frontland _____	T. Penn. "C" _____
B. Salt _____ 2760 _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 2915 _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____ 3143 _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 3473 _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Quize _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Padlock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ 2915 _____ to _____ 3612 _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ 515 _____ to _____ 755 _____ feet.	Santa Rosa
No. 2, from _____ to _____ feet.	
No. 3, from _____ to _____ feet.	
No. 4, from _____ to _____ feet.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
515	755	240	Santa Rosa				
755	1170	415	Red Beds				
1170	1380	210	Rustler Anhydrite				
1380	2760	1380	Salado Salt				
2760	2915	155	Tansill				
2915	3143	228	Yates				
3143	3473	330	Seven Rivers				
3473	3655	182	Queen				
3655	3700	45	Penrose				

RECEIVED

JUL 10 1977

Oil Conservation Comm.
HOBBS, N. M.

RECEIVED
DISTRIBUTION
DATE
FILE
U.S.G.S.
LAND OFFICE
TRANSPORTER
OIL
GAS
OPERATOR
PRODUCTION OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form O-104
Supersedes OIL C-101 and C-
Effective 1-1-65

Operator
Doyle Hartman

Address
312 C & K Petroelum Bldg., Midland, Texas 79701

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change In Transporter of ☐

Recompletion ☐ Oil ☐ Dry Gas ☐

Change In Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name
and address of previous owner

I. DESCRIPTION OF WELL AND LEASE

Lease Name Citgo "LM" State	Well No. 2	Pool Name, including Formation Langlie Mattix	Kind of Lease State, Federal or Fee State	Lease No. B-1484
Location				
Unit Letter L	Feet From The 1800	Line and South	Feet From The West	
Line of Section 36	Township 23-S	Range 36-E	Lea	County

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas company	Box 1384, Jal, New Mexico 88252
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
	No 7-15-77

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Surge Res'n.	Prod. Res'n.
		X	X					
Date Spudded 5-25-77	Date Compl. Ready to Prod. 6-18-77	Total Depth 3700	P.D.T.D. 3683					
Elevations (DF, RKB, RT, CR, etc.) 3331 GL	Name of Producing Formation Seven Rivers-Queen	Top Oil/Gas Pay 3379	Tubing Depth 3365					
Perforations 3379 - 3612	Depth Casing Shoe 3700							

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
11	8 5/8, 28 #	463	300
7 7/8	4 1/2, 10.5#	3700	1650

III. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 445	Length of Test 24 hrs	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (spot, back pr.) Choke nipple	Tubing Pressure (lb/in ²) FTP=58	Casing Pressure (lb/in ²) FCP=127	Choke Size 32/64

IV. CERTIFICATE OF COMPLIANCE SITP=155

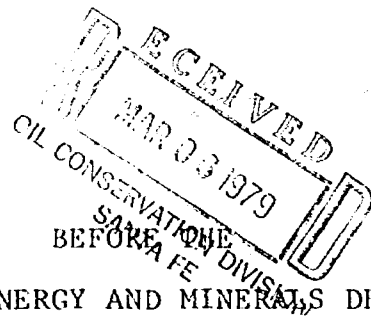
I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Light M. Cestros
(Signature)
Office Manager
(Title)
6/28/77
(Date)

SICP=153 OIL CONSERVATION COMMISSION

APPROVED *John W. Runyan*, 19
BY *John W. Runyan*
TITLE **Geologist**

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the test results taken on the well in accordance with RULE 111.
All portions of this form must be filled out completely for this form to be valid and complete.
Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of conditions.



NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Case 6505

IN THE MATTER OF THE APPLICATION OF
DOYLE HARTMAN FOR AN ORDER EXTENDING
THE TOP VERTICAL LIMITS OF THE LANGLIE-
MATTIX POOL FOR CERTAIN ACREAGE WITHIN
SAID POOL., LEA COUNTY, NEW MEXICO.

A P P L I C A T I O N

Comes now Doyle Hartman and applies to the Oil Conservation Division, New Mexico Energy and Minerals Department, for an order extending the top vertical limits of the Langlie-Mattix Pool for a portion of said pool, for deletion of certain acreage from the lower vertical limits of the Jalmat Gas Pool or in the alternative for a redefinition of the vertical limits of a portion of the Jalmat Gas Pool and the Langlie Mattix Pool, Lea County, New Mexico, and in support thereof would show:

1. Applicant is an operator in the Langlie-Mattix and Jalmat Pools, Lea County, New Mexico.
2. That Applicant seeks to extend the top vertical limits of the Langlie-Mattix Pool to include 200 feet above the top of the Queen formation with the corresponding deletion from the Jalmat Gas Pool, Lea County, New Mexico for the following acreage:

Township 23 South, Range 36 East, N.M.P.M.

