CASE 6630: EL PASO NATURAL GAS COMPANY FOR DOWNHOLE COMMINGLING, RIO ARRÍBA COUNTY, NEW MEXICO.

october # 2

CASE NO.

6630

APPlication, Transcripts, Small Exhibits,

ETC.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT Oil Conservation Division State Land Office Bldg. Santa Fe, New Mexico 2 October 1979 EXAMINER HEARING 6 IN THE MATTER OF: Application of El Paso Natural Gas) Company for downhole commingling, CASE Rio Arriba County, New Mexico. 6630 BEFORE: Richard L. Stamets 11 12 TRANSCRIPT OF HEARING 13 14 APPEARANCES 15 16 For the Oil Conservation Ernest L. Padilla, Esq. 17 Division: Legal Counsel for the Division 18 State Land Office Bldg. Santa Fe, New Mexico 87503 19 For the Applicant: 20 David D. Burleson, Esq. El Paso Natural Gas Company 21 El Paso, Texas 22 23 24 25

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MR. STAMETS: Call next Case 6630, being the application of El Paso Natural Gas Company for downhole

commingling, Rio Arriba County, New Mexico.

Call for appearances in this case.

MR. BURLESON: David Burleson with El Paso Natural Gas Company.

I might also mention that Mr. Juan Montano, who is here representing the interests of his uncle, Mr. Esquibel, is here, although he's not represented by counsel, I do not believe.

MR. STAMETS: Okay. Any other appearances in this case?

How many witnesses are you going to have,

Mr. Burleson?

MR. BURLESON: We'll have a minimum of two witnesses and a maximum of four, so I would suggest you swear the four possible witnesses.

MR. STAMETS: Okay, let's have all the witnesses stand and be sworn at one time, please.

(Witnesses sworn.)

PAUL W. BURCHELL

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

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BY MR. BURLESON:

Mr. Burchell, will you state your full
name for the record, please, and indicate where you reside?

A. Yes. My name is Paul W. Burchell and I

reside in El Paso, Texas.

Q By whom are you employed and in what capacity?

A. I'm employed by the El Paso Natural Gas Company as a Senior Proration Engineer.

Q. Have you previously testified before the Division or one of its examiners and had your credentials accepted by the Commission?

A. Yes, they were.

Q Are you familiar with the substance of the application in Case 6630?

A. Yes, I am.

Q ho is the operator of the well in this case, Mr. Burchell?

A. It is the company I'm employed by, the El Paso Natural Gas Company.

Q. And what is El Paso seeking in this cause?

A. We are seeking permission to downhole commingle gas and condensate of the Basin Dakota Pool with gas and condensate of the BS Mesa-Gallup gas pool, and we

ALLY WALTON BOYD

THE SHORTHAND REPORTER

PLANT BANKE (SOS) 471-4462

MARK WALTER BANKE (SOS) 471-4462

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would like to produce this gas through one meter in the San Juan 27-4 Unit No. 37 Well.

This well is located in Unit "N" of Section 33, Township 27 North, Range 4 West, Rio Arriba County, New Mexico.

This well presently produces from the Basin Dakota Gas Pool and El Paso proposes that the allocation of gas and fluids to each formation be divided in such a manner that a certain percentage of the production would be considered Dakota and the remaining portion would be considered Gallup.

Now the method of allocating this production will be presented later on in my testimony.

- Why is El Paso asking to -- permission to commingle production in this well?
- Basically, the San Juan 27-4 Unit No. 37 Well is completed in the Dakota formation only, while certain offset wells are completed in both the Dakota and Gallup formations.

The offsetting Gallup wells involved will be shown on an exhibit which I will present later on in my testimony.

Because of these offset Gallup wells, the United States Geological Survey in behalf of the lessor has requested that El Paso Natural Gas Company protect the Gallup

formation in the event of possible drainage. Accordingly, downhole commingling is considered by El Paso the most economic and efficient method to undertake, mainly due to the low productivity of both zones.

- Q. Do you have an exhibit which shows the present equipment installed in this well?
 - A. Yes, I have.
- Q Would you please -- would that be Exhibit
 Number One?
 - A. Yes, sir.
- Q Would you please refer to that exhibit and indicate what it shows?

A. Yes. Exhibit Number One, it is a diagrammatic sketch of the equipment which has been marked as El Paso's Exhibit Number One. The exhibit shows a string of 2-3/8ths inch tubing installed in the San Juan 27-4 Unit Well No. 37. The tubing is set at 8316 feet and this well is perforated from 8138 feet to 8287 feet in the Basin Dakota Gas Pool.

El Paso proposes to remove the tubing, run a cement bond log, perforate and frac the BS Gallup formation, or gas pool, from 7665 feet to 7689 feet and then replace the tubing.

Temperature surveys indicated that sufficient cement has been placed behind the 5-1/2 inch and 7-5/8ths

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inch casing strings to prevent any gas migration within the casing hole annuluses.

- Do you have an exhibit or exhibits showing the production characteristics of wells in this general area?
- Yes, I do. I have two exhibits which will be marked Exhibit Two and Exhibit Three.
- Would you please refer to those exhibits and indicate what they demonstrate?
 - Yes, sir.
- El Paso Natural Gas Company's Exhibit marked Number Two is a well location map, and it shows the well location of the San Juan 27-4 Unit No. 37 Well in the southwest quarter of Section 33, Township 27 North, Range 4 West.

Now south of the yellow dashed line is a present delineation of the BS Mesa-Gallup Pool. The figures shown at each producing well site represents that particular well's gas and condensate production from the Gallup formation. The top value is gas in Mcf and is that well's 1978 average daily gas production, while the lower value is condensate in barrels and is the well's 1978 average daily production.

As can be observed, the wells' production range from a low value of 3 to a high value of 209 Mcf of gas per day, and from zero to 4.12 barrels of condensate per day. The wells, all of the wells shown on this map, average

WALTON BOYD D SHORTHAND REPORTER BEBERGE (\$66) 4711-2462 Fe, New Mexico 87801

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67 Mcf of gas per day and .86 barrels of condensate per day from the Gallup formation.

Q. Now your previous explanation related to the Gallup formation. Now would you refer, please, to Exhibit Number Three and indicate what that exhibit shows?

A. Yes, sir. El Paso's Exhibit marked Number
Three is also a well location map, only it shows production
from the deeper Basin Dakota wells.

Again, the figures shown at each producing well site represents the well's gas and condensate production from the Dakota. The top value is gas in Mcf and the bottom is condensate in barrels. Both values represent 1978 average daily production rates. The wells range from a low value of 67 Mcf to a high of 208 Mcf of gas per day and from .77 to 3.22 barrels of condensate per day.

All of the wells shown on the map average 109 Mcf of gas and 1.83 barrels of condensate per day from the Dakota formation.

Q. What conclusions do you reach upon examination of the data shown on Exhibits Two and Three?

A. In my opinion the flow rates for both the Dakota formation and the Gallup formation are quite small. The Dakota zone in the San Juan No. 37 Well is prorated marginal and as of June of 1979 the Basin Dakota production was averaging 92 Mcf of gas per day in this well.

 Q. Do you have any information with regard to pressures and water characteristics that might be encountered in this well?

A. Yes, sir. At the present time the Gallup wells shown on Exhibit Two are producing anywhere from zero to 170 barrels of water per year.

Q. That's per well?

A. Per year, per well, anywhere within, that's a minimum to a maximum in that range. This averages .13 barrels of water per day per well for all the wells producing as shown on the map. The nearest producing well to the El Paso Unit No. 37 Well is the Amoco's Jicarilla Apache 102 No. 10 Well in the northwest of Section 4, Township 26 North, Range 4 West. This well only averages 5/100s, or .05, barrels of water per day.

The Dakota wells, now, shown on Exhibit
Three, range from a low of zero to a high of 418 barrels of
water per year per well. The San Juan 27-4 Unit No. 37 Well
produces about 1 barrel of water per day.

Now with regard to pressures, based on extrapolation of State tests, the Dakota formation in this well has a shut-in wellhead pressure of about 520 pounds per square inch absolute, and this is as of April the 1st, 1979.

The corresponding bottom hole pressure in the Dakota is estimated to be 636 psia.

LY WALTON BOYD SEE SHORTHAND REPORTER IN THE BLUCK (665) 471-2461 IN Fe, New Mexico 81191

Now the Gallup's shut-in pressure is estimated from extrapolation of State tests taken on offset wells it's approximately 390 psia with a corresponding bottom hole pressure estimated at 477 psia.

Q Do you believe these fluid and pressure characteristics will be compatible should commingling be approved?

A. Yes, sir, because of the small pressure differential and small volume of liquid, I would not expect any migration of gas or fluids from one formation to the other, and this is particularly true if the well is continuously produced.

Q. What advantages are there in commingling the two zones, Mr. Burchell?

A. There are really two main advantages.

First, it is believed that a certain amount of additional gas and condensate could be obtained from both the Dakota and the Gallup sides of the well that otherwise would not be produced. It is estimated that the Gallup will produce approximately 60 Mcf of gas per day and in addition to the Dakota formation's 92 Mcf of gas per day this will add a greater volume of gas to help lift both the Dakota and the Gallup fluids.

It is further estimated that the Dakota has around 474,000 Mcf of remaining gas reserves and the

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Gallup has around 290,000 Mcf of original reserves which can be recovered through commingling.

Now, besides efficiency in production, the second advantage of commingling is, of course, better economics.

To drill and complete a new Gallup well would cost approximately \$268,080 and to dually complete the existing well would cost \$101,205; however, it will only cost about \$64,970 to complete the Gallup and downhole commingle with the Dakota.

Commingling therefore represents a substantial saving in money.

Q. If Division approval is granted, do you propose a percentage of allocation to each of the two zones of the gas and liquid production?

A. No, not at this time; however, if approval is granted by the Commission to commingle, it is recommended that the production from the well be allocated in the following manner.

First, establish a condensate, gas, and water producing rate for the Dakota formation just prior to the workover, involving approximately a one-week continuous producing interval, or for such time that we do get a stabilized production -- producing rate.

After the workover and downhole commingling

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establish the total condensate gas and water producing rate involving an equal time that I spoke about in the first phase, and then third, subtract the Dakota hydrocarbons and water rates established prior to workover to obtain the Gallup production. The percentages for allocation can then be calculated from these results.

Mr. Burchell, the ownership of production from these two zones, as I understand it, is not common and we will have a later witness who will deal with that.

- Yes, sir.
- So we won't go into that at this point.
- Yes, sir.

MR. BURLESON: We will offer a later witness for that, Mr. Examiner.

- In your opinion would the granting of this application protect correlative rights and prevent waste?
 - Yes, sir. A.
- Do you have anything further to present in this case?
 - No, I do not. A.
- Were Exhibits One through Three prepared by you or under your supervision?
 - Yes, they were.

MR. BURLESON: We ask that Exhibits One through Three be admitted into evidence.

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MR. STAMETS: These exhibits are admitted.

CROSS EXAMINATION

Mr. Burchell, how long has this Dakota well BY MR. STAMETS:

been on production? 6

Oh, I believe it was completed back in around 1965 and it's been producing continuously except for testing periods, et cetera.

Is the production history on this well another tool that could be used to calculate the amount of production which should be assigned to each of the two zones?

I think it's -- it's fairly good, that we could do it prior to, you know, do it right at this time Not necessitate testing, is that what you're talking

Well, it could be utilized in conjunction about? 0. with testing.

Oh, definitely, definitely. A.

And as an alternative to that if the testing 19 Q. 20

doesn't seem to prove --21

Right.

-- what should be proved.

This well has a pretty even decline, Q. Right.

so there shouldn't be any problem at all.

Q. Okay. The reserves you estimated for the Gallup, what was that based on?

tests that were taken on offsetting Gallup wells nearby. In particular, I believe, if you'll look at Exhibit Number Two, one valuable well was the El Paso Natural Gas Well, it's called the San Juan 27-4 Unit Nonparticipating Gallup. It's Well No. 30. It's located in the southwest of Section 32 of Township 27 North, Range 4 West.

