CASE 7302: EL PASO NATURAL GAS COMPANY
FOR DOWNHOLE COMMINGLING, RIO ARRIBA
COUNTY, NEW MEXICO

Case No.

7302

Application

Transcripts

Small Exhibits

ETC

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

Other

STATE OF NEW MEXICO **ENERGY AND MINERALS DEPARTMENT**

OIL CONSERVATION DIVISION

July 29, 1981

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

7302

Mr. David Burleson, Attorney R El Paso Natural Gas Company Post Office Box 1492 El Paso, Texas 79978	ORDER NO. 7302 ORDER NO. R-6733 Applicant:
	Applicant:
	El Paso Natural Gas Company
Dear Sir:	
Enclosed herewith are two copi Division order recently entered	
Yours very truly,	
JOE D. RAMEY Director	
JDR/fd	
Copy of order also sent to:	
Hobbs OCD x Artesia OCD x Aztec OCD x	

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. 7302 Order No. R-6733

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 July 15, 1981, at Santa Fe, New Maxico, before Examiner Daniel S. Nutter.

NOW, on this 28th day of July, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, El Paso Natural Gas Company, plans to drill four wells in the SE/4 and SW/4 of Section 34, Township 27 North, Range 7 West, and the SW/4 and NW/4 of Section 2, Township 26 North, Range 7 West, respectively, NMPM, Rio Arriba County, New Mexico.
- (3) That the applicant seeks authority to commingle Chacra and Mesaverde production within the wellbores of the above-described wells.
- (4) That from the Chacra zone, each of the subject wells is expected to be capable of low marginal production only.
- (5) That from the Mesaverde zone, each of the subject wells 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,

22---Cal: No. 7302 Order No. R-6733

thereby preventing waste, and will not violate correlative rights.

- (7) That the reservoir characteristics of each of the subject zones are expected to be such that underground waste would not be caused by the proposed commingling provided that the wells are 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 subect wells are shut-in for 7 consecutive days.
- (9) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should test the Chacra zone separately and the Chacra and Mesaverde combined, and should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the productive zones.
- (10) That this commingling authority should be rescinded with respect to any of the herein authorized wells if the pressures or productivity of any such well indicates that reservoir damage or waste might result from commingling in the wellbore.

IT IS THEREFORE ORDERED:

- (1) That the applicant, El Paso Natural Gas Company, is hereby authorized to commingle Chacra and Mesaverde production within the wellbores of four wells to be drilled in the SE/4 and SW/4 of Section 34, Township 27 North, Range 7 West, and the SW/4 and NW/4 of Section 2, Township 26 North, Range 7 West, respectively, 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 each of the subject wells.
- (3) That the operator of the subject wells shall immediately notify the Division's Aztec district office any time the wells have been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.

-3-Case No. 7302 Order No. R-6733

- (4) That the Division Director may rescind this commingling authority with respect to any of the subject wells if the pressures or productivity encountered in such well indicates that reservoir damage or waste may result from commingling in the wellbore of said well.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 15 July 1981

EXAMINER HEARING

IN THE MATTER OF:

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

CASE 7302

BEFORE: Daniel S. Nutter

Periodice Periodice TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

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

David T. Burleson, Esq. General Counsel for El Paso P. O. Box 1492 El Paso, Texas 79978

For the Applicant:

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NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FF , NEW MEXICO

Hearing Date JULY 15, 1981 Time: 9:00 A.M.

REPRESENTING Town M. Benchell Doan Malund Stor Co. SE PASO Exploration Co. DOVID T. BUPLESON Jon F HAWKiNS El Paso Exploration Co Huan Pham MRCo oil and Gas Co. ARCO Oil and Gas G ERDouglas ARCO Dila Gas Co. B.L. Stokely Complete, Egod and Stock, P.A. Willain & Can H.W. Terry Gelly Oil JOHN MC DERMETT GETTT . OIL Cetty Oil JEEakin DB. WEIMEYER GE111 OIC Jul K Norton 6013 00 Clyde moto amores Robert Killian Amoco Kellorlint Kellorlin Thomas MUTRANOWSKI

DAVID BOATWELLAST

James Wishort

Gary Stephens

HIM. BURTON

Arco Oil ANOGAS Co.

AMOCO FROD. Co

AMOCO Production Co.

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EXAMINER HEARING

SANTA FF , NEW MEXICO

Hearing Date JULY 15, 1981 Time: 9:00 A.M.