Section 35: SW $\frac{1}{4}$; S $\frac{1}{2}$ SE $\frac{1}{4}$ and NW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 36: W $\frac{1}{2}$ SW $\frac{1}{4}$

Township 24 South, Range 36 East, N.M.P.M.

Section 1: NW $\frac{1}{4}$; S $\frac{1}{2}$ NE $\frac{1}{4}$ and NW $\frac{1}{4}$ NE $\frac{1}{4}$

Section 2: W $\frac{1}{2}$

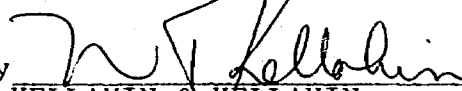
3. That the extension of the Langlie-Mattix Pool as requested will permit the more efficient operation of wells in said area, will prevent waste and will not violate correlative rights.

WHEREFORE Applicant requests that this matter be set for hearing as required by law and that after notice and hearing the Division enter its order approving the application as requested.

Respectfully submitted,

DOYLE HARTMAN

By



KELLAHIN & KELLAHIN

P. O. Box 1769

Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

RECEIVED
OIL CONSERVATION DIVISION
SANTA FE
JUN 17 1969

Case 6509

BEFORE THE
NEW MEXICO ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF
DOYLE HARTMAN FOR AN ORDER EXTENDING
THE TOP VERTICAL LIMITS OF THE LANGLIE-
MATTIX POOL FOR CERTAIN ACREAGE WITHIN
SAID POOL., LEA COUNTY, NEW MEXICO.

A P P L I C A T I O N

Comes now Doyle Hartman and applies to the Oil Conservation Division, New Mexico Energy and Minerals Department, for an order extending the top vertical limits of the Langlie-Mattix Pool for a portion of said pool, for deletion of certain acreage from the lower vertical limits of the Jalmat Gas Pool or in the alternative for a redefinition of the vertical limits of a portion of the Jalmat Gas Pool and the Langlie Mattix Pool, Lea County, New Mexico, and in support thereof would show:

1. Applicant is an operator in the Langlie-Mattix and Jalmat Pools, Lea County, New Mexico.
2. That Applicant seeks to extend the top vertical limits of the Langlie-Mattix Pool to include 200 feet above the top of the Queen formation with the corresponding deletion from the Jalmat Gas Pool, Lea County, New Mexico for the following acreage:

Township 23 South, Range 36 East, N.M.P.M.

Section 35: SW $\frac{1}{4}$; S $\frac{1}{2}$ SE $\frac{1}{4}$ and NW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 36: W $\frac{1}{2}$ SW $\frac{1}{4}$

Township 24 South, Range 36 East, N.M.P.M.

Section 1: NW $\frac{1}{4}$; S $\frac{1}{2}$ NE $\frac{1}{4}$ and NW $\frac{1}{4}$ NE $\frac{1}{4}$

Section 2: W $\frac{1}{2}$

3. That the extension of the Langlie-Mattix Pool as requested will permit the more efficient operation of wells in said area, will prevent waste and will not violate correlative rights.

WHEREFORE Applicant requests that this matter be set for hearing as required by law and that after notice and hearing the Division enter its order approving the application as requested.

Respectfully submitted,

DOYLE HARTMAN

By 

KELLAHIN & KELLAHIN

P. O. Box 1769

Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

Dockets Nos. 14-79 and 15-79 are tentatively set for hearing on April 11 and 18, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 28, 1979

