CASE 7091: LAYTON ENTERPRISES, INC. FOR A NON-STANDARD PROBATION UNIT, LEA COUNTY, NEW MEXICO

Case No.

7091

Application

Transcripts

Small Exhibits



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

January 23, 1981

CASE NO.

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (506) 827-2434

Mr. George Hünker	ORDER NO. R-6566
Hunker-Fedric Attorneys at Law Post Office Box 1837 Roswell, New Mexico 88201	Applicant:
	Layton Enterprises, Inc.
Dear Sir:	
Enclosed herewith are two cop Division order recently enter	
Ypurs very truly,	
free for one	
JOE D. RAMEY	
Director	
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

CASE NO. 7091 Order No. R-6566

APPLICATION OF LAYTON ENTERPRISES, INC. FOR A NON-STANDARD PROPATION UNIT, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 25, 980, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>21st</u> day of January, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully asvised 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, Layton Enterprises, Inc., seeks approved of an 80-acre non-standard oil proration unit comprising the N/2 NW/4 of Section 14; Township 9 South, Range 34 East, MPM, Vada-Pennsylvanian Pool, Lea County, New Mexico, to be dedicated to an old well to be re-entered 660 feet from the North line and 1830 feet from the West line of said Section 14.
- (3) That there is a reasonable expectancy that the entire W/4 of said Section 14 may be presumed productive of oil from the Vads-Pennsylvanian Pool.
- (4) That the owner of the S/2 NW/4 of said Section 14 ppeared at the hearing and objected to the formation of the roposed 80-scre non-standard proration unit comprising the /2 NW/4 of Section 14.
- (5) That the entire NW/4 of Section 14, comprising a tandard 160-acre proration unit, was originally dedicated to

2-| ase No. 7091 | rder No. R-6566

the well which applicant proposes to re-enter and to dedicate to the N/2 NW/4 only.

- (6) That said well was prematurely abandoned in 1978 due to
- (7) That approval of the application and formation of the roposed 80-acre non-standard proration unit would leave the /2 NW/4 of Section 14 undedicated to any well unless the owner hereof drilled a well on said lands.
- (8) That the Yada-Pennsylvanian Pool in the area of the aubject application was developed approximately ten to twelve years ago and has undergone considerable depletion since driginal development.
- (9) That although there probably are recoverable reserves remaining under the S/2 NW/4 of Section 14, such reserves are probably insufficient to render the drilling and completion of well thereon economical.
- (10) That approval of the application would impair the correlative rights of the owner of the S/2 NW/4 of Section 14.
- (11) That to protect his correlative rights if the application were approved, the owner of the S/2 NW/4 of Section 14 would be required to drill a well thereon.
- (12) That said well, being unnecessary, would cause economic waste.
- (13) That the application should be denied, and the applicant, owner of the N/2 NW/4 of Section 14, and the owner of the S/2 NW/4 of Section 14 should communitize their lands to form a standard 160-acre unit for the Vada-Pennsylvanian Pool to be dedicated to the subject well.

IT IS THEREFORE ORDERED!

- (1) That the application of Layton Enterprises, Inc., for non-standard 80-scre unit comprising the N/2 NW/4 of Section 14, Township 9 South, Range 34 East, NMPM, Vada-Pennsylvanian Pool, ea County, New Mexico, is hereby denied.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

3-Sese No. 7091 Order No. R-6566

DONE at Santa Fe, New Moxico, on the day and year herein-

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY Director

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
CIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
25 November 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Layton Enterprises,)
Inc., for a non-standard proration of unit, Lea County, New Mexico.

CASE 7091

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

George H. Hunker, Jr. HUNKER, FEDRIC P. A. P. O. Box 1837 Roswell, New Mexico 88201

For Robert L. Thornton:

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

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Thornton Exhibit Number One, Plat

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MR. NUTTER: We'll call next Case Number

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MR. PADILLA: Application of Layton Enterprises, Inc., for a non-standard proration unit, Lea County, New Mexico.

MR. HUNKER: George H. Hunker, Jr.,

Hunker-Fedric P. A., Roswell, New Mexico, appearing on behalf of the operator, Layton Enterprises, Inc.. I have one withess and five exhibits.

MR. CARR: Mr. Examiner, I am William F. Carr with the law firm Campbell and Black, P. A., Santa Fe, appearing on behalf of Robert L. Thornton. I have one witness.

MR. NUTTER: Will both witnesses please stand and be sworn?

(Witnesses sworn.)

DONALD R. LAYTON

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

DIRECT EXAMINATION

BY MR. HUNKER:

What is your name and address?

SALLY W. BOYD, C.S.R.

Rt. 1 Box 195-B

Santa Fe, New Mexico 87501

Phone (505) 455-7409

ties.

Q. Looking at the map that's been marked

Applicant's Exhibit Number One, will you identify this instrument and show the Examinor what this reveals?

A. All right, sir. This is a map of the

Vada-Pennsylvanian Pool. More than that, it shows the entire

Bough C trend in Lea and Roosevelt Counties, New Mexico, which
is comprised actually of a number of separately designated
fields. At one time there were other fields that have since
been incorporated into the Vada-Penn, but at this point in

time in addition to the Vada we have the Allison-Penn, the

Section 10, 9, 34, and one in Section 11, 9, 34, have been

Q. How long have you operated wells in this area, Mr. Layton?

Bough-Penn, and the Inbe-Penn still retaining original identi-

A. In this field about four years. In this area something like twenty-five years.

Q. What is the spacing rule with regard to the Vada-Penn Field?

A. Vada-Penn is 160 acre proration units.

Q And the Allison-Penn Field, the field on

the far right?

A. The Allison-Penn is 80-acre spacing proration units.

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And the Bough-Penn Field?

A. The Bough-Penn is actually 40-acre proration units. It has more generally been developed on 80acre spacing, although a portion of the field at least actually resembles 40-acre spacing, which is the standard proration unit.

Q. On the southwest corner of this plat there appears some legend with regard to the Inbe. Will you --

A. Yes, sir, the Inbe Field, again, is 80-acre standard proration units and pretty generally has been developed on that pattern.

 ho_Q . Tell the Examiner what else does that plat reveal?

All right, this plat shows some of the recovery data with respect to total number of acreage covered by the -- now this is not-the acreage figure covers only those established and producing proration units. It does not cover any other contingent acreage.

It shows the acreage, the total number of wells that are or have produced oil from this reservoir and the cumulative recovery from each field and the recovery in barrels per acre from each of these.

We also, just by way of information, designated a small area called the application area, which I randomly selected in two directions, a 2400 acre plot and 15

ALLY W. BOYD, C.S.R Rt. 1 Box 193-B Sants Fe, Ive Mexico 87301 Phone (S07) 455-7409

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SALLY W. BOYD, C.S.R. 12 13

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wells and showed the recovery for that immediate area surrounding the 80 acres involved in the application.

With regard to the project in the north half of the northwest quarter of Section 14, 9 South, 34 East, what are your company's plans?

A. We plan to make a re-entry on a well known as our No. 1 Pyron (sic), which is located in the northeast of the northwest quarter, or the east half of the north half of the northwest quarter of Section 14.

How much acreage will that well drill in your -- will that well drain in your opinion, Mr. Layton? In my opinion, considering the current bottom hole pressure conditions in that field, will at best

drain 80 acres. Will you refer to what's been marked as Exhibits Two, Three, and Four, and explain to the Examiner what these fields show -- what these plats show?

All right. These are just detail plats of the Allison, Bough, and Inbe-Penn Fields, showing the general spacing pattern, showing the 80-acre proration units as they were developed. They have no other significance on the case other than that. The larger map does not include the well locations in the adjacent fields. It only includes well locations for the Vada, and these are simply to show the detail.

Q Significant recoveries have been made in the Allison-Penn Field and I'd like for you to explain the reason for that.

A All right. The Allison field has recovered

1888 barrels per acre. Incidentally, all of these figures are through 1-1-1980, taken from the Commission records.

The Allison Field has recovered 1888 barrels per acre on 80-acre spacing and with a relatively low
gas/oil ratio through all of its producing history. Currently
the gas/oil ratio for the Allison Field is averaging approximately 2500-to-1. I believe all of this area has a GOR
limit of 10,000-to-1. It's produced well below that throughout its entire life.

Q. In your opinion can the Vada-Penn area be economically developed on an 80-acre spacing?

A. Yes, sir, in my opinion it can.

Q. Looking to what's been marked Applicant's Exhibit Number Five, will you identify this instrument and tell the Examiner what it reveals?

A. Yes, sir, this is a comparison of the gas, oil ratios involved in the first eight years of the producing life of each field. Now these are not corresponding years, so I have designated them year of field production. The fields were drilled at slightly different times, and this is just a comparison of the gas/oil ratios of each field and it's

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developed very rapidly. The Allison also was developed at a slightly lower rate, although I think faster than the Inbe Field was drilled.

Q. When was the Vada-Penn initially developed.
Mr. Layton?

A. I believe the first activity in the Vada was either in 1967, late 1967, or '68. The majority of the drilling took place from 1968 on through 1971.

Q. What were the economics at that time?

A. The economics werenot all that good. The oil prices were low in a depressed market condition and I think operators were faced then with a situation where they needed the larger spacing, higher allowables, in order to more quickly amortize their investment in drilling.

Ω In your opinion will the granting of your application adversely affect any offsetting owner?

A. No, sir, in my opinion it will not.

Q. Do you believe that the granting of your application would be in the interest of the prevention of waste and protection of correlative rights and the best interest of conservation?

A. Yes, sir,

Q Do you have anything else to add with regard to -- to the exhibits or with regard to this particular prospect?

I think we've generally covered it fairly well, George.

MR. HUNKER: I have no further questions,

Mr. Examiner.

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MP. NUTTER: Mr. Carr?

MR. CARR: I have just a couple of ques-

tions of Mr. Layton.

CROSS EXAMINATION

BY MR. CARR:

Mr. Layton, how would you characterize the Vada-Penn Pool in the immediate area now in terms of the extent to which that reservoir has been depleted? Has it been substantially depleted?

Yes, sir, I would say it has been substantially depleted.

In your opinion developling a reservoir or a tract within a reservoir that has been substantially depleted as opposed to one that has not been so depleted, doesn't this bear on the economics of drilling a well?

Certainly does.

And wouldn't most of the development in the Allison and the other fields on this smaller spacing have been done prior to the time the reservoirs were substantially depleted?

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A .	Yes, I would say that's true, yes.
Q	Do you think it would be economic in a
depleted reservoir	to develop, say, the Allison, if it was in
the comparable sta	tus in terms of its depletion as the Vada-
Penn? Do you thin	k it would be economic to go in and develop
that on 80's or 40	-acre tracts?
	I have not made a study of the Allison
itself, for instan	ce. It of course every case has to stan
on its own. We ha	ve studied the Vada in particular for some
time and although	the economics certainly are not as great as

Q How much does it cost to drill a well in the Vada-Penn in this immediate area?

we would like for them to be, we feel, obviously feel that

A. To drill and complete, I assume you mean.

Q. Yes, sir.

they are there.

A. Probably a pumping well completed and in the tanks, looking at \$450,000.

Q. And it's my understanding you're planning to go in and re-enter an existing hole and thereby affect some savings, is that correct?

A. Yes, some savings because of equipment we still have in that well, surface casing, intermediate casing.

Q. When was the subject well originally drilled?

I believe in 1969. And then there have been subsequent prob-2 lems with that well, I believe. 3 Yes, sir, there were; equipment failure in 1978 caused its premature abandonment. And then it's been reworked, or something, once since then, is that correct, or has it been shutin? No, it's been plugged since then. 8 Originally what acreage was dedicated to 9 this well? 10 The 160 acres comprising the northwest 11 12 quarter of Section 14. 13 MR, CARR: That's all I have. 14 15 CROSS EXAMINATION 16 BY MR. NUTTER: When did you say the equipment in the well 17 18 failed, Mr. Layton? 19 1978. 20 And it caused the premature abandonment, 21 then. 22 Yes, sir, it did. 23 What was dedicated to the well at the time it was originally drilled and throughout its producing life, Mr. Layton?

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That northwest quarter of Section 14. Being a standard unit in the --

Yes, sir, a standard 160-acre unit.

Now, why are you seeking a non-standard 80-acre unit now instead of the original 160-acre standard unit?

I have the common leasehold on the southeast quarter of Section 10, south half of the southwest quarter of Section 11, and this 80-acre tract, being the north half of the northwest quarter of Section 12. This is all a common lease owned by the Pyron Estate and I still have equipment located on that lease, production facilities, surface facilities and the like, and it's my intent to form a 4-well project on this 320 acres with four 80-acre units, four wells producing into this common surface facility.

Now you mentioned the description of the 0. lands, being the southeast quarter of Section 10. Now the Division recently approved two non-standard units there.

