

CASE 7398: EL PASO NATURAL GAS CO., ANY
FOR AN UNORTHODOX GAS WELL LOCATION,
EDDY COUNTY, NEW MEXICO

Company

W.N.M.C.F.



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*W.N.M.C.F.
2,100,000
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Case No.

7398

Application
Transcripts.

Small Exhibits

ETC



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

November 19, 1981

Mr. David Burleson
El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas 79978

Re: CASE NO. 7398
ORDER NO. ~~R-6816~~

Applicant:

El Paso Natural Gas Company

Dear Sir:

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

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD	X
Artesia OCD	X
Aztec OCD	

Other

W.N.M.C.F.



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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
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7398
Order No. R-6816

APPLICATION OF EL PASO NATURAL
GAS COMPANY FOR AN UNORTHODOX
GAS WELL LOCATION, EDDY COUNTY,
NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 4, 1981, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 18th day of November, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, El Paso Natural Gas Company, seeks approval of an unorthodox gas well location 660 feet from the South line and 660 feet from the West line of Section 23, Township 26 South, Range 30 East, NMPM, to test the Wolfcamp and Pennsylvanian formations, Ross Draw Area, Eddy County, New Mexico.

(3) That the S/2 of said Section 23 is to be dedicated to the well.

(4) That a well at said unorthodox location will better enable applicant to produce the gas underlying the proration unit.

(5) That no offset operator objected to the proposed unorthodox location.

-2-
Case No. 7398
Order No. R-6816

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(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the application of El Paso Natural Gas Company for an unorthodox gas well location for the Wolfcamp and Pennsylvanian formations is hereby approved for a well to be located at a point 660 feet from the South line and 660 feet from the West line of Section 23, Township 26 South, Range 30 East, NMPM, Ross Draw Area, Eddy County, New Mexico.

(2) That the S/2 of said Section 23 shall be dedicated to the above-described well.

(3) 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.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JCE D. RAMEY
Director


S E A L

fd/

W.N.M.C.F.



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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
4 November 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of El Paso Natural Gas
Company for an unorthodox gas well
location, Eddy County, New Mexico.

CASE
7398

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

W. Perry Ferree, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

David T. Burleson, Esq.
EL PASO NATURAL GAS CO.
El Paso, Texas

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I N D E X

R. D. JANSSEN

Direct Examination by Mr. Burleson

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LESTER M. BROOKS, JR.

Direct Examination by Mr. Burleson

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Cross Examination by Mr. Nutter

20

E X H I B I T S

Applicant Exhibit One, Plat

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Applicant Exhibit Two, Waivers

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Applicant Exhibit Three, Structure Map

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Applicant Exhibit Four, Isopach

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Applicant Exhibit Five, Cross Section

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MR. NUTTER: Call Case Number 7398.

MR. PEARCE: Application of El Paso Natural Gas Company for an unorthodox gas well location, Eddy County, New Mexico.

MR. BURLESON: David Burleson with Applicant, El Paso Natural Gas Company, in association with Montgomery and Andrews.

We will have two witnesses.

(Witnesses sworn.)

R. D. JANSSEN

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

DIRECT EXAMINATION

BY MR. BURLESON:

Q Please state your name and where you reside.

A. R. D. Janssen, Midland, Texas.

Q By whom are you employed and in what capacity?

A. I'm with El Paso Exploration Company as a petroleum landman. My title is Regional Land Manager, but

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1 in this proceeding I appear on behalf of El Paso Natural Gas
2 Company.
3

4 Q Have you previously testified before the
5 Division?
6

7 A I'm not sure; maybe in 197 -- 1957 or
8 1958 I may have appeared, but I don't remember.
9

10 Q Mr. Janssen, you are a landman by profes-
11 sion, is that correct?
12

13 A That's correct.
14

15 Q How long have you worked as a landman
16 and would you give us an indication of the companies for which
17 you have worked?
18

19 A I started with El Paso in 1956 and have
20 been with them ever since.
21

22 Q Would you describe in general terms the
23 nature of your duties and responsibilities as a landman?
24

25 A I'm responsible for the handling of oil
and gas leases in the Southwest Region; check county records;
acquire leases; cure title; put together units; communitize
acreage; negotiate farmouts; and acquire right-of-way; settle
damages.

Q Are you familiar with El Paso's applica-
tion in this case?

A I am.

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19 and gas leases in the Southwest Region; check county records;
20 acquire leases; cure title; put together units; communitize
21 acreage; negotiate farmouts; and acquire right-of-way; settle
22 damages.

23 Q Are you familiar with El Paso's applica-
24 tion in this case?

25 A I am.

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MR. BURLESON: Are the witness' qualifications acceptable?

MR. NUTTER: They are.

Q Have you determined if there are field rules for the Ross Draw Wolfcamp Gas Pool, which embrace the area we're dealing with here, that being the proposed unit which would be dedicated to the proposed well?

A. There are no field rules.

Q What would an orthodox location be if the well were to be drilled at an orthodox location in this -- in this unit?

