

CASE NO. 5368: MOTION CALLED BY
OCC TO CONSIDER THE CONTRACTION OF
THE VERTICAL LIMITS OF JALMAT GAS
POOL, LEA COUNTY, NM

CASE No.

5368

Application,

Transcripts,

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 26, 1974

EXAMINER HEARING

IN THE MATTER OF:

The hearing called by the Oil Conservation Commission on its own motion to consider the contraction of the vertical limits of the Jalmat Gas Pool underlying the Langlie Jal Unit Area in all or portions of Sections 31 and 32, Township 24 South, Range 37 East, and Sections 4, 5, 6, 8, 9 and 17, Township 25 South, Range 37 East, Lea County New Mexico, to delete the Seven Rivers formation from said pool, and for the extension of the vertical limits of the Langlie-Mattix Pool underlying said area to include therein all of the Seven Rivers formation.

CASE NO.
5368

BEFORE: Daniel S. Nutter, Examiner

For the New Mexico Oil
Conservation Commission:

Thomas Derryberry, Esq.
Legal Counsel for the
Commission
State Land Office Building
Santa Fe, New Mexico

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

I N D E X

PAGE

CARL ULVOG

Direct Examination by Mr. Derryberry

3

E X H I B I T S

Staff Exhibit "A"

11

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

MR. NUTTER: Case 5368.

MR. CARR: Case 5368. In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the contraction of the vertical limits of the Jalmat Gas Pool underlying the Langlie Jal Unit Area in all or portions of Sections 31 and 32, Township 24 South, Range 37 East, and Sections 4, 5, 6, 8, 9 and 17, Township 25 South, Range 37 East, Lea County, New Mexico to delete the Seven Rivers formation from said pool and for the extension of the vertical limits of the Langlie-Mattix Pool underlying said area to include therein all of the Seven Rivers formation.

MR. NUTTER: We call for appearances in this case.

MR. DERRYBERRY: Tom Derryberry, appearing for the Commission. I have one witness to be sworn.

MR. NUTTER: Are there other appearances?
Would you proceed?

CARL ULVOG

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. DERRYBERRY:

Q Will you please state your name and position

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

ULVOG-DIRECT

Page 4

for the record?

A Yes. Carl Ulvog, Senior Petroleum Geologist for the Oil Conservation Commission here in Santa Fe.

Q Do your duties as Senior Petroleum Geologist include making recommendations for the Commission concerning the nomenclature of oil and gas pools in New Mexico?

A Yes, sir, they do.

Q Have you testified before the Commission previously and had your qualifications accepted as a matter of record?

A Yes, I have.

Q Have you made a study of the Jalmat Gas Pool and the Langlie-Mattix Pool underlying the Langlie-Jal Unit Area in Lea County, New Mexico?

A Yes, sir, I have.

MR. DERRYBERRY: Are the witness' qualifications acceptable?

MR. NUTTER: Yes, they are. Proceed.

BY MR. DERRYBERRY:

Q What are the present vertical limits of the Jalmat Gas Pool and the Langlie-Mattix Pool?

A The previous definition of the Jalmat Gas Pool within the area of the Langlie Jal Unit, defined as all of the Tansill formation, all of the Yates formation,

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

ULVOG-DIRECT

Page 5

and all of the Seven Rivers except the basal 100 feet, and the vertical extent of the Langlie-Mattix Pool defined as the 100-foot interval at the base of the Seven Rivers Formation, plus all of the Queen and Grayburg Formations.

Q What are the unitized formations in the Langlie-Jal Unit?

A The unitized formations in the Langlie-Jal Unit was the Langlie-Mattix pay which is in the Langlie-Jal Unit.

Q What formation is that? Is this strictly the Langlie-Mattix?

A It was originally the Langlie-Mattix, and, of course, that would be the Queen and Grayburg and the bottom 100 feet of the Seven Rivers.

Q What are the reservoir characteristics of the Seven Rivers Formation under the Langlie-Jal Unit?

A The Seven Rivers Formation is primarily oil producing, or oil productive horizon. At least the bottommost part and the upper part, there is some gas.

Q Are there presently being carried out secondary recovery operations in the unit area?