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 6500: Application of Gulf Oil Corporation for approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a finding that the Division waived existing well-spacing requirements and found that the drilling of additional wells was necessary to effectively and efficiently drain those portions of the proration units in the Central Drinkard Unit located in Sections 28, 29, 32 and 33, Township 21 South, Range 37 East, Lea County, New Mexico, which could not be so drained by the existing wells.
- CASE 6501: Application of Delta Drilling Company for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter the Williamson State Unit Well No. 1, the surface location of which is 660 feet from the North and West lines of Section 30, Township 16 South, Range 33 East, Lea County, New Mexico, and directionally drill said well in such a manner as to bottom it in the Morrow formation within 100 feet of a point 1980 feet from the North and West lines of said Section 30, the N/2 of the section to be dedicated to the well.
- CASE 6502: Application of Stevens Oil Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the SW/4 of Section 30, Township 8 South, Range 29 East, Chaves County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6503: Application of Sundance Oil Company for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation through the perforated interval from 4207 feet to 4228 feet in its Cone Federal Well No. 8 located in Unit P of Section 31, Township 7 South, Range 32 East, Tomahawk-San Andres Pool, Roosevelt County, New Mexico.
- CASE 6504: Application of Phoenix Resources Company for a unit agreement, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Buckhorn Canyon Unit Area No. 2, comprising 23,009 acres, more or less, of Federal and State lands in Township 19 South, Ranges 19 and 20 East, Chaves County, New Mexico.
- CASE 6505: Application of Doyle Hartman for vertical pool limit redefinition, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order extending the vertical limits of the Langlie Mattix Pool in Lea County, New Mexico, to include the lowermost 200 feet of the Seven Rivers formation and the concomitant contraction of the vertical limits of the Jalmat Gas Pool underlying the following described lands in Township 23 South, Range 36 East: Section 35: SW/4, S/2 SE/4, and NW/4 SE/4; Section 36: W/2 SW/4; and in Township 24 South, Range 36 East: Section 1: NW/4, S/2 NE/4, and NW/4 NE/4; Section 2: W/2.
- CASE 6506: Application of Bedford, Inc. for approval of infill drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Ram Well No. 1-A located in Unit G of Section 8, Township 26 North, Range 12 West, WAW-Fruitland Pictured Cliffs Pool, San Juan County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.
- CASE 6507: Application of Harvey E. Yates Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir or in the alternative a new onshore production well determination for its Hanlad State Well No. 1 located in Unit K of Section 2, Township 18 South, Range 35 East, Queen formation, Lea County, New Mexico.
- CASE 6508: Application of Harvey E. Yates Company for an unorthodox well location and a non-standard proration unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 62.75-acre non-standard gas proration unit comprising Lots 1 and 2 of Section 19, Township 18 South, Range 29 East, Eddy County, New Mexico, to be dedicated to its Depco Federal Well No. 1 to be located 330 feet from the North line and 660 feet from the West line of said Section 19.

CASE 6509: Application of Harvey E. Yates Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order creating a new gas pool in the Yates formation for its Depeco Federal Well No. 1 located in Unit D of Section 19, Township 18 South, Range 29 East, Eddy County, New Mexico, and for promulgation of special pool rules, including provision for 80-acre gas well spacing.

CASE 6480: (Continued from February 28, 1979, Examiner Hearing)

Application of Harvey E. Yates Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir or in the alternative a new onshore production well determination for its State 22 Well No. 1 located in Unit P of Section 22, Township 18 South, Range 35 East, Queen formation, Lea County, New Mexico.

CASE 6482: (Continued from February 28, 1979, Examiner Hearing)

Application of Harvey E. Yates Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir or in the alternative a new onshore production well determination for its Mobil 27 State Well No. 1 located in Unit A of Section 27, Township 18 South, Range 35 East, Queen formation, Lea County, New Mexico.

CASE 6072: (Continued from March 14, 1979, Examiner Hearing)

In the matter of Case 6072 being reopened pursuant to the provisions of Order No. R-5643 which order created the Travis-Upper Pennsylvanian Pool, Eddy County, New Mexico, with provisions for 80-acre spacing. All interested parties may appear and show cause why the Travis-Upper Pennsylvanian Pool should not be developed on 40-acre spacing units.

CASE 6492: (Continued from March 14, 1979, Examiner Hearing)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the NE/4 NW/4 of Section 13, Township 17 South, Range 25 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6510: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location for the Wolfcamp through Mississippian formations of its Rio Pecos Federal "K0" Well No. 1, to be located 660 feet from the North line and 1300 feet from the East line of Section 28, Township 18 South, Range 27 East, Eddy County, New Mexico, the E/2 of said Section 28 to be dedicated to the well.

CASE 6511: Application of Yates Petroleum Corporation for a dual completion and downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Tom Brown "GQ" Com. Well No. 1 located in Unit C of Section 22, Township 17 South, Range 26 East, Kennedy Farms Field, Eddy County, New Mexico, to produce gas from the Lower Morrow formation through tubing and to commingle and produce the Strawn and Upper Morrow zones in the annulus of said well.

CASE 6512: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Hilliard "BF" Federal Well No. 2, to be located 330 feet from the North line and 2310 feet from the West line of Section 14, Township 21 South, Range 22 East, to test the Wolfcamp through Mississippian formations, Eddy County, New Mexico, the W/2 of said Section 14 to be dedicated to the well.