LOCATION But Hulur Gyram Sarita Le ACQ. Martyanyo Andrus (Aleco) SF, MM Housrand VICTOR LYON George E. Young C.E.OSCIDDI Je Canoca Inc. Hobbs MESA DENVER WA Mc Cay Consultant Conoco Hugh Tardram 1/0/3/35 Lowell Deckert

3 1 2 MR. NUTTER: Call Case Number 7302. 3 MR. PEARCE: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, 4 5 New Mexico. MR. BURLESON: David Burleson for appli-7 cant, associated with Montgomery and Andrews. We'll have two witnesses, Mr. Examiner, who will need to be sworn. 10 11 (Witnesses sworn.) 12 13 PAUL W. BURCHELL being called as a witness and being duly sworn upon his oath, 14 15 testified as follows, to-wit: 16 17 DIRECT EXAMINATION 18 BY MR. BURLESON: 19 Please state your name and where you 20 reside. My name is Paul W. Burchell and I reside 21 A. 22 in El Paso, Texas. 23 By whom are you employed and in what 24 capacity? 25 I'm employed by the El Paso Natural Gas

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2	Company as Senior Engineer in the Production Control Departmen
3	Q. Have you previously testified before the
4	Division or one of its one of its Examiners in that capacity
5	previously?
6	A. Yes, I have.
7	Q. Were your qualifications accepted by the
8	Division on those occasions?
9	A. They were.
10	Q. Are you familiar with the case that's
11	the subject of this hearing?
12	A. Case Number 7302, yes, I am.
13	MR. BURLESON: Mr. Examiner, are the
14	witness' qualifications accepted?
15	MR. NUTTER: They are.
16	MR. BURLESON: Acceptable to the Division
17	O Mr. Burchell, who is the operator of
18	the wells which are the subject of this case? Who will be
19	the operator of the wells?
20	A. The El Paso Natural Gas Company.
21	ç. What is El Paso seeking in Case 7302?
22	A. In this particular case we are seeking
23	to drill and complete four wells in both the Chacra and the
24	Mesaverde formation and commingle the gas production from both
25	these zones. These wells will be known as the Rincon Unit

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Nos. 223, 223-A, 233, and 234. They are located in the southeast and the southwest of the Section 34, Township 27 North, Range 7 West, and in the southwest and the northwest of Section 2, and Section 2 is in 26 North, Range 7 West, respectively, and this will be in Rio Arriba County, New Mexico. 7 The proposal for allocating the gas to 8 both zones will be described later on in my testimony. Why is El Paso asking to commingle down-9 10 hole the gas to be produced from these four wells? 11 Well, we -- we consider this the most 12 economic and efficient method to undertake, principally due to the low productivity of both zones and also because of the 13 high expense in completing these wells as isolated duals. 14 15 Do you have a proposed exhibit which shows the location of the wells and the producing character-16 17 istics of the offsetting wells? 18 Yes, sir, I do. Would you explain the first of your 19 exhibits? I believe you have two exhibits, right? 20 21 Yes, sir. Would you explain the first of those 22 23 exhibits, then? The first one is the Chacra formation well location plat and it's been marked as El Paso Natural

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2 Gas Company's Exhibit Number One. The shaded areas in the 3 south half of Section 34, 27 North, and the shaded area in the west half of Section 2, 26 North, shows the location of the proposed wells that we would like to drill, and subsequently commingle.

The -- the other gas symbol wells shown on the exhibit are Chacra producers, and Mr. Examiner, for your convenience I have color coded the data on there.

The yellow, or the top figure by each producing well is the original Chacra wellhead shut-in pressure in pounds per square inch absolute.

The next figure under that, colored in. blue, is the 1980 average production rate in Mcf per day. And the pink figure on the bottom represents the oil or condensate accumulation that that well

produced since day number one, and as of the first of the year.

Underneath each well is the date of the well completion.

I would like to point out one correction here, Mr. Examiner. At the time this exhibit was drafted it was known to our department that the Bolin Company was the operator and owner of those wells in Section 3 and in Section 10; however, I have just learned that they sold their gas

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production to a new company and it's known as the NationalCoop Refining Association.

The -- the figures in yellow are all of the original Chacra wellhead shut-in pressures. At the very bottom of the exhibit I show the average of all of these pressures and it shows that to be 989 pounds per square inch absolute. In averaging these pressures I eliminated one value, and, Mr. Examiner, that was in the northeast of Section 12 by the Well No. 232, and there's a word drafted there, that's called questionable, and I was informed by the Reservoir Engineering Department that they felt that that figure was not good. So I did not use it in my weighted average for the rest of the wells.

Even if I did use it, it would only lower that 989 pound original pressure down to 948, but I did exclude it from my weighted average.

The -- the blue figures average out to be 61 Mcf of gas per day for all, the average producing rate for the Chacra wells. And of course the pink shows that there is no oil production and it is all relatively water free.

The next, I'd like to call your attention to Exhibit Number Two and it has been marked as such by El Paso Natural Gas Company. It's basically the same as the first exhibit only in this case now it shows the Mesaverde

formation well location plats. previously, the yellow represents the original Mesaverde wellhead shut-in pressure. rate in Mcf per day. oil for all of the wells.

The -- the weighted average pressure, the original shut-in pressure for the Mesaverde is shown on the bottom of the exhibit as 1036 pounds per square inch absolute.

Again the same color scheme as I stated

The blue represents the 1980 production

And the pink represents the cumulative

The average producing rate for each producing Mesaverde location averages to be 88 Mcf of gas per day.

And for only those wells completed in 1977 and 1978 did I average the oil production, and that figure was 3.3 barrels of oil per day, and the Production Department has informed me that the average water production from these wells in this particular area amounts to 0.4 per day

And that's all I have on that exhibit. Let me ask you a couple of additional questions, all about the exhibit.