A. Required to be located not closer than 660 feet to the nearest side boundary of the dedicated tract nor closer than 1980 feet to the nearest end boundary, or closer than 330 feet to any quarter quarter section or subdivision inner boundary.

Q Now where is El Paso proposing to locate this well?

A. 660 feet from the end boundary, 660 feet from the lateral boundary.

Q And that would be an unorthodox location, would it not?

A. That's correct

Q And the well is proposed to be drilled

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to which formations?

3

A. Wolfcamp.

4

Q. That's the primary objective and there

5

are secondary objectives, too, are there not?

6

A. Correct.

7

Q. And those secondary objectives are which

8

formations?

9

A. The Atoka, Morrow.

10

Q. And the Strawn?

11

A. And the Strawn, that's correct.

12

Q. All right. What's the designated drilling

13

tract which El Paso proposes?

14

A. The south half of Section 23, Township

15

26 South, Range 30 East, Eddy County, New Mexico.

16

Q. Would this be a standard unit?

17

A. Yes, it would.

18

Q. For all of the formations?

19

A. That is correct.

20

Q. Have you made a study to determine the

21

lease ownership offsetting the proposed spacing unit and --

22

A. I have.

23

Q. And I believe you prepared an exhibit

24

that indicates the spacing unit, the proposed location of the

25

well, and indicates the location of the proposed unit in re-

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lation to the surrounding acreage, is that correct?

A. I have.

Q. And that would be Exhibit Number One, would it?

A. Yes.

Q. Would you please turn to that exhibit and indicate what's displayed on it, and then, if you would, please, tell us who the offsetting owners are surrounding this proposed unit?

A. All right. The plat shows in green our proposed proration unit. The red circle is our proposed location. To the west, Section 22, 27, and south of 26 is the Ross Draw Federal Unit, which J. C. Williamson operates. Florida Gas is the sub-operator, and also it shows in yellow our lease.

Amoco owns the lease to the east. The ownership in the Ross Draw Federal Unit, J. C. Williamson, ARCO, Ralph Williamson, Florida Gas, Darrell Underwood, and some minor parties.

And to the north it's Florida Gas Exploration, J. C. Williamson, Ralph Williamson, D. W. Underwood, Estoril, Walter Duncan, III, Florida Exploration Company, and Chessy Exploration Company.

Q. And to the southeast?

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A. Southeast is also Amoco.

3

Q. Okay. Now those owners that you last

4

named who have an interest in the acreage immediately north

5

of the proposed drilling tract, they are the working interest

6

owners in the Ross Draw Federal Unit, is that correct?

7

A. That's correct.

8

Q. Have you contacted all of these offset-

9

ting lease owners to request waivers of the proposed unortho-

10

dox location?

11

A. I have.

12

Q. What has been the response to that re-

13

quest?

14

A. I have received a waiver from every

15

owner.

16

Q. Now you have an exhibit, I believe, which

17

collectively indicates the executed waivers by all of these

18

offsetting interest owners, do you not?

19

A. That is correct, Exhibit Number Two.

20

Q. All right.

21

Do you have anything further to add -- to

22

offer in this case?

23

A. No, I don't.

24

Q. Were Exhibits One and Two prepared by

25

you or under your direction?

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A. They were.

MR. BURLESON: I move admission of Exhibits One and Two into evidence and that concludes our examination of this witness.

MR. NUTTER: Exhibits One and Two will be admitted in evidence.

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

MR. BURLESON: We now call Mr. Lester M. Brooks.

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

DIRECT EXAMINATION

BY MR. BURLESON:

Q. Please give your name for the record and where you reside. You might spell your name, too.

A. It's Lester M. Brooks, B-R-O-O-K-S, Jr.
And I reside in Midland, Texas.

Q. By whom are you employed and in what capacity?

A. I'm employed by El Paso Exploration

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1
2 Company as a geologist and am the Southwest Regional Geologi-
3 cal Manager, and I appear in this case in behalf of El Paso
4 Natural Gas Company, an affiliated company.

5 Q. Have you previously testified before this
6 Division or one of its examiners?

7 A. No, I have not.

8 Q. Do you have a degree in geology?

9 A. Yes. I received a Bachelor of Science
10 degree from Louisiana State University in 1948 in geology.

11 Q. Have you worked subsequent to graduation
12 as a geologist?

13 A. Yes. Following graduation, for the most
14 part, I worked four years for Texaco in the Gulf Coast, and
15 then two years with a consulting firm, Blowing (sic) and
16 Claudet in New Orleans, and I've been with El Paso Natural
17 Gas and other affiliated companies with the El Paso group for
18 approximately twenty-seven years in various capacities and
19 work areas.