> Yes, sir, that's right. A.

Being the north half of the southeast and the south half of the southeast.

Yes, sir.

And I believe that the north half of the southeast was to be dedicated to a new well that was to be drilled.

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And the south half of the southeast was to 2 be dedicated to an old well that's located in the southwest quarter southeast quarter of Section 10. That's correct. Which is to be recompleted. 7 Yes, sir. Now the south half of the southwest of Section 11 was approved as an 80-acre non-standard unit to be 9 10 dedicated to an old well located in the southeast southwest 11 to be recompleted. 12 Yes, sir, that's correct. 13 And now you're proposing to -- here a non-standard 80-acre unit to be dedicated to another old well-14 15 that would be recompleted. That's correct, yes, sir. 17 MR. HUNKER: How much value do you have 18 in that old well, Mr. Layton, in your opinion? 19 Probably \$100,000 in the existing equip-20 ment and the related costs of installing that equipment. 21 MR. HUNKER: That's your surface casing 22 and your intermediate casing? 23 That's right.

Yes, sir, it does.

Yes, sir, that's right.

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And it belongs to Layton Enterprises?

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Now we have three - four non standard units in this package, three of which would be dedicated to old wells. Did you operate those old wells. Did you operate those old wells when they were in production?

A. Just the one in the current application, or the current question we're discussing. I operated -
Q. You operated this one.

A. Yes, sir.

Q. And you're the one that abandoned it in

A. Yes, sir.

Q - when it had this mechanical failure.

A. That's correct.

Q What was the nature of the mechanical failure, Mr. Layton?

failed going in the hole and dropped and stacked up iron for about 3000 feet from the bottom up and sheared the casing off at the same time, tubing and casing; ultimately caused the casing to collapse. At that time we spent considerable money on the well trying to save it then, but oil prices were considerably lower at that point than they are now, of course, and we just reached the end of our economic --

Now is it your intent to try to drill around this junk that's in the hole?

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out.

A Yes, sir, we intend to drill around it this time. That's a more expensive process, of course, but we feel like ---

Q You don't know if you can fish the junk

A. Not satisfactorily, no. I think -- I think we'd be sending good money after bad. But at the time we plugged the well the cost of sidetracking just could not be justified by the current economics. We think now that it can.

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

MR. HUNKER: I'd like to offer in evidence if I haven't already, Exhibits One through Five.

MR. NUTTER: Applicant's Exhibits One through Five will be admitted in evidence.

MR. HUNKER: Thank you very much, Mr.

Examiner.

MR. NUTTER: Yes, sir.

MR. CARR: May it please the Examiner, at this time I would call Robert L. Thornton, T-H-O-R-N-T-O-N.

ROBERT L. THORNTON

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

DIRECT EXAMINATION

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BY MR. CARR:

city?

Mr. Thornton, for the record will you

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state your full name and place of residence? Robert L. Thornton, Ft. Worth, Texas.

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SALLY W. BOYD, C.S.R.
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Santa Fe, New Mexico 87501
Prione (305) 455-7409

roleum landman.

Have you previously testified before this

By whom are you employed and in what capa-

I'm self-employed as a geologist and pet-

Commission and had your credentials accepted and made a matter

of record?

No, I have not.

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Will you briefly summarize for the Examine

your educational background and your work experience?

I graduated from the University of Texas

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in 1971 with an economics Bachelor's degree. I worked as a

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stockbroker and commodity broker until 1977. January of 177

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I re-entered the University of Texas and -- and pursued education in geology and petroleum engineering. In 1978, Septem-

21 22 ber of 1978, a received a petroleum engineering Bachelor's

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degree and was about three hours short --- three -- six hours short of obtaining a geology degree. On this basis I was

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hired by Houston Oil and Minerals and I worked in Houston Oil

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and Minerals as a geologist, as a development geologist most of that time, and then in July of 1979 I left Houston Oil and Minerals to form my own company, and I've been in that pursuit since that time.

Mr. Thornton, are you familiar with the application filed in this case by Mr. Layton?

A. Yes, I am.

MR. CARR: At this time, Mr. Nutter, we would ask that the witness be qualified as a practical cilman.

MR. NUTTER: Mr. Thornton is qualified.

Q. Mr. Thornton, what interest do you own in the area which will be affected by the application of Layton?

A. I own a lease that is a 5/6ths royalty lease -- or 1/6th royalty lease to the State, on the State lands that are represented by the 80-acre tract which is the south half of the northwest quarter of Section 14, Township 9 South, Range 34 East.

Q When did you acquire this lease?

A. I acquired it on November 1st -- or the lease was dated November 1st, 1979.

Q. And you did state this was a State lease with 1/6th royalty.

A Correct.

What is the general producing formation in the area?

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A. In the Vada-Penn Field the basic formation that produces is the Bough C.

And in respect to your lease, where is there presently Vada-Penn production?

Penn production on all the leases that adjoin my lease, and currently there is — or at least through 1979, which is the end of '79, which is the data that I have, there was production on the south and on the east of my lease at Mr. Layton's well, a well that he has plugged, was not plugged for lack of production. It was once a producer and it was plugged because he had some problems with the well.

Mr. Thornton, I'll show you what has been marked for identification as our Exhibit Number One and ask you if you would identify that, please?

This is a copy of the map that was entered was sent by Mr. Layton in his application to set up the non-standard proration units.

MR. CARR: Mr. Nutter, we have only one copy of this with us and immediately following the hearing I will provide you with additional copies.

MR. NUTTER: Okay.

Now, Mr. Thornton, will you explain to the Examiner the status of the wells offsetting your lease as to their producing capabilities?

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The Tenneco -- there's a Tenneco well to the east, which is in the -- which is in the -- has 160 acres in the northeast quarter of that section, which produced 998 barrels during the year of 1979, 980 barrels during the year of 1979.

The Prudential well, which is directly to the south of my lease, dedicated the 160 acres in the south-west quarter of the same section, the Prudential No. 1 Vada-Pruda, for the last three years has produced under 5000 barrels per year.

Q. And then we have Mr. Layton's well?

A. Mr. Layton's well to the north, in the last year of operation produced about 5000 barrels, also, and it was abandoned, as he said, due to technical problems.

Q. Is the Vada-Pennsylvanian Pool developed in the area by wells to which 160 acres are dedicated?

A. Generally, yes.

Q In your opinion is the acreage, being the south half of the northwest quarter of Section 14, being your lease, is that acreage productive in the Vada-Penn?

A Yes, it -- yes, because wells -- I believe so because wells in all directions have produced.

Q. Would you anticipate that a new well drilled on your lease would be of comparable quality to wells offsetting it?

A I would assume that since the well to the north is producing 5000 barrels in the last year and the one to the south 5000 barrels, the ones on the east and west have been -- well, I would assume that it would -- could be presumed to produce about 5000 barrels a year.

Q Would you consider this a marginal well?

A. I would consider it very marginal, considering the costs of drilling a new well.

Now, what acreage was originally dedicated to Mr. Layton's -- the well that Mr. Layton plans to rework on this quarter section?

A. Originally the well was drilled by Tenneco and I believe the south half of the lease that I presently own was owned by Cities Service. It was -- there was 160-acres put together to form -- to drill that one well. They dedicated the northwest quarter of the 160-acre tract in that section.

O. And did the acreage that you now have under lease share in the cost of drilling of the existing well?

- A. Yes, they did.
- Q Did they share in the production from that well?
 - A. Yes, they did.
- Q. What happened to the prior communitization agreement for the northwest quarter of Section 14?
 - A. Due to the technical problems that Mr.

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Layton had when he abandoned, he decided to abandon the well, then he decided at that time not to rementer -- not to redrill the well or to re-enter it at that time, and because of that delay, 60-day delay, a delay in excess of 60 days, the communitization and the lease expired.

Are you aware of any characteristic of producing formation which would prevent the well Mr. Layton is proposing to recomplete, prevent that well from draining your

I am not aware of any such characteristic and I don't believe there would be such.

Is it your testimony that you believe your lease will be drained by the well which is the subject of this application?

A. I believe that it will be so drained,

Now I believe you heard Mr. Layton testify as to the costs of drilling a new well in this area. Do you concur in his statement?

I would say that is a -- that \$450-\$500,000 would be a reasonable cost.

What doyou understand the costs of reentering and recompleting the well would be for Mr. Layton?

Well, for Mr. Layton, he told me that the costs would be about \$350,000, and by the way, let me point out one thing. He mentioned a value for the equipment and

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casing, et cetera, that are in the well, there's no tubing, of course, that's of any value, I question whether the depreciated value of -- of 10-year old equipment would be what he specified.

Mr. Thornton, if Mr. Layton's application was denied, you would be willing to join with him and share the cost of the reworking and operating on the existing well?

Yes, I would.

And you would be willing to pay the reason able value of your share of any equipment or material on the lease?

Yes, under a reasonable operating agreement.

In your opinion would it be possible for you to drill a well on the south half of Section 14 to protect that acreage against drainage from the well which Mr. Layton is proposing to rework?

Considering the \$500,000 cost and the 1/6th royalty, I do not believe it to be a desireable economic prospect, and let me -- let me go into some figures on that.

Assuming 5000 barrels a day and --MR. NUTTER: Not 5000 barrels a day.

I'm sorry, per year, 5000 barrels a day it Would be economic. 5000 barrels a year, and about \$28.00 a barrel net after production taxes and windfall taxes, and a 5/6ths lease, that comes out to approximately \$117-\$118,000

The costs of operating it would be in the neighborhood of That would leave net revenues, assuming no problems whatsoever with the well, which, of course, we've seen can happen on the Layton lease, for instance, would be about \$100,000. Considering a half a million cost and with interest rates nearing 20 percent, there's no way that you can come out economically on a 20 percent net return.

In addition, using Mr. Layton's Exhibit One, the Applicant's Exhibit One, for barrels per acre that have been recovered over the entire lifetime of this field, which Mr. Layton himself said was substantially depleted, there are 938 barrels per acre assumed to come -- over the fieldwide average coming from that field, and with essentially 1000 barrels times \$30.00 a barrel times 40 acres, that would be, if the lease were entirely new, it would produce \$3,240,000 worth of net revenues.

Even assuming that it's 75 percent depleted, which I believe it may be more so, that would leave 25 percent of, say, that oil in the ground, which would be an ultimate recovery of about \$800,000 off of a half a million dollar investment.

MR. NUTTER: Now you said assuming 40

I mean assuming 80 acres. MR. NUTTER: 80 acres.

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acres.

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	A. Which is Mr. Layton's desire.
	Q If Mr. Layton's application is granted,
	in your opinion would there be any practical way for you to
	protect your lease from drainage?
	A. I do not believe so.
	ho Do you believe reserves from your lease
	would be produced by the Layton well?
	A. Yes, I do.
	$_{\Omega}$ If at a later date after the well is re-
))	completed and you were able to determine that an additional
	well necessary to effectively and efficiently drain the north
2	west quarter of Section 14, at that time would you be willing
3	to participate in the drilling of an additional well if it
1	qualified under the NGPA for a higher price?
5	A, Probably, yes.
8	Q. In your opinion would granting this appli
7	cation impair your correlative rights?
8	It certainly would.
9	$_{ ext{Q}}$ Do you have anything further to add to
0	your testimony?
:1	in this property is the first of the second
	CARR. At this time. Mr. Nutter, we

would offer into evidence Applicant's Exhibit -- or Thornton

MR. NUTTER: Thornton Exhibit One will be

Exhibit Number One.

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admitted in evidence.

MR. CARR: I have nothing further.

MR. NUTTER: Mr. Hunker?

Yes, sir. MR. HUNKER:

CROSS EXAMINATION

BY MR. HUNKER:

Mr. Thornton, are you a reservoir engineer

No, I am not. I've had some training.

Are you qualified to make a statement that in your opinion the Layton well will in fact drain your acreage?

Well, I haven't done any research into it at this point.

In connection with the Prudential Well to the south, do you feel that that well may be draining your 80-acre tract?

I would assume it is.

In connection with the economics, you'd Q. be willing to pay for 50 percent of the cost of drilling the new well, is that correct?

Correct.

You'd be willing to pay what part of the cost of Mr. Layton's hole in the ground, surface casing, and intermediate casing?