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

JEANNE L. MORRISON

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

DIRECT EXAMINATION

BY MR. BURLESON:

Q. Would you please indicate where you reside,

please, Jeanne?

n I reside in El Paso, Texas.

Q. And by whom are you employed? And in what

capacity?

A. I'm employed by El Paso Natural Gas Company

as an Associate Landman.

- Ω Have you previously testified before the Division or one of its examiners?
 - A. No, I have not.
- Q. Would you please give a brief description of your educational and work experience background?
- A. Yes. In 1974 I received a Bachelor of Science degree from West Virginia University. In May, 1977 I received a Juris Doctor degree from Oklahoma City University School of Law. I am a licensed attorney in the State of West Virginia.

From January through May of 1977 I was employed as a legal intern and licenses as such by the Supreme Court of Oklahoma, and I worked in that capacity for the Oklahoma City law firm of Lampkin, Wolfe, Berger, McCaffrey, and Norman; from August '77 to July '78 I was a staff attorney for the Inheritance Tax Division of the West Virginia State Tax Department.

Since July of '78 I have been employed as an Associate Landman with El Paso.

- Q. Would you briefly describe the scope of your duties since you've obtained employment -- since you came to El Paso Natural Gas Company?
- A. Well, I have worked mostly in the San Juan Basin with various units which include the 27-4 Unit.

 Basically what I do is prepare drilling programs, some ex-

pansions, contractions, all of which include communicating with working interest owners mainly, although it also includes royalty and overriding royalty interest owners when necessary.

I'm involved in some title matters and preparation of agreements that are necessary for whatever it is I'm working on.

MR. BURLESON: Mr. Examiner, are the witness' qualifications accepted?

MR. STAMETS: They are.

Q (Mr. Burleson continuing.) Principally she will be dealing with the efforts of El Paso to obtain approval by various interest owners in the two zones with respect to the proposed commingling.

It's my understanding, Jeanne, that the San Juan 27-4 Unit is comprised of all 36 sections within that township and range, is that correct?

A It is.

Q. It's my further understanding that all of Section 33, the site of this well, is within the Dakota participating area for the 27-4 Unit, and that therefore, therefore production from the Dakota formation in this well is shared with the owners of interest within the Dakota participating area, is this correct?

A. Yes, it is. The Dakota participating area

comprises all of the sections excepting three, which are Numbers 1, 26, and 36.

- Q Now, as to the Gallup formation, no part of Section 33 is in a participating area for the Gallup formation, and in fact there is no participating area for the Gallup formation in the 27-4 Unit, is there, Jeanne?
 - A. No, there is not.
- Q So for this reason the Gallup production would be shared on the basis of the ownership and the drilling block or tract which is the southwest quarter of Section 33, Township 27 North, Range 4 West, Rio Arriba County, is this correct?
 - A. That's correct.
- Q Have you communicated with all owners of an interest in production from either of these two zones, either the Dakota or the Gallup formation, if the well is successfully completed in the Gallup formation, to attempt to obtain their approval to this proposed commingling?
 - A. Yes, I have.
- Q. What were the dates of your communication with respect to that subject?
- A. My first letter was dated July 17, 1979. I sent follow-up letters dated August 3rd, 1979, September 5th, 1979, and September 13, 1979.

The September 13th letter was to advise

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any owner who had not responded of the date of the hearing and the time.

Subsequently, we discovered that Mr. Esquibel, Jose Perfecto Esquibel, owned an interest which could be affected by this, and he was notified by mail and a hand-delivered copy of the July 17, 1979 letter was given to him yesterday.

Q And Mr. Juan Montano is here to represent the interest of his uncle?

A. Yes.

Q In this proceeding.

With respect to working interest owners, please indicate the responses which you have received to your request for approval of the proposed commingling.

A. Of seven working interest owners six approved, one did not respond.

Q And those working interest owners own an approximate interest of what percentage within the two zones affected?

A. Approximately 97 percent was the approval percentage that I received.

Q It's a slightly larger interest, I believe, is it not, in the Gallup as compared with the Dakota? Is this correct?

A. Somewhat larger, right.

1	Q	Less than a percent, probably, or around							
2	maybe								
3	A.	That's correct.							
4	Q	one percent?							
5	A.	Right.							
6	Q	With respect to royalty owners what re-							
7	sponses have you received?								
8	A.	Of three royalty interest owners, two did							
9	not respond, one	e approved; however, Mr. Esquibel's interest							
10	is represented here today by Mr. Montano.								
11	Q	And the other owner who has not responded							
12	is the United States Geological Survey, who represents the								
13	interest of the Federal government.								
14		That's correct, and it's customary for							
15	them not to respond.								
16	Q	But they have been notified of this hearing							
17	A.	Yes, they have.							
18	Q.	With respect to overriding royalty interest							
19	owners what responses have you received?								
20	A.	Of sixteen overriding royalty interest							
21	owners, 11 approved. The remainder did not respond.								
22	Q	Now I believe that there was one net profit							
23	interest owner a	s to one of the formations. What response,							
24	if any, did you	receive from that owner?							

General American Oil Company approved as

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far as their net profits interest is involved.

Q Would you please refer to what has been marked as El Paso Natural Gas Company's Exhibit Number Four, and I ask that you identify and describe the material that's contained under that exhibit number?

A. This is my letter which was mailed July 17, 1979 to all of the working interest owners, royalty interest owners, and overriding royalty interest owners that we had record of at that date who could be affected by this procedure, and they were advised and asked for their approval and/or other response.

Q. And furthermore, Exhibit Number Four indicates the approval of various owners, is that not correct?

A. Yes, it does.

Q. What effort was made to communicate with -further with those persons who did not respond? Did you
attempt to obtain information with respect to their address
or telephone number and to communicate with them further?

A. Yes, I did. As previously mentioned, I -- we sent three follow-up letters. Those who had still not responded, we attempted to find phone numbers for. We could not find phone numbers for those who did not respond, other than Mr. Esquibel. Our attempts to contact him by phone were not successful; however a letter was hand-carried yesterday and he's represented here today.

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	Q	So the	sum of	it is that	ever	yone	approved
who yo	ou could lo	cate, wit	th the e	xception o	of the	Unit	ed
States	Geologica	l Survey,	, and Mr	. Esquibel	, who	only	received
notice	of this y	esterday	and who	is repres	sented	here	today
in thi	s hearing.						

- A. That is correct.
- Q. Okay.

MR. BURLESON: At this time I ask that Exhibit Number Four be admitted into evidence, and I have no further questions on direct of this witness.

MR. STAMETS: Exhibit Number Four will be admitted.

CROSS EXAMINATION

BY MR. STAMETS:

Q. Did I understand your testimony correctly now that of all of the owners who were notified, that being all the owners, none objected?

- A. That is correct.
- Though some did not respond?
- A. That is correct.
- Q Okay.

MR. STAMETS: Are there any other questions of this witness? She may be excused.

MR. BURLESON: That's all we have, Mr.

Examiner, unless you have further questions. We have other witnesses who could be presented but that's all of our direct presentation.

MR. STAMETS: I believe I had something I wanted to ask Paul.

PAUL W. BURCHELL

being recalled as a witness and being previously sworn, testified as follows, to-wit:

RECROSS EXAMINATION

BY MR. STAMETS:

Q. Yeah, Mr. Burchell.

A. Yes.

Q The estimate of 290,000 cubic feet of reserves for the Gallup formation, what's the value of that gas? What price should it bring under the NGPA and what does that represent as cost for drilling a well or dually completing a well?

A. I'd better not answer that. I'm not sure.

I didn't -- I have not considered that particular economics

for that per Mcf of gas and what price it's going to get

under NGPA. I have done everything I possibly can to remove

anything about NGPA from my mind.

MR. BURLESON: Even assuming the new gas

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price, Paul, would the well be -- would a Gallup well be commercial? You might want to make a few computations to --

A. Well, let's say \$2.00 an Mcf and -- yes, it would be. I mean it would be commercial to go out and probably spend \$265,000 to bring in \$500,000.

MR. BURLESON: Assuming you get an average well.

A. Yes, right.

MR. BURLESON: If you didn't get an average well, it might not.

A. Right, assuming we can recover these remaining reserves we think is there.

MR. BURLESON: And that's assuming an optimum price, too, of course.

A. I would say so.

MR. BURLESON: It also doesn't consider the other advantages of commingling, being the more efficient useage of reservoir energy.

A. This is true. I mean we feel that this is a definite advantage to help lift the liquids.

Q And it would be an expenditure of funds that would be unnecessary to recover the same amount of hydrocarbons.

A. In my opinion.

Q (Mr. Stamets continuing.) Then I believe

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you indicated that the price for dually completing the existing well would be on the order of \$140,000.

A I thought it was \$101,000. Was it a \$140,000?

Let me check my notes. \$101,000.

Q Okay, so under those circumstances it would be more economical venture at the highest price and still a pretty good profit maker if you got a dollar.

A. That's right. There's one other advantage, too, on rather than dually completing it. There's a problem of the size of tubing that you can put in the existing casing, and I'm quite confident that we might have to go to a pump jack in the future and it would be much more expensive to dually complete two pumping zones.

Q. What makes you feel that a pump jack will be required in the future?

A. Well, the possibility that the water could increase and the liquid hydrocarbons, the condensate, particularly for the Dakota formation.

MR. STAMETS: Any other questions for the witness? He may be excused.

Anything further in this subject case?

The case will be taken under advisement.

(Hearing concluded.)

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REPORTER'S CERTIFICATE

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

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

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6630 heard by me on

Examiner Oll Conservation Division

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT Oil Conservation Division State Land Office Bldg. Santa Fe, New Mexico 2 October 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of El Paso Natural Gas) Company for downhole commingling, Rio Arriba County, New Mexico.

CASE 6630

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel for the Division State Land Office Bldg. Santa Fe, New Mexico 87503

For the Applicant:

David D. Burleson, Esq. El Paso Natural Gas Company El Paso, Texas

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the application of El Paso Natural Gas Company for downhole

MR. STAMETS: Okay. Any other appearances

MR. STAMETS: Call next Case 6630, being

in this case?

How many witnesses are you going to have,

Mr. Burleson?

MR. BURLESON: We'll have a minimum of two witnesses and a maximum of four, so I would suggest you swear the four possible witnesses.

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(Witnesses sworm.)

PAUL W. BURCHELL

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

Company as a Senior Proration Engineer.

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BY MR. BURLESON:

Have you previously testified before the Division or one of its examiners and had your credentials accepted by the Commission? Yes, they were. Are you familiar with the substance of the application in Case 6630? Yes, I am. No is the operator of the well in this

reside in El Paso, Texas.

case, Mr. Burchell?

DIRECT EXAMINATION

name for the record, please, and indicate where you reside?

Mr. Burchell, will you state your full

Yes. My name is Paul W. Burchell and I

By whom are you employed and in what capa-

I'm employed by the El Paso Natural Gas

It is the company I'm employed by, the El Paso Natural Gas Company.

And what is El Paso seeking in this cause?

We are seeking permission to downhole commingle gas and condensate of the Basin Dakota Pool with gas and condensate of the BS Mesa-Gallup gas pool, and we

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would like to produce this gas through one meter in the San Juan 27-4 Unit No. 37 Well.

This well is located in Unit "N" of Section 33, Township 27 North, Range 4 West, Rio Arriba County, New Mexico.

This well presently produces from the Basin Dakota Gas Pool and El Paso proposes that the allocation of gas and fluids to each formation be divided in such a manner that a certain percentage of the production would be considered dered Dakota and the remaining portion would be considered Gallup.

Now the method of allocating this production will be presented later on in my testimony.

Q Why is El Paso asking to -- permission to commingle production in this well?

A Basically, the San Juan 27-4 Unit No. 37 Well is completed in the Dakota formation only, while certain offset wells are completed in both the Dakota and Gallup formations.

The offsetting Gallup wells involved will be shown on an exhibit which I will present later on in my testimony.