20 Q. And all of this work experience was as
21 a geologist, is that correct?

22 A. Yes, geologist, or managerial work per-
23 taining to geological activities.

24 Q. Are you a member of any professional or-
25 ganizations?

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1 A. Yes, I've been an active member of the
2 American Association of Petroleum Geologists since 1950, and
3 I am a Certified Professional Geologist, Number 2604, of the
4 American Institute of Professional Geologists.
5

6 Q Now, the Ross Draw area is within your
7 geographical area of responsibility, is it not?

8 A. That's correct, uh-huh.

9 Q Are you familiar with El Paso's applica-
10 tion in this case?

11 A. I am.

12 MR. BURLESON: Mr. Examiner, we tender
13 the witness as an expert witness.

14 MR. NUTTER: Mr. Brooks is qualified.

15 Q What is El Paso seeking in Case Number
16 7398?

17 A. We're seeking permission for an unortho-
18 dox location for the drilling of a well at a location 660
19 feet north of the south line and 660 feet east of the west
20 line in Section 23, Township 26 South, Range 30 East, Eddy
21 County, New Mexico.

22 Our primary objective in this well would
23 be the Wolfcamp detrital, which we would estimate encountering
24 by measured depth of 12,500 feet from the surface.

25 Now should this formation not be pro-

[illegible]

5 Q. If hydrocarbons were encountered in any
6 of these formations, either the primary objective or the
7 secondary objectives, would you expect those hydrocarbons
8 would be gas and condensate?

10 Q Why is El Paso seeking permission to
11 drill at the proposed unorthodox location?

Q. The proposed location appears to offer us the highest structural position for the primary objective, the Wolfcamp detrital, in the proposed unit, the south half of Section 23.

Also, the location would give us more assurance of obtaining maximum porosity development in the Wolfcamp detrital. Now, these conditions should maximize the recovery of hydrocarbons from the unit.

20 Q Have you made a geological study, or
21 studies, upon which you base these conclusions that you've
22 expressed?

24 Q Would you turn to the first of those
25 exhibits, please, and it would be Exhibit Number Three, I

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believe, and tell us what that exhibit is? The significance of that exhibit.

A. Exhibit Number Three is a structural interpretation on the top of the Wolfcamp detrital in the Ross Draw area of Eddy County, New Mexico, and Loving County, Texas.

This structural information shows us more or less a north/south strike of the beds on the Wolfcamp detrital with east dip.

Now our proposed location in Section 23 should encounter the primary objective at approximately -8900 feet. Now this structural position should be some 63 feet low to Florida Gas No. 8 Ross Draw that could be seen in the northeast quarter of Section 27, approximately 3200 feet southwest of our proposed well.

Now the No. 8 Ross Draw was completed in the Wolfcamp detrital and perforation intervals of 12,003 to 80 feet and 12,144 to 154 feet, for a CAOF of 30-million cubic feet of gas per day.

Also, the proposed location should be approximately 93 feet high to the Florida Gas No. 7 Ross Draw, located in the southeast quarter of Section 26 of Township 26 South, 30 East, and we feel that in this well, too, was a completion in the detrital, in the Wolfcamp detrital, from

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perforations 12,318 feet to 12,354 feet, for a CAOF of 12,473 Mcftpd.

And you'll note, too, on the structure map we have color coded formations that wells are completed in, with the purple being the Wolfcamp detrital, and this also shows us that farther to the east in a removed down-dip position wells have produced from the Wolfcamp detrital.

You'll note this is shown by the Texas Pacific No. 1 Phantom Draw Well in the southwest quarter of Section 20 of Township 26 South, Range 31 East, and the Texas Pacific No. 2 Phantom Draw in the southwest quarter of Section 30 of the same township. It had produced some 17-million cubic feet of gas from the Wolfcamp detrital prior to abandonment in January of 1980.

Now we feel that this formation in the No. 2 Phantom Draw was probably damaged from drilling operations.

Q I don't see any indication there are any Atoka or Strawn wells in the immediate area. I suppose that's correct, is it not?

A That is correct. We do have a Morrow play. As you note, the Florida No. 10 Ross Draw has been recently completed in the Morrow, and the -- but we have no Atoka or Strawn gas.

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Q. Would you please turn to what has been marked Exhibit Four and tell us the significance of that exhibit?

A. Exhibit Four is a net porosity Isopach of the Wolfcamp detrital in the same Ross Draw area and using the wells that we show for control on the structure map.

This work has indicated to us two centers of maximum porosity, two center areas with maximum porosity development, one of which appears to be in the vicinity of our proposed El Paso, No. 1 El Paso Federal 23 Well.

It appears from this work that we may encounter a total of 50 feet of -- of net porosity development with porosities in excess of 5 percent.

Q. Would you expect better porosity at the proposed location than would be encountered at an orthodox location?

A. Yes, this work indicates that would be true.

Q. Please turn to what has been marked as Exhibit Number Five and explain what that exhibit shows.

A. Exhibit Five is a structural cross section of the Wolfcamp detrital. It's about five feet long and may be a little unwieldy to show in its entirety here, but I'd be happy to explain it and perhaps we could hold it

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up, if the Commission would like me to.

We have shown, the line of section, which is the A-A' section, is shown on both the structure map and the Isopach map and we have an index map in addition to that on the cross section.

And we show to correlative horizons on the cross section, one the Wolfcamp shale, as we call it, which is the approximate top of the Wolfcamp, and also the Wolfcamp detrital marker down more toward the basal portion of the Wolfcamp. And I do think that the cross section will show that the reliability of our correlations in these zones in the Wolfcamp.