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28 At its reasonably depreciated value, considering the age of the equipment. MR. NUTTER: You'd pay 50 percent of the reasonable arrived at depreciated value. Right, 50 percent, uh-huh. You have mentioned depreciated value. The pipe might be worth more today than it was -- than it originally 6 7 cost, isn't that correct? That's correct, but it's also ten years 8 9 old, or eleven years old. If you did participate in the drilling of 10 this well and paid your part of the cost, what part of the 11 12 well would you own? would assume that I would own -- I'm 13 not familiar with the law regarding -- regarding it. I would 14 15 assume I would have 50 percent of it. Well, if you have half the communitized 16 17 tract, you'd have 50 percent. 18 50 percent. So the economics of the situation would 19 give you a half a well, isn't that correct? 20 21 And you would thereby dilute the interest Correct. 22 that 'Mr. Layton has in the well, isn't that correct? 23 That's correct, he would own one half the 24

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well, also. Do you realize that it might not be economic for Mr. Layton to -- to drill -- to reenter this well if he has to share the production with somebody else? He would have the same percentage profit margin. As far as his time and effort, I'll be glad to handle operation or find an operator in the area. But he'd only have 50 percent of the well, isn't that correct? That's true. He would be diluted to the extent of 50 percent. That's correct. What is the term of your oil and gas lease from the State of New Mexico? It's a 5-year lease. And it was dated November the 1st, 1979, ´ Q. is that correct? That is correct. So you have roughly another 3 years within which to evaluate that property, is that Roughly 4 years. Roughly four years. In your opinion will

Mr. Layton's well improve the marketability of your oil and

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gas lease?

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	alli a sa s				
	A.	I do not believe so because other companies			
will look	at the 80	-acre say I was trying to sell it and			
find a marketability, other company would look at it and try					
to figure out how they could economically produce the 80 acres					
and drill a well and					
	Q .	Have you submitted your lease to anyone			
for purch	ase?	있다. 이 마시트 이 마시 아이는 이 작은 이 일으로 가는 것을 받았다. 그로 모르겠다. 기가 일을 되지 않는 것이 되었다. 이 이 기가 되고 있다. 이 하는 것이 되었다. 그 것이 되었다.			
	A.	Yes, I have.			
	Q.	Have you had any success?			
	A	No.			
	Q	Have you tried to get anybody to drill on			
your lease?					
	A.	Not at this time.			
	Q	Well, since you acquired it in '79 have			
you tried	to get sor	mebody to develop it or have you tried to			
put together a fund to develop it yourself?					
	A.	Not to this time. I assumed that when I			
bought it, if I were going to be reentering it, I'd be reentering					
the other well. That was my original economic basis.					
	Q	You realize that this is a marginal prospect,			
don't you?					
	A.	Yes, I do.			
	Q	And that the investment of \$350,000 or			
thereabouts is a rather heavy money commitment.					
	A .	It certainly is.			
	find a ma to figure and drill for purch your lease you tried put togeth bought it the other don't you?	find a marketabilit to figure out how t and drill a well an Q for purchase? A Q your lease? A Q your lease? A bought it, if I were the other well. The Q don't you? A Q thereabouts is a rate			

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And Mr. Layton is willing to assume this entire risk. Don't you think that that in itself will help to evaluate your acreage?

There is no conceiveable way in my mind that an 80-acre well, given the production history, the production in the field in barrels per acre, could justify the expense, and therefor the lease would have zero market value, and zero incentive to its development.

Well, the 50 percent rule is going to

In my -- in that case it's draining 160 apply, just -acres of production. 160 acres times 983 barrels is twice as much oil as 80 times 938 barrels.

And Mr. Layton expressed the opinion as a petroleum engineer that in his judgment his well would only Do you recall that testimony? drain 40 acres.

I do recall that testimony.

Would you disagree with that testimony?

I am disagreeing to the best of my ability

to.

Thank you, Mr. Examiner, I MR. HUNKER: have nothing further.

MR. CARR: I have just one more question. Mr. Carr. MR. NUTTER:

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REDIRECT EXAMINATION

BY MR. CARR:

Q. Mr. Thornton, I want to be sure I understand your testimony.

You were stating that in your opinion you would have one-half of a well, is that correct?

A. That is correct.

Q. And is it also your testimony that for one-half of the well you're willing to pay one-half of the costs involved in that?

A. That is correct.

I believe you concurred with Mr. Hunker's statement that \$350,000 was a very heavy commitment to make for the development of -- or the reentry of this well.

A. I do concur.

Q. By the same token, \$500,000 would be an extremely heavy burden to go and drill a new hole.

A. Substantially more.

MR. CARR: I have nothing further.

MP. NUTTER: Does anyone have any questions or Mr. Thornton? He may be excused.

MR. HUNKER: I'd like to recall Mr. Layton

for just one or two questions.

KLLY W. BOYD, C.S.R.
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Santa Fe, New Mexico 87501

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DONALD R. LAYTON

being recalled, testified as follows, to-wit:

REDIRECT EXAMINATION

BY MR. HUNKER:

In connection with reentry prospect, Mr.

Layton, of Pyron No. 1, do you contemplate setting a whipstock at bottom of the intermediate casing?

A. Yes, sir, at or a point below, whatever is convenient with the formation as it be.

Q. And the new hole will be drilled down to the Bough C, is that correct?

- A. Yes, sir, that's correct.
- The Bough C will be tested?
- A. Yes, sir.

Q. Have you prepared an AFE in connection with this particular project?

A. I've just prepared an estimate of myself, since we're pretty internal in our operation. A formal AFE is not usually the case.

Q Well ---

A But we have prepared an estimate and the \$350,000 is what we assume it will cost after considering the value of the equipment already on hand; that is, the surface equipment and the surface and intermediate casing strings, and

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the cost of the placing and cementing both of those.

Q. You'll save some money on drilling, too, won't you, drilling expense to the bottom of the intermediate?

A. Actually, no, because this will be a day work project. No contractor would take a footage contract, of course, from that point. They make all their money in the first half of the hole on a footage contract, so it will be day work. It will also involve some additional cost in the whipstock operation itself, so as far as rig cost, we figure it's at best even with drilling a new top to bottom well.

The main consideration was the utilization of the existing surface and intermediate casing strings.

Q. I'll ask you one other question. In your opinion, if your application is not granted, would it become not feasible for you to develop this -- to make this reentry?

A. It really isn't feasible to me, I don't believe, because it would become a joint operation, which involves additional administrative costs; it would lower our potential margin of profit. Just making a profit doesn't really interest us unless we think the profit is sufficient to justify our time and effort, which go into such an operation.

Q In connection with the opinion that you expressed about drainage, why are you so firm about this, about this matter? That is to say that the well will only drain 40 acres?

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I think the gas/oil ratio, Exhibit Five that we showed, pretty clearly sets that out. The reservoir is not being drained. The gas is being produced from the Morrow, which is not moving to the wellbores of the existing producing wells; therefor you get a high gas/oil ratio. one of the oldest points that we look at in reservoir determination, possibly, is that gas/oil ratio, because you get into a system of a thing called relative permeability within any reservoir, within the formation when pressures drop below a certain point you have gas escaping, solution gas escaping from the oil, which causes the high gas/oil ratio, and this can move readily. Most formations have a greater, much greater affinity to the production of free gas than they do of any liquid, water or oil. Consequently, your gas breaks out due to the lowered pressures and it will travel readily to any point of lower pressure, being a wellbore, leaves the oil right where it was in the beginning and it's not moving on that account.

The -- this was a slightly different reservoir initially. It was a -- probably a two-headed pro-ducing mechanism. First of all it was a water-charged reservoir and the expansion of the connate water was one of the primary producing mechanisms and the other, as in most reservoirs, was the expansion of solution gas.

Once you allow this gas to break free, to

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a free state, and travel away from the wellbore, it's not moving fluid with it any more, and the oil just sets in place right where it was.

The recovery efficiencies, I think, of the two fields, or the several fields, then clearly indicates that this is what has happened, that the wide spacing has not been efficient and left oil every place where it was originally with a certain amount of it being produced away initially, but probably with rather high saturations. A comparison of the Vada and the Allison shows that the Allison has produced twice that amount of oil under essentially the same conditions, the same reservoir quality, same thickness, same characteristics.

For that reason, I don't think there's any way that we can set a well out at some point in 160 care tract now and say that it's going to drain 160 acres. It didn't do it in the first place. There's no reason to think that it would now.

Ω Do you have anything else to add to your testimony?

A. I might mention something about depreciated values of equipment, appreciating that Mr. Thornton hasn't been involved in that particular phase of it as we operators have recently. I think that point is best illustrated by a gentleman recently who had new pumping units to sell and just made the comment to me. He said, we're the highest new pumping

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unit on the market but we're cheaper than used ones.

Used equipment is at a premium right now because there's a great deal of demand for it. This particula casing in our intermediate string is -- is K-55, 32-pound, 8-5/8ths. It currently at new prices is around \$15.00 plus per foot, plus drayage and all those things, the important thing being that you can't buy any. So it's worth nearly anything, really. That was one of the big factors that encouraged us to make the reentry, which admittedly is more hazardous, and except for that consideration just as expensive as drilling a new well top to bottom.

MR. HUNKER: Very well, I have no further questions. Do you have any questions, Mr. Carr?

MR. CARR: Just a couple.

RECROSS EXAMINATION

BY MR. CARR:

I think you just answered it. It's the availability of the equipment that is causing you to go ahead and reenter as opposed to drilling a new well?

Yes, sir, that's right.

You think the cost would be about the same?

I think it would be higher, if you could find any.

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Q. For the -- aren't the costs of the reentry as opposed to --

A. Oh, I'm sorry, I --

O -- a new well about the same?

A Yes, other than the consideration or that surface equipment, it would be about the same.

Q I believe you testified that the wide spacing in your opinion was not efficient.

A. Yes, sir.

Q. The standard spacing is, however, 160 acres, is that not correct?

A. Yes, sir, it was.

Q And that was based on what was believed could be effectively drained by one well.

A. I think it was developed more as an economic spacing at that time. The field had very high porosity, of course, and was capable of high rates, which initially would, I think, tend to lead anyone to think that it probably could be efficiently produced on the wider spacing.

I think the data, of course, bears out quite plainly that it was not efficient. Nevertheless, I don't say that it wasn't the thing to do. It almost certainly was; a great deal of the Vada Field might never have been drilled had it not been for the wider spacing and higher allowables and the opportunity for faster amortization of the

...

Q. I think you testified that if your application was denied, you would perhaps not reenter the well at all, is that correct?

A. Well, I would have no basis to reenter the well at this point. I would have no authority to because the Commission will not grant me that authority on that 80 acres.

And you would not be interested in reentering the well if you were compelled to put 160 acre unit together. Was that your testimony?

A. I'm not particularly interested in that, no. In the first place, the economics are greatly diluted so far as I am concerned. As far as my time and effort, which is -- may not be worth a lot to anyone else, but it's worth a great deal to me.

The other thing that I might point out at this point, I think the correlative rights of the royalty owners under my tract would be grossly violated in this case, because I'm firmly convinced we would produce no oil from that tract to the south, yet my royalty owners would be giving up half of their oil interest to that tract, as I would.

I presumably would be compensated monetarily but they would not. They would just lose half of the ...

O. They would be entitled, however, to share in any production from the tract at a later date as well, is

LLY W. BOYD, C.S.F

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that correct?

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Yes, that's correct, they would.

You stated that you would not be particularly interested in forming a 160-acre unit. Would you be particularly interested in joining in a well that Mr. Thornton might drill on a 160-acre unit?

I'd have to look at his economics and his operator.

MP. CARR: I have nothing further.

I'll have to --A.

RECROSS EXAMINATION

BY MR. NUTTER:

Mr. Layton, you talk about the rights of your royalty owners being violated, be it right or be it wrong, the spacing is 160 acres in the pool and theoretically that says that one well will drain 160 acres. So theoretic cally their rights could not be violated.

Is that a foredrawn conclusion that it will drain 160 acres?

The Commission years ago stated that one well will adequately and efficiently drain 160 acres, and I say, be it right or be it wrong, that's the rule of the land in that pool.

Also, Mr. Layton, you stated that your

economic interest would be diluted by the presence of Mr.

Thornton in a 160-acre unit. There's a certain amount of risk involved in spending whatever money it's going to take to reenter this well and put it back on production, and a risk in the payout. Your -- your risk would also be diluted -
A. Oh, yes.

Q -- if he put up the money in advance of - his share of the money.

A. Right. I have a theory about that, Mr. Nutter, that if you take no risk at all, you can't lose anything, either, so neither do you make anything, but I don't think risk worries any bona fide operator very much, because we take that every day. We take it when we get out of bed in the morning.

Q. Well, you ought to hear them talk about a risk in these compulsory pooling cases.

A. That's possibly true, but I'm looking at it from a different angle right now. But I'd like to mention that Mr. Thornton's testimony, he suggests that he could not drill a well on his tract because the economics will not justify it. But it seems to me that the economics for half a well are just exactly the same as they are for drilling a whole well.