CASE 6513: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Atoka and Morrow production in the wellbore of its Stebbins GQ Fed. Well No. 1 located in Unit B of Section 20, Township 20 South, Range 29 East, East Burton Flats Field, Eddy County, New Mexico.

CASE 6514: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of North Burton Flats-Atoka and East Burton Flats-Morrow production in the wellbore of its Williamson BC Fed. Well No. 4 located in Unit K of Section 7, Township 20 South, Range 29 East, Eddy County, New Mexico.

CASE 6515: Application of Southland Royalty Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 31, Township 31 North, Range 11 West, San Juan County, New Mexico, to be dedicated to its Grenier Well No. 23 drilled at a location 1190 feet from the South and West lines of said Section 31. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6516: Application of Union Oil Company of California for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Maduro Unit Area, comprising 2,560 acres, more or less, of Federal and State lands in Township 19 South, Range 33 East, Lea County, New Mexico.

CASE 6452: (Continued and Readvertised)

Application of Burleson & Huff for a non-standard gas proration unit and approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the SW/4 of Section 25, Township 24 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico. Applicant further seeks a finding that the recompletion of its Harrison Well No. 2 located in Unit N or in the alternative, the drilling of its Harrison Well No. 4 in Unit L, of Section 25 is necessary to effectively and efficiently drain that portion of the previously approved 160-acre proration unit which cannot be drained by the old unit well.

Double check with
Jonny before releasing
This order

ROUGH

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 6505
Order No. R-5972

Application of Doyle Hartman for vertical pool limit redefinition, Lea County, New Mexico.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 28
19 77, at Santa Fe, New Mexico, before Examiner RLS

NOW, on this _____ day of _____, 19____, the
Division Director, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

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

(2) That the applicant, Doyle Hartman,

seeks an order extending the vertical limits of the Langlie
Mattix Pool in Lea County, New Mexico, to include the lowermost 200 feet of the Seven Rivers forma-
tion and the concomitant contraction of the vertical limits of the Jalmat Gas Pool underlying the
following described lands:

Lea County New Mexico
Township 29 South, Range 36 East, NMPH
Section 35: SW/4, S/2 SE/4 and NW/4 SE/4
Section 36: W/2 SW/4

Township 24 South, Range 36 East, NMPH
Section 1: NW/4, S/2 NE/4, and NW/4 NE/4
Section 2: W/2

(3) That the applicant proposed to amend the subject application ^{To} involve only the lowermost 165 feet of the Seven Rivers formation rather than 200 feet.

(4) The amendment of the application should be approved.

(5) That ~~the applicant~~ ^{Doyle Hartman} is the owner and operator of certain wells on applicant's leases in said Section 36 and said Section 2.

(6) That some of said wells have been completed within the vertical limits of the Langlie Mattix Oil Pool in Lea County, New Mexico.

(7) That because of the applicant's use of an incorrect geologic marker certain of said wells were also completed above the upper limit of said Langlie Mattix Pool but within 65 feet thereof *as presently defined.*

(8) That the applicant seeks the proposed amendment to the vertical limits of said Langlie Mattix and Jalmat Pools to permit production of said wells without the necessity for working over and plugging off of the upper zones therein.

(9) That no offset operator or other owner in either of said pools appeared and objected to the application.

(10) That there are areas within said Langlie Mattix Pool which have similar extensions to the vertical limits thereof.

(11) That the proposed change in the vertical limits of said pools should apply only to the applicant's acreage in said Section 36 and said Section 2 and not to ~~the other~~ ^{Said Section 35 and said Section 34} which

*Contains
@asked for* ~~is~~ owned by a different operator who filed a written protest.

(12) That to avoid drilling unnecessary wells, to prevent waste, and to protect correlative rights, the application to amend the vertical limits of said pools should be approved as to applicant's acreage in said Section 36 and said Section 2.

-3-

Case No. 6505

Order No. R-

IT IS THEREFORE ORDERED:

(1) That effective April 1, 1979, the vertical limits of the Langlie Mattix Pool in Lea County, New Mexico, are *hereby* extended to include the lowermost 165 feet of the Seven Rivers formation and the vertical limits of the Jalmat Gas Pool are concomitantly contracted by exclusion of said lowermost 165 feet of the Seven Rivers formation underlying the following described lands:

TOWNSHIP 23 SOUTH, RANGE 36 EAST, NMPM
Section 36: W/2 SW/4

TOWNSHIP 24 SOUTH, RANGE 36 EAST, NMPM
Section 2: W/2

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

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.