Now, in addition to that we have shown areas of porosity in the Wolfcamp detrital by red color and we also show completion data at the bottom of the logs, the bottom of the well logs, the date of completion, perforations, the initial completion data, cumulative production, and the status of the well as of July of this year.

Q. Mr. Brooks, referring to the structural map just a second, again, I'm not -- I don't believe I've asked you this question earlier. Would you expect that the more advantageous structural position that would be posed by the proposed location would permit the recovery of additional hydrocarbons that might not otherwise be recoverable?

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2 A. Yes, we do. We think we would have at
3 least a 30 foot or so higher structural position at the unortho-
4 dox location than the orthodox, which of course, would allow
5 more drainage out of the recommended unit.

6 Q. Do your geological studies, including
7 all the exhibits you've just described, indicate a well
8 drilled at the proposed location would more efficiently and
9 effectively drain hydrocarbons in the Wolfcamp formation
10 underlying the proposed unit, being the south half of Section
11 23, Township 26 South, Range 30 East?

12 A. Yes, as I just mentioned, I think Exhibit
13 One does show that we are drilling this well at a very -- at
14 the highest structural position that we can in the south half
15 of Section 23, and we also feel from our Isopach work on the
16 porosities that we should encounter the maximum porosity de-
17 velopment in the Wolfcamp detrital. Both of these conditions
18 should support higher recoveries of hydrocarbons from the
19 Wolfcamp detrital underlying the section -- underlying the
20 proposed unit, I should say.

21 Q. You've heretofore been discussing the
22 merits of the proposed location with respect to the Wolfcamp
23 formation. Would you give us your analysis of the -- whether
24 this position would be favorable with respect to the secondary
25 objectives or not?

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2 A. Well, as you can note, we have limited
3 Pennsylvanian information from wells in this area, but our
4 regional work does show that we could expect similar struc-
5 tural conditions in the Strawn, Atoka, and the Morrow as we
6 found here on our Wolfcamp detrital map, but the lack of good --
7 well, let's say the lesser information does not allow us to
8 predict what the porosity developments in the areas of these
9 porosity developments might be in the deeper formations.

10 Q. But you don't have sufficient informa-
11 tion to determine what -- whether this location would be
12 favorable from the standpoint of porosity, is that correct?

13 A. As -- or more favorable than some other
14 area, that's right. We don't -- just don't have that inform-
15 ation to make that determination.

16 Q. Have you been advised of the estimated
17 cost of the proposed test?

18 A. Yes, we have an estimate of for a 12,500
19 foot Wolfcamp test in the amount of \$2,150,000, and a 15,000
20 foot Morrow test at approximately \$3,660,900.

21 Q. Now I suppose, if the well were drilled
22 down to the Wolfcamp formation and you encountered a very
23 good section there, that there's no question but what the
24 well would be completed in that zone, or at least a completion
25 would be attempted in that formation, is that correct?

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A. That's our present plan, right.

Q And you would probably drill down to the secondary objectives only in the event that the Wolfcamp didn't appear favorable.

A. That's correct.

Q Do you believe the granting of this application is necessary to permit El Paso to recover its just and equitable share of hydrocarbons underlying the south half of Section 23?

A. Yes, I do.

Q Would the granting of this application promote the prevention of waste and protection of correlative rights?

A. Yes.

Q Were Exhibits Three, Four, and Five prepared by you or under your supervision?

A. They were.

MR. BURLESON: We move the introduction of Exhibits Three, Four, and Five, and that concludes our examination of this witness and we have nothing further to present.

MR. NUTTER: El Paso Exhibits Three through Five will be admitted in evidence.

W.N.M.C.F.



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CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Brooks, looking at the logs of the two wells on your cross section at the far right, being the Phantom Draw 1 and Phantom Draw 2, there's not a whole lot of difference in the logs of these wells, but there has been a remarkable difference in the cumulative production from the two wells.

Did I hear you say something that --

A. Yes, sir --

Q -- mechanical problems had been encountered in one well that was plugged?

A. That's what we have been led to understand. There could have been formation damage during the drilling of the -- of the No. 2 Phantom Draw, because as you said the appearance of the logs in both the wells are very similar and there's no other way that we could explain why that formation didn't produce as well as the No. 1 Phantom Draw.

Q Do you know if any effort was ever made to rework that well before it was plugged?

A. No, sir, I have no idea what -- what Texas Pacific would have done or had any thoughts of doing.

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1
2 Q Well now, your unorthodox location
3 really isn't occasioned by the structural position, because
4 there's not all that much difference in the structural posi-
5 tion or the top of the Wolfcamp detrital, is there?

6 A I said it would be approximately thirty
7 feet above the present interpretation.

8 Q But then you've got some good wells that
9 are lower as far as the -- your Exhibit Number Three indicates
10 that that well down in Section 26 would be considerably lower
11 than a standard location, even.

12 A That's right.

13 Q And it's been a pretty good well so far.

14 A Yes, sir, uh-huh.

15 Q But then when you look at the Isopach
16 I can see the necessity for the unorthodox location, then.

17 A That's -- we think the evidence for that
18 is definitely more related to our obtaining a maximum poro-
19 sity situation at the unorthodox location.