Q. What is the cumulative production from the well that you've got now, the one you're going to reenter?

I believe it's 210,000 barrels. Now when you reenter that and set your 1 whipstock or your Dyna-drill, whatever, what direction will 2 3 you take off in? Doesn't particularly matter because we will only be angling it one to two degrees, which would just 5 keep us away from the junk, is all. At bottom hole, at the most 200 feet from the original wellbore, so it really is of 7 no significance to us at all. If you set it in any specified direction 9 you would have to have a hearing prior to doing this. If you 10 drilled in an indeterminate direction to sidetrack --11 12 I see. -- junk in the hole, I think you wouldn't 13 14 have to have a hearing. I wasn't -- I haven't previously had ex-15 perience with that so I wasn't certain what the rule was, and 16 I have not checked that with the district office to see what 17 18 they would require. MR. NUTTER: Are there any further ques-19 20 He may be excused. tions of Mr. Layton? 21 Do you have anything further in this case 22 Mr. Hunker? 23 No more, thank you, sir,

MR. HUNKER:

MR. NUTTER:

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Does anyone have anything

they wish to offer in Case Number 7191? We'll take the case under advisement. (Hearing concluded.) SALLY W. BOYD, C.S.R. Rt. 1 Box 193-B Senta Fe, New Mesos 87501 Phone (505) 455-7409

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sary W. Boyd C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner Learning of Case to. 2091

Oll Conservation Division

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 25 November 1980

EXAMINER HEARING

IN THE MATTER OF:

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Application of Layton Enterprises, Inc., for a non-standard proration unit, Lea County, New Mexico.

CASE 2007

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

George H. Hunker, Jr. HUNKER, FEDRIC P. A. P. O. Box 1837 Roswell, New Mexico 88201

For Robert L. Thornton:

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

성진 경기는 기계를 고면하면 보다 하는 것이다는 사람이 들어보는 것이다. 생물 것들을 하고 있었습니다.	
DONALD R. LAYTON	
Direct Examination by Mr. Hunker	
Cross Examination by Mr. Carr	Maria Ar. Ar. Maria
Cross Examination by Mr. Nutter	
ROBERT L. THORNTON	
내게 어디에 다른 동생한 나는 때 모르고 있었다. 그렇게 하고 모르는	
Direct Examination by Mr. Carr	
Cross Examination by Mr. Hunker	
Redirect Examination by Mr. Carr	
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DONALD R. LAYTON	
Redirect Examination by Mr. Hunker	
Recross Examination by Mr. Carr	
Recross Examination by Mr. Nutter	
다. 이번 명하는 것이는 사람들이 많아 그리고 있는데 되는데 되었다. 어릴 것으로 함께 보다. 생기에 대통한 전쟁을 되었다. 기급이 있는데 있다. 그리고 있다. 이번 말이 되어 되었다.	
BANGER OF THE REPORT OF THE RE	
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Layton Exhibit Number Three, Plat	
Layton Exhibit Number Four, Plat	
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어림에는 그렇게 아크라를 하면 일반을 반대했다. 한국 교리 사람들은 다른 아크로 프로그램 레스스스스를 하는 이 하는 것은 것은 것을 했다.	

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MR. NUTTER: We'll call next Case Number

MR. PADILLA: Application of Layton Enterprises, Inc., for a non-standard proration unit, Lea County, New Mexico.

MR. HUNKER: George H. Hunker, Jr., Hunker-Fedric P. A., Roswell, New Mexico, appearing on behalf of the operator, Layton Enterprises, Inc.. I have one witness and five exhibits.

MR. CARR: Mr. Examiner, I am William F. Carr with the law firm Campbell and Black, P. A., Santa Fe, appearing on behalf of Robert L. Thornton. I have one wit-

MR. NUTTER: Will both witnesses please stand and be sworn?

(Witnesses sworn.)

DONALD R. LAYTON

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

DIRECT EXAMINATION

BY MR. HUNKER:

What is your name and address?

	4		na programme de la companya della companya della companya de la companya della co			
		A .	Donald R. Layton, Lubbock, Texas.			
	2		And what is your occupation?			
	3		I'm president of Layton Enterprises, Inc.,			
SALLY W. BOYD, C.S.R. Rt. i Box 193-B Santa Ft, New Mexico 87501 Phone (505) 455-7409	4	in Lubbock, Texas.	교육하는 일 보이에 하는 이 전략을 통했다. 이 반물은 이어 기계된 2000년 대한 기계를 되었으면 기계를 받았다.			
	5		Have you testified as a petroleum engineer			
	. 6	before this Commis	\$1on?			
	7	A	Yes, sir, I have.			
	8	Q	And were your qualifications acceptable			
	9	at that time?	현실 시간 경기 전 경기 시간 시간 기간 경기 전			
	10		Yes, sir.			
	11		MR. HUNKER: Are the witness' qualifica-			
	12	tions accepted?	- 명의 - 경기에 발매하는 시민 시간에 발매하는 이 등에 가는 것이 되었다. 			
ALLY Santa R	13		MR. NUTTER: Yes, they are.			
o Constantin	[4		Mr. Layton, are you familiar with the			
	15	application that h	as been filed in connection with this mat-			
	16	ter?	경영하다 교통 등록 하시는 그 사람들의 모양이 사용하게 모으셨다. 1980년 - 1일 - 1일 하지 하지 않는 1일 기업이 되었다.			
	17		Yes, sir, I am.			
	18	Q .	And what's the purpose of the application			
	19		The purpose of the application is to esta-			
	20	blish a project area comprised of four non-standard 80-acre				
	21	proration units within the confines of the Vada-Pennsylvanian				
	22	Field.	가게 되는 그 경에 가는 가는 사람들이 되었다. 그는 그는 가는 것으로 가는 것을 받는다. 			
	23		And has administrative approval been			
	24	given on three of				
	25		Yes, sir, it has, the two locations in			
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Section 10, 9, 34, and one in Section 11, 9, 34, have been administratively approved.

Looking at the map that's been marked Applicant's Exhibit Number One, will you identify this instrument and show the Examiner what this reveals?

All right, sir. This is a map of the Vada-Pennsylvanian Pool. More than that, it shows the entire Bough C trend in Lea and Roosevelt Counties, New Mexico, which is comprised actually of a number of separately designated fields. At one time there were other fields that have since been incorporated into the Vada-Penn, but at this point in time in addition to the Vada we have the Allison-Penn, the Bough-Penn, and the Inbe-Penn still retaining original identi ties.

How Long have you operated wells in this area, Mr. Layton?

In this field about four years. In this area something like twenty-five years.

What is the spacing rule with regard to the Vada-Penn Field?

Vada-Penn is 160 acre proration units.

And the Allison-Penn Field, the field on the far right?

The Allison-Penn is 80-acre spacing proration units.

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The Bough-Penn is actually 40-acre proration units. It has more generally been developed on 80acre spacing, although a portion of the field at least actually resembles 40-acre spacing, which is the standard proration unit.

On the southwest corner of this plat there appears some legend with regard to the Inbe. Will you --

Yes, sir, the Inbe Field, again, is 80acre standard proration units and pretty generally has been developed on that pattern.

Tell the Examiner what else does that plat reveal? ใช้ พระสารได้เหลือ และ 2 ปักทัพ เป็นโดย และ เหลือง และ **รับสมรั**บที่ ใช้ พระสารได้ และ เลือง ใช้ เพลิส เลือง ใช้ พ

All right, this plat shows some of the recovery data with respect to total number of acreage covered by the -- now this is not-the acreage figure covers only those established and producing proration units. It does not cover any other contingent acreage.

It shows the acreage, the total number of wells that are or have produced oil from this reservoir and the cumulative recovery from each field and the recovery in barrels per acre from each of these.

We also, just by way of information, designated a small area called the application area, which I randomly selected in two directions, a 2400 acre plot and 15

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wells and showed the recovery for that immediate area surrounding the 80 acres involved in the application.

Q With regard to the project in the north half of the northwest quarter of Section 14, 9 South, 34 East, what are your company's plans?

A We plan to make a re-entry on a well known as our No. 1 Pyron (sic), which is located in the northeast of the northwest quarter, or the east half of the north half of the northwest quarter of Section 14.

Q How much acreage will that well drill in your -- will that well drain in your opinion, Mr. Layton?

A. In my opinion, considering the current bottom hole pressure conditions in that field, will at best drain 80 acres.

Q. Will you refer to what's been marked as Exhibits Two, Three, and Four, and explain to the Examiner what these fields show -- what these plats show?

of the Allison, Bough, and Inbe-Penn Fields, showing the general spacing pattern, showing the 80-acre proration units as they were developed. They have no other significance on the case other than that. The larger map does not include the well locations in the adjacent fields. It only includes well locations for the Vada, and these are simply to show the detail.

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Significant recoveries have been made in the Allison-Penn Field and I'd like for you to explain the reason for that. All right. The Allison field has recovered

1888 barrels per acre. Incidentally, all of these figures are through 1-1-1980, taken from the Commission records.

The Allison Field has recovered 1888 barrels per acre on 80-acre spacing and with a relatively low gas/oil ratio through all of its producing history. Currently the gas/oil ratio for the Allison Field is averaging approximately 2500-to-1. I believe all of this area has a GOR limit of 10,000-to-1. It's produced well below that throughout its entire life.

In your opinion can the Vada-Penn area be economically developed on an 80-acre spacing?

Yes, sir, in my opinion it can.

Looking to what's been marked Applicant's Exhibit Number Five, will you identify this instrument and tell the Examiner what it reveals?

Yes, sir, this is a comparison of the gas, oil ratios involved in the first eight years of the producing life of each field. Now these are not corresponding years, so I have designated them year of field production. The fields were drilled at slightly different times, and this is just a comparison of the gas/oil ratios of each field and it!

notable on this exhibit, I think, that the Vada Field, which is the only area developed on 160-acre spacing, the gas/oil ratio increases much more rapidly than the other two, and maintains a much higher level at the end of eight years.

I might add in fairness that in the later stages of any field, of course, you can usually expect the higher gas/oil ratios, but through the first eight years, which actually these are the years when most of the oil, or most of the cumulative was produced from each of these reservoirs.

MR. NUTTER: Now these are field-wide production ratios, is that it?

A. Yes, sir, these are field-wide and they're based on yearly averages for the entire field. I might make note that the Inde appears to be declining the first few years and this is directly due, I think, to the stage of development and a lower rate of development probably caused this. It was a slow, a steady rate of drilling and the --

MR. NUTTER: More --

New areas ---

MR. NUTTER: -- new lower ratio wells

coming in.

A Yes, sir, that's right, more now wolls with lower ratios coming in that held the average down.

The Vada, by contrast, of course, was

Q. When was the Vada-Penn initially developed, Mr. Layton?

I believe the first activity in the Vada was either in 1967, late 1967, or '68. The majority of the drilling took place from 1968 on through 1971.

What were the economics at that time?

A. The economics were not all that good. The oil prices were low in a depressed market condition and I think operators were faced then with a situation where they needed the larger spacing, higher allowables, in order to more quickly amortize their investment in drilling.

developed very rapidly. The Allison also was developed at a

slightly lower rate, although I think faster than the Inbe

In your opinion will the granting of your application adversely affect any offsetting owner?

A No, sir, in my opinion it will not.

Do you believe that the granting of your application would be in the interest of the prevention of waste and protection of correlative rights and the best interest of conservation?

A Yes, sir.

Do you have anything else to add with regard to -- to the exhibits or with regard to this particular prospect?

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24 25 A. I think we've generally covered it fairly well, George.

MR. HUNKER: I have no further questions,

Mr. Examiner.

MR. NUTTER: Mr. Carr?

MR. CARR: I have just a couple of questions of Mr. Layton.

CROSS EXAMINATION

BY MR. CARR:

Mr. Layton, how would you characterize the Vada-Penn Pool in the immediate area now in terms of the extent to which that reservoir has been depleted? Has it been substantially depleted?

- A. Yes, sir, I would say it has been substantially depleted.
- In your opinion developling a reservoir or a tract within a reservoir that has been substantially depleted as opposed to one that has not been so depleted, doesn't this bear on the economics of drilling a well?
 - A. Certainly does,
- And wouldn't most of the development in the Allison and the other fields on this smaller spacing have been done prior to the time the reservoirs were substantially depleted?

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Yes, I would say that's true, yes.

Do you think it would be economic in a depleted reservoir to develop, say, the Allison, if it was in the comparable status in terms of its depletion as the Vada-Penn? Do you think it would be economic to go in and develop that on 80's or 40-acre tracts?

I have not made a study of the Allison itself, for instance. It -- of course every case has to stand on its own. We have studied the Vada in particular for some time and although the economics certainly are not as great as we would like for them to be, we feel, obviously feel that they are there.

How much does it cost to drill a well in the Vada-Penn in this immediate area?

To drill and complete, I assume you mean.

Yes, sir.

Probablyaa pumping well completed and in the tanks, looking at \$450,000.