A Yes. There is waterflood operations apparently going on. Order No. R-4051 authorized that waterflood in the Langlie-Jal Unit.

Q Which formations are being flooded?

A That would be the underlying -- that would be the basal 100 feet of the Seven Rivers, plus all in the Queen and Grayburg.

Q In your opinion, would the efficiency of secondary recovery operations in the unit enhance the entire Seven Rivers if the Queen Formation were treated as a common producing interval?

A Yes, that is correct, because part of the producing formation that is being waterflooded extends on up above that basal 100-foot interval, and actually extends up into what is now considered to be in the Jalmat Gas Pool.

Q To your knowledge, are there any Jalmat gas wells which will be completed in both pools if the vertical limits of the pools are changed as proposed by the Commission?

A Yes. We know of two wells that are presently producing from the Jalmat gas zone in the uppermost part of the Seven Rivers, but it does extend down below -- well, to about the upper half of the formation that is productive in gas. We only know of two wells in this case.

Q Do you have an exhibit which shows some of the present completions in the Jalmat Gas Pool?

A Yes, I do. I have an exhibit here which consists

of a cross section with an index map.

Q Will you open that exhibit and explain the significance of it as to what the Commission is proposing in this case?

A This is a stratigraphic structural cross section which runs essentially north-south to the Langlie-Jal Unit. At the bottom central part of the Section, you will find an index map on which is colored in, in a dark green line, the boundary of the Langlie-Jal Unit. And shown on here by means of the red circles are the wells which are incorporated into this cross section, running essentially from north to south. The red lines connecting those wells are the lines of the Section.

In the center of that section, approximately, is located one of the wells which I previously referred to as being productive of gas from the Jalmat gas zone. There is one other well similar to this, which is the only one we know of, which would be located on this index map by a little green section up in the far northwest corner identified with green just like the El Paso Well in the center of this cross section. Those wells are located, incidentally -- the El Paso Well is located in Unit I of Section 5, Township 25 South, Range 37 East,

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

and the other well is the Reserve Oil and Gas No. 1 B. Martin, located in Unit F of Section 31, Township 24 South, Range 37 East.

If you will refer to that Section, you will see all of the wells on that cross section with the exception of the El Paso Well that I mentioned before have shown the producing interval that is now being waterflooded in the Langlie-Jal Unit, and shows that to extend across the boundary of the Jalmat Gas Pool and the Langlie-Mattix Pool. Most of the wells in the field, this is the case.

Q So, your opinion would be that alteration of the vertical boundary of these two pools recognized an actual production practice that is currently taking place in the pool?

A Yes. The secondary recovery operations is actually waterflooding this zone as a unit which extends across from the Langlie-Mattix Water Pool into what is presently defined as the base of the Jalmat Gas Pool, but it is all oil production. So, if we could raise -- in other words, to contact the vertical limits of the Jalmat Pool to include all of the Seven Rivers Formation and expand the limits, the vertical limits of the Langlie-Mattix Pool upwards, we would include all of this that

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

is presently being waterflooded.

Q And, in your opinion, that will enhance the recovery as a result of those secondary recovery operations?

A That's right.

Q As for the Jalmat Gas Wells which would be completed in both pools if the vertical boundaries of the pool were altered as suggested, what do you propose or how do you propose that this problem be resolved?

A Well, we would propose that we grant exceptions to those two. There are only those two wells. We would grant exception to those two and if there are any others that we should find or should be completed in that zone, later we would recommend exception to those also, since they would be gas wells.

Q Would you recommend the establishment of an administrative procedure for the granting of exceptions to any wells that are found in this condition?

A Yes, I would.

Q Do you have anything further to add to your testimony?

A No, I think that would cover it.

MR. DERRYBERRY: I have no more questions on direct.

MR. NUTTER: Are there any questions of the witness? He may be excused.

(Witness dismissed.)

MR. NUTTER: Do you have anything further, Mr. Derryberry?

MR. DERRYBERRY: No.

MR. NUTTER: Does anyone have anything they wish to offer in Case No. 5368?

MR. EATON: Yes, sir.

MR. NUTTER: Mr. Eaton?

MR. EATON: Paul Eaton, appearing for Union Texas Petroleum. I would like to make a statement.