Because of these offset Gallup wells, the United States Geological Survey in behalf of the lessor has requested that El Paso Natural Gas Company protect the Gallup

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formation in the event of possible drainage. Accordingly, downhole commingling is considered by El Paso the most economic and efficient method to undertake, mainly due to the low productivity of both zones.

Do you have an exhibit which shows the present equipment installed in this well?

Yes, I have.

Would you please -- would that be Exhibit Number One?

Yes, sir.

Would you please refer to that exhibit and indicate what it shows?

Yes. Exhibit Number One, it is a diagrammatic sketch of the equipment which has been marked as El Paso's Exhibit Number One. The exhibit shows a string of 2-3/8ths inch tubing installed in the San Juan 27-4 Unit Well No. 37. The tubing is set at 8316 feet and this well is perforated from 8138 feet to 8287 feet in the Basin Dakota Gas Pool.

El Paso proposes to remove the tubing, run a cement bond log, perforate and frac the BS Gallup formation, or gas pool, from 7665 feet to 7689 feet and then replace the tubing.

Temperature surveys indicated that sufficient cement has been placed behind the 5-1/2 inch and 7-5/8ths

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inch casing strings to prevent any gas migration within the casing hole annuluses.

Q Do you have an exhibit or exhibits showing the production characteristics of wells in this general area

A. Yes, I do. I have two exhibits which will be marked Exhibit Two and Exhibit Three.

Q Would you please refer to those exhibits and indicate what they demonstrate?

A. Yes, sir.

Q El Paso Natural Gas Company's Exhibit marked Number Two is a well location map, and it shows the well location of the San Juan 27-4 Unit No. 37 Well in the southwest quarter of Section 33, Township 27 North, Range 4 West.

Now south of the yellow dashed line is a present delineation of the 35 Mesa-Gallup Pool. The figures shown at each producing well site represents that particular well's gas and condensate production from the Gallup formation. The top value is gas in Mcf and is that well's 1978 average daily gas production, while the lower value is condensate in barrels and is the well's 1978 average daily production.

As can be observed, the wells' production range from a low value of 3 to a high value of 209 Mcf of gas per day, and from zero to 4.12 barrels of condensate per day. The wells, all of the wells shown on this map, average

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67 Mcf of gas per day and .86 barrels of condensate per day from the Gallup formation.

Now your previous explanation related to the Gallup formation. Now would you refer, please, to Exhibit Number Three and indicate what that exhibit shows?

A. Yes, sir. El Paso's Exhibit marked Number
Three is also a well location map, only it shows production
from the deeper Basin Dakota wells.

Again, the figures shown at each producing well site represents the well's gas and condensate production from the Dakota. The top value is gas in Mcf and the bottom is condensate in barrels. Both values represent 1978 average daily production rates. The wells range from a low value of 67 Mcf to a high of 208 Mcf of gas per day and from .77 to 3.22 barrels of condensate per day.

All of the wells shown on the map average 109 Mcf of gas and 1.83 barrels of condensate per day from the Dakota formation.

Q. What conclusions do you reach upon examination of the data shown on Exhibits Two and Three?

A. In my opinion the flow rates for both the Dakota formation and the Gallup formation are quite small. The Dakota zone in the San Juan No. 37 Well is prorated marginal and as of June of 1979 the Basin Dakota production was averaging 92 Mcf of gas per day in this well.

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Do you have any information with regard to pressures and water characteristics that might be encountered in this well?

A Yes, sir. At the present time the Gallup wells shown on Exhibit Two are producing anywhere from zero to 170 barrels of water per year.

Q That's per well?

A. Per year, per well, anywhere within, that's a minimum to a maximum in that range. This averages .13 barrels of water per day per well for all the wells producing as shown on the map. The nearest producing well to the El Paso Unit No. 37 Well is the Amoco's Jicarilla Apache 102 No. 10 Well in the northwest of Section 4, Township 26 North, Range 4 West. This well only averages 5/100s, or .05, barrels of water per day.

The Dakota wells, now, shown on Exhibit
Three, range from a low of zero to a high of 418 barrels of
water per year per well. The San Juan 27-4 Unit No. 37 Well
produces about 1 barrel of water per day.

Now with regard to pressures, based on extrapolation of State tests, the Dakota formation in this well has a shut-in wellhead pressure of about 520 pounds per square inch absolute, and this is as of April the 1st, 1979.

The corresponding bottom hole pressure in the Dakota is estimated to be 636 psia.

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Now the Gallup's shut-in pressure is estimated from extrapolation of State tests taken on offset wells, it's approximately 390 psia with a corresponding bottom hole pressure estimated at 477 psia.

Q Do you believe these fluid and pressure characteristics will be compatible should commingling be approved?

A Yes, sir, because of the small pressure differential and small volume of liquid, I would not expect any migration of gas or fluids from one formation to the other, and this is particularly true if the well is continuously produced.

Q. What advantages are there in commingling the two zones, Mr. Burchell?

First, it is believed that a certain amount of additional gas and condensate could be obtained from both the Dakota and the Gallup sides of the well that otherwise would not be produced. It is estimated that the Gallup will produce approximately 60 Mcf of gas per day and in addition to the Dakota formation's 92 Mcf of gas per day this will add a greater volume of gas to help lift both the Dakota and the Gallup fluids.

It is further estimated that the Dakota has around 474,000 Mcf of remaining gas reserves and the

Gallup has around 290,000 Mcf of original reserves which can be recovered through commingling.

Now, besides efficiency in production, the second advantage of commingling is, of course, better economics.

To drill and complete a new Gallup well would cost approximately \$268,080 and to dually complete the existing well would cost \$101,205; however, it will only cost about \$64,970 to complete the Gallup and downhole commingle with the Dakota.

Commingling therefore represents a substantial saving in money.

- Q. If Division approval is granted, do you propose a parcentage of allocation to each of the two zones of the gas and liquid production?
- A. No, not at this time; however, if approval is granted by the Commission to commingle, it is recommended that the production from the well be allocated in the following manner.

First, establish a condensate, gas, and water producing rate for the Dakota formation just prior to the workover, involving approximately a one-week continuous producing interval, or for such time that we do get a stabilized production -- producing rate.

After the workover and downhole commingling

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establish the total condensate gas and water producing rate involving an equal time that I spoke about in the first phase, and then third, subtract the Dakota hydrocarbons and water rates established prior to workover to obtain the Gallup production. The percentages for allocation can then be calculated from these results.

Q Mr. Burchell, the ownership of production from these two zones, as I understand it, is not common and we will have a later witness who will deal with that.

- A. Yes, sir.
- a So we won't go into that at this point.
- A. Yes, sir.

MR. BURLESON: We will offer a later witness for that, Mr. Examiner.

- Q In your opinion would the granting of this application protect correlative rights and prevent waste?
 - A. Yes, sir.
- Q Do you have anything further to present in this case?
 - A No, I do not.
- Q Were Exhibits One through Three prepared by you or under your supervision?
 - A. Yes, they were.

MR. BURLESON: We ask that Exhibits One through Three be admitted into evidence.

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MR. STAMETS: These exhibits are admitted.

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Burchell, how long has this Dakota well been on production?

A. Oh, I believe it was completed back in around 1965 and it's been producing continuously except for testing periods, et cetera.

O Is the production history on this well another tool that could be used to calculate the amount of production which should be assigned to each of the two zones?

A. I think it's -- it's fairly good, that we could do it prior to, you know, do it right at this time now. Not necessitate testing, is that what you're talking about?

Q Well, it could be utilized in conjunction with testing.

A. Oh, definitely, definitely. Yes.

And as an alternative to that if the testing doesn't seem to prove --

A. Right.

Q -- what should be proved.

A. Right. This well has a pretty even decline, so there shouldn't be any problem at all.

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Okay. The reserves you estimated for the Gallup, what was that based on?

That was based on extrapolation of State tests that were taken on offsetting Gallup wells nearby. In particular, I believe, if you'll look at Exhibit Number Two, one valuable well was the El Paso Natural Gas Well, it's called the San Juan 27-4 Unit Nonparticipating Gallup. It's Well No. 30. It's located in the southwest of Section 32 of Township 27 North, Range 4 West.

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

JEANNE L. MORRISON

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

DIRECT EXAMINATION

BY MR. BURLESON:

Would you please indicate where you reside,

please, Jeanne? 20

I reside in El Paso, Texas. ٨.

And by whom are you employed? And in what

capacity?

I'm employed by El Paso Natural Gas Company

as an Associate Landman.

A Have you previously testified before the Division or one of its examiners?

A. No, I have not.

Would you please give a brief description
 of your educational and work experience background?

A. Yes. In 1974 I received a Bachelor of Science degree from West Virginia University. In May, 1977 I received a Juris Doctor degree from Oklahoma City University School of Law. I am a licensed attorney in the State of West Virginia.

employed as a legal intern and licenses as such by the Supreme Court of Oklahoma, and I worked in that capacity for the Oklahoma City law firm of Lampkin, Wolfe, Berger, McCaffrey, and Norman; from August '77 to July '78 I was a staff attorney for the Inheritance Tax Division of the West Virginia State Tax Department.

Since July of '78 I have been employed as an Associate Landman with El Paso.

Would you briefly describe the scope of your duties since you've obtained employment -- since you came to El Paso Natural Gas Company?

Mell, I have worked mostly in the San Juan Basin with various units which include the 27-4 Unit.

Basically what I do is prepare drilling programs, some ex-

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pansions, contractions, all of which include communicating with working interest owners mainly, although it also includes royalty and overriding royalty interest owners when necessary.

I'm involved in some title matters and preparation of agreements that are necessary for whatever it is I'm working on.

MR. BURLESON: Mr. Examiner, are the witness' qualifications accepted?

MR. STAMETS: They are.

Q (Mr. Burleson continuing.) Principally she will be dealing with the efforts of El Paso to obtain approval by various interest owners in the two zones with respect to the proposed commingling.

It's my understanding, Jeanne, that the San Juan 27-4 Unit is comprised of all 36 sections within that township and range, is that correct?

A. It is.

Q It's my further understanding that all of Section 33, the site of this well, is within the Dakota participating area for the 27-4 Unit, and that therefore, therefore production from the Dakota formation in this well is shared with the owners of interest within the Dakota participating area, is this correct?

A. Yes, it is. The Dakota participating area

comprises all of the sections excepting three, which are Numbers 1, 26, and 36.

Q Now, as to the Gallup formation, no part of Section 33 is in a participating area for the Gallup formation, and in fact there is no participating area for the Gallup formation in the 27-4 Unit, is there, Jeanne?

A No, there is not.

Q So for this reason the Gallup production would be shared on the basis of the ownership and the drilling block or tract which is the southwest quarter of Section 33, Township 27 North, Range 4 West, Rio Arriba County, is this correct?

A. That's correct.

Q Have you communicated with all owners of an interest in production from either of these two zones, either the Dakota or the Gallup formation, if the well is successfully completed in the Gallup formation, to attempt to obtain their approval to this proposed commingling?

A. Yes, I have.

Q. What were the dates of your communication with respect to that subject?

My first letter was dated July 17, 1979.

I sent follow-up letters dated August 3rd, 1979, September

5th, 1979, and September 13, 1979.

The September 13th letter was to advise

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any owner who had not responded of the date of the hearing and the time.

Subsequently, we discovered that Mr. Esquibel, Jose Perfecto Esquibel, owned an interest which could be affected by this, and he was notified by mail and a hand-delivered copy of the July 17, 1979 letter was given to him yesterday.

Q And Mr. Juan Montano is here to represent the interest of his uncle?

- A. Yes.
- Q In this proceeding.

With respect to working interest owners, please indicate the responses which you have received to your request for approval of the proposed commingling.

A. Of seven working interest owners six approved, one did not respond.

And those working interest owners own an approximate interest of what percentage within the two zones affected?

A. Approximately 97 percent was the approval percentage that I received.

Q. It's a slightly larger interest, I believe, is it not, in the Gallup as compared with the Dakota? Is this correct?

A Somewhat larger, right.