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You've arrayed this data indicating the 2 3 original wellhead shut-in pressure for both the Chacra wells and the Mesaverde wells. Yes, sir. Would you expect that the wells that are completed, that are proposed to be drilled by El Paso and that 7 are the subject of this proceeding would come in at something 8 approximating the original shut-in wellhead pressure for these 10 wells that are shown on these two exhibits, Exhibit One and 11 Exhibit Two? 12 Yes, that's my opinion, that because of 13 the geologic and reservoir characteristics of both the Chacra and the Mesaverde that the ... that any new wells drilled here 14 in this area will probably represent the original pressures. 15 16 In other words you think --17 And at least in -- for the -- for the 18 Commission's viewpoint, at least the relative, they will be 19 relatively the same. In other words, you would expect that 20 the Chacra zone would have a pressure approximating this aver-21 age which is displayed on the bottom of Exhibit Number One, 22 23 which is 989 psia? And that the Mesaverde zones would have

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1 10 something approximating the average shown for the Mesaverde 2 3 at the bottom of Exhibit Two, which is 1036 psia? Yes, sir. 5 One other thing with respect to Exhibit 6 Number Two. You have shown a shaded area and I note that with respect to Section 2 you have not shaded the northeast quarter nor the southeast quarter of Section 2. I note that only be-9 cause as I understand it the spacing unit for the well No. 234 10 will be the entire north half of Section 2. 11 That is correct. 12 And for the No. 233 it will be the entire 13 south half of Section 2. 14 That is correct. Just to clarify, the 15 Drafting Department shaded these areas as representing 160 acres only where that proposed well will be drilled. It did 16 not represent that acreage that would be dedicated to that **17** 18 particular well. With respect to the south half of Section 19 34, it would be the unit for both the 223 and the 223-A Well? 20 21 That is correct. What general conclusions do you arrive 22 at from an examination of the data contained on the exhibits? 23 Well, in my opinion the -- the differ-24 25 ence between the -- the average original pressures between

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2	the Chacra and the Mesaverde formation will be negligible.
3	As we show on Exhibit Number One, the average pressure for the
4	Chacra was 989 pounds and the average pressure for the Mesaverde
5	on Exhibit Number Two was 1036 pounds.
6	The differential pressure there amounts
7	to 47 pounds per square inch, and this would give you a ratio
. 8	of one to 1.07, which in my opinion is virtually one to one.
9	MR. NUTTER. Now that's based on original
10	pressures. What are the current pressures?
11	A. The original pressures, right.
12	MR, NUTTER: How about current pressures?
13	A. And current pressures, I do have that
14	information, if you'd like.
15	The first of all, if you take
16	we'll talk about Section 2 and the nine sections surrounding
17	it and the eight sections surrounding it.
18	The Chacra most recent pressure, shut-in
19	pressures, average 428 pounds per square inch, whereas the
20	Mesaverde averages 578 per square inch.
21	MR. NUTTER; 578?
22	A. 578, yes, sir. This is a pressure dif-
23 =	ferential of 150 pounds per square inch, and this gives you
24	a ratio of one to 1.35.
25	Now I would like to discuss the eight

sections surrounding Section 34, and those two proposed wells.

The average Chacr shut-in pressure is 538 pounds per square inch and the average Mesaverde shut-in pressure is 660 pounds per square inch. This is a Delta pres-

sure of 122 pounds and gives you a ratio of one to 1.22.

MR. NUTTER; Go ahead.

As I have stated, because of this negligible difference of the existing pressures that we have under study here, I believe that the four proposed wells that we plan to commingle will encounter similar or relative pressures

My second opinion from studying these exhibits, I believe that the stabilized flow rates for both the Chacra and the Mesaverde can be considered quite low. The average flow rate for the Chacra, shown on Exhibit One, was 61 Mcf per day and the average flow rate for the Mesaverde on Exhibit Two was 88 Mcf per day; therefor, it is my opinion that these wells that we propose to commingle will have a combined stabilized flow rate of somewhere around 150 Mcf of gas per day.

The third conclusion that I arrive at from these exhibits would be the fact that on Exhibit One it shows no oil or condensate production and very little water being produced from the formation.

Where the Mesaverde formation on Exhibit

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Two shows an average of 3.3 barrels of oil per day and you combine that with an average of 0.4 of water per day and you have a total of 3.7 barrels of fluid expected from each well from the Mesaverde formation.

In summary, I believe that the -- because of these low pressure differentials particularly, that the reservoir characteristics of both formations will be compatible. And I don't believe that should a well be shut-in after it's completed that there would be any migration or cross flow of gas or fluids from one zone to the other.

Mr. Burchell, would there be any advantage in commingling these two zones in these four wells?

Yes. The -- the first would be the efficiency in production. Because of the liquid production that I elaborated on in Exhibit Two from the Mesaverde formation, I'd like to point out that because of these liquids and because of the low reservoir pressure for the Mesaverde, that it is our Production Department's experience in the area for these wells that they --- that they have quite a bit of trouble with the wells logging off. Therefor it is my opinion that by commingling these two zones that we would have, in addition to the Mesaverde gas, we would have the dry Chacra gas aiding in lifting the liquids, and I believe this will result in a more efficient and trouble-free gas flow from the wells.

Might it also result in recovery of additional gas?