And it's my understanding you're planning to go in and re-enter an existing hole and thereby affect some savings, is that correct?

Yes, some savings because of equipment we still have in that well, surface casing, intermediate casing.

When was the subject well originally drilled?

11		
1		I believe in 1969.
2		And then there have been subsequent prob-
3	lems with that well,	I believe.
4	A .	Yes, sir, there were; equipment failure
5	in 1978 caused its I	oremature abandonment.
6		And then it's been reworked, or something,
7	once since then, is	that correct, or has it been shutin?
8		No, it's been plugged since then.
9		Originally what acreage was dedicated to
10	this well?	
11		The 160 acres comprising the northwest
12	quarter of Section	
13		MR. CARR: That's all I have.
14		
15		CROSS EXAMINATION
16	BY MR. NUTTER:	
17	Q	When did you say the equipment in the well
18	failed, Mr. Layton	
19		1978
20	Q	And it caused the premature abandonment,
21	then.	용하는 발표 및 후 보고 등 물론이 받는 모양이 하셨다는 것이다. 구매로 보고 말하는 일이 있는 경기를 받는 것이다.
22		Yes, sir, it did.
23	Q	What was dedicated to the well at the time
24		drilled and throughout its producing life,
25	Mr. Layton?	

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1	A That northwest quarter of Section 14.
2	Q Being a standard unit in the
3	A. Yes, sir, a standard 160-acre unit.
4	Ω Now, why are you seeking a non-standard
5	80-acre unit now instead of the original 160-acre standard
6	unit?
7	A. I have the common leasehold on the south-
8	east quarter of Section 10, south half of the southwest quarte
9	of Section 11, and this 80-acre tract, being the north half
10	of the northwest quarter of Section 12. This is all a common
11	lease owned by the Pyron Estate and I still have equipment
12	located on that lease, production facilities, surface facili-
13	ties and the like, and it's my intent to form a 4-well pro-
14	ject on this 320 acres with four 80-acre units, four wells
15	producing into this common surface facility.
6	Q Now you mentioned the description of the
7	lands, being the southeast quarter of Section 10. Now the
8	Division recently approved two non-standard units there.
9	A. Yes, sir, that's right.
0	Q Being the north half of the southeast and
1	the south half of the southeast.
2	λ. Yes, sir.
3 ∦	Q And I believe that the north half of the
4	southeast was to be dedicated to a new well that was to be
5	drilled.

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Now we have three - four non standard units in this package, three of which would be dedicated to old wells. Did you operate those old wells. Did you operate those old wells when they were in production?

Just the one in the current application, or the current question we're discussing. I operated --

You operated this one.

Yes, sir.

And you're the one that abandoned it in

178 --

yes, sir.

... when it had this mechanical failure. Q.

That's correct.

What was the nature of the mechanical A.

failure, Mr. Layton?

That was very simple. failed going in the hole and dropped and stacked up iron for about 3000 feet from the bottom up and sheared the casing off at the same time, tubing and casing; ultimately caused the casing to collapse. At that time we spent considerable money on the well trying to save it then, but oil prices were considerably lower at that point than they are now, of

course, and we just reached the end of our economic --Now is it your intent to try to drill 23 24

around this junk that's in the hole?

out.

	Yes,	sir, we	we intend to drill around it				
this time.				of course, but			
we feel like) 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
Q	You	don't kno	w if you can	fish the junk			

A. Not satisfactorily, no. I think -- I think we'd be sending good money after bad. But at the time we plugged the well the cost of sidetracking just could not be justified by the current economics. We think now that it can.

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

MR. HUNKER: I'd like to offer in evidence if I haven't already, Exhibits One through Five.

MR. NUTTER: Applicant's Exhibits One through Five will be admitted in evidence.

MR. HUNKER: Thank you very much, Mr.

Examiner.

MR. NUTTER: Yes, sir.

MR. CARR: May it please the Examiner, at this time I would call Robert L. Thornton, T-H-O-R-N-T-O-N.

ROBERT I.. THORNTON

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

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DIRECT EXAMINATION

Q.

Mr. Thornton, for the record will you state your full name and place of residence?

Robert L. Thornton, Ft. Worth, Texas.

By whom are you employed and in what capa-

I'm self-employed as a geologist and petroleum landman.

Have you previously testified before this Commission and had your credentials accepted and made a matter of record?

No, I have not.

Will you briefly summarize for the Examine Q. your educational background and your work experience?

I graduated from the University of Texas in 1971 with an economics Bachelor's degree. I worked as a stockbroker and commodity broker until 1977. January of '77 I re-entered the University of Texas and -- and pursued education in geology and petroleum engineering. In 1978, September of 1978, a received a petroleum engineering Bachelor's degree and was about three hours short -- three -- six hours short of obtaining a geology degree. On this basis I was hired by Houston Oil and Minerals and I worked in Houston Oil

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and Minerals as a geologist, as a development geologist most of that time, and then in July of 1979 I left Houston Oil and Minerals to form my own company, and I've been in that pursuit since that time.

Mr. Thornton, are you familiar with the application filed in this case by Mr. Layton?

Yes, I am.

MR. CARR: At this time, Mr. Nutter, we would ask that the witness be qualified as a practical oilman. MR. NUTTER: Mr. Thornton is qualified.

Mr. Thornton, what interest do you own in the area which will be affected by the application of Layton?

I own a lease that is a 5/6ths royalty lease -- or 1/6th royalty lease to the State, on the State lands that are represented by the 80-acre tract which is the south half of the northwest quarter of Section 14, Township 9 South, Range 34 East.

When did you acquire this lease?

I acquired it on November 1st -- or the lease was dated November 1st, 1979.

And you did state this was a State lease with 1/6th royalty.

Correct.

What is the general producing formation in the area?

 λ In the Vada-Penn Field the basic formation that produces is the Bough C.

And in respect to your lease, where is there presently Vada-Penn production?

Penn production on all the leases that adjoin my lease, and currently there is -- or at least through 1979, which is the end of '79, which is the data that I have, there was production on the south and on the east of my lease at Mr. Layton's well, a well that he has plugged, was not plugged for lack of production. It was once a producer and it was plugged because he had some problems with the well.

Q Mr. Thornton, I'll show you what has been marked for identification as our Exhibit Number One and ask you if you would identify that, please?

A. This is a copy of the map that was entered, was sent by Mr. Layton in his application to set up the non-standard provation units.

MR. CARR: Mr. Nutter, we have only one copy of this with us and immediately following the hearing I will provide you with additional copies.

MR. NUTTER: Okay.

Now, Mr. Thornton) will you explain to the Examiner the status of the wells offsetting your lease as to their producing capabilities?

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	.	The Ten	neco -	- ther	e's a Te	nneco w	ell to
the east,	which is	in the -	- whic	di is i	n the	has 16	0 acres
in the no	rtheast que	erter of	that	section	n, which	produc	ed 998
barrels d	uring the y	ear of	1979,	980 ba	rrels du	ring th	e year
of 1979.							

The Prudential well, which is directly to the south of my lease, dedicated the 160 acres in the southwest quarter of the same section, the Prudential No. 1 Vada-Pruda, for the last three years has produced under 5000 barrels per year.

And then we have Mr. Layton's well?

Mr. Layton's well to the north, in the last year of operation produced about 5000 barrels, also, and it was abandoned, as he said, due to technical problems.

Is the Vada-Pennsylvanian Pool developed in the area by wells to which 160 acres are dedicated?

Generally, yes.

In your opinion is the acreage, being the south half of the northwest quarter of Section 14, being your lease, is that acreage productive in the Vada-Penn?

Yes, it -- yes, because wells -- I believe so because wells in all directions have produced.

Would you anticipate that a new well drilled on your lease would be of comparable quality to wells offsetting it?

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I would assume that since the well to the north is producing 5000 barrels in the last year and the one to the south 5000 barrels, the ones on the east and west have been --- well, I would assume that it would -- could be presumed to produce about 5000 barrels a year.

Would you consider this a marginal well? I would consider it very marginal, constdering the costs of drilling a new well.

Now, what acreage was originally dedicated to Mr. Layton's -- the well that Mr. Layton plans to rework on this quarter section?

Originally the well was drilled by Tenneco and I believe the south half of the lease that I presently own was owned by Cities Service. It was -- there was 160-acres put together to form -- to drill that one well. They dedicated the northwest quarter of the 160-acre tract in that section.

And did the acreage that you now have under lease share in the cost of drilling of the existing well?

Yes, they did.

Did they share in the production from that well?

Yes, they did.

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What happened to the prior communitization agreement for the northwest quarter of Section 14?

Due to the technical problems that Mr.

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Layton had when he abandoned, he decided to abandon the well, then he decided at that time not to re-enter -- not to redrill the well or to re-enter it at that time, and because of that delay, 60-day delay, a delay in excess of 60 days, the communitization and the lease expired.

Are you aware of any characteristic of producing formation which would prevent the well Mr. Layton is proposing to recomplete, prevent that well from draining your lease?

A. I am not aware of any such characteristic and I don't believe there would be such.

Q. Is it your testimony that you believe your lease will be drained by the well which is the subject of this application?

A. I believe that it will be so drained.

Now I believe you heard Mr. Layton testify as to the costs of drilling a new well in this area. Do you concur in his statement?

A. I would say that is a -- that \$450-\$500,000 would be a reasonable cost.

Q What doyou understand the costs of reentering and recompleting the well would be for Mr. Layton?

A. Well, for Mr. Nayton, he told me that the costs would be about \$350,000, and by the way, let me point out one thing. He mentioned a value for the equipment and

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casing, et cetera, that are in the well, there's no tubing, of course, that's of any value, I question whether the depreciated value of -- of 10-year old equipment would be what he specified.

- Mr. Thornton, if Mr. Layton's application was denied, you would be willing to join with him and share the cost of the reworking and operating on the existing well?
 - Yes, I would.
- And you would be willing to pay the reasonable value of your share of any equipment or material on the lease?
 - Yes, under a reasonable operating agreement.
- In your opinion would it be possible for you to drill a well on the south half or section 14 to protect that acreage against drainage from the well which Mr. Layton is proposing to rework?
- Considering the \$500,000 cost and the 1/6th royalty, I do not believe it to be a desireable economic prospect, and let me -- let me go into some figures on that,

Assuming 5000 barrels a day and --MR. NUTTER: Not 5000 barrels a day.

I'm sorry, per year; 5000 barrels a day it would be economic. 5000 barrels a year, and about \$28.00 a barrel net after production taxes and windfall taxes, and a 5/6ths lease, that comes out to approximately \$117-\$118,000

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The costs of operating it would be in the neighborhood of That would leave net revenues, assuming no problems whatsoever with the well, which, of course, we've seen can happen on the Layton lease, for instance, would be about \$100,000. Considering a half a million cost and with interest rates nearing 20 percent, there's no way that you can come out economically on a 20 percent net return.

In addition, using Mr. Layton's Exhibit One, the Applicant's Exhibit One, for barrels For acre that have been recovered over the entire lifetime of this field, which Mr. Layton himself said was substantially depleted, there are 938 barrels per acre assumed to come -- over the fieldwide average coming from that field, and with essentially 1000 barrels times \$30.00 a barrel times 40 acres, that would be, if the lease were entirely new, it would produce \$3,240,000 worth of net revenues.

Even assuming that it's 75 percent depleted, which I believe it may be more so, that would leave 25 percent of, say, that oil in the ground, which would be an ultimate recovery of about \$800,000 off of a half a million dollar in-

> MR. NUTTER: Now you said assuming 40

I mean assuming 80 acres.

MR. NUTTER: 80 aures.

acres.

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Which is Mr. Layton's desire.

If Mr. Layton's application is granted, in your opinion would there be any practical way for you to protect your lease from drainage?

I do not believe so.

Do you believe reserves from your lease would be produced by the Layton well?

Yes, I do.

If at a later date after the well is recompleted and you were able to determine that an additional well necessary to effectively and efficiently drain the northwest quarter of Section 14, at that time would you be willing to participate in the drilling of an additional well if it qualified under the NGPA for a higher price?

Probably, yes.

In your opinion would granting this application impair your correlative rights?

It certainly would.

Do you have anything further to add to your testimony?

No.

MR. CARRI At this time, Mr. Nutter, we would offer into evidence Applicant's Exhibit -- or Thornton Exhibit Number One.

> MR. NUTTER: Thornton Exhibit One will be

admitted in evidence.

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MR. CARR: I have nothing further.

MR. NUTTER: Mr. Hunker?

MR. HUNKER: Yes, sir.

CROSS EXAMINATION

BY MR. HUNKER:

Mr. Thornton, are you a reservoir engineer

No, I am not. I've had some training.

Are you qualified to make a statement that in your opinion the Layton well will in fact drain your acreage?

Well, I haven't done any research into it at this point.