While carrying on a secondary recovery project in the Langlie-Jal Unit, it is Union Texas Petroleum's intention to complete, insofar as possible, only those sands which are oil bearing. It is known by Union Texas Petroleum that gas bearing sands do exist in the Langlie-Jal Units' vertical limits between the top of the Seven Rivers and the base of the Queen Formation. In every instance, care has been taken by Union Texas Petroleum to avoid opening the well bore opposite gas bearing sands.

The use of Schlumberger's cori-band log has been helpful to differentiate between gas and oil bearing sands.

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

These gas bearing sands are usually confined in the unit area to the upper Seven Rivers interval. Although the coriband log is subject to interpretation, it has been effective in confining Union Texas Petroleum's completions only to oil bearing sands.

As a consequence of the work which we have done and the knowledge which we have gained, Union Texas Petroleum supports the proposal of the Oil Conservation Commission to delete the Seven Rivers Formation from the Jalmat Gas Pool and to extend the vertical limits of the Langlie-Mattix Pool to include the Seven Rivers Formation in the area specified by the Commission.

MR. NUTTER: Thank you. Does anyone else have anything to offer in Case 5368?

MR. DERRYBERRY: Mr. Examiner, I would like to offer Exhibit "A" into the record.

MR. NUTTER: Staff Exhibit "A" will be admitted in Case No. 5368.

(Whereupon, Staff Exhibit "A" was marked for identification and was admitted into evidence.)

MR. NUTTER: If there is nothing further, we will take the case under advisement.

STATE OF NEW MEXICO)
) SS.
COUNTY OF SANTA FE)

I, RICHARD L. NYE, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Richard L. Nye
COURT REPORTER

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5368, heard by me on 11/26, 1974.

[Signature], Examiner
New Mexico Oil Conservation Commission

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 962-0386



OIL CONSERVATION COMMISSION

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

December 5, 1974

I. R. TRUJILLO
CHAIRMAN
LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER
STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

Mr. Paul Eaton
Hinkle, Bondurant, Cox & Eaton
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: CASE NO. 5368

ORDER NO. R-4929

Applicant:

OCC

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC X
Artesia OCC _____
Aztec OCC _____

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

CASE NO. 5368
Order No. R-4929

NOMENCLATURE

IN THE MATTER OF THE HEARING CALLED BY THE
OIL CONSERVATION COMMISSION ON ITS OWN MOTION
TO CONSIDER THE CONTRACTION OF THE VERTICAL
LIMITS OF THE JALMAT GAS POOL UNDERLYING ALL
OR PORTIONS OF SECTIONS 31 AND 32, TOWNSHIP
24 SOUTH, RANGE 37 EAST, AND SECTIONS 4, 5,
6, 8, 9 AND 17, TOWNSHIP 25 SOUTH, RANGE 37
EAST, LEA COUNTY, NEW MEXICO, AND THE EXTEN-
SION OF THE VERTICAL LIMITS OF THE LANGLEIE
MATTIX POOL UNDERLYING THE SAME AREA.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 26,
1974, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 3rd day of December, 1974, the Commission,
a quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being fully
advised in the premises,

FINDS:

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

(2) That the vertical limits of the Jalmat Gas Pool, Lea
County, New Mexico, as previously designated and defined by the
Commission, comprise the Tansill and Yates formations, and all
but the lowermost 100 feet of the Seven Rivers formation.

(3) That the vertical limits of the Langlie-Mattix Oil
Pool, as previously designated and defined by the Commission,
comprise the lowermost 100 feet of the Seven Rivers formation
and all of the Queen and Grayburg formations.

(4) That the unitized formations in the Langlie-Jal Unit
Area, as approved by Commission Order No. R-4036, comprise the
Seven Rivers and Queen formations.

(5) That the horizontal limits of said Langlie-Jal Unit
Area comprise the following described lands:

LEA COUNTY, NEW MEXICO
TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
Section 31: Lots 2, 3, and 4 and SE/4 NW/4,
E/2 SW/4, and E/2
Section 32: All

-2-

CASE NO. 5368

Order No. R-4929

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM

Section 4: Lots 2, 3, and 4 and S/2 NW/4,
SW/4 NE/4, and W/2 SW/4

Section 5: All

Section 6: All

Section 8: E/2 and NW/4

Section 9: W/2 W/2

Section 17: E/2

(6) That the Seven Rivers formation underlying said unit area is for the most part oil-saturated, and there are recoverable oil reserves in said interval and area.