I think down the road, ultimately, we can say we will be recovering additional hydrocarbons.

And of course, the second advantage is, and you're well aware of it, the economics in not completing these wells as isolated duals.

isolated duals it is estimated that each well would cost \$346,430 per well; whereas, by completing a well and commingling it as a dual, it will only be \$316,500. This is a cost savings of almost \$30,000 per well, and when you consider the four wells that we plan to drill, that amounts to \$120,000 in savings.

Q. Do you propose a formula by which the gas and the fluid production would be allocated as between these two zones in these four wells?

A. Yes, sir. At this time it -- it appears that 100 percent of the liquids from these wells will probably be allocated to the Mesaverde formation, and it is recommended that the allocation of gas production be done in the following manner:

First, it is recommended that we obtain the Chacra production after the well has been completed and

1 15 a bridge plug to isolate the two zones has been set. The next step, I would recommend that we clean out the bridge plug and that isolates the two zones, then test the combined gas flow from both the Chacra and the Mesaverde formation. And the third step, of course, we would 8 then deduct the original Chacra test from the combined test 9 and from that we can allocate the gas accordingly, and both 10 the testing and the allocating would be in consultation with 11 the NMOCD's supervisor in the Aztec District. 12 Mr. Burchell, you're not prepared to testify concerning ownership, are you? That will be Mr. 13 Hawkins? 14 Yes, sir. 15 Is that correct? In your opinion would 16 the granting of this application be in the interest of the 17 18 protection of correlative rights, the prevention of waste, and 19 prevention of any economic loss? 20 I believe so. Do you have anything further to present 21 22 in this case? 23 Not at this time.

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your supervision?

Were Exhibits One and Two prepared under

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2	A. They were.
3	MR. BURLESON: Mr. Examiner, we ask that
4	Exhibits Number One and Two be admitted into evidence, and
5	that concludes our examination, direct examination of this
6	witness.
, 7	MR. NUTTER: Exhibits One and Two will
8	be admitted in evidence.
9	Are there any questions of the witness?
10	He may be excused.
11	MR. BURLESON; We next call Mr. Tom
12	Hawkins, whose testimony will concern ownership.
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14	TOM HANKINS
15	being called as a witness and being duly sworn upon his oath,
16	testified as follows to-wit;
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18	DIRECT EXAMINATION
19	BY MR. BURLESON:
20	Q. Would you please state your name and
21	where you reside?
22	A. My name is Tom F. Hawkins. I reside
23	in El Paso, Texas.
24	Q. By whom are you employed and in what
25	capacity?

17 1 I'm employed by El Paso Exploration 2 Company as a landman in the Land Department. El Paso Explora-3 tion Company administers and performs all land work for El 4 5 Paso Natural Gas Company. As a landman have you previously testi-7 fied before this Division? 8 Would you tell us a little bit about 10 your educational background? I have a Bachelor of Business Admini-11 stration degree in finance from the University of Texas at 12 13 El Paso. Give us a brief resume of your work ex-14 15 perience. I have been employed by El Paso since 16 I worked for two years in the Division Order 17 April of 1978. 18 Section of the Land Department and have worked since July, 19 1980, in the Title and Contracts Section, Land Department. 20 My main area of responsibility in the Title and Contracts Section is in the San Juan Basin of San 21 Juan and Rio Arriba Counties, New Mexico, and specifically 22 eight Federal units operated by El Paso, one of which is the 23 24 Rincon Unit. Have you made a study of the ownership 25

relating to the properties on which these four wells that are the subject of this proceeding will be located?

A. Yes.

MR. BURLESON. Mr. Examiner, we move that the witness' qualifications be accepted.

MR. NUTTER: The witness is qualified.

Q. Mr. Hawkins, I believe you've prepared a number of pages, which we have included under Exhibit Number Three. The indication is pages A, B, C, and D.

Would you by alluding to those pages in the exhibit, will you tell us; hat the ownership is under these various wells which are the subject of this proceeding?

Most units in that it is an undivided working interest unit, or a fixed interest unit. El Paso Natural Gas Company owns 97.46 percent of the working interest in the unit and the Wiser Oil Company owns 2.54 percent of the working interest. This percentage is based on the total acreage each company owns in the unit.

If you would note on Exhibit Three, page
A, that for the 223 Well both the Chacra and Mesaverde formations are outside of the participating area for those formations. The working interest on the drilling block is owned
by El Paso, but as we previously stated, this is a fixed in-

2 terest unit. 3 ficance of that, Tom. 6 7 8

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A minute, please. Let's get the signi-

By that you mean that the costs of drilling the well and the production resulting from the drilling of the well will be bourne and shared by El Paso and Wiser in accordance with their unit percentage?

Yes, sir.

Okay, go ahead.

The royalty is owned by the Federal government, as the two leases dedicated to the well are Federal leases.

The overriding owners are listed as shown. There is a sliding scale on the Federal Lease Tract No. 19, which is based on a rate per Mcf with a BTU adjustment which is adjusted annually.

The ownership of the 223-A Well on page B, which is an infill to the 223 Well, shows that both formations are outside of the participating area, The working interest is owned by El Paso, but as we stated this is a fixed interest unit.