In connection with the Prudential well to the south, do you feel that that well may be draining your 80-acre tract?

I would assume it is.

In connection with the economics, you'd be willing to pay for 50 percent of the cost of drilling the new well, is that correct?

Correct.

You'd be willing to pay what part of the cost of Mr. Layton's hole in the ground, surface casing, and intermediate casing?

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A At its reasonably depreciated value, considering the age of the equipment.

MR. NUMBER. Value

MR. NUTTER: You'd pay 50 percent of the reasonable arrived at depreciated value.

A. Right, 50 percent, uh-huh.

You have mentioned depreciated value. The pipe might be worth more today than it was -- than it originally cost, isn't that correct?

A That's correct, but it's also ten years old, or eleven years old.

If you did participate in the drilling of this well and paid your part of the cost, what part of the well would you own?

A. I would assume that I would own --- I'm not familiar with the law regarding --- regarding it. I would assume I would have 50 percent of it.

Well, if you have half the communitized tract, you'd have 50 percent.

A 50 percent.

So the economics of the situation would give you a half a well, isn't that correct?

A Correct.

And you would thereby dilute the interest that Mr. Layton has in the well, isn't that correct?

A. That's correct, he would own one half the

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well, also.

O Do you realize that it might not be economic for Mr. Layton to -- to drill -- to reenter this well if he has to share the production with somebody else?

A. He would have the same percentage profit margin. As far as his time and effort, I'll be glad to handle operation or find an operator in the area.

Q. But he'd only have 50 percent of the well, isn't that correct?

A. That's true.

Q He would be diluted to the extent of 50 percent.

A That's correct.

Q. What is the term of your oil and gas lease from the State of New Mexico?

A. It's a 5-year lease.

And it was dated November the 1st, 1979, is that correct?

A. That is correct.

So you have roughly another 3 years within which to evaluate that property, is that

A Roughly 4 years.

Roughly four years. In your opinion will Mr. Layton's well improve the marketability of your oil and gas lease?

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I do not believe so because other companies will look at the 80-acre -- say I was trying to sell it and find a marketability, other company would look at it and try to figure out how they could economically produce the 80 acres and drill a well and --

Have you submitted your lease to anyone for purchase?

Yes, I have.

Have you had any success?

No.

Have you tried to get anybody to drill on your lease?

Not at this time.

Well, since you acquired it in '79 have you tried to get somebody to develop it or have you tried to put together a fund to develop it yourself?

Not to this time. I assumed that when I bought it, if I were going to be reentering it, I'd be reentering the other well. That was my original economic basis.

You realize that this is a margical prospect, don't you?

Yes, I do.

And that the investment of \$350,000 or thereabouts is a rather heavy money commitment.

It certainly is.

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And Mr. Layton is willing to assume this Don't you think that that in itself will help entire risk. to evaluate your acreage?

There is no conceiveable way in my mind that an 80-acre well, given the production history, the production in the field in barrels per acre, could justify the expense, and therefor the lease would have zero market value, and zero incentive to its development.

Well, the 50 percent rule is going to apply, just --

In my -- in that case it's draining 160 acres of production. 160 acres times 983 barrels is twice as much oil as 80 times 938 barrels.

And Mr. Layton expressed the opinion as a petroleum engineer that in his judgment his well would only drain 40 acres. Do you recall that testimony?

I do recall that testimony.

Would you disagree with that testimony?

I am disagreeing to the best of my ability

MR. HUNKER: Thank you, Mr. Examiner, I to. have nothing further.

MR. CARR: I have just one more question. MR. NUTTER: Mr. Carr.

REDIRECT EXAMINATION

2 BY MR. CARR:

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Mr. Thornton, I want to be sure I understand your testimony.

You were stating that in your opinion you would have cne-half of a well, is that correct?

That is correct.

And is it also your testimony that for one-half of the well you're willing to pay one-half of the costs involved in that?

That is correct.

I believe you concurred with Mr. Hunker's statement that \$350,000 was a very heavy commitment to make for the development of -- or the reentry of this well.

I do concur.

By the same token, \$500,000 would be an extremely heavy burden to go and drill a new hole.

Substantially more.

MR. CARR: I have nothing further.

MR. NUTTER: Does anyone have any question

or Mr. Thornton? He may be excused.

MR. HUNKER: I'd like to recall Mr. Layton

for just one or two questions.

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DONALD R. LAYTON

being recalled, testified as follows, to-wit:

REDIRECT EXAMINATION

BY MR. HUNKER:

In connection with reentry prospect, Mr. Layton, of Pyron No. 1, do you contemplate setting a whipstock

at bottom of the intermediate casing? Yes, sir, at or a point below, whatever is

convenient with the formation as it be.

And the new hole will be drilled down to the Bough C, is that correct?

Yes, sir, that's correct.

The Bough C will be tested?

Yes, sir.

Have you prepared an AFE in connection with this particular project?

I've just prepared an estimate of myself, since we're pretty internal in our operation. A formal AFE is not usually the case.

Well --

But we have prepared an estimate and the \$350,000 is what we assume it will cost after considering the value of the equipment already on hand; that is, the surface equipment and the surface and intermediate casing strings, and

You'll save some money on drilling, too,

won't you, drilling expense to the bottom of the intermediate?

A Actually, no, because this will be a day

the cost of the placing and cementing both of those.

work project. No contractor would take a footage contract, of course, from that point. They make all their money in the first half of the hole on a footage contract, so it will be day work. It will also involve some additional cost in the whipstock operation itself, so as far as rig cost, we figure it's at best even with drilling a new top to bottom well.

The main consideration was the utilization of the existing surface and intermediate casing strings.

Q I'll ask you one other question. In your opinion, if your application is not granted, would it become not feasible for you to develop this -- to make this reentry?

A. It really isn't feasible to me, I don't believe, because it would become a joint operation, which involves additional administrative costs; it would lower our potential margin of profit. Just making a profit doesn't really interest us unless we think the profit is sufficient to justify our time and effort, which go into such an operation.

Q In connection with the opinion that you expressed about drainage, why are you so firm about this, about this matter? That is to say that the well will only drain 40 acres?

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Santa Fe, New Mexico 87501
Photo (205) 455-7405

I think the gas/oil ratio, Exhibit Five that we showed, pretty clearly sets that out. The reservoir is not being drained. The gas is being produced from the Morrow, which is not moving to the wellbores of the existing producing wells; therefor you get a high gas/oil ratio. The one of the oldest points that we look at in reservoir determination, possibly, is that gas/oil ratio, because you get into a system of a thing called relative permeability within any reservoir, within the formation when pressures drop below a certain point you have gas escaping, solution gas escaping from the oil, which causes the high gas/oil ratio, and this can move readily. Most formations have a greater, much greater affinity to the production of free gas than they do of any liquid, water or oil. Consequently, your gas breaks out due to the lowered pressures and it will travel readily to any point of lower pressure, being a wellbore, leaves the oil right where it was in the beginning and it's not moving on that account.

The -- this was a slightly different reservoir initially. It was a -- probably a two-headed producing mechanism. First of all it was a water-charged reservoir and the expansion of the connate water was one of the
primary producing mechanisms and the other, as in most reservoirs, was the expansion of solution gas.

Once you allow this gas to break free, to

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a free state, and travel away from the wellbore, it's not moving fluid with it any more, and the oil just sets in place right where it was.

The recovery efficiencies, I think, of the two fields, or the several fields, then clearly indicates that this is what has happened, that the wide spacing has not been efficient and left oil every place where it was originally with a certain amount of it being produced away initially, but probably with rather high saturations. A comparison of the Vada and the Allison shows that the Allison has produced twice that amount of oil under essentially the same conditions, the same reservoir quality, same thickness, same characteristics.

For that reason, I don't think there's any way that we can set a well out at some point in 160-acre tract now and say that it's going to drain 160 acres. It didn't do it in the first place. There's no reason to think that it would now.

Do you have anything else to add to your testimony?

I might mention something about depreciates values of equipment, appreciating that Mr. Thornton hasn't been involved in that particular phase of it as we operators have recently. I think that point is best illustrated by a gentleman recently who had new pumping units to sell and just made the comment to me. He said, we're the highest new pumping

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same?

Used equipment is at a premium right now

unit on the market but we're cheaper than used ones.

because there's a great deal of demand for it. This particular casing in our intermediate string is — is K-55, 32-pound, 8-5/8ths. It currently at new prices is around \$15,00 plus per foot, plus drayage and all those things, the important thing being that you can't buy any. So it's worth nearly anything, really. That was one of the big factors that encouraged us to make the reentry, which admittedly is more hazardous, and except for that consideration just as expensive as drilling a new well top to bottom.

MR. HUNKER: Very well, I have no further questions. Do you have any questions, Mr. Carr?

MR. CARR: Just a couple.

RECROSS EXAMINATION

BY MR. CARR:

availability of the equipment that is causing you to go ahead and reenter as opposed to drilling a new well?

A Yes, sir, that's right.

ρ You think the cost would be about the

A. I think it would be higher, if you could find any.

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Oh, I'm sorry, I --surface equipment, it would be about the same. spacing in your opinion was not efficient. Yes, sir. acres, is that not correct? Yes, sir, ic was. could be effectively drained by one well.

For the -- aren't the costs of the reentry as opposed to ----- a new well about the same? Yes, other than the consideration of that I believe you testified that the wide The standard spacing is, however, 160 And that was based on what was believed I think it was developed more as an economic spacing at that time. The field had very high porosity, of course, and was capable of high rates, which initially would, I think, tend to lead anyone to think that it probably could be efficiently produced on the wider spacing. I think the data, of course, bears out quite plainly that it was not efficient. Nevertheless, I don't say that it wasn't the thing to do. It almost certainly was; a great deal of the Vada Field might never have been drilled had it not been for the wider spacing and higher

allowables and the opportunity for faster amortization of the

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I think you testified that if your application was denied, you would perhaps not reenter the well at all, is that correct?

Well, I would have no basis to reenter the well at this point. I would have no authority to because the Commission will not grant me that authority on that 80 acres.

And you would not be interested in reentering the well if you were compelled to put 160-acre unit together. Was that your testimony?

I'm not particularly interested in that, In the first place, the economics are greatly diluted so far as I am concerned. As far as my time and effort, which is -- may not be worth a lot to anyone else, but it's worth a great deal to me.

The other thing that I might point out at this point, I think the correlative rights of the royalty owners under my tract would be grossly violated in this case, because I'm firmly convinced we would produce no oil from that tract to the south, yet my royalty owners would be giving up half of their oil interest to that tract, as I would. I presumably would be compensated monetarily but they would not. They would just lose half of the ...

They would be entitled, however, to share in any production from the tract at a later date as well, is

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that correct?

Yes, that's correct, they would.

You stated that you would not be particularly interested in forming a 160-acre unit. Would you be particularly interested in joining in a well that Mr. Thornton might drill on a 160-acre unit?

I'd have to look at his economics and his operator.

MR. CARR: I have nothing further.

I'11 have to ---

RECROSS EXAMINATION

BY MR. NUTTER:

Mr. Layton, you talk about the rights of your royalty owners being violated, be it right or be it wrong, the spacing is 160 acres in the pool and theoretically that says that one well will drain 160 acres. So theoretically their rights could not be violated.

Is that a foredrawn conclusion that it will drain 160 acres?

The Commission years ago stated that one well will adequately and efficiently drain 160 acres, and I say, be it right or be it wrong, that's the rule of the land in that pool.

Also, Mr. Layton, you stated that your

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economic interest would be diluted by the presence of Mr.

Thornton in a 160-acre unit. There's a certain amount of risk involved in spending whatever money it's going to take to reenter this well and put it back on production, and a risk in the payout. Your --- your risk would also be diluted ---

A. Oh, yes.

-- if he put up the money in advance of -- his share of the money.

Right. I have a theory about that, Mr. Nutter, that if you take no risk at all, you can't lose anything, either, so neither do you make anything, but I don't think risk worries any bona fide operator very much, because we take that every day. We take it when we get out of bed in the morning.

well, you ought to hear them talk about a risk in these compulsory pooling cases.

it from a different angle right now. But I'd like to mention that Mr. Thornton's testimony, he suggests that he could not drill a well on his tract because the economics will not justify it. But it seems to me that the economics for half a well are just exactly the same as they are for drilling a whole well.

Q What is the cumulative production from the well that you've got now, the one you're going to reenter?

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Now when you reenter that and set your whipstock or your Dyna-drill, whatever, what direction will you take off in?

Doesn't particularly matter because we will only be angling it one to two degrees, which would just keep us away from the junk, is all. At bottom hole, at the most 200 feet from the original wellbore, so it really is of no significance to us at all.

If you set it in any specified direction you would have to have a hearing prior to doing this. If you drilled in an indeterminate direction to sidetrack ---

I see.