(7) That secondary recovery operations are currently being conducted in the Seven Rivers formation and in the Queen formation underlying the Langlie-Jal Unit Area pursuant to authority of Order No. R-4051.

(8) That to increase the efficiency of said secondary recovery operations, the Seven Rivers formation and the Queen formation should be treated as a common producing interval.

(9) That the contraction of the vertical limits of the Jalmat Gas Pool to exclude all of the Seven Rivers formation therefrom, and the concurrent extension of the vertical limits of the Langlie Mattix Oil Pool to include all of the Seven Rivers formation therein, within the horizontal limits of the Langlie-Jal Unit Area as set forth in Finding No. (5) above, will permit the more efficient operation of the aforesaid secondary recovery project, will prevent waste, will not violate correlative rights, and should be approved.

(10) That there are at least two gas wells completed in the Yates formation of the Jalmat Gas Pool which have perforated or open-hole intervals extending into the uppermost portion of the Seven Rivers formation, these wells being the Reserve Oil and Gas Company Martin B Well No. 1, located in Unit F of Section 31, Township 24 South, Range 37 East, the open-hole producing interval being from 2852 feet to 3187 feet, the lowermost 42 feet of which is in the Seven Rivers formation, and the El Paso Natural Gas Company Wells Federal Well No. 1, located in Unit I of Section 5, Township 25 South, Range 37 East, the perforated interval being from 3100 feet to 3195 feet, the lowermost 30 feet of which is in the Seven Rivers formation.

(11) That an exception to the vertical limits of the Jalmat Gas Pool as amended in the subject area by this order should be given to the wells described in finding No. (10) above for the producing intervals as described.

CASE NO. 5368
Order No. R-4929

(12) That the Secretary-Director of the Commission should have authority to grant administrative exception to the vertical limits of the Jalmat Gas Pool as amended in the subject area by this order should it be found that there are other Jalmat Gas wells the producing interval of which similarly extend into the Seven Rivers formation.

IT IS THEREFORE ORDERED:

(1) That this order shall apply only to the following described area:

LEA COUNTY, NEW MEXICO
TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM
Section 31: Lots 2, 3, and 4 and SE/4 NW/4,
E/2 SW/4, and E/2
Section 32: All

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM
Section 4: Lots 2, 3, and 4 and S/2 NW/4,
SW/4 NE/4, and W/2 SW/4
Section 5: All
Section 6: All
Section 8: E/2 and NW/4
Section 9: W/2 W/2
Section 17: E/2

(2) That the vertical limits of the Jalmat Gas Pool in the above-described area are hereby defined as comprising the Tansill and Yates formations.

(3) That the vertical limits of the Langlie Mattix Oil Pool in the above-described area are hereby defined as comprising the Seven Rivers, Queen, and Grayburg formations.

(4) That the Reserve Oil and Gas Company Martin B Well No. 1, located in Unit F of Section 31, Township 24 South, Range 37 East, the open-hole interval of which is 2852 feet to 3187 feet, and the El Paso Natural Gas Company Wells Federal Well No. 1, located in Unit I of Section 5, Township 25 South, Range 37 East, the perforated interval of which is 3100 feet to 3195 feet, both of which are classified as Jalmat Gas Wells, are each hereby granted an exception to the vertical limits of the Jalmat Gas Pool for that portion of the producing interval which is currently open in the Seven Rivers formation.

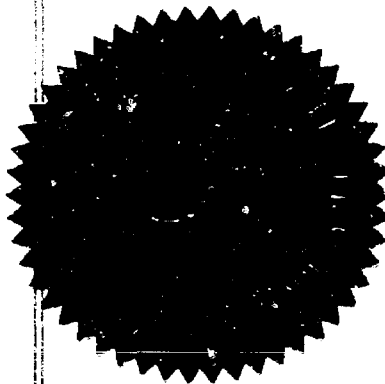
(5) That the Secretary-Director of the Commission is hereby authorized to approve an exception to the vertical limits of the Jalmat Gas Pool for any other well classified as a Jalmat Gas Well which may prove to have, on the effective date of this order, a portion of its producing interval open to the Seven Rivers formation.