20 Q Now I remember I had a hearing some
21 time back on this well in Section 34 there. Apparently that
22 was an unsuccessful well.

23 A Yes, sir, it was. As you can see, it
24 only encountered 12 feet of porosity in the Wolfcamp detrital.

25 Q But structurally it's in a good position.

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A. Structurally, yes.

Q. But there seems to be a saddle of impermeability or --

A. Well --

Q. -- low porosity or something in there.

A. That's what it appears to be as depicted by the Isopach.

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

Do you have anything further, Mr. Burleson?

MR. BURLESON: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7398?

We'll take the case under advisement.

(Hearing concluded.)

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SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

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I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY THAT
the foregoing Transcript of Hearing before the Oil Conserva-
tion 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.

Sally W. Boyd CSR

I do hereby certify that the foregoing is
a complete and correct transcript of the hearing held on
the 11th day of April, 1981, at 11:49 AM.
heard by me on 11/4/81.
[Signature] Examiner
Oil Conservation Division

T-26-S, R-30-E

SUN
11-1-86
27981

13

U.S.

U.S.

U.S.

Amoco
7-1-R3
18626

8-1-82
15343

Born 19
- King
TD 405

Proposed
Location

U.S.

US

U.S.

ARCO
8.1.74
0554499

Amoco
7.1.83
18626

Florida Exp.
No-Ross Drive Ut.
ID 14,540

8
TO 12,220

"ROSS DRAW FEDERAL UNIT"

-27

Fla. Gas Expl., et al
HBP
11042

(Boxter) WO
Puroc
5-10-68 Dec 1/11

US

3
7D 3510

U.S.

A.R. Co.
8-1-74
0554493

Flo Gas Expt, etol
HBP
11042

-25-
Superior
4-1-86
27650

U.S.

Ex. 707. Des EXHIBIT NO.

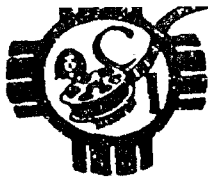
CASE NO. **7398**

LAND DEPARTMENT

Southwest Region

ROSS DRAW AREA
Eddy, County, New Mexico

LEASE OWNERSHIP



BEST AVAILABLE COPY

El Paso
Exploration Company

1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981

Amoco Production Company
P. O. Box 3096
Houston, Texas 77001

Attn: Mr. ~~Phillip Vasquez~~
CHRIS RAPEL


Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

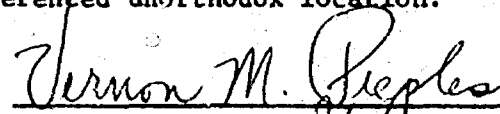
Very truly yours,


R. D. Janssen
Regional Land Manager

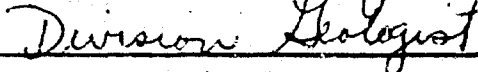
RDJ:js
Enclosure

AMOCO PRODUCTION COMPANY as an offset operator does not
object to the drilling of the above-referenced unorthodox location.

By:



Title:



Date:

10-26-81

BEFORE EXAMINER MUTTER	
OIL CONSERVATION DIVISION	
El Paso Fed. 23	EXHIBIT NO. <u>2</u>
CASE NO.	<u>7398</u>

El Paso
Exploration Company

1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981

Arco Oil & Gas Co.
P. O. Box 1610
Midland, TX 79702

Attn: Mr. Tom Mutranowski



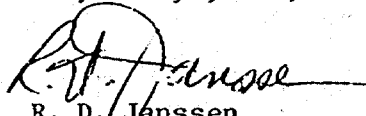
Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

Very truly yours,


R. D. Janssen
Regional Land Manager

RDJ:js
Enclosure

ARCO OIL & GAS COMPANY as an offset operator does not object to the drilling of the above-referenced unorthodox location.

By: H Q Pham / JLT
Title: Area Engineer
Date: 11/3/81

RECEIVED
OCT 15 1981
MIDLAND LAND DEPT.

El Paso
Exploration Company

1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981

D. W. Underwood
1495 Midland Nat'l Bank Tower
Midland, TX 79701

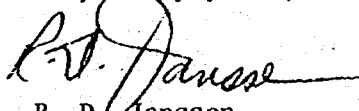
Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

Very truly yours,


R. D. Janssen
Regional Land Manager

RDJ:js
Enclosure

D. W. UNDERWOOD as an offset operator does not
object to the drilling of the above-referenced unorthodox location.

By: 

Title: _____

Date: _____

RTD
 (SEJ)
 1800 WILCO BUILDING
 MIDLAND, TEXAS 79701
 PHONE: 915-684-7575
 1981
 OCT 22 1981

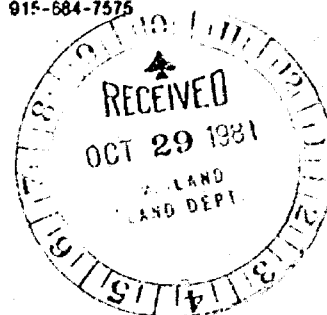
OCT 22 1981

Date: October 28, 1981

El Paso
Exploration Company

1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981



Chessie Exploration, Inc.
Suite 900, Vaughn Bldg.
Midland, TX 79701

Attn: Mr. J. W. Rogers

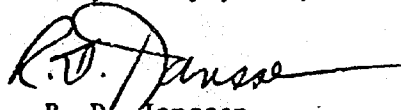
Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

Very truly yours,


R. D. Janssen
Regional Land Manager

RDJ:js
Enclosure

CHESSIE EXPLORATION, INC. as an offset operator does not object to the drilling of the above-referenced unorthodox location.