-- junk in the hole, I think you wouldn't O. have to have a hearing.

I wasn't -- I haven't previously had exparience with that so I wasn't certain what the rule was, and I have not checked that with the district office to see what they would require.

MR. NUTTER: Are there any further questions of Mr. Layton? He may be excused.

Do you have anything further in this case,

Mr. Hunker?

MR. HUNKER: No more, thank you, sir. MR. NUTTER: Does anyone have anything

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they wish to offer in Case Number 7191?

We'll take the case under advisement.

(Hearing concluded.)

5:ALLY W. BOYD, C.S.R.

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Santa Fc. New Mexico 87501

Phone (305) 435-7409

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CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that
the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript
tion Division was reported by me; that the hearing, prepared
is a full, true, and correct record of the hearing, prepared
by me to the best of my ability.

Sary by Boyd C.S.R.

Oil Conservation Division Examiner

October 1, 1980

New Mexico Oil Conservation Division Energy and Minerals Dept.

P 0 Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. J. D. Ramey Attr: Dan Noter Re: Requested Non-Standard Proration Units Pyron Lease, SE Sec 10, S2SW4 Sec 11, N2NW1 Sec 14, T95, R34E Lea County, New Mexico Vada Penn Field

May 51 976

Layton Enterprises, Inc. holds an oil and gas lease on the captioned lands totaling 320 acres, more or less. Three plugged and abandoned wells are located on the lease as shown on the attached plat.

Our projected development program for this lease is as follows:

- 1. Re-enter Well #1 located 660' FNL and 1830' FWL, Sec 14, T95, R34E on a non-standard 80 acre proration unit.
- Re-enter Well #2 (formerly Superior Oil Co. Pyron #1) located 510' FSL & 1980' FWL Sec. 11, T9S, R34E on a non-standard 80 acre proration unit.
- Re-enter Well #3 (formerly BTA Odell #1) located 660' FSL and 1980' FEL, Sec 10, T9S, R34E on a non-standard 80 acre proration unit. 3.
- Drill Well #4 at a point 1980' FSL and 660' FEL, Sec 10, T9S, R34E, on a

It should be noted that the order of the projected development is chronological by well numbers and may not be the actual order in which the work is eventually done.

We request approval of the aforementioned non-standard proration units on the basis

- That additional allowable advantage will not be gained because the of the following considerations: reservoir is in a near depleted state and production volumes will be
 - That all of the four non-standard units may reasonably be presumed to be productive of oil from the Vada-Penneylvanian Pool and that the entire. non-standard oil proration units can be efficiently and economically drained and developed by the aforementioned wells.
 - That approval of the subject application will afford us the opportunity to produce our just and equitable share of the oil in the Vada Pennsylvanian Pool, and will prevent waste and otherwise protect correlative rights.
 - That within the same contiguous reservoir there are areas with different pool designations where 40 acre or 80 acre proration units have always
 - That a precedent of 80 acre proration unit in the Vada Pennsylvanian Pool 5. That a precedent of 80 acre proration unit in the value rolling.

 has been previously established with the granting of such by Order has been previously established with the granting of such by Order has been previously established with located within one mile of the such limit. To cated within one mile of the such limit. No. R-6000 in Case No. 6527, such unit located within one mile of the

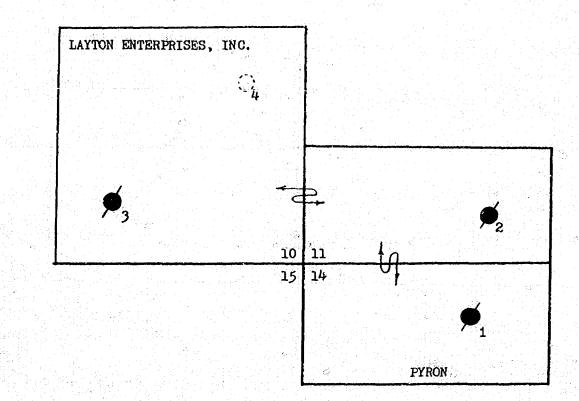
Attached are plats of the lease, the surrounding area, and a list of offset operators or mineral owners to whom copies of this application have been sent by certified mail.

LAYTON ENTERPRISES, INC.

Donald R. Layton President

DRL/11

Attachments (3)



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Tenneco Oil 6800 Park Ten Blvd. Suite 200 North San Antonio, Texas 78213

Maurice L. Brown Co. Crossroads, New Mexico 88114

United States Geological Survey Box 1157 Hobbs, New Mexico 88240

Mattie Price P O Box 13 Tatum, New Mexico 88267

R. L. Thornton 1920 Commerce Bldg. Ft. Worth, Texas 76102

John Wooley et al S. Star Route Box 42B Portales, New Mexico 88130

A CONTRACT OF THE PROPERTY OF

Docket No. 37-80

Dockets Nos. 40-80 and 41-80 are tentatively set for December 10 and 30, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - NOVEMBER 18, 1980

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 7088: Application of Southern Union Exploration Co. for reconsideration of Division Order No. R-6175, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks (c) that Order No. R-6175 be set aside, or (b) to except the R/2 of Section 32, Township 25 South, Range 24 East, Eddy County, New Mexico, from the terms of said order, or (c) clarify said order with respect to the E/2 of Section 32, Township 25 South, Range 24 East.

Docket No. 38-80

DOCKET: COMMISSION HEARING - MONDAY - NOVEMBER 24, 1980

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 7075: (Continued and Readvertised)

Application of Benson-Montin-Greer Drilling Corporation for the amendment of pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the Special Rules and Regulations for the West Puerto Chiquito-Mancos Oil Pool as promulgated by Order No. R-2565-8 and amended by Order No. R-6469, to require that wells completed or recompleted on standard units in said pool be located in the west half of the section at least 1650 feet from the outer boundary of the spacing and proration unit, and that the drilling of wells be controlled so as to allow no more than a 330-foot horizontal deviation from the surface location. Further, that the location of wells on certain specified non-standard proration units approved by Order No. R-6469 should be no closer than 660 feet to the outer boundary of the non-standard unit nor closer than 330 feet to a quarter section line or 10 feet to a quarter-quarter section line. Said specified non-standard units are time two 640-acre units in Township 24 North, Range 1 West; the two 480-acre units in Township 24 North, Range 1 East; the four 640-acre units in Township 26 North, Range 1 East; the two 640-acre units, the three 600-acre units, and the 400-acre unit, all in Township 27 North, Range 1 West. Applicant further seeks an administrative procedure whereby unorthodox locations could be approved upon receipt of written waivers from all offsetting operators being "crowded" by the unorthodox location.

Docket No. 39-80

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 25, 1980

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

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

CASE 7055: (Continued from October 29, 1980, Examiner Hearing)

Application of Union Gil Company of California for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Eaves-Lea Unit Area, comprising 2209 acres, more or less, of State and Federal lands in Township 21 South, Ranges 32 and 33 East.

CASE 7077: (Continued from November 12, 1980, Examiner Hearing)

Application of Threshold Development Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Conoco "10" State Com Well No. 1 located in Unit I of Section 10, Township 19 South, Range 29 East, Turkey Track Field, to produce oil from the Wolfcamp formation and gas from the Atoka formation through parallel strings of tubing.

CASE 7089: Application of Summit Energy, Inc. for a waterflood project, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Blinebry formation through its Gulf Bunin Well No. 2 located in Unit C of Section 13, Township 21 South, Range 37 East.

CASE 7090: Application of Dorchester Exploration, Inc. for directional drilling and an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to reenter the old Union Hill Well No. 1, the surface location of which is 2310 feet from the North and West lines of Section 27, Township 12 South, Range 28 East, and to directionally drill in an indeterminate direction from a kick-off point at 7300 feet, bottoming said well at an approximate depth of 3100 feet in the Mississippian formation less than 330 feet away from the surface location. The W/2 of said Section 27 would be dedicated to the well.

CASE 7091: Application of Layton Enterprises, Inc. for a non-standard proration unit, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks approval for an 80-acre non-standard oil proration unit comprising the N/2 NW/4 of Section 14, Township 9 South, Range 34 East, Vada-Pennsylvanian Pool, to be dedicated to an old well to be re-entered 660 feet from the North line and 1830 feet from the West line of said Section 14.

Application of Petro Lewis Corporation for downhole commingling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry and Drinkard production in the wellbore of its L. G. Warlick "B" Well No. 2 located in Unit G of Section 19, Township 21 South, Range 37 East.

CASE 6940: (Continued from October 1, 1980, Examiner Hearing)

CASE 7051: (Continued from October 15, 1980, Examiner Rearing)

Application of Adobe 0il Company for compulsory pooling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Wolfcamp formation underlying the NW/4 SE/4 for oil and the SE/4 for gas, Section 23, Township 20 South, Range 38 East, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 6996: (Continued from October 1, 1980, Examiner Hearing) (To be continued to December 10, 1980, Examiner Hearing)

Application of John E. Schalk for compulsory pooling, Rio Arriba County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Blanco Messaverde Pool underlying the NE/4 of Section 8, Township 25 North, Range 3 West, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 6653: (Continued and Readvertised)

In the matter of Case 6668 being reopened pursuant to the provisions of Order No. R-6139 which order promulgated temporary special rules and regulations for the South Culebra Bluff-Bone Spring Pool in Eddy County, New Mexico, including a provision for 80-acre spacing units. Operators in said pool may appear and show cause why the pool should not be developed on 40-acre spacing units.

CASE 7092: Application of Delta Drilling Company for pool extension, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks the extension of the South Culebra Bluff-Bone Spring Pool to include all of Sections 2, 11, 13, 14, 23, and 24, Township 23 South, Range 28 East.

CASE 7093: Application of Mesa Petroleum Company and Yates Petroleum Corporation for designation of a tight formation, Torrance, Guadalupe, DeBaca, Lincoln, and Chaves Counties, New Mexico. Pursuant to Section 107 of the Natural Gas Policy Act of 1978 and 18 CFR Section 271.701-705, applicants, in the above-styled cause, seek the designation as a tight formation of the Abo formation underlying the following described lands in the above-named counties:

all of Townships 1 North thru 4 North, Ranges 14 East thru 27 East; all of Townships 5 North thru 7 North, Ranges 14 East thru 26 East; all of Townships 1 South thru 5 South, Ranges 14 East thru 27 East; all of Township 6 South, Ranges 14 thru 28 East; N/2 only of Township 7 South, Ranges 14 East thru 17 East; all of Townships 7 South and 8 South, Ranges 18 East thru 28 East; all of Townships 9 South and 10 South, Ranges 18 East thru 27 East; all of Township 11 South, Ranges 18 East thru 25 East; all of Township 12 South, Ranges 18 East thru 24 East; all of Township 13 South, Ranges 18 East thru 23 East; also all of Township 9 1/2 South, Range 24 East.

- CASE 7094: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, assigning a discovery allowable, contracting, and extending certain pools in Chaves, Eddy, and Lea Counties, New Mexico:
 - (a) CREATE a new pool in Lea County, New Hexico, classified as an oil pool for Yates production and designated as the Northeast Lusk-Yates Pool. Further, to assign approximately 14,790 barrels of discovery allowable to the discovery well, Sun Oil Company Jennings B Federal Well No. 1 located in Unit K of Section 15, Township 19 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RAPGE 32 EAST, NHPM Section 15: SW/4

(b) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Yates production and designated as the North Querecho Plains-Yates Gas Pool. The discovery well is Lewis B. Burleson, Inc. Berry Federal Well No. 1 located in Unit E of Section 35, Township 18 South, Range 32 East, NAPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 32 BAST, NHPM Section 35: NW/4

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Atoka production and designated as the Triple X-Atoka Gas Pool. The discovery well is Getty Oil Company HNG 4F State Well No. I located in Unit F of Section 4, Township 24 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 33 EAST, NMPM Section 4: W/2

(d) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Devonian production and designated as the Tulk-Devonian Pool. The discovery well is Santa Fe Energy Company State NM3 Well No. 1 located in Unit P of Section 3, Township 15 South, Range 32 East, NMPH. Said pool would comprise:

TOWNSHIP 15 SOUTH, RANGE 32 EAST, NMPM Section 3: SE/4

(e) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Vaca Draw-Morrow Gas Pool. The discovery well is HNG Oil Company Bell Lake 11 Federal Well No. 1 located in Unit B of Section 11, Township 25 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 25 SOUTH, RANGE 33 BAST, NHPM Section 11: N/2

(f) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Bone Spring production and designated as the North Young-Bone Spring Pool. The discovery well is Harvey R. Yates Company Young Deep Unit Well No. 1 located in Unit D of Section 10, Township 18 South, Range 32 East, NOPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NHPM Section 10: NW/4

(g) CONTRACT the Anderson Ranch-Wolfcamp Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM Section 3: Lots 9, 10, 15, and 16