The royalty is owned by the Federal government, as the two leases dedicated to the well are Federal leases.

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2		The overriding interest owners are also
3	listed as shown.	
4	Ω.	Tom, before you proceed to the next one,
5	let's just recapitul	ate just a second with respect to this.
6		All the Chacra production will be allo-
7	cated to what you've	described here as Tract No. 18, is that
8	right	
9		Yes, sir.
10	Q.	in the southeast quarter.
11		MR. NUTTER: In other words, in both of
12	these instances the	Chacra has 160 acres dedicated to it.
13		MR. BURLESON: That's right.
14		MR. NUTTER: The Mesaverde has 320 dedi-
15	cated to it.	
16		MR. BURLESON: Exactly.
17	A.	Yes, sir.
18		MR. NUTTER: So these two tracts combine
19	have a slightly diffe	erent overriding royalty ownership.
20		MR. BURLESON: That's right.
21	A.	Yes, sir.
22		MR. NUTTER: But both working interest
23	and royalty interest	is identical throughout the 160 and the
24	320.	
25		MR. BURLESON: As for these two.
L		

1 21 2 Yes, sir. 3 MR. NUTTER: Okay. MR. BURLESON: The working interest, 5 incidentally, is identical for all four; however, there is some variance in the royalty interest as we go on. 7 So we've covered two. The ownership for the 233 Well, and that s page C of the exhibit, shows that the Chacra formation is out-10 side of the participating area, while the Mesaverde formation 11 is within the participating area. 12 The working interest is owned, as shown for the lease, but this is a fixed interest unit, as we've 13 14 already covered. 15 The royalty is owned by the State of New Mexico, as two State leases are dedicated to the well. 16 17 The royalty and override interest owners for the Mesaverde formation is shared with the Mesaverde 18 19 participating area royalty and overriding owners. 20 The override for the Chacra formation 21 is owned as shown, since the Chacra formation is not in the 22 participating area. 23 The ownership for the 234 Well, page D, 24 shows that both formations are outside of the participating area.

1 2 The working interest is owned as shown, 3 but this is a fixed interest unit. The royalty is owned by the State of New Mexico, as two State leases are dedicated to the well. 5 The overriding royalty for the Chacra 6 7 and Mesaverde formations are owned as shown. Just to return to page C just for a 8 9 second, Tom, I'm not sure whether you covered this or not, 10 but you've indicated that the Mesaverde formation is inside the Mesaverde participating area for the Rincon Unit, and I 11 12 think you probably said, although I'm not certain, and I want 13 to make the record clear on this, that the production that the -- that is that the royalty and the overrides will be shared 14 in accordance with the Rincon Unit agreement --15 16 Yes, sir. Insofar as it relates to the sharing of royalty and --To the participating area. --overriding royalties, and it will be shared in accordance with the ownership of those parties within the entire participating area. Yes, sir, that's correct. One other thing that I might note, at the top of the page on all of these pages you have indicated

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	2	the acreage that's dedicated to the Chacra and the Mesaverde,
	3	have you not?
4 · ·	4	For instance, in page A, 223, you show
	5	Chacra 160 acres, being the southeast quarter of Section 34.
	6	For the Mesaverde you show the south half of Section 34. of
	7	27, 7?
3	8	A. Yes, sir.
	9	Q. And the other pages are in the same
	10	manner?
. -	11	A. Yes, sir.
**	12	Q. Now have you contacted the interest
	13	owners, other interest owners, and attempted to obtain their
	14	approval to the commingling of production as we have requested
	15	in this proceeding?
	16	A. Yes.
	17	Q. How were they contacted?
100 - 108 - 108 A	18	A. By letter dated October 17th, 1980, and
1	19	follow-up letters dated April 24th, 1981, and July 7th, 1981.
	20	Q. What response to date have you received
1	21	from those letters?
	22	A. The only working interest owner other
···· 2	23	than El Paso, the Wiser Oil Company, has approved the com-
	24	mingling, as have all but all but two of the seventeen
2	25	overriding owners on the drilling blocks not committed to the
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1 2 participating area. 3 We have noted who has approved and who 4 hasn't on our exhibit for the drilling blocks. 5 Also, of the 97 royalty and overriding 6 owners in the Chacra and Mesaverde formations in the Rincon 7 Unit, all but eleven of them have approved the commingling. 8 We have not received any reply from these eleven; however, 9 they have all been notified of the time, place, and the date of this hearing and their right to appear. There have been no objections registered by anyone, have there, Tom? Nobody has objected, no, sir. To the best of your knowledge have you contacted all of the owners in the Rincon Unit who own an interest and who might be affected by the commingling of production? Yes, I have. Yes, we have. MR. BURLESON: This concludes our examination of this witness, and we request that Exhibit Number Three be admitted into evidence. ted in evidence.

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MR. NUTTER: Exhibit Three will be admit-

Are there any questions --

MR. BURLESON: That concludes our pre-

sentation. MR. NUTTER: Are there any questions of the witness? He may be excused. Do you have anything further, Mr. Burle-son? MR. BURLESON: No, sir. MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7302? We'll take the case under advisement. (Hearing concluded.)