By: Richard H. Spencer
Title: Exploration Manager
Date: 10/26/81

El Paso
Exploration Company

1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981

Florida Exploration Company
Suite 900, Vaughn Bldg.
Midland, TX 79701

Attn: Mr. J. W. Rogers

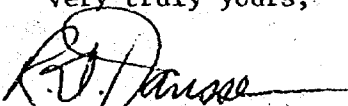
Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

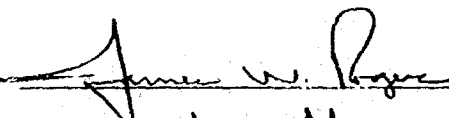
Very truly yours,



R. D. Janssen
Regional Land Manager

RDJ:js
Enclosure

FLORIDA EXPLORATION COMPANY as an offset operator does not
object to the drilling of the above-referenced unorthodox location.

By: 
Title: DIVISION LAND MANAGER
Date: 10/26/81

El Paso
Exploration Company

1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981

J. C. Williamson
P. O. Box 16
Midland, TX 79701



Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

Very truly yours,

R. D. Janssen
Regional Land Manager

RDJ:js
Enclosure

J. C. WILLIAMSON as an offset operator does not
object to the drilling of the above-referenced unorthodox location.

By: J. C. Williamson

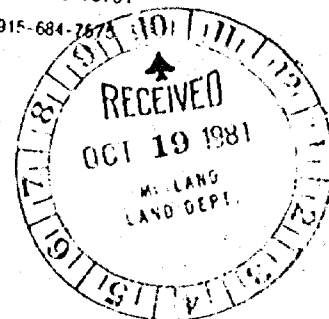
Title: Lease owner

Date: October 14 1981

El Paso
Exploration Company

1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981



Ralph E. Williamson
P. O. Box 16
Midland, TX 79701

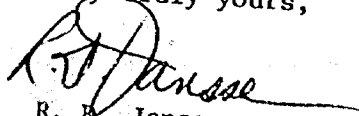
Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

Very truly yours,


R. B. Janssen
Regional Land Manager

RDJ:js
Enclosure

Ralph E. Williamson as an offset operator does not
object to the drilling of the above-referenced unorthodox location.

By: Ralph E. Williamson
Title: Owner
Date: 10-16-81

El Paso
Exploration Company



1800 WILCO BUILDING
MIDLAND, TEXAS 79701
PHONE: 915-684-7575

October 13, 1981

Estoril Producing Corp.
11th Floor, Vaughn Bldg.
Midland, TX 79701

*I got sel
me
for*

Re: No. 1 El Paso Federal 23 Well
T-26-S, R-30-E
Section 23: S/2
Eddy County, New Mexico

Gentlemen:

El Paso Natural Gas Company plans to drill captioned well 660 feet FSL and 660 feet FWL Section 23, T-26-S, R-30-E, and designate the S/2 Section 23 as the 320-acre production unit.

This is an unorthodox location for the S/2 Section 23 and if you as an offset operator have no objection to the drilling of this location, please so signify by executing the waiver below and return two (2) copies in the enclosed self-addressed envelope. You may retain the third copy for your files.

Very truly yours,

R.D. Janssen
R. D. Janssen
Regional Land Manager

RDJ:js
Enclosure

Estoril Producing Corp. as an offset operator does not object to the drilling of the above-referenced unorthodox location.

By: *Flight Chanceller*
Title: VP
Date: 10-19-81

MONTGOMERY & ANDREWS

PROFESSIONAL ASSOCIATION
ATTORNEYS AND COUNSELORS AT LAW

J. O. SETH (1883-1963)
FRANK ANDREWS (1914-1981)

A. K. MONTGOMERY
SETH D. MONTGOMERY
FRANK ANDREWS III
OWEN M. LOPEZ
VICTOR R. ORTEGA
JOHN E. CONWAY
JEFFREY R. BRANNEN
JOHN B. POUND
GARY R. KILPATRICK
THOMAS W. OLSON
WALTER J. MELENDEZ
BRUCE L. HERR
MICHAEL W. BRENNAN
ROBERT P. WORCESTER
JOHN B. DRAPER
NANCY M. ANDERSON
RUDOLPH B. SACKS, JR.
JANET MCL. MCKAY
EDWARD F. MITCHELL III
ALLEN H. BRILL
CARRIE L. PARKER
RANDALL GLOVER
MAUREEN A. SANDERS