-4-

CASE NO. 5368
Order No. R-4929

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

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



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

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

ALEX J. ARMIJO, Member

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

S E A L

jr/

- CASE 5373: Application of Monsanto Company for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to test the Morrow formation at a point 660 feet from the North and West lines of Section 18, Township 23 South, Range 25 East, Rock Tank Gas Field, Eddy County, New Mexico.
- CASE 5368: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the contraction of the vertical limits of the Jalmat Gas Pool underlying the Langlie Jal Unit Area in all or portions of Sections 31 and 32, Township 24 South, Range 37 East, and Sections 4, 5, 6, 8, 9, and 17, Township 25 South, Range 37 East, Lea County, New Mexico, to delete the Seven Rivers formation from said pool, and for the extension of the vertical limits of the Langlie-Mattix Pool underlying said area to include therein all of the Seven Rivers formation.
- CASE 5369: Application of Texas Pacific Oil Company, Inc., for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Tidwel No. 1 Well, located 990 feet from the South line and 660 feet from the East line of Section 22, Township 17 South, Range 26 East, Kennedy Farms-Morrow Gas Pool, Eddy County, New Mexico, the E/2 of said Section 22 to be dedicated to the well.
- CASE 5370: Application of American Quasar Petroleum Co. of New Mexico for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Tiffin Ranch Unit Area comprising 3840 acres, more or less, of Federal, State, and fee lands in Township 23 South, Range 23 East, Eddy County, New Mexico.
- CASE 5371: Application of Amoco Production Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of its South Hobbs Unit Area comprising 5074 acres, more or less, of State and Fee lands in Townships 18 and 19 South, Range 38 East, Lea County, New Mexico.
- CASE 5372: Application of Amoco Production Company for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project on its South Hobbs Unit by the injection of water into the Grayburg and San Andres formations through 45 injection wells in Sections 3, 4, 5, 6, 8, 9, 10, 15, and 16, Township 19 South, Range 38 East, Lea County, New Mexico, and the promulgation of special rules therefor including, among other things, an administrative procedure whereby the project may be expanded by the drilling or conversion of additional injection wells without further notice and hearing.
- CASE 5374: Application of Continental Oil Company for simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a 480-acre non-standard gas proration unit comprising the N/2 and SE/4 of Section 23, Township 22 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to its Meyer B-23 Wells Nos. 1, 2, 3, and 4, located at unorthodox locations in Units C, O, E, and G, respectively, of said Section 23.

STATEMENT OF UNION TEXAS PETROLEUM
IN CASE NO. 5368

While carrying on a secondary recovery project in the Langlie Jal Unit, it is Union Texas Petroleum's intention to complete, insofar as possible, only those sands which are oil bearing. It is known by Union Texas Petroleum that gas bearing sands do exist in the Langlie Jal Unit's vertical limits between the top of the Seven Rivers and the base of the Queen formation. In every instance care has been taken by Union Texas Petroleum to avoid opening the well bore opposite gas bearing sands.

The use of Schlumberger's coriband log has been helpful to differentiate between gas and oil bearing sands. These gas bearing sands are usually confined (in the unit area) to the upper Seven Rivers interval. Although the coriband log is subject to interpretation, it has been effective in confining Union Texas Petroleum's completions only to oil bearing sands.

As a consequence of the work which we have done and the knowledge which we have gained, Union Texas Petroleum supports the proposal of the Oil Conservation Commission to delete the Seven Rivers formation from the Jalmat Gas Pool and to extend the vertical limits of the Langlie-Mattix Pool to include the Seven Rivers formation in the area specified by the Commission.

Dan

Nov. 13, 1994

Langlie Tol Unit

Reserve Oil & Gas
Martin B #1
X F-31-24-37
O.H. 2852-3187'
Log top 7R = 3145'
Comp. 42' into 7R
Prod. Tolmat Pool

Exhibit map shows this well to be a proposed injection well. Well file shows no change in operator, re completion or change in status of any kind.