	Page
1	Q Less than a percent, probably, or around
2	maybe
3	A. That's correct.
4	Q one percent?
5	A. Right.
6	Q. With respect to royalty owners what re-
7	sponses have you received?
8	A Of three royalty interest owners, two did
9	not respond, one approved; however, Mr. Esquibel's interest
10	is represented here today by Mr Montano.
11	Q. And the other owner who has not responded
12	is the United States Geological Survey, who represents the
13	interest of the Federal government.
14	A That's correct, and it's customary for
15	them not to respond.
16	Q But they have been notified of this hearing
17	A. Yes, they have.
18	Q With respect to overriding royalty interest
19	owners what responses have you received?
20	A. Of sixteen overriding royalty interest
21	owners, 11 approved. The remainder did not respond.
22	Now I believe that there was one net profi
23	what response,
24	The state of the s
	West arranger

General American Oil Company approved as

far as their net profits interest is involved.

Mould you please refer to what has been marked as El Paso Natural Gas Company's Exhibit Number Four, and I ask that you identify and describe the material that's contained under that exhibit number?

A. This is my letter which was mailed July 17, 1979 to all of the working interest owners, royalty interest owners, and overriding royalty interest owners that we had record of at that date who could be affected by this procedure, and they were advised and asked for their approval and/or other response.

- And furthermore, Exhibit Number Four indicates the approval of various owners, is that not correct?
 - A Yes, it does.
- Q. What effort was made to communicate with -further with those persons who did not respond? Did you
 attempt to obtain information with respect to their address
 or telephone number and to communicate with them further?
- sent three follow-up letters. Those who had still not responded, we attempted to find phone numbers for. We could not find phone numbers for those who did not respond, other than Mr. Esquibel. Our attempts to contact him by phone were not successful; however a letter was hand-carried yesterday and he's represented here today.

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	Q	So the	sum of i	t is that	every	one a	pproved
who you	u could 1	ocate, wit	h the ex	ception of	the	Unito	ುದೆ
States	Geologic	al Survey,	and Mr.	Esquibel,	who	only	received
notice	of this	yesterday	and who	is represen	nted	here	today
in this	s hearing	•					

- A. That is correct.
- Q Okay.

MR. BURLESON: At this time I ask that Exhibit Number Four be admitted into evidence, and I have no further questions on direct of this witness.

MR. STAMETS: Exhibit Number Four will be admitted.

CROSS EXAMINATION

BY MR. STAMETS:

pid I understand your testimony correctly now that of all of the owners who were notified, that being all the owners, none objected?

- A. That is correct.
- q Though some did not respond?
- A. That is correct.
- Q Okay.

MR. STAMETS: Are there any other questions of this witness? She may be excused.

MR. BURLESON: That's all we have, Mr.

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Examiner, unless you have further questions. We have other witnesses who could be presented but that's all of our direct presentation.

MR. STAMETS: I believe I had something I wanted to ask Paul.

PAUL W. BURCHELL

being recalled as a witness and being previously sworn, testified as follows, to-wit:

RECROSS EXAMINATION

BY MR. STAMETS:

- Q. Yeah, Mr. Burche'll.
- A. Yes.
- gas? What price should it bring under the NGPA and what does that represent as cost for drilling a well or dually completing a well?
- I didn't -- I have not considered that particular economics for that per Mcf of gas and what price it's going to get under NGPA. I have done everything I possibly can to remove anything about NGPA from my mind.

MR. BURLESON: Even assuming the new gas

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price, Paul, would the well be -- would a Gallup well be commercial? You might want to make a few computations to --

A. Well, let's say \$2.00 an Mcf and --- yes, it would be. I mean it would be commercial to go out and probably spend \$265,000 to bring in \$500,000.

MR. BURLESON: Assuming you get an average well.

A Yes, right.

MR. BURLESON: If you didn't get an average well, it might not.

A. Right, assuming we can recover these remaining reserves we think is there.

MR. BURLESON: And that's assuming an optimum price, too, of course.

A I would say so.

MR. BURLESON: It also doesn't consider the other advantages of commingling, being the more efficient useage of reservoir energy.

A. This is true. I mean we feel that this is a definite advantage to help lift the liquids.

And it would be an expenditure of funds that would be unnecessary to recover the same amount of hydrocarbons.

A. In my opinion.

Q (Mr. Stamets continuing.) Then I believe

you indicated that the price for dually completing the existing well would be on the order of \$140,000.

A. I thought it was \$101,000. Was it a \$140,000?

Let me check my notes. \$101,000.

Okay, so under those circumstances it would be more economical venture at the highest price and still a pretty good profit maker if you got a dollar.

That's right. There's one other advantage, too, on rather than dually completing it. There's a problem of the size of tubing that you can put in the existing casing, and I'm quite confident that we might have to go to a pump jack in the future and it would be much more expensive to dually complete two pumping zones.

Q What makes you feel that a pump jack will be required in the future?

Mell, the possibility that the water could increase and the liquid hydrocarbons, the condensate, particularly for the Dakota formation.

MR. STAMETS: Any other questions for the witness? He may be excused.

Anything further in this subject case?
The case will be taken under advisement.

(Hearing concluded.)

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY

CERTIFY that the foregoing and attached Transcript of

Hearing before the Oil Conservation Division was reported by

me; that the said transcript is a full, true, and correct

record of the hearing, prepared by me to the best of my

ability from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

do hereby certify that the foregoing is a complete resert of the proceedings in the Examiner hearing of Case No.

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Coll Conservation Division

SALLY WALTON BOYD SERTIFIED SHORTHAND REPORTER



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

october 18, 1979

David T. Burleson	Re: CASE NO. 6630 ORDER NO. R-6142
General Counsel Gas Company El Paso Natural Gas Company	Applicant:
El Paso, Texas 79978	El Paso Natural Gas Company
Dear Sir: Enclosed herewith are two condition order recently entered by the property of the p	opies of the above-referenced pries of the above-referenced in the subject case.
JDR/fd	
Copy of order also sent to	
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Other	

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. 6630 Order No. R-6142

APPLICATION OF EL PASO NATURAL GAS COMPANY FOR DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on October 2, 1979, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 18th day of October, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, El Paso Natural Gas Company, is the owner and operator of the San Juan 27-4 Unit Well No. 37, located in Unit N of Section 33, Township 27 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.
- (3) That the applicant seeks authority to commingle Basin-Dakota and BS Mesa-Gallup production within the wellbore of the above-described well.
- (4) That from the Basin-Dakota zone, the subject well is capable of low marginal production only.
- (5) That from the BS Mesa-Gallup zone, the subject well is expected to be capable of low marginal production only.
- (6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

-2-Case No. 6630 Order No. R-6142

- (7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.
- (8) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Division any time the subject well is shut-in for 7 consecutive days.
- (9) That in order to allocate the commingled production to each of the commingled zones in the well, applicant should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the production zones.

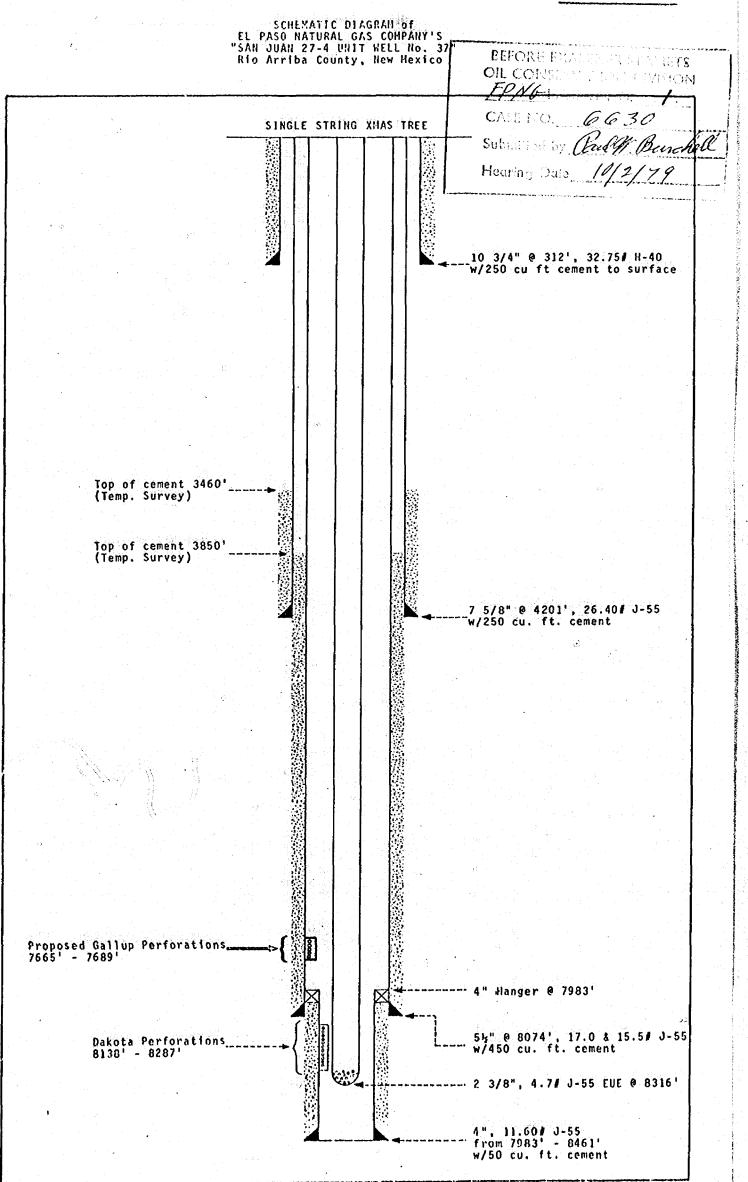
IT IS THEREFORE ORDERED:

- (1) That the applicant, El Paso Natural Gas Company, is hereby authorized to commingle Basin-Dakota and BS Mesa-Gallup production within the wellbore of the San Juan 27-4 Unit Well No. 37, located in Unit N of Section 33, Township 27 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.
- (2) That the applicant shall consult with the Supervisor of the Aztec district office of the Division and determine an allocation formula for the allocation of production to each zone in the subject well.
- (3) That the operator of the subject well shall immediately notify the Division's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY Director



B S MESA-GALLUP GAS POOL

RIO ARRIBA COUNTY, NEW MEXICO

EL PASO NATURAL GAS COMPANY

BEFORE EXAMINER STAMETS

OIL CONSERVATION DIVISION

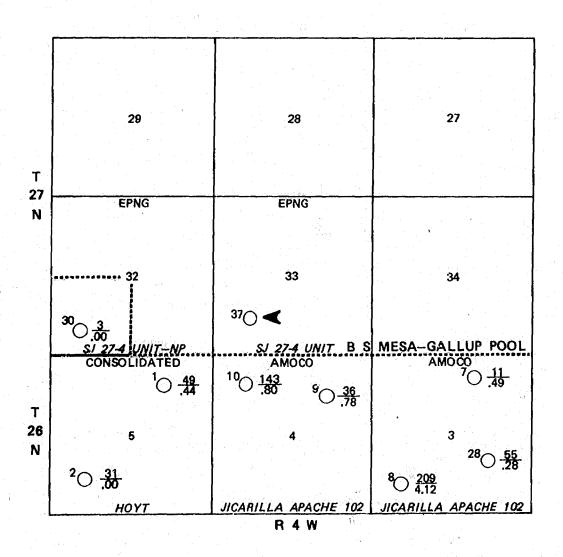
EPNG EXHIBIT NO. 2

CASE NO. 6630

Submitted by Gaultt Burchill

Hearing Date 10/2/19

EXHIBIT NO. 2



O MCF - 1978 AVERAGE DAILY GAS PRODUCTION BARRELS - 1978 AVERAGE DAILY CONDENSATE PRODUCTION

SCALE: 1 INCH = 3000 FEET

EL PASO NATURAL GAS COMPANY

WELL LOCATION MAP

BASIN-DAKOTA GAS POOL

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EPNG-EXHIBIT NO. 3

CASE NO. 6630
Submitted by Paul M. Burchell

RIO ARRIBA COUNTY, NEW MEXICO Hearing Date 10/2/79

EXHIBIT NO. 3

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MCF - 1978 AVERAGE DAILY GAS PRODUCTION BARRELS - 1978 AVERAGE DAILY CONDENSATE PRODUCTION

SCALE: 1 INCH = 3000 FEET

BEFORE EXAMINER STANIETS OIL CONSERVATION DIVISION EPNG EXABIT DO. 4

CASE NO. 6630

Submiller 7, L. Moth' 50 11
P.O. BOX 1482
Hearing Date 10/9/79 EL PASO, TEXAS 19978
PHONE: 915-543-2600

July 17, 1979

ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS

ALL OVERRIDING ROYALTY INTEREST OWNERS

EI Paso NATURAL GAS

Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

Dear Interest Owner:

334

By letter dated May 14, 1979, you were requested to join in several wells to be drilled, in the referenced unit, pursuant to United States Geological Survey demand. One of these wells is that referenced above, a Gallup-Dakota dual well.