(h) CONTRACT the Querecho Plains-Yates Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM Section 35: NW/4

(i) CONTRACT the South Red Lake-Seven Rivers Pool in Eddy County, New Mexico, by the deletion of the following described area:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 15: W/2 SW/4 Section 22: NW/4

eceton est may

(j) EXTEND the Airstrip-Lower Bone Spring Pool in Lea County, New Mexico, to include therein

TOWNSHIP 18 SOUTH, RANGE 34 BAST, NHPH Section 23: SE/4

(k) EXTEND the North Anderson Ranch-Wolfcamp Pool in Les County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM Section 2: Lots 11, 12, 13, and 14 Section 3: Lots 9, 10, 15, and 16

(1) EXTEND the Antelope Ridge-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM Section 24: SW/4 Section 25: NW/4

(m) EXTEND the West Arkaneas Junction-San Andres Pool in Les County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 36 EAST, HMPM Section 20: SW/4 Section 29: NW/4

(n) EXTEND the Bass-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM Section 21: E/2 Section 28: All

(o) EXTEND the Bell Lake-Bone Spring Pool in Les County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM Section 29: N/2
Section 30: E/2
Section 31: NE/4

(p) EXTEND the Blinebry Oil and Gas Pool in Les County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM Section 22: SE/4

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM Section 8: NW/4

(q) EXTEND the Bull's Eye-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 29 EAST, NMPM Section 6: F/2 SW/4 Section 7: E/2 NW/4

(r) EXTEND the Denton-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 37 EAST, NMPM Section 22: SE/4

(s) EXTEND the Diamond Mound-Morrow Gas Pool in Chaves and Edily Counties, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 27 EAST, NMPM Section 35: S/2

TOWNSRIP 15 SOUTH, PANGE 28 EAST, NMPM Section 31: E/2

TOWNSHIP 16 SOUTH, RANGE 28 EAST, NMPM
Section 3: Lote 1, 2, 3, 4, 5, 6, 7,
8, 9, 10, 11, 12, 13, 14,
15, and 16
Section 4: Lote 1, 2, 7, 8, 9, 10,
15, and 16

. . .

*

Page 5 of 6 Examiner Hearing - Tuesday - November 25, 1980

Docket No. 39-80

(t) EXTEND the Dublin Ranch-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 28 EAST, NMPM Section 28: All Section 29: N/2

(u) EXTEND the Eagle Creek Permo-Pennsylvanian Cas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 24 EAST, NHPM Section 36: E/2

(v) EXTEND the South Empire-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM Section 18: All

(w) EXTEND the East Empire Yates-Seven Rivers Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 22: NW/4

(x) EXTEND the East Grama Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NHPM Section 2: SE/4

EXTEND the Hardy-Blinebry Pool in Lea County, New Mexico, to include therein: (y)

> TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM Section 1:

(z) EXTEND the Hardy-Drinkard Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NHPM Section 1: S/2 Section 1:

(as) EXTEND the Leamex-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 BAST, NMPM Section 21: S/2 NW/4

(bb) EXTEND the Loco Hills Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 RAST, NMPM

Section 2: Section 3: SW/4 SW/4

A11

Section 4:

Section 11: NW/4 NW/4

(cc) EXTEND the South Loco Hills Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM Section 31: NE/4 NE/4

(dd) EXTEND the Northeast Lovington-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 37 EAST, NMPM Section 29: NW/4

(ee) EXTEND the Pensaco Draw Permo-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 24 EAST, NHPM

Section 25: S/2 dection 36: All

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 1: N/2

Docket No. 39-8

(ff) EXTEND the Saunders Permo-Upper Pennsylvanian Pool in Les County, New Mexico, to incluste therein: Page 6 of 6 Examiner Hearing - Tuesday - November 25, 1980

TOWNSHIP 14 SOUTH, RANGE 33 EAST, MAPM Section 28: NW/4 therein:

(38) EXTEND the Scharb-Bone Spring Pool in Lea County, New Mexico, to include therein:

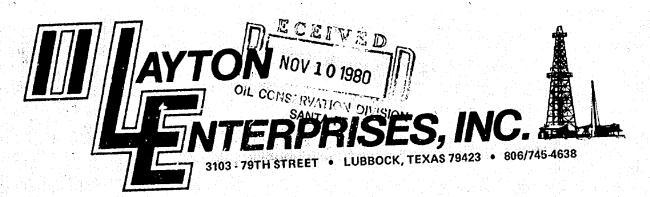
TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
Section 4: SE/4
Section 5: SE/4 (tih) EXTEND the Tom-Tom San Andres Pool in Chaves County, New Mexico, to include therein:

TUMBHIP 7 SOUTH, RANGE 31 EAST, NAPM Section 29: SE/A

(ii) EXTEND the Twin Lakes-San Andres Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 29 EAST, NAPM Section 19: W/2 NE/4 and NW/4 SE/4 Section 31: E/2

(jj) EXTEND the Vacuum-Abo Reef Pool in Les County, New Mexico, to include therein: TOWNSHIP 18 SOUTH, RANGE 35 EAST, NAPM Section 9: SW/4



Nov. 4, 1980

New Mexico Cil Conservation Division Energy & Minerals Dept. P O Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. J. D. Ramey

Requested Non-Standard Proration Unit N¹/₂ NW¹/₄ Sec 14, T9S, R34E Lea County, New Mexico Res

Case >09/

Gentlemen

We have previously requested approval of the captioned proration unit. In view of a pending objection, we request a hearing on this matter on the November 25, 1980 docket.

Very truly yours,

LAYTON ENTERPRISES INC

Donald R. Layton

President



Robert L. Thornton Company

1920 Commerce Bldg. • Fort Worth, Texas 76102 • 817/870-1216

October 21, 1980

New Mexico Oil Conservation Division Energy and Minerals Dept. P.O. Box 2008 Santa Fe, N.M. 87501

Attn: Mr. Dan Nutter Mr. J. D. Ramey Case 7091

RE: Requested Non-Standard Proration Unit, Lea Co,N.M., NINW Sec 14, T9S. R34E, N.M.P.M.

Dear Mr. Nutter:

In a letter to the N.M. Oil Conservation Division dated October 1, 1980, Mr. Donald R. Layton requested that a non-standard 80 acre proration unit be allowed with respect to the N½NW½ Section 14, T 9S, R 14E, N.M.P.M.

I am the owner of the 80 acre tract ShNw of the same section. It is my contention that the allowance of the formation of this proposed non-standard proration unit may adversely affect my position.

Therefore, I hereby request that a hearing on the Layton application be held to determine the relative merits of approval or denial of the request in concern.

It is my understanding that at this time, this request is the only action necessary by myself to initiate this hearing and that no reasons need be stated at this time. If this impression is incorrect please advise me of such.

I would also like it understood that my action is only in regard to this one 80 acre tract, and I do not at this time feel my postion would be jeopardized by Mr. Layton and therefore do not object to administrative procedures for their approval.

Thank you very much for your attention to this matter. I shall be awaiting notification of the proposed hearing date.

Very truly yours,

Robert L. Thornton

cc: Layton Enterprises, Inc. Attn: Donald R. Layton

Oil Properties

Carnety, haw mexico. applicant, in the stone styled cause, sacks approval for an 80-sere non-shandard al provation unit comprising the N/2 NW/4 of Section 14, Township 9 South, Range 34 East, Vaka Pennayhania Port to be dedicated to and an ald will to be re-entered 660 fact from the horth line and 1830 feet from the west line of said Section 4. copy of docket to Kayton, also to: Rosert R. Thornton 1920 Commune Bldg Fact loss the, Tay as 76/02



October 1, 1980

New Mexico Oil Conservation Division Energy and Minerals Dept. P O Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. J. D. Ramey

Re: Requested Non-Standard Proration Units
Pyron Lease, 554 Sec 10, S2SW4 Sec 11,
N2NW4 Sec 14, T9S, R34E sylvanian Pool Lea County, New Mexico Vada-Penn Eleld

Gentlemen:

Layton Enterprises, Inc. holds an oil and gas lease on the captioned lands totaling 320 acres, more or less. Three plugged and abandoned wells are located on the lease as shown on the attached plat.

Our projected development program for this lease is as follows:

Re-enter Well #1 located 660' FNL and 1830' FWL, Sec 14. T9S. R34E on a non-standard 80 acre proration unit.

Re-enter Well #2 (formerly Superior Oil Co. Pyron #1) located 510' FSL & 1980' FWL Sec. 11, T95, R34E on a non-standard 80 acre proration unit.

Re-enter Well #3 (formerly BTA Odell #1) located 660' FSL and 1980' FEL, Sec 10, T9S, R34E on a non-standard 80 acre proration unit.

Drill Well #4 at a point 1980' FSL and 660' FEL, Sec 10, T9S, R34E, on a non-standard 80 acre proration unit.

It should be noted that the order of the projected development is chronological by well numbers and may not be the actual order in which the work is eventually done.

We request approval of the aforementioned non-standard proration units on the basis of the following considerations:

- That additional allowable advantage will not be gained because the reservoir is in a near depleted state and production volumes will be far below established unit allowable.
- 2. That all of the four non-standard units may reasonably be presumed to be productive of oil from the Vada-Pennsylvanian Pool and that the entire non-standard oil proration units can be efficiently and economically drained and developed by the aforementioned wells.
- 3. That approval of the subject application will afford us the opportunity to produce our just and equitable share of the oil in the Vada Pennsylvanian Pool, and will prevent waste and otherwise protect correlative rights.
- That within the same contiguous reservoir there are areas with different pool designations where 40 acre or 80 acre proration units have always been standard.
- That a precedent of 80 acre proration unit in the Vada Pennsylvanian Pool has been previously established with the granting of such by Order No. R-6000 in Case No. 6527, such unit located within one mile of the area covered by this application.

Attached are plats of the lease, the surrounding area, and a list of offset operators or mineral owners to whom copies of this application have been sent by certified mail.

Very truly yours,

LAYTON ENTERPRISES, INC.

Donald R. Layton

President

DRL/11

Attachments (3)

DRAFT

dr/

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.	7091		
CASE NO.	1 51-1	0	
order No.	R-656	2	

APPLICATION OF LAYTON ENTERPRISES, INC. FOR A NON-STANDARD PROPATION UNIT, COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

This cause came on for hearing at 9 a.m. on November 25 19_80, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter BY THE DIVISION: day of December 1980 , the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject
- (2) That the applicant, Layton Enterprises, Inc. seeks approval of an 80 ______acre non-standard was proration unit matter thereof. of Section 14 Town Town Vadu-Pennsylvanian Post, the County, New merics, ship 9 South Range 34 East Vada-Faminyhaman Foot, Kea Gaminyhaman comprising the N/2 NW/4 1830 feet from the West line of said Section 14: That, the entire NW/4 of Said Spation 14 may.
 - Gas Pool. and that the entire non-standard was proration unit can be efficiently and economically drained and developed by the

aforesaid well-

- (4) That the owner of the S/2 NW/4 of said Section 14 appeared at the hearing and objected to the formation of the proposed 80-acre non-standard proration unit comprising the NXXX N/2 NW/4 of Section 14.
- (5) That the entire NW/4 of Section 14, comprising a standard 160-acre proration unit, was originally dedicated to the well which applicant proposes to re-enter and to dedicate the N/2 NW/4 only.
- (6) That said well was prematurely abandoned in 1978 due to equipment failure in the well bore.
- (7) That approval of the application and formation of the proposed 80-acre non-standard proration unit would leave the S/2 NW/4 of Section 14 undedicated to any well unless the owner thereof drilled a well on said lands.
- (8) That the Vada-Pennsylvanian Pool in the area of the subject application was developed approximately ten to twelve years ago and has undergone considerable depletion since original development.
- (9) That although there probably are recoverable reserves remaining under the S/2 NW/4 of Section 14, such reserves are probably insufficient to render the drilling and completion of a well thereon economical.
- (//>
 That approval of the application would impair the correlative rights of the owner of the S/2 NW/4 of Section 14.
- (14) That to protect his correlative rights if the application were approved, the owner of the S/2 NW/4 of Section 14 would be required to drill a well thereon.
- (11) That said well, being unnecessary, would cause economic waste.
- (1%) That the application should be denied, and the applicant, owner of the N/2 NW/4 of Section 14, and the owner of the S/2 NW/4 of Section 14 should communitize their lands to form a standard 160-acre unit for the Vada-Pennsylvanian Pool to be dedicated to the subject well.

IT IS THEREFORE ORDERED:

- (1) That the application of Layton Enterprises, Inc., for a non-standard 80-acre unit comprising the N/2 NW/4 of Section 14, Township 9 South, Range 34 East, NMPM, Vada-Pennsylvanian Pool, Lea County, New Mexico, is hereby denied.
- (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 hereinabove designated.