CERTIFICATE

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SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-18
Sall. 3 Fc, New Mexico 87501
Phone (305) 455-7409

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

Solly W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7302 heard by me on_

Examiner

Oll-Conservation Division

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 15 July 1981

EXAMINER HEARING

IN THE MATTER OF:

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

CASE 7302

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

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

For the Applicant:

David T. Burleson Esq. General Counsel for El Paso P. O. Box 1492 El Paso Texas 79978

MR. HUTTER: Call Case Number 7302. 3 Application of El Paso MR. PEARCE Natural Gas Company for downhole commingling, Rio Arriba County 5 New Mexico. David Burleson for appli-MR. BURLESON 7 cant, associated with Montgomery and Andrews. We'll have two witnesses, Mr. Examiner. 9 who will need to be sworn. 10 11 (Witnesses sworn.) 12 13 PAUL W. BURCHELL 14 being called as a witness and being duly sworn upon his oath 15 testified as follows, to-wit: 16 17 DIRECT EXAMINATION 18 BY MR. BURLESON: 19 Please state your name and where you 20 reside. 21 My name is Paul W. Burchell and I reside 22 in El Paso, Texas. By whom are you employed and in what 23 24 capacity? 25 I'm employed by the El Paso Natural Gas

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2	Company as	s Ŝenior E	ngineer in the Production Control Department
3		Q.	Have you previously testified before the
4	Division o	or one of	its one of its Examiners in that capacity
5	previously	??	
6		λ.	Yes, I have.
7		Q.	Were your qualifications accepted by the
8	Division o	on those o	ccasions?
9		λ.	They were.
10	.	Q	Are you familiar with the case that's
11	the subject	et of this	hearing?
12		7.	Case Number 7302, yes, I am.
13			MR. BURLESON: Mr. Examiner, are the
14	witness' q	ualificat	ions accepted?
15			MR. NUTTER: They are.
16	•		MR. BURLESON: Acceptable to the Division
17		Q.	Mr. Burchell, who is the operator of
18	the wells	which are	the subject of this case? Who will be
19	the operat	or of the	wells?
20		A.	The El Paso Natural Gas Company.
21		Q	What is El Paso seeking in Case 7302?
22		A.	In this particular case we are seeking
23	to drill a	nd comple	te four wells in both the Chacra and the
24	Mesaverde	formation	and commingle the gas production from both
25	these zone	s. These	wells will be known as the Rincon Unit

1 2 Nos. 223, 223-A, 233, and 234. They are located in the south-3 east and the southwest of the Section 34, Township 27 North, 4 Range 7 West, and in the southwest and the northwest of Section 5 2, and Section 2 is in 26 North, Range 7 West, respectively, 6 and this will be in Rio Arriba County, New Mexico. 7 The proposal for allocating the gas to 8 both zones will be described later on in my testimony. Why is El Paso asking to commingle down-10 hole the gas to be produced from these four wells? 11 Well, we -- we consider this the most economic and efficient method to undertake, principally due 12 13 to the low productivity of both zones and also because of the high expense in completing these wells as isolated duals. 14 15 Do you have a proposed exhibit which 16 shows the location of the wells and the producing character-17 istics of the offsetting wells? 18 Yes, sir, I do. 19 Would you explain the first of your 20 I believe you have two exhibits, right? exhibits? 21 Yes, sir. Would you explain the first of those 23 exhibits, then? 24 The first one is the Chacra formation well location plat and it's been marked as El Paso Natural

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Gas Company's Exhibit Number One. The shaded areas in the south half of Section 34, 27 North, and the shaded area in the west half of Section 2, 26 North, shows the location of the proposed wells that we would like to drill, and subsequently commingle.

The -- the other gas symbol wells shown on the exhibit are Chacra producers, and Mr. Examiner, for your convenience I have color coded the data on there.

The yellow, or the top figure by each producing well is the original Chacra wellhead shut-in pressure in pounds per square inch absolute.

The next figure under that, colored in ! blue, is the 1980 average production rate in Mcf per day. And the pink figure on the bottom re-

presents the oil or condensate accumulation that that well produced since day number one, and as of the first of the year.

Underneath each well is the date of the well completion.

I would like to point out one correction here, Mr. Examiner. At the time this exhibit was drafted it was known to our department that the Bolin Company was the operator and owner of those wells in Section 3 and in Section 10; however, I have just learned that they sold their gas

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production to a new company and it's known as the National Coop Refining Association.

The — the figures in yellow are all of the original Chacra wellhead shut—in pressures. At the very bottom of the exhibit I show the average of all of these pressures and it shows that to be 989 pounds per square inch absolute. In averaging these pressures I eliminated one value, and, Mr. Examiner, that was in the northeast of Section 12 by the Well No. 232, and there's a word drafted there, that's called questionable, and I was informed by the Reservoir Engineering Department that they felt that that figure was not good. So I did not use it in my weighted average for the rest of the wells.

Even if I did use it, it would only lower that 989 pound original pressure down to 948, but I did exclude it from my weighted average.

The -- the blue figures average out to be 61 Mcf of gas per day for all, the average producing rate for the Chacra wells. And of course the pink shows that there is no oil production and it is all relatively water free.