X El Paso Nat. Gas
Wells Federal #1
I-5-25-37
Perfs. 3100-3195
P.B. = 3295'
Log top 7R = 3165'
Comp. 30' into top of 7R
Prod. Tolmat Pool

Data in well file shows this well to be a Tolmat Gas well.

The above two wells are producing in the Tolmat Gas pool from the Yates & upper Seven Rivers and are inside the Langlie Tol unit area. The remaining Tolmat Gas well located inside the unit area all produce from Yates only.

J.W. Rungt

Langlie Tol Unit

The following list of wells are shown on exhibit to be (proposed??) producing or injection wells in the unit. But, O.C.C. well files show, at this time, no change of operator, status or recompletion, to indicate they will be in unit.

Reading & Bates - state #1 I-32-24-37 (Tolmat-Yates)
Shown on exhibit as Union Tex. #22 - Producer

El Paso Nat. - Fed. wells #4 F-5-25-37 (Tolmat-Yates)
Shown on exhibit as Union Tex. #47 - inj. well.

El Paso Nat. - E.J. wells #13 L-5-25-37 (Tolmat-Yates)
Shown on exhibit as Union Tex. #57 - inj. well

Phillips - woolworth #2 H-6-25-37 (Tolmat-Yates)
Shown on exhibit as Union Tex. #49 - inj. well.

Atlantic Rich - Burleson #2 F-8-25-37 (Tolmat-Yates)
Shown on exhibit as Union Tex. #79 - inj. well

El Paso Nat. - Langlie A #1 J-17-25-37 (Tolmat-Yates)
Shown on exhibit as Union Tex. #91 - inj. well.

Jalmet

Loughie
Matty

Tavell

Uatla

Neuten R ~~100~~

Neuten R 100'

Queen

Shaybury

DRAFT

dr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

CASE NO. 5348

Order No. R- 4929

IN THE MATTER OF THE HEARING CALLED BY
THE OIL CONSERVATION COMMISSION ON ITS
OWN MOTION TO CONSIDER THE CONTRACTION OF
THE VERTICAL LIMITS OF THE JALMAT GAS POOL UNDERLYING
~~THE~~ ALL OR PORTIONS OF SECTIONS 31 AND 32,
TOWNSHIP 24 SOUTH, RANGE 37 EAST, AND SECTIONS
4, 5, 6, 8, 9 AND 17, TOWNSHIP 25 SOUTH, RANGE
37 EAST, LEA COUNTY, NEW MEXICO, AND THE EXTENSION
OF THE VERTICAL LIMITS OF THE LANGLEY MATTIX POOL UNDERLYING
THE SAME AREA.

Nomenclature

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 26, 1944, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this day of December, 1944, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the vertical limits of the Jalmat Gas Pool, Lea County, New Mexico, as previously designated and defined by the Commission, comprise the Tansill and Yates formations, and all but the lowermost 100 feet of the Seven Rivers formation.

Case No.
Order No. R-

(3) That the vertical limits of the Langlie-Mattix Oil Pool, as previously designated and defined by the Commission, comprise the lowermost 100 feet of the Seven Rivers formation and all of the Queen and Grayburg formations.

(4) That the unitized formations in the Langlie-Jal Unit Area, as approved by Commission Order No. R-4036, comprise the Seven Rivers and Queen formations.

(5) That the horizontal limits of said Langlie-Jal Unit Area comprise the following described lands:

LEA COUNTY, NEW MEXICO

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM

Section 31: Lots 2, 3, and 4 and SE/4 NW/4,
E/2 SW/4, and E/2

Section 32: All

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM

Section 4: Lots 2, 3, and 4 and S/2 NW/4,
SW/4 NE/4, and W/2 SW/4

Section 5: All

Section 6: All

Section 8: E/2 and NW/4

Section 9: W/2 W/2

Section 17: E/2

(6) That the Seven Rivers formation underlying said unit area is for the most part oil-saturated, and there are recoverable oil reserves in said interval and area.

(7) That secondary recovery operations are currently being conducted in the Seven Rivers formation and in the Queen formation underlying the Langlie-Jal Unit Area pursuant to authority of Order No. R-4051.