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Page Two July 17, 1979

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Very truly yours,

Jeanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm

Carl Matthews

David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership V

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

OVERRIDING ROYALTY INTEREST OWNERS

J. R. Abraham

Mary F. Abraham

Mike C. Abraham, Trustee

Union Oil Co. of California

John C. Meadows

Helen Kerr Ochsner

T. H. Harrington

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Gerald F. Harrington

F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

Xelpho N. Greene

Edna E. Morrell

Robert P. Earnest

Foster Morrell

11



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

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
ALL OVERRIDING ROYALTY INTEREST OWNERS

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TITLE:

Very truly yours.

aure L. Monuson Geanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NH-2113 cc: John Ahlm Carl Matthews David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

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F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

Elizabeth Graham

Xelpho N. Greene

Edna E. Morrell

Robert P. Earnest

Foster Morrell



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

July 17, 1979

ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS ALL OVERRIDING ROYALTY INTEREST OWNERS

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BY: Suprim & Helleric

TITLE: Vice Pres. and Trust Officer

DATE: July 19, 1979

Very truly yours,

Geanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews

David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

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Xelpho N. Greene

Edna E. Morrell '

Robert P. Earnest

Foster Morrell



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

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
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DATE: July 19, 1979

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Geanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

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Foster Morrell

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EIPaso NATURAL GAS

P. O. 80X 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

July 17, 1979

ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS ALL OVERRIDING ROYALTY INTEREST OWNERS



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Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

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- " -

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

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U.S.A. c/o United States Geological Survey Roswell, New Mexico

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Edna E. Morrell

Robert P. Earnest



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

July 17, 1979

General American Oil Co. of Texas Mondows Building Dallas, Texas 75206

Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

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GENERAL AMERICAN OIL CO. OF TEXAS Very truly yours,

NET PROFITS INTEREST

Veanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NK-2113

cc: John Ahlm

Carl Matthews

David Burleson



P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE 915-543-2000

July 17, 1979



ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS ALL OVERRIDING ROYALTY INTEREST OWNERS

San Juan 27-4 Unit 037 Well W/2 Seption 33, T-27-N, R-4-W Rio Arriba County, New Mexico

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BY: 1 Course, Manager

DATE: 164 2 1979

Very truly yours,

Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

3

Mary Jone Chappell

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Robert P. Earnest

27 1979

EIPaso NATURAL GAS

P. O. BOX 1492 EL PASO, TEXAS 79 78 DEPARTMENT TO PHONE: 915-543-2800

July 17, 1979

ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS ALL OVERRIDING ROYALTY INTEREST OWNERS

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BY:

TITLE:

DATE:

Very truly yours,

Peanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

OVERRIDING ROYALTY INTEREST OWNERS

J. R. Abraham

Mary F. Abraham

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James V. Harrington

Xelpho N. Greene

Edna E. Morrell

Robert P. Earnest

Hanne

EIPaso NATURAL GAS

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

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
ALL OVERRIDING ROYALTY INTEREST OWNERS



Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

Dear Interest Owner:

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Control National Blank of Document of Desires and By:

Entry M. Peterson

Trust Officer TITLE:

DATE:

Very truly yours,

Geanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NH-2113 ec: John Ahlm

Carl Matthews David Burleson

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

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Thomas H. Harrington

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COMPANY



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El Paso NATURAL GAS

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

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
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Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

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DATE: August 1 1879

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Geanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

Mary Jone Chappell

Clifton Resources, Inc.

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F. Eugene Harrington

Gerald E. Harrington

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July 17, 1979

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Jeanne J. Monuson Geanne L. Morrison Associate Landman

Land Department Exploration

JLM/sfg NH-2113 oc: John Ahlm Carl Matthews David Burleson

Mary Jone Chappell

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Xelpho N. Greene

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

July 17, 1979

ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS ALL OVERRIDING ROYALTY INTEREST OWNERS

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The procedure hereinabove described will be presented in a hearing, currently The procedure hereinabove described will be presented in a hearing, currently scheduled in early August, before the New Mexico Oil Conservation Division. Said hearing will be conducted for the purpose of receiving the Division's

approval of the procedure described above. For our presentation at this hearing, El Paso must show that the interest owners to be affected have agreed to this procedure and the allocation to be determined therefrom.

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BY: Molitt Carnet

TITLE: ORI owner

DATE: 7-15-75

Very truly yours,

Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

c/o United States Geological Survey

Roswell, New Mexico

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Central National Bank and Trust Company of Des Moines, Iowa, Trustee under the Will of Gerald F. Harrington

Gerald F. Harrington

F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

RECT AUT 200 A

Jeanne

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

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
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EI Paso NATURAL GAS

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ax: Velorio II Frience

TITLE: Bread Currer

DATE: Jugust 20-79

Very truly yours,

Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113

ce: John Ahlm Carl Matthews David Burleson

Mary Jone Chappell

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Gerald E. Harrington

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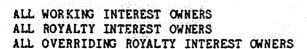
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7 Jeanne

El Paso COMPANY

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2500

July 17, 1979





Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

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BY: Miny Jani Chappell

TITLE: Interior pure

DATE: 9-7-79

Very truly yours,

Veanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

Mary Jone Chappell

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Elizabeth Graham

Edna E. Morrell Robert P. Earnest

C. 100 C

E Paso NATURAL GAS

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2800

July 17, 1979



ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS ALL OVERRIDING ROYALTY INTEREST OWNERS

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CTITLE:

DATE:

Very truly yours,

Jeanne L. Morrison Associate Landman

eaune T.

Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm

Carl Matthews

David Burleson

ACTOR OF STREET

Mary Jone Chappell

Clifton Resources, Inc.

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Gerald E. Harrington

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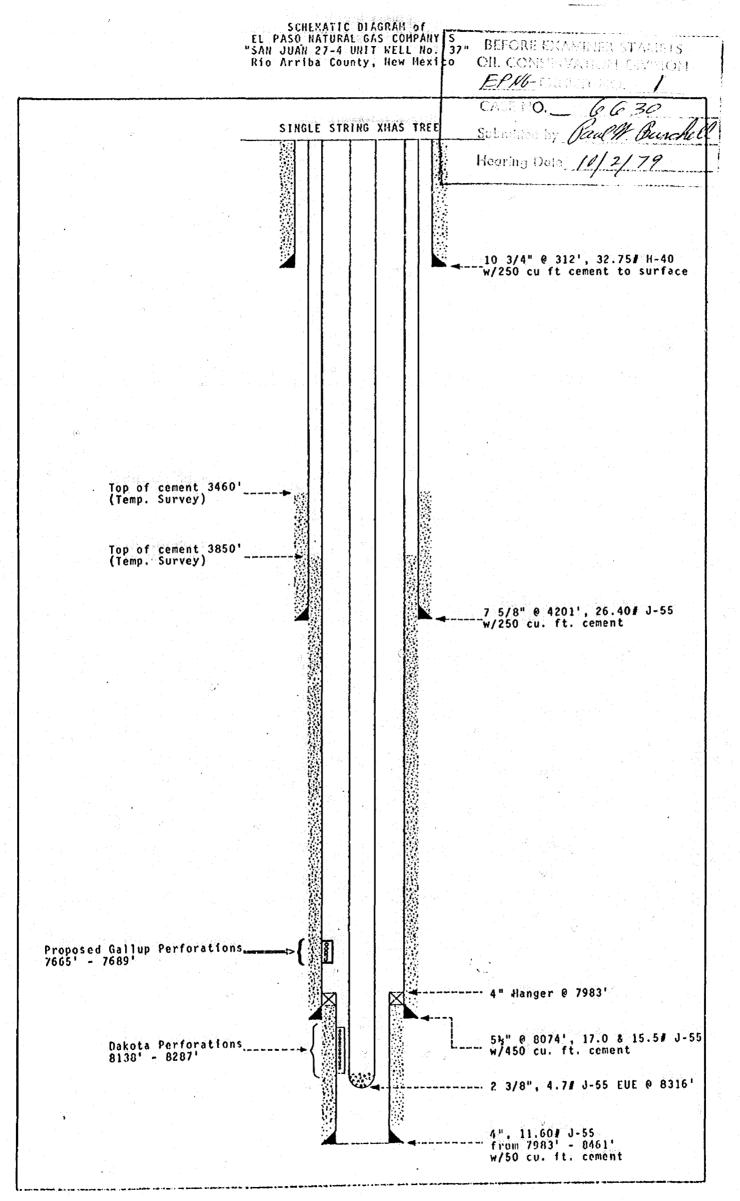
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Robert P. Earnest



EL PASO NATURAL GAS COMPANY

WELL LOCATION MAP

B S MESA-GALLUP GAS POO

RIO ARRIBA COUNTY, NEW MEXICO

EXHIBIT NO. 2

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EPNG-EXHIBIT NO. 2
CASE NO. 6630
Submilled by Ranch Benchill
Hearing Dale 1012179

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O MCF - 1978 AVERAGE DAILY GAS PRODUCTION
BARRELS - 1978 AVERAGE DAILY CONDENSATE PRODUCTION

SCALE: 1 INCH = 3000 FEET

EL PASO NATURAL GAS COMPANY

WELL LOCATION MAP

BASIN-DAKOTA GAS POOL

RIO ARRIBA COUNTY, NEW MEXICO Hearing Date 10/1/79

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EPNG-EXHIBIT NO. 3
CASE NO. 6630
Submilled by Baul & Burshille

- 110 2

EXHIBIT NO. 3

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BEFORE EXAMINER STAME IS OIL CONSE VARION FLORIDA EPNG STREET 4 CASENO, 6630 Submitted J.L. Morrison

EIPaso NATURAL GAS

HOUSE 10/2/79 P. O. 80X 1492 EL PASO JEXAS 79978

PHONE: 915-543-2600

July 17, 1979

ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS

ALL OVERRIDING ROYALTY INTEREST OWNERS

Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

Dear Interest Owner:

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TITLE: MAN PUG Particly

DATE: 7/26/79

Very truly yours,

Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews

David Burleson

ž.