SANTA FE OFFICE
325 PASEO DE PERALTA
POST OFFICE BOX 2307
SANTA FE, NEW MEXICO 87504-2307

TELEPHONE (505) 982-3873
TELECOPY (505) 982-4289

ALBUQUERQUE OFFICE
SUITE 916
FIRST INTERSTATE BANK BUILDING
4TH AND GOLD AVENUE, S.W.
POST OFFICE BOX 1396
ALBUQUERQUE, NEW MEXICO 87103-1396
TELEPHONE (505) 242-9677

October 30, 1981

REPLY TO SANTA FE OFFICE

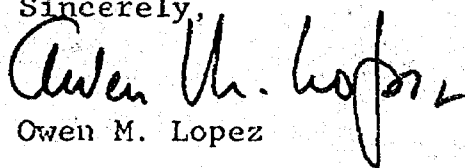
New Mexico Energy and
Minerals Department
Oil Conservation Division
Santa Fe, New Mexico 87503

Re: NMOCD Case No. 7398 - Application of El Paso
Natural Gas Company for Unorthodox Gas Well
Location, Eddy County, New Mexico

Gentlemen:

Please be advised that David T. Burleson of the
office of General Counsel of El Paso Natural Gas Company,
El Paso, Texas, is associated with our firm for the pre-
sentation of evidence and argument in the above-referenced
case.

Sincerely,


Owen M. Lopez

eg

Dockets Nos. 36-81 and 37-81 are tentatively set for November 19 and December 4, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 4, 1981

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

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

- CASE 7396: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Sentry Oil Exploration Company and Lawyers Surety Corporation to appear and show cause why Farr Well No. 1, located in Unit G of Section 6, Township 31 North, Range 34 East, Union County, New Mexico, should not be ordered plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 7380: (Continued and Readvertised)
- Application of Bird Oil Corporation for an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Entrada location of a well to be drilled 2110 feet from the North line and 1120 feet from the East line of Section 10, Township 22 South, Range 9 West, the SE/4 NE/4 of said Section 10 to be dedicated to the well.
- CASE 7397: Application of Belco Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Atoka and Strawn production in the wellbore of its Kimbley Well No. 1, located in Unit G of Section 21, Township 23 South, Range 28 East.
- CASE 7398: Application of El Paso Natural Gas Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Wolfcamp-Penn well, to be drilled 660 feet from the South and West lines of Section 23, Township 26 South, Range 30 East, Ross Draw Area, the S/2 of said Section 23 to be dedicated to the well.
- CASE 7399: Application of Texaco, Inc. for a Unit Agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the North Vacuum Abo West Unit Area, comprising 2000 acres, more or less, of state lands in Township 17 South, Range 34 East.
- CASE 7400: Application of Texaco, Inc. for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project in its North Vacuum Abo West Unit Area by the injection of water into the Abo formation through 13 wells located in Sections 15, 21, 22, 27, 28 and 34, Township 17 South, Range 34 East, North Vacuum - Abo Pool.
- CASE 7401: Application of Morris R. Antweil for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 2410 feet from the North line and 330 feet from the West line of Section 21, Township 18 South, Range 38 East, Hobbs Grayburg-San Andres Pool, the SW/4 NW/4 of said Section 21 to be dedicated to the well.
- CASE 7384: (Continued from October 21, 1981, Examiner Hearing)
- Application of Morris R. Antweil for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Abo formation underlying the NE/4 SW/4 of Section 5, 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 7402: Application of MGF Oil Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Strawn formation underlying the NW/4 NW/4 of Section 5, Township 20 South, Range 39 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 7403: Application of Arco Oil and Gas Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of the Jalmat and Langlie Mattix production in the wellbore of its E. L. Steeler WN Well No. 5, located in Unit J of Section 19, Township 23 South, Range 37 East.

CASE 7359: (Continued from October 7, 1981, Examiner Hearing)

Application of Energy Reserves Group for creation of a new gas pool and an unorthodox location, Roosevelt County, New Mexico.

Applicant, in the above-styled cause, seeks creation of a new Cisco gas pool for its Miller Com Well No. 1, located in Unit M of Section 12, Township 6 South, Range 33 East.

Applicant further seeks approval for an unorthodox location for its Miller "A" Well No. 1-Y, to be drilled 1800 feet from the South line and 1700 feet from the East line of Section 11 of the same township. The S/2 of said Section 11 to be dedicated to the well.

CASE 7383: (Continued from October 21, 1981, Examiner Hearing)

Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Upper Pennsylvanian formation underlying the NW/4 of Section 19, Township 19 South, Range 25 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 7404: Application of TXO Production Corporation for an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of an infill well to be drilled 2000 feet from the North line and 660 feet from the East line of Section 18, Township 21 South, Range 26 East, Catclaw Draw-Morrow gas pool.

CASE 7405: Application of Carl Schellinger for dual completion and an unorthodox location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of his Campbell Station Unit Well No. 1, to produce gas from the Abo and Pennsylvanian formations. Applicant further seeks approval of the unorthodox Pennsylvanian location of said well 660 feet from the South and West lines of Section 34, Township 8 South, Range 27 East, the S/2 of said Section 34 to be dedicated to the Pennsylvanian and the SW/4 to the Abo.