The next, I'd like to call your attention to Exhibit Number Two and it has been marked as such by El Paso Natural Gas Company. It's basically the same as the first exhibit only in this case now it shows the Mesaverde

formation well location plats.

Again the same color scheme as I stated previously, the yellow represents the original Mesaverde well-head shut-in pressure.

The blue represents the 1980 production rate in Mcf per day.

And the pink represents the cumulative oil for all of the wells.

The -- the weighted average pressure, the original shut-in pressure for the Mesaverde is shown on the bottom of the exhibit as 1036 pounds per square inch absolute.

The average producing rate for each producing Mesaverde location averages to be 88 Mcf of gas per day.

And for only those wells completed in 1977 and 1978 did I average the oil production, and that figure was 3.3 barrels of oil per day, and the Production Department has informed me that the average water production from these wells in this particular area amounts to 0.4 per day

And that s all I have on that exhibit.

Q. Let me ask you a couple of additional questions, all about the exhibit.

You've arrayed this data indicating the original wellhead shut-in pressure for both the Chacra wells and the Mesaverde wells.

A. Yes, sir.

Q. Would you expect that the wells that are completed, that are proposed to be drilled by El Paso and that are the subject of this proceeding would come in at something approximating the original shut-in wellhead pressure for these wells that are shown on these two exhibits Exhibit One and Exhibit Two?

A. Yes, that's my opinion, that because of the geologic and reservoir characteristics of both the Chacra and the Mesaverde that the --- that any new wells drilled here in this area will probably represent the original pressures.

Q In other words you think --

And at least in -- for the -- for the Commission's viewpoint, at least the relative, they will be relatively the same.

Q. In other words, you would expect that the Chacra zone would have a pressure approximating this average which is displayed on the bottom of Exhibit Number One, which is 989 psia?

A. Yes.

And that the Mesaverde zones would have

something approximating the average shown for the Mesaverde at the bottom of Exhibit Two, which is 1036 psia?

A. Yes, sir.

One other thing with respect to Exhibit
Number Two. You have shown a shaded area and I note that with
respect to Section 2 you have not shaded the northeast quarter
nor the southeast quarter of Section 2. I note that only because as I understand it the spacing unit for the well No. 234
will be the entire north half of Section 2.

A. That is correct.

Q. And for the No. 233 it will be the entire south half of Section 2.

Drafting Department shaded these areas as representing 160 acres only where that proposed well will be drilled. It did not represent that acreage that would be dedicated to that particular well.

Q. With respect to the south half of Section 34, it would be the unit for both the 223 and the 223-A Well?

A. That is correct.

Mhat general conclusions do you arrive at from an examination of the data contained on the exhibits?

Mell, in my opinion the -- the difference between the -- the average original pressures between

the Chacra and the Mesaverde formation will be negligible.

As we show on Exhibit Number One, the average pressure for the Chacra was 989 pounds and the average pressure for the Mesaverde on Exhibit Number Two was 1036 pounds.

to 47 pounds per square inch, and this would give you a ratio of one to 1.07, which in my opinion is virtually one to one.

MR. NUTTER Now that's based on original pressures. What are the current pressures?

A. The original pressures, right.

MR. NUTTER: How about current pressures?

A. And current pressures I do have that information, if you'd like.

The -- first of all, if you take -we'll talk about Section 2 and the nine sections surrounding
it -- and the eight sections surrounding it.

The Chacra most recent pressure, shut-in pressures, average 428 pounds per square inch, whereas the Mesaverde averages 578 per square inch.

MR. NUTTER 578?

ferential of 150 pounds per square inch, and this gives you a ratio of one to 1.35.

Now I would like to discuss the eight

The average Chacr shut-in pressure is

538 pounds per square inch and the average Mesaverde shut-in
pressure is 660 pounds per square inch. This is a Delta pressure of 122 pounds and gives you a ratio of one to 1.22.

MR. NUTTER: Go ahead.

As I have stated, because of this negligible difference of the existing pressures that we have under study here, I believe that the four proposed wells that we plan to commingle will encounter similar or relative pressures

exhibits, I believe that the stabilized flow rates for both the Chacra and the Mesaverde can be considered quite low. The average flow rate for the Chacra, shown on Exhibit One, was 61 Mcf per day and the average flow rate for the Mesaverde on Exhibit Two was 98 Mcf per day: therefor, it is my opinion that these wells that we propose to commingle will have a combined stabilized flow rate of somewhere around 150 Mcf of gas per day.

The third conclusion that I arrive at from these exhibits would be the fact that on Exhibit One it shows no oil or condensate production and very little water being produced from the formation.

Where the Mesaverde formation on Exhibit

Two shows an average of 3.3 barrels of oil per day and you combine that with an average of 0.4 of water per day and you have a total of 3.7 barrels of fluid expected from each well from the Mesaverde formation.

of these low pressure differentials particularly, that the reservoir characteristics of both formations will be compatible. And I don't believe that should a well be shut in after it's completed that there would be any migration or cross flow of gas or fluids from one zone to the other.