(8) That to increase the efficiency of said secondary recovery operations, the Seven Rivers formation and the Queen formation should be treated as a common producing interval.

-3-
Case No.
Order No. R-

(9) That the contraction of the vertical limits of the Jalmat Gas Pool to exclude all of the Seven Rivers formation ^{therefrom,} and the concurrent extension of the vertical limits of the Langlie Mattix Oil Pool to include all of the Seven Rivers formation ^{therein,} within the horizontal limits of the Langlie-Jal Unit Area as set forth in Finding No. (5) above, will permit the more efficient operation of the aforesaid secondary recovery projects, will prevent waste, will not violate correlative rights, and should be approved.

(10) That there are at least two gas wells completed in the Yates formation of the Jalmat Gas Pool which have perforated or open-hole intervals extending into the uppermost portion of the Seven Rivers formation, these wells being the Reserve Oil and Gas Company Martin B Well No. 1, located in Unit F of Section 31, Township 24 South, Range 37 East, the open-hole producing interval ^{being from} ~~of which is~~ 2852 feet to 3187 feet, 42 feet ^{the lowermost} ~~into~~ ^{of which is in} the Seven Rivers formation, and the El Paso Natural Gas Company Wells Federal Well No. 1, located in Unit I of Section 5, Township 25 South, Range 37 East, the perforated interval ^{being from} ~~of which~~ ^{the lowermost (of which is in)} ~~is~~ 3100 feet to 3195 feet, 30 feet ~~into~~ ^{the} Seven Rivers formation.

(11) That an exception to the vertical limits of the Jalmat Gas Pool as amended in the subject area by this order should be given to the wells described in Finding No. (10) above for the producing intervals as described.

(12) That the Secretary-Director of the Commission should have authority to grant administrative exception to the vertical limits of the Jalmat Gas Pool as amended in the subject area by this order should it be found that there are other Jalmat Gas wells the producing interval of which similarly extend into the Seven Rivers formation.

IT IS THEREFORE ORDERED:

Case No.
Order No. R-

(1) That this order shall apply only to the following described area:

LEA COUNTY, NEW MEXICO

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM

Section 31: Lots 2, 3, and 4 and SE/4 NW/4,
E/2 SW/4, and E/2

Section 32: All

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM

Section 4: Lots 2, 3, and 4 and S/2 NW/4,
SW/4 NE/4, and W/2 SW/4

Section 5: All

Section 6: All

Section 8: E/2 and NW/4

Section 9: W/2 W/2

Section 17: E/2

(2) That the vertical limits of the Jalmat Gas Pool in the above-described area are hereby defined as the ^{comprising} Tansill and Yates formations.

(3) That the vertical limits of the Langlie Mattix Oil Pool in the above-described area are hereby defined as the ^{comprising} Seven Rivers, Queen, and Grayburg formations.

(4) That the Reserve Oil and Gas Company Martin B Well No. 1, located in Unit F of Section 31, Township 24 South, Range 37 East, the open-hole interval of which is 2852 feet to 3187 feet, and the El Paso Natural Gas Company Wells Federal Well No. 1, located in Unit I of Section 5, Township 25 South, Range 37 East, the perforated interval of which is 3100 feet to 3195 feet, both of which are classified as Jalmat Gas Wells, are each hereby granted an exception to the vertical limits of the Jalmat Gas Pool for that portion of the producing interval which is currently open in the Seven Rivers formation.

(5) That the Secretary-Director of the Commission is hereby authorized to approve an exception to the vertical limits of the Jalmat Gas Pool for any other well classified as a Jalmat Gas Well which may prove to have, on the effective date of this order, a portion of its producing interval open to the Seven Rivers formation.

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

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

Case 5368

In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the contraction of the vertical limits of the Jelmot Gas Pool underlying the Langlie Gas Unit Area ^{all or portions of} in Sections 31 and 32, Township 24 South, Range 37 East, and Sections 4, 5, 6, 8, 9, and 17, Township 25 South, Range 37 East, ~~and for the extension~~ to delete the Seven Rivers formation from said pool, and for the extension of the vertical limits of the Langlie Gas Unit Pool underlying said area to include therein all of the Seven Rivers formation.