CASE 7406: Application of Depco, Inc. for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Abo formation underlying the SE/4 of Section 23, Township 5 South, Range 24 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 7407: Application of Mesa Petroleum Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Abo formation underlying the NE/4 of Section 23, Township 5 South, Range 24 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.

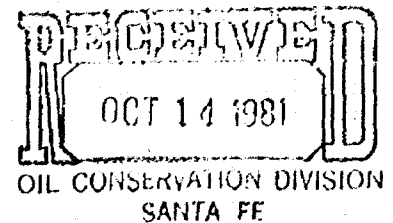
CASE 7408: Application of Doyle Hartman for directional drilling, a non-standard proration unit, an unorthodox well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill his Justis Well No. 10, the surface location of which is 1940 feet from the North line and 120 feet from the West line of Section 20, Township 25 South, Range 37 East, in such a manner as to bottom said well in the Jalmat Gas Pool at an unorthodox location 1980 feet from the North line and 330 feet from the East line of Section 19, Township 25 South, Range 37 East. Applicant further proposes to simultaneously dedicate said well and the Bettis, Boyle and Stovall Justis Well No. 1 to an 80-acre non-standard proration unit comprising the E/2 NE/4 of said Section 19.

El Paso
Exploration Company

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

DAVID T. BURLESON GENERAL COUNSEL

October 12, 1981



Ms. Florene Davidson
New Mexico Oil
Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Case 7398

Re: New Mexico Oil Conservation Division
Application for an Unorthodox Gas Well,
Eddy County, New Mexico

Dear Ms. Davidson:

Attached hereto for your necessary attention are an original and two copies of an application relating to the referenced action.

Very truly yours,

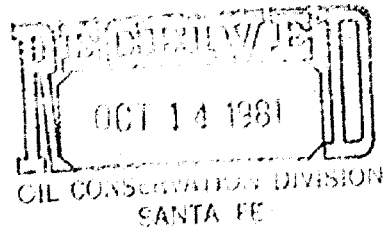
Carole Lindsey

Carole Lindsey
Secretary to David T. Burleson

cl

Attachment

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. 2398

APPLICATION OF EL PASO
NATURAL GAS COMPANY FOR
AN UNORTHODOX GAS WELL,
EDDY COUNTY, NEW MEXICO

El Paso Natural Gas Company, P. O. Box 1492, El Paso, Texas 79978,
hereby makes application for Division approval of an unorthodox gas well
location, and in support thereof shows:

1. That Applicant, El Paso Natural Gas Company, seeks approval of
an unorthodox gas well location for a well which it proposes to drill in
the Ross Draw area at a location 660 feet from the South line and 660
feet from the West line of Section 23, Township 26 South, Range 30 East,
N.M.P.M. The primary objective formation is the Wolfcamp Formation,
however, secondary objective formations are the Strawn, Atoka and Morrow.
El Paso requests approval of the above-described unorthodox location for
said well as to each of such formations.

2. Applicant proposes to dedicate the S/2 of said Section 23 to
said well.

3. That the approval of the subject application will afford the
Applicant the opportunity to produce its just and equitable share of the
oil and gas and will prevent economic loss which would result from the
drilling of unnecessary wells, avoid the drilling of an excessive number
of wells and will otherwise prevent waste and protect correlative rights.

Applicant requests a hearing before an Examiner at an early date,
and prays that its application for an unorthodox gas well location above
described will be approved.

Respectfully submitted,

EL PASO NATURAL GAS COMPANY

By:

Samuel J. Burkman
Attorney

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. 7398

ORDER NO. R- 6816

APPLICATION OF EL PASO NATURAL GAS COMPANY

FOR AN UNORTHODOX GAS WELL LOCATION,

EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 4,
19 81, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of November, 19 81, the Division
Director, having considered the testimony, the record, and the
recommendations of the Examiner, and being fully advised in the
premises,

FINDS:

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

(2) That the applicant, El Paso Natural Gas Company,
seeks approval of an unorthodox gas well location 660
feet from the South line and 660 feet from the
West line of Section 23, Township 26 South
Range 30 East, NMPM, to test the Wolfcamp and Pennsylvanian
formations, Ross Draw Area xxxxxxx1, Eddy
County, New Mexico.

(3) That the S/2 of said Section 23 is to be
dedicated to the well.

(4) That a well at said unorthodox location will better
enable applicant to produce the gas underlying the proration unit.

(5) That no offset operator objected to the proposed unorthodox
location.

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(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

the application of El Paso Natural Gas Company for
Pennsylvanian (1) That ~~an~~ ^{the} unorthodox gas well location for the ~~Wolfcamp~~ ^{Wolfcamp} ~~and~~ ^{and} formations is hereby approved for a well to be located at a point 660 feet from the South line and 660 feet from the West line of Section 23, Township 26 South, Range 30 East NMPM, Ross Draw Area xxxR001, Eddy County, New Mexico.

(2) That the S/2 of said Section 23 shall be dedicated to the above-described well.

(3) 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.