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership V

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

OVERRIDING ROYALTY INTEREST OWNERS

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Mary F. Abraham

Mike C. Abraham, Trustee

Union Oil Co. of California

John C. Meadows

Helen Kerr Ochsner

T. H. Harrington

Central National Bank and Trust Company of Des Moines, Iowa, Trustee under the Will of Gerald F. Harrington

Gerald F. Harrington

F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

Xelpho N. Greene

Edna E. Morrell

Robert P. Earnest

Foster Morrell



P. O. 80X 1492 EL PASO. TEXAS: 79978 PHONE: 915-543-2600

July 17, 1979

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TITLE:			
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JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

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Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

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Gerald F. Harrington

F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

Elizabeth Graham

Xelpho N. Greene

Edna E. Morrell

Robert P. Earnest

Foster Morrell

. 11



P. O. 80X 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

July 17, 1979

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BY: Junean & Hill sin

TITLE: Vice Pres. and Trust Officer

DATE: July 19, 1979

Very truly yours,

Deanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm Carl Matthews David Burleson

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SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

All Colors on

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

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

July 17, 1979

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El Paso NATURAL GAS

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

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DATE:

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JLM/sfg NM-2113 ce: John Ahlm Carl Matthews David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS Wary Joue Chappell General American Oil Company of Texas Clifton Resources, Inc. F. Eugene Harrington Gerald E. Harrington V James V. Harrington Thomas H. Harrington PWG Partnership Kelpho N. Greens Mr. M. A. Romero ROYALTY INTEREST OWNER U.S.A. c/o United States Geological Survey Edna E. Moticili OVERRIDING ROYALTY INTEREST OWNERS Roswell, New Mexico Robert P. Farnest Foster Morrell J. R. Abraham Mary F. Abraham Mike C. Abraham, Trustee Union Oil Co. of California John C. Meadows Helen Kerr Ochsner Central National Bank and Trust Company of Des Moines, Jowa, Harrington the Will of Gerald F. Harrington T. H. Harrington Gerald F. Harrington

F. Eugene Harrington

Wary Jone Chappell

James V. Harrington



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

July 17, 1979

General American Oil Co. of Texas Mendows Building Dallas, Texas 75206

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GENERAL AMERICAN OIL CO. OF TEXAS Very truly yours,

NET PROFITS INTEREST

Geanne L. Horrison Associate Landman

Land Department Exploration

JLM/sfg NM-2113

cc: John Ahlm

Carl Matthews David Burleson

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EIPaso NATURAL GAS

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fittle:

Very truly yours,

Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

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Foster Morrell

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Vinne

EIPaso NATURAL GAS

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

July 17, 1979

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BY:

Trust Officer

TITLE:

Trust Officer

DATE: 8/2/79

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Leave A. Monuson

Veanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

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Edna E. Morrell

Robert P. Earnest

Foster Morrell

Jenn

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

July 17, 1979

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BY: T. L. Hammit

TITLE: WI. LOLLE. OWNER

DATE: August 1, 1879

Very truly yours,

eanne (

Geanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm Carl Matthews David Burleson

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Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews

David Burleson

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Edna E. Morrell

Robert P. Earnest

Foster Morrell

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El Paso COMPANY



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

July 17, 1979

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BY: Molitiff Carnes

TITLE: CRI Owner

DATE: 7-15-75

Very truly yours,

Veanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm

Carl Matthews

David Burleson

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

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BY: Veloio 11 Arone

TITLE: Land Carron

DATE: Magant 20-9-1

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Jeanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm Carl Matthews

David Burleson

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BY: They Jane Chaffield

DATE: 9-7-74

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cc: John Ahlm Carl Matthews

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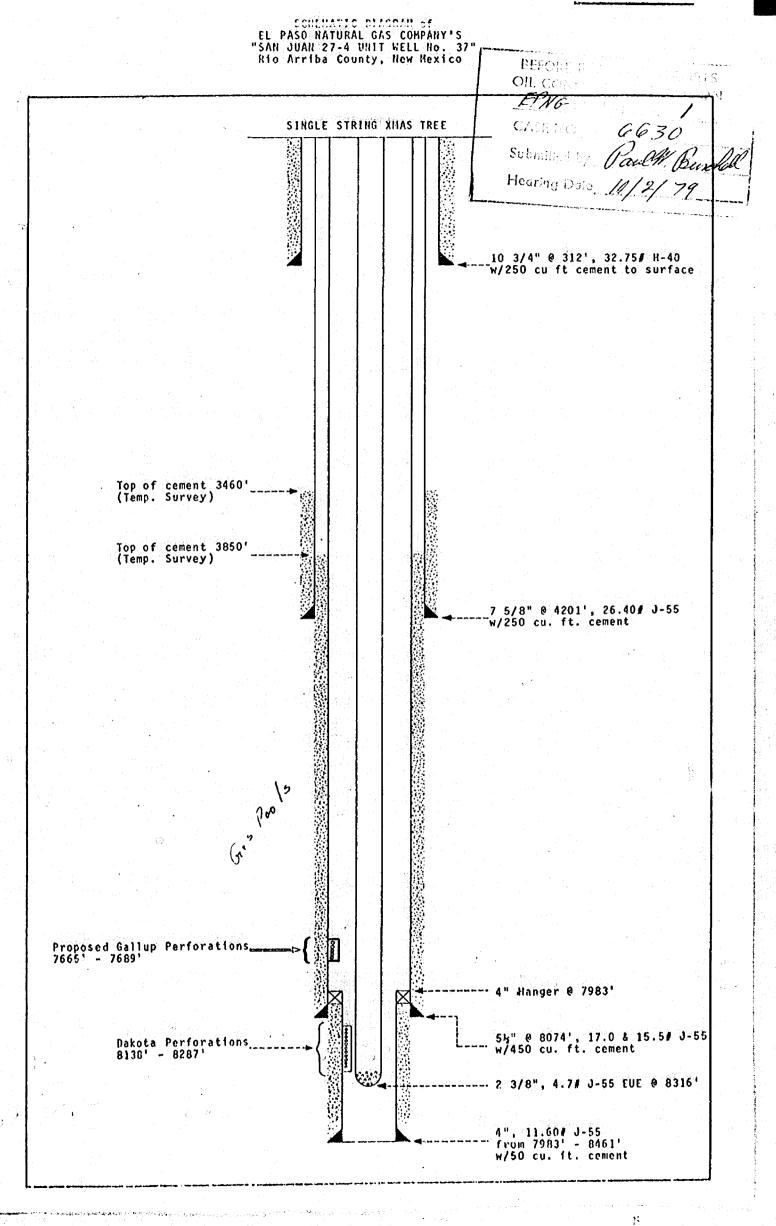
Mary Jone Chappell

James V. Harrington

Elizabeth Graham

Foster Morrell

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EL PASO NATURAL GAS COMPAN'

WELL LOCATION MAP

B S MESA-GALLUP GAS POOL

RIO ARRIBA COUNTY, NEW MEXICO

BEFORE EMA HASA TAKES

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EPNG-DAHLAH B. 2

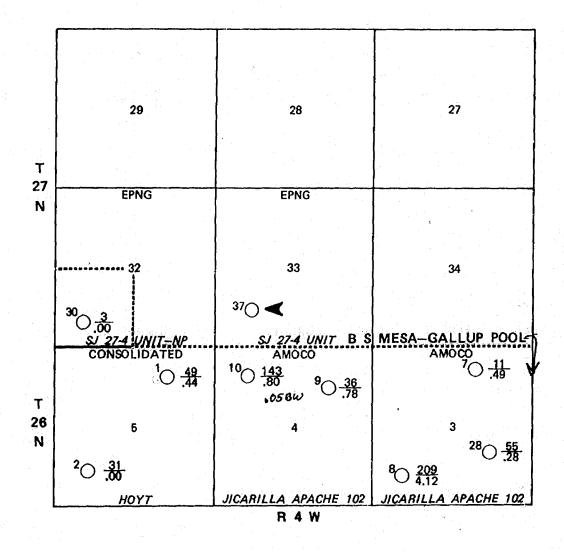
CASE NO. 6630

Submitted by Routh Burchell

Hearing Date 10/2/79

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EXHIBIT NO. 2



O MCF - 1978 AVERAGE DAILY GAS PRODUCTION

BARRELS - 1978 AVERAGE DAILY CONDENSATE PRODUCTION

SCALE: 1 INCH = 3000 FEET

WELL LOCATION MAP

BASIN-DAKOTA GAS POOL

RIO ARRIBA COUNTY, NEW MEXICOHER DATE OF THE PROPERTY OF THE PROPERT

EXHIBIT NO. 3

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O MCF - 1978 AVERAGE DAILY GAS PRODUCTION
BARRELS -- 1978 AVERAGE DAILY CONDENSATE PRODUCTION

SCALE: 1 INCH = 3000 FEET

EIPaso NATURAL GAS

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION OF
EPNG EXHIBIT NO. 4

CASE NO. 6630

Submittee by Marrisono. BOX 1492
EL PASO, TEXAS -79978

Hearing Date 199/79 PHONE: 915-543-2600

July 17, 1979

ALL WORKING INTEREST OWNERS ALL ROYALTY INTEREST OWNERS ALL OVERRIDING ROYALTY INTEREST OWNERS

Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

Dear Interest Owner:

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TITLE: Non Puro faiteable

DATE: 7/26/79

Very truly yours,

Veanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 ec: John Ahlm Carl Matthews David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership V

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

OVERRIDING ROYALTY INTEREST OWNERS

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Mary F. Abraham

Mike C. Abraham, Trustee

Union Oil Co. of California

John C. Meadows

Helen Kerr Ochsner

T. H. Harrington

Central National Bank and Trust Company of Des Moines, Iowa, Trustee under the Will of Gerald F. Harrington

Gerald F. Harrington

F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

Xelpho N. Greene

Edna E. Morrell

Robert P. Earnest

Foster Morrell

E Paso NATURAL GAS

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

July 17, 1979

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BY: Elizabeta Stakame!

TITLE:

DATE: 7/23/79

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Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

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SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

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General American Oil Company of Texas

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Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

Xelpho N. Greene

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John C. Meadows

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T. H. Harrington

Central National Bank and Trust Company of Des Moines, Iowa, Trustee under the Will of Gerald F. Harrington

Gerald F. Harrington

F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

Elizabeth Graham

Edna E. Morrell

Robert P. Earnest

Foster Morrell

14

El Paso NATURAL GAS

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

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
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BY: Supring & Litterie

TITLE: Vice Pres. and Trust Officer

DATE: July 19, 1979

Very truly yours,

Geanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NM-2113 cc: John Ahlm

Carl Matthews David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

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Central National Bank and Trust Company of Des Moines, Iowa, Trustee under the Will of Gerald F. Harrington

Gerald F. Harrington

F. Eugene Harrington

Mary Jone Chappell

James V. Harrington

Xelpho N. Greene

Edna E. Morrell

Robert P. Earnest

Foster Morrell



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

July 17, 1979

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BY: Sylven & Gillispie TITLE: Zice Rusilint & Trust Office

DATE: July 19, 1979

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eanne L. Monuson Geanne L. Morrison Associate Landman Land Department

Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

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Robert P. Earnest

Foster Morrell

grann

EIPaso NATURAL GAS

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

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
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W/2 Section 33, T-27-N, R-4-W
Rio Arriba County, New Mexico

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Very truly yours,

Weanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 co: John Ahlm Carl Matthews David Burleson

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Gerald E. Harrington

James V. Harrington

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Edna E. Morrell

Robert P. Earnest

Foster Morrell

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P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915.543-2600

July 17, 1979

General American Oil Co. of Texas Meadows Building Dallas, Texas 75206

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GENERAL AMERICAN OIL CO. OF TEXAS Very truly yours,

NET PROFITS INTEREST

Geanne L. Morrison Associate Landman

eanne of

Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm

Carl Matthews

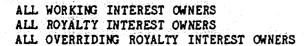
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Jean

El Paso NATURAL GAS

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BY: F Giller Police In

DATE: // 2, 1177

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JLM/sfg NM-2113 de: John Ahlm Carl Matthews David Burleson

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27 1979

EIPaso NATURAL GAS



July 17, 1979

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Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

SAN JUAN 27-4 UNIT WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

ROYALTY INTEREST OWNER

U.S.A. c/o United States Geological Survey Roswell, New Mexico

Xelpho N. Greene

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Edna E. Morrell

Robert P. Earnest

Foster Morrell

Hann.