Mr. Burchell, would there be any advantage in commingling these two zones in these four wells?

efficiency in production. Because of the liquid production that I elaborated on in Exhibit Two from the Mesaverde formation, I'd like to point out that because of these liquids and because of the low reservoir pressure for the Mesaverde, that it is our Production Department's experience in the area for these wells that they — that they have quite a bit of trouble with the wells logging off. Therefor it is my opinion that by commingling these two zones that we would have, in addition to the Mesaverde gas, we would have the dry Chacra gas aiding in lifting the liquids, and I believe this will result in a more efficient and trouble—free gas flow from the wells.

Might it also result in recovery of additional gas?

A. I think down the road, ultimately, we can say we will be recovering additional hydrocarbons.

And of course, the second advantage is, and you're well aware of it, the economics in not completing these wells as isolated duals.

isolated duals it is estimated that each well would cost \$346,430 per well; whereas, by completing a well and commingling it as a dual, it will only be \$316,500. This is a cost savings of almost \$30,000 per well, and when you consider the four wells that we plan to drill, that amounts to \$120,000 in savings.

po you propose a formula by which the gas and the fluid production would be allocated as between these two zones in these four wells?

that 100 percent of the liquids from these wells will probably be allocated to the Mesaverde formation, and it is recommended that the allocation of gas production be done in the following manner:

First, it is recommended that we obtain the Chacra production after the well has been completed and

2 a bridge plug to isolate the two zones has been set. 3 The next step, I would recommend that 4 we clean out the bridge plug and that isolates the two zones, 5 then test the combined gas flow from both the Chacra and the 6 Mesaverde formation. And the third step, of course, we would 8 then deduct the original Chacra test from the combined test and from that we can allocate the gas accordingly, and both 9 the testing and the allocating would be in consultation with 10 11 the NMOCD's supervisor in the Aztec District. 12 Mr. Burchell, you're not prepared to 13 testify concerning ownership, are you? That will be Mr. 14 Hawkins? 15 Yes, sir. 16 Is that correct? In your opinion would 17 the granting of this application be in the interest of the 18 protection of correlative rights, the prevention of waste, and 19 prevention of any economic loss? 20 I believe so. Do you have anything further to present 21 22 in this case? 23 Not at this time. 24 Were Exhibits One and Two prepared under Q. 25 your supervision?

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1	16
2	A. They were.
3	MR. BURLESON: Mr. Examiner, we ask that
4	Exhibits Number One and Two be admitted into evidence, and
5	that concludes our examination, direct examination of this
6	witness.
7	MR. NUTTER: Exhibits One and Two will
8	be admitted in evidence.
9	Are there any questions of the witness?
10	He may be excused.
11	MR. BURLESON: We next call Mr. Tom
12	Hawkins, whose testimony will concern ownership.
13	
14	TOM HAWKINS
15	being called as a witness and being duly sworn upon his oath,
16	testified as follows to-wit:
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18	DIRECT EXAMINATION
19	BY MR. BURLESON:
20	g Would you please state your name and
21	where you reside?
22	A. My name is Tom F. Hawkins. I reside
23	in El Paso, Texas.
24	Q By whom are you employed and in what
25	capacity?

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relating to the properties on which these four wells that are the subject of this proceeding will be located?

A. Yes.

MR. BURLESON. Mr. Examiner, we move that the witness' qualifications be accepted.

MR. NUTTER: The witness is qualified.

Mr. Hawkins, I believe you've prepared a number of pages, which we have included under Exhibit Number Three. The indication is pages A, B, C, and D.

Would you by alluding to those pages in the exhibit will you tell us; hat the ownership is under these various wells which are the subject of this proceeding?

Most units in that it is an undivided working interest unit, or a fixed interest unit. El Paso Natural Gas Company owns 97.46 percent of the working interest in the unit and the Wiser Oil Company owns 2.54 percent of the working interest. This percentage is based on the total acreage each company owns in the unit.

If you would note on Exhibit Three, page A, that for the 223 Well both the Chacra and Mesaverde formations are outside of the participating area for those formations. The working interest on the drilling block is owned by El Paso, but as we previously stated, this is a fixed in-

2 | terest unit.

Q. A minute, please. Let's get the significance of that, Tom.

By that you mean that the costs of drilling the well and the production resulting from the drilling of the well will be bourne and shared by El Paso and Wiser in accordance with their unit percentage?

A. Yes sir.

Q. Okay, go ahead.

A. The royalty is owned by the Federal government, as the two leases dedicated to the well are Federal leases.

The overriding owners are listed as shown. There is a sliding scale on the Federal Lease Tract No. 19, which is based on a rate per Mof with a BTU adjustment which is adjusted annually.

B, which is an infill to the 223 Well, shows that both formations are outside of the participating area. The working interest is owned by El Paso, but as we stated this is a fixed interest unit.

The royalty is owned by the Federal government, as the two leases dedicated to the well are Federal leases.

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2	The overriding interest owners are also
3	listed as shown.
4	ρ Tom, before you proceed to the next one,
5	let's just recapitulate just a second with respect to this.
6	All the Chacra production will be allo-
7	cated to what you've described here as Tract No. 18, is that
8	right
9	A. Yes sir.
10	Q in the southeast quarter.
11	MR. NUTTER: In other words, in both of
12 ,	these instances the Chacra has 160 acres dedicated to it.
13	MR. BURLESON: That's right.
14	MR. NUTTER: The