EI Paso COMPANY

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2800

July 17, 1979

ALL WORKING INTEREST OWNERS
ALL ROYALTY INTEREST OWNERS
ALL OVERRIDING ROYALTY INTEREST OWNERS



Re: San Juan 27-4 Unit #37 Well W/2 Section 33, T-27-N, R-4-W Rio Arriba County, New Mexico

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Carry M. Peterson

Trust Officer TITLE:

Very truly yours,

Weanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

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July 17, 1979

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BY: T. N. Hannyt

TITLE: UI & OLLE OWNER

DATE: August 1, 1979

Very truly yours,

Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 cc: John Ahlm Carl Matthews David Burleson

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Foster Morrell

El Paso NATURAL GAS

P. O. BOX 1492 EL PASO, TEXAS 73978 PHONE: 915-543-2600

July 17, 1979

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ALL ROYALTY INTEREST OWNERS
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BY: MAR

TITLE: V. I. oner

DATE: 8-11-79

Very truly yours,

Weanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 co: John Ahlm Carl Matthews David Burleson

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Jean





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

July 17, 1979

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BY: Molitiff arment

TITLE: OIL DWIEN

DATE: 7-15-75

Very truly yours,

Jeanne L. Morrison Associate Landman Land Department Exploration

JLM/sfg NM-2113 co: John Ahlm

Carl Matthews

David Burleson

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Gerald E. Harrington

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P. O. 80X 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

July 17, 1979

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Land Department Exploration

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Carl Matthews David Burleson

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BY: There for Chappell

DATE: 9-7-79

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Associate Landman Land Department

Exploration

JLM/sfg NM-2113

cc: John Ahlm Carl Matthews

David Burleson

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Foster Morrell

J. O. SETH (1883-1983)

A. K. MONTGOMERY
FRANK ANDREWS
FRED C. HANNAHS
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FRANK ANDREWS III
OWEN M. LOPEZ
VICTOR R. ORTEGA
JEFFÍ EY R. BRANNEN
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MICHAEL W. BRENNAN
ROBERT P. WORCESTER
JOHN B. DRAPER
NANCY M. ANDERSON
JOHN K. SILVER
RUDOLPH B. SACKS, JR.

MONTGOMERY, ANDREWS & HANNAHS

PROFESSIONAL ASSOCIATION
ATTORNEYS AND COUNSELORS AT LAW
325 PASEO DE PERALTA
POST OFFICE BOX 2307
SANTA FE, NEW MEXICO 87501

September 27, 1979

TELEPHONE 505-982-3873

TELECOPY 505-982-4289

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

Re: NMOCC Case No. 6630 - Application of El Paso Natural Gas Company for downhole commingling, San Juan 27-4 Unit Well No. 37 located in Unit N of Section 33, T27N, R4W, Rio Arriba County, New Mexico.

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

Owen M. Lopez

OML: to

Docket No. 38-79

Dockets Nos. 40-79 and 41-79 are tentatively set for October 17 and 31, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - TUESDAY - OCTOBER 2, 1979

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

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

CASE 6656: (Continued from September 19, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Energy Oil & Gas Corp., The Travelers Indemnity Co., and all other interested parties to appear and show cause why the Sadler Well No. 1 located in Unit I of Section 3, Township 24 North, Range 29 East, Union County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 6640: (Continued from September 5, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Miles Production Company, National Surety Corporation, and all other interested parties to appear and show cause why the Thomas Drought Well No. 1 located in Unit A of Section 4, Township 15 North, Range 6 West, McKinley County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- CASE 6687: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit McCoy and Phillips and all other interested parties to appear and show cause why the Martin Well No. 1 located in Unit N of Section 34, Township 30 North, Range 11 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 6688: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Phillips and Spence and all other interested parties to appear and show cause why the Martin Well No. 2 located in Unit N of Section 34, Township 30 North, Range 11 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 6689: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit one "Goodrum" and all other interested parties to appear and show cause why the E. C. Brawley Well No. 1 located in Unit O of Section 34, Township 30 North, Range 11 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 6690: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Elvis L. Roberts, The Travelers Indemnity Co., and all other interested parties to appear and show cause why the Bergin Well No. 1 located in Unit F of Section 21, Township 29 North, Range 11 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.
- CASE 6691: In the matter of the hearing called by the Oil Conservation Division on its own motion to consider the addition of a Rule 10(D) to Order No. R-1670-T, Blanco Mesaverde Infill Drilling Order, San Juan and Rio Arriba Counties, New Mexico, to require that both wells on a proration unit be tested when an infill well has been completed. Said Rule 10(D) would be identical to Rule 10(D) of Order No. R-1670-V for the Basin-Dakota Pool.
- CASE 6692: In the matter of the hearing called by the Oil Conservation Division on its own motion to consider the amendment of Order No. R-333-F-2 to require that gas wells in the Pictured Cliffs or shallower formations be classified "exempt marginal" if at least three months of production history is available and their average production for the months produced within the preceding 12-month period is less than 1000 MCF per month. The same amendment is sought for wells completed below the Pictured Cliffs formation except that minimum production would have to average less than 2000 MCF per month. Also to be considered would be the requirement in Order No. R-333-F-2 and in Rule 10(C) of Orders Nos. R-1670-T and R-1670-V that no well on a multiple well proration unit could be classified exempt marginal unless all wells on the unit are eligible for such reclassification.
- CASE 6674: Application of Tenneco Oil Corporation for downhole commingling, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Blanco-Pictured Cliffs production in the wellbore of its Florence Well No. 115 located in Unit M of Section 10, Township 30 North, Range 9 West.

- CASE 6644: (Continued from September 19, 1979, Examiner Hearing)
 - Application of Tenneco Oil Corporation for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Pictured Cliffs production in the wellbores of its State K Com Well No. 12 located in Unit E of Section 16, Township 30 North, Range 9 West, and its Florence Well No. 60R in Unit L of Section 1, Township 29 North, Range 9 West.
- CASE 6675: Application of Gifford, Mitchell & Wisenbaker for a unit agreement, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the Pawnee Unit Area, comprising 3,840 acres, more or less, of State and federal lands in Township 26 South, Range 36 East.
- CASE 6671: (Continued from September 19, 1979, Examiner Hearing)
 - Application of Chapman and Schneider for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Seven Rivers Reef formation in the open-hole interval from 3422 feet to 3504 feet in its I. B. Ogg "A" Well No. 3 located in Unit E of Section 35, Township 24 South, Range 36 East, Jalmat Pool.
- CASE 6676: Application of Doyle Hartman for an unorthodox well location and a non-standard proration unit,
 Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an 80-acre nonstandard gas proration unit comprising the SW/4 NE/4 and SE/4 NW/4 of Section 36, Township 24 South,
 Range 36 East, Jalmat Gas Pool, to be dedicated to a well to be drilled at an unorthodox location
 2310 feet from the North line and 1650 feet from the East line of said Section 36.
- CASE 6677: Application of Texas Pacific 011 Company, Inc. for downhole commingling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of ArrowheadGrayburg and Eumont production in the wellbore of its Elliott B-6 Well No. 1 located in Unit M of Section 6, Township 22 South, Range 37 East.
- CASE 6678: Application of Texas Pacific Oil Company, Inc. for downhole commingling and a special casinghead gas allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry and Tubb production in the wellbore of its Eva Owens Well No. 1 located in Unit M of Section 25, Township 21 South, Range 37 East. Applicant further seeks an increase in the casinghead gas allowable for said well.
- CASE 6660: (Continued from September 19, 1979, Examiner Hearing)
 - Application of B. 6 W. 011 Reclaiming for an oil treating plant permit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at a site in the NE/4 NE/4 NE/4 of Section 34, Township 18 South, Range 26 East.
- CASE 6679: Application of El Paso Natural Gas Company for a gas storage unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Washington Ranch Morrow Unit Area comprising the Norrow formation and the first 100 feet immediately above and below said formation underlying all or parts of Sections 21 thru 23, 26 thru 29, and 32 thru 36, Township 25 South, Range 24 East; Sections 1 thru 5 and 9 thru 14, Township 26 South, Range 24 East; and Sections 6, 7, and 18, Township 26 South, Range 25 East, Washington Ranch-Morrow Gas Pool, Eddy County, New Mexico. Said unit area would be for the purpose of conducting a gas storage project and would comprise 12,158 acres, more or less, of State, federal and fee lands.
- . CASE 6630: (Continued from August 22, 1979, Examiner Hearing)
 - Application of El Paso Natural Cas Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin-Dakota and DS Mesa-Gallup production in the wellbore of its San Juan 27-4 Unit Well No. 37 located in Unit N of Section 33, Township 27 North, Range 4 West.
- CASE 6680: Application of Robert C. Anderson for surface commingling, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the surface commingling of all production from his Ute Mountain Ute Lease, Wells Nos. 1, 3 and 4, located in Section 14, Township 31 North, Range 16 West.
- CASE 6681: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Wolfcamp-Mississippian test well to be located 660 feet from the South line and 1100 feet from the West line of Section 31, Township 18 South, Range 26 East, the S/2 of said Section 31 to be dedicated to the well.

Page 3 of 4 Examiner Hearing - Tuesday - October 2, 1979

Docket No. 38-79

CASE 6682: (This case will be dismissed.)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Mississippian formations underlying the N/2 of Section 28, Township 18 South, Range 29 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

- CASE 6683: Application of Read & Stevens, Inc. for an unorthodox well location and non-standard oil proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Devonian test well to be located 330 feet from the North line and 100 feet from the West line of Section 6, Township 11 South, Range 37 East, Lots 5 and 6 of said Section 6 to be dedicated to the well as a non-standard 49.33-acre proration unit.
- CASE 6684: Application of CO2-In-Action, Inc. for creation of a new carbon dioxide gas pool and special pool rules, Harding County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the North Bueyeros-Santa Rosa CO2 Gas Pool and the promulgation of special pool rules therefor, including a provision for 40-acre spacing and provation units. Said pool would comprise all or parts of Sections 1 thru 4, Township 20 North, Range 30 East, and Sections 8, 9, 10, 15, 16, 17, 20, 21, 22, 27, 28, 32, 33 and 34, Township 21 North, Range 30 East.
- CASE 6685: Application of ARCO 011 and Gas Company 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 J. R. Cone A Well No. 2 located in Unit L of Section 26, Township 21 South, Range 37 East.
- CASE 6686: Application of Mesa Petroleum Company for an exception to Order No. R-111-A, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks an exception to the casing-cementing rules of Order No.

 R-111-A to permit a well to be drilled in Unit F of Section 6, Township 20 South, Range 31 East, without a salt protection string and to circulate cement on the production string. Applicant also seeks the same exception for a possible future well in Unit E of said Section 6.

Docket No. 39-79

DOCKET: COMMISSION HEARING - WEDNESDAY - OCTOBER 3, 1979

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

CASE 6652: (Continued from September 19, 1979, Examiner Hearing)

Application of Shell Oil Company for statutory unitization, Lea County, New Mexico. Applicant, in the above-styled chuse, seeks an order unitizing, for the purpose of a pressure maintenance project, all mineral interests in the North Hobbs Grayburg-San Andres Unit encompassing 10,650 acres, more or less, underlying all or portions of the following lands in Lea County, New Mexico: Sections 13, 14, 23, 24, 25, 26, and 36, Township 18 South, Range 37 East; Sections 17 through 21 and 27 through 34, Township 18 South, Range 38 East.

The unitized interval would be the Grayburg-San Andres Formation between the depths of 3,698 feet and 4,500 feet in Shell's State A Well No. 7, located in Unit H of Section 32, Township 18 South, Range 38 Fast.

Among the matters to be considered at the hearing will be the necessity of unit operations; the designation of a unit operator; the determination of the horizontal and vertical limits of the unit area; the determination of a fair, reasonable, and equitable allocation of production and costs of production, including capital invastment, to each of the various tracts in the unit area; the determination of credits and charges to be made among the various owners in the unit area for their investment in wells and equipment; and such other matters as may be necessary and appropriate for carrying on efficient unit operations, including, but not necessarily limited to, unit voting procedures, selection, removal, or substitution of unit operator, and time of commencement and termination of unit operations.

Docket No. 39-79

Page 4 of 4 Commission Hearing - Wednesday - October 3, 1979

CASE 6653: (Continued from September 19, 1979, Examiner Hearing)

Application of Shell Oil Company for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project on its North Hobbs Grayburg-San Andres Unit, by the injection of water through 70 wells into the Grayburg-San Andres formation, and the adoption of special rules governing said project.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT Oil Conservation Division State Land Office Building Santa Fe, New Mexico 22 August 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico.

CASE 6630

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel for the Division State Land Office Bldg. Santa Fe, New Mexico 87503

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MR. NUTTER: We'll call now Case Number

6630.

MR. PADILLA: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico.

MR. NUTTER: Applicant in this case has requested that the case be continued to October 3rd, so it will be continued to the Examiner Hearing scheduled to be held at this same place at 9:00 a. m. October 3rd, 1979.

(Hearing concluded.)

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
1010 Plaza Blance (1015) 471-3462
Sante Fo. Now Moxico 17501

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REPORTER'S CERTIFICATE

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

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6630 heard by me on 8/22 19,79.

Examiner

Oil Conservation Division

SALLY WALTON BOY SETTIFIED SHORTHAND REPORT 120 PLAZE BINDGE (605) 4712-

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT Oil Conservation Division State Land Office Building santa Fe, New Mexico 2 22 August 1979 3 EXAMINER HEARING 4 Б 6 IN THE MATTER OF: Application of El Paso Natural Gas) CASE 6630 Company for downhole commingling, 7 Rio Arriba County, New Mexico. 8 9 BEFORE: Daniel S. Nutter 10 11 TRANSCRIPT OF HEARING 12 13 APPEARANCES 14 15 Ernest L. Padilla, Esq. Legal Counsel for the Division For the Oil Conservation 16 State Land Office Bldg. Division: Santa Fe, New Mexico 87503 17 18 19 20 21 22 23 24 25

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6630.

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MR. NUTTER: We'll call now Case Number

MR. PADILIA: Application of El Paso
Natural Gas Company for downhole commingling, Rio Arriba
County, New Mexico.

MR. NUTTER: Applicant in this case has requested that the case be continued to October 3rd, so it will be continued to the Examiner Hearing scheduled to be held at this same place at 9:00 a. m. October 3rd, 1979.

(Hearing concluded.)

SALLY WALTON BOY ERITFED SHORTHAND REPORT 120 Plaza Binnes (606) 411-41 Santa Po, New Mexico 515-0 Ā

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY

CERTIFY that the foregoing and attached Transcript of

Hearing before the Oil Conservation Division was reported

by me; that the said transcript is a full, true, and correct

record of the hearing, prepared by me to the best of my

ability, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Gase No. 6630, heard by me on 8/22 19.79.

Oll Conservation Division Examiner

SALLY WALTON CERTIFIED SHORTHAND 1010Plaza Blanca (605 Santa Fe, Now Medical

P. O. BOX 1492 EL PASO, TEXAS 79978 E. CHENE: \$15:54312600 CONSERVATION DIVISION SANTA FE

August 17, 1979

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

Re: Commingling Request

EPNG - San Juan 27-4 Unit Well #37

Rio Arriba County, New Mexico

C.D. No. 6630

Gentlemen:

Continue Case 6630

El Paso Natural Gas Company respectfully requests that the above referenced hearing be postponed from August 22, 1979, to October 3, 1979.

Thank you for your consideration in this matter, and I hope this change does not cause you any inconvenience.

Very truly yours,

E. R. Manning

ERM:1p

cc: D. E. Adams
David T. Burleson

D. N. Canfield

W. D. Dawson

John F. Eichelmann, Jr.

Carl E. Matthews

NMOCD-District 3

L. G. Truby

U. S. G. S.

George Lippman

Docket No. 32-79

Dockets Nos. 35-79 and 36-79 are tentatively set for September 5 and 19, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 22, 1979

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 6545: (Continued from July 25, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Corinne Grace, Travelers Indemnity Company, and all other interested parties to appear and show cause why the Kuklah Baby Well No. 1 located in Unit G of Section 24, Township 22 South, Range 26 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- CASE 6626: Application of T. H. McElvain Oil & Gas Properties for pool commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the commingling of Gallup and Dakota production in its Miller B Well No. 6 located in Unit G of Section 12, Township 24 North, Range 7 West.
- CASE 6627: Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup formation underlying a previously approved 64.32-acre non-standard unit comprising the NW/4 NW/4 and that portion of Lot 5 lying north of the San Juan River, all in Section 18, Township 29 North, Range 14 West, Cha Cha-Gallup Oil Pool, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6628: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Skaggs-Glorieta, Skaggs-Drinkard and East Weir-Blinebry production in the wellbore of its M. B. Weir "B" Well No. 9 located in Unit O of Section 12, Township 20 South, Range 37 East.
- CASE 6629: Application of Hilliard Oil & Cas, Inc. for directional drilling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to directionally drill its Hanson Bonds Well

 No. 1 located 1650 feet from the North line and 330 feet from the East line of Section 20, Township

 9 South, Range 35 East, to a Devonian bottom hole location within 100 feet of a point 1325 feet
 from the North line and 430 feet from the East line of said Section 20.
- Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin-Dakota and BS Mesa-Gallup production in the wellbore of its San Juan 27-4 Unit Well No. 37 located in Unit N of Section 33, Township 27 North, Range 4 West.
- CASE 6631: Application of Reserve Oil, Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat gas and Langlie Mattix Oil production in the wellbore of its Cooper Jal Unit Well No. 149-306 located in Unit J of Section 18, Township 24 South, Range 37 East.
- CASE 6632: Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Frank State Well
 No. 1 located in Unit I of Section 7, Township 19 South, Range 23 East, to produce gas from the Abo
 and Morrow formations, Runyan Ranch Field, through the casing-tubing annulus and through tubing.
- CASE 6633: Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Yates Pederal Com Well No. 1-Y located in Unit J of Section 20, Township 17 South, Range 27 East, to produce gas from the Logan Draw-Cisco Canyon Gas Pool and an undesignated Morrow pool through the casing-tubing annulus and through tubing.
- CASE 6634: Application of Durham Inc. for special pool rules or a spicing exception, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Lake
 Arthur-Pennsylvanian Gas Pool to provide for 320-acre spacing rather than 160 acres. In the absence
 of objection, this pool will be placed on the standard 320-acre spacing for Pennsylvanian gas pools
 rather than the present 160-acre spacing. In the alternative applicant seeks to limit the application of the pool's rules to the horizontal limits of the pool, being the SW/4 of Section 31, Township
 15 South, Range 27 East.

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM

Section 4: N/2 and SE/4

N/2 N/2 Section 5:

Section 6:

Section 9: NE/4 Section 10:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM Section 19: SW/4
Section 20: W/2

Section 31: W/2

(c) CREATE a new pool in San Juan County, New Mexico, classified as a gas pool for Fruitland production and designated as the Farmer-Fruitland Pool. The discovery well is Manana Gas, Incorporated Bobbie Herrera Well No. 1 located in Unit K of Section 4, Township 30 North, Range 11 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 11 WEST, NMPM Section 4: SW/4

(d) CREATE a new pool in San Juan County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the Big Gap-Pennsylvanian Oil Pool. The discovery well is Bass Enterprises Production Company Navajo 20 Well No. 1 located in Unit O of Section 20, Township 27 North, Range 19 West, NMPM. Said pool would comprise:

TOWNSHIP 27 NORTH, RANGE 19 WEST, NMPM Section 20: SE/4

(e) EXTEND the Aztec-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 10 WEST, NMPM Section 29: NE/4

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM Section 25: SE/4

(f) EXTEND the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM Section 35: E/2

(g) EXTEND the Bisti-Lower Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 14 WEST, NMPM Section 9: E/2 SE/4
Section 10: SW/4

Section 15: N/2 NE/4

(h) EXTEND the Blanco Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 3 WEST, IMPM

Section 4: N/2

TOWNSHIP 26 NORTH, RANGE 2 WEST, NNPM Section 30: All (Partial Section) Section 31: All (Partial Section)

TOWNSHIP 27 NORTH, RANGE 2 WEST, NMPM

Section 16: W/2 Section 20: E/2 Section 21: NW/4

(1) EXTERD the Blanco-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 8 WEST, NMPM Section 4: NW/4

Section 5: NE/4

Examiner Hearing - Wednesday - August 22, 1979

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TOWNSHIP 30 KORTH, RANGE 14 WEST, MMPM Section 35: N/2 and SE/4

(q) EXTEND the Harris Mesu-Chacra Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 9 WEST, NYPM Section 5: NE/4

TOWNSHIP 28 NORTH, RANGE 9 WEST, NNPM Section 32: E/2

(r) EXTEND the Kutz-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 11 WEST, MAPM Section 32: NE/4

(8) EXTEND the West Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM Section 26: SW/4

EXTEND the La Plata-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 32 NORTH, RANGE 13 WEST, RMPM Section 32: N/2 and SN/4

(u) EXTEND the West Lindrith Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, to include therein: (t) therein:

TOWNSHIP 24 NORTH, RANGE 3 WEST, NNPM Section 6: S/2 (Partial Section) Section 18: All (Partial Section)

TOWNSHIP 24 NORTH, RANGE 4 WEST, NOPM
Section 5: N/2
Section 6: N/2

(v) EXTEND the Otero-Chacra Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein: therein:

TOWNSHIP 76 NORTH, RANGE 7 WEST, NMPM Section 3: All

(w) EXTEND the Pusty-Chacra Pool in Sandoval County, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 7 WEST, NMPM Section 20: SE/4

EXTEND the Straight Canyon-Dakota Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 31 NORTH, RANGE 16 WEST, NMPM Section 14: SE/4

(y) EXTEND the WAW Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein: therein:

TOWNSHIP 26 NORTH, RANGE 12 WEST, SMPM
Section 29: S/2
Section 30: E/2
Section 32: W/2

Section 32: N/2

TOWNSHIP 26 NORTH, RANGE 13 WEST, NNPM Section 13: E/2 and SW/4 Section 14: SE/4

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM Section 18: 1/2

El Paso NATURAL GAS



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

July 13, 1979

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

Case 6630

Re: Commingling Request EPNG - San Juan 27-4 Unit No. 37 Well

Gentlemen:

El Paso Natural Gas Company respectfully requests a hearing be set before the Commission or its designated examiner at your convenience.

El Paso seeks approval to downhole commingle gas and condensate from the Basin-Dakota Gas Pool with gas and condensate from the BS Mesa-Gallup Gas Pool in its San Juan 27-4 Unit No. 37 Well. This well is located in Unit N of Section 33, T27N-R4W, Rio Arriba County, New Mexico.

Very truly yours,

E. R. Manning

ERM: blb

cc: Messrs: D. E. Adams

David T. Burleson
D. N. Canfield
John F. Eichelmann, Jr.
Carl E. Matthews
NMOCD - District 3
L. G. Truby
U.S.G.S.

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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. 6630 Order No. R-6142 APPLICATION OF EL PASO NATURAL GAS COMPANY FOR DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO. ORDER OF THE DIVISION BY THE DIVISION: This cause came on for hearing at 9 a.m. on October 2 19 79, at Santa Fe, New Mexico, before Examiner Richard L. Stamets NOW, on this day of October 19^{79} , 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.

Range 4 West , NMPM, Rio Arriba County, New Mexico.

(3) That the applicant seeks authority to commingle

Basin-Dakota and BS Mesa-Gallup production

within the wellbore of the above-described well.

(2) That the applicant, El Paso Natural Gas Company, is

the owner and operator of the San Juan 27-4 Unit Well No. 37

located in Unit N of Section 33, Township 27 North

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That from the Basin-Dakota subject well is capable of low marginal production only, BS Mesa-Gallup That from the subject well is/capable of low marginal production only. (6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights. (7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period. (8) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Division any time the subject well is shut-in for 7 consecutive days. (9) That in order to allocate the commingled production to each of the compangled zones in the subject well, percent of the commingled production should be allocated to the Basin-Dakota zone, and percent of the commingled production to the BS/ Mesa-Gallup (ALTERNATE) (9) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

(1) That the applicant, El Paso Natural Gas Company, is
merchy authorized to commingle Racin Dally
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the San Juan 27-4 Unit Well No. 37
the San Juan 27-4 Unit Well No./, located in Unit N of
Section 33 , Township 27 North , Range 4 West
County, New Mexico.
(2) That the applicant shall consult with the
of the Aztec district office of the Division and
determine an allocation formula for the allocation of production
to each zone in each of the subject wells.
(ALTERNATE)
(2) Thatpercent of the commingled
production shall be allocated to the Basin-Dakota
zone and percent of the commingled
production shall be allocated to the BS Mesa-Gallup
zone.

- (3) That the operator of the subject well shall immediately notify the Division's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.
- (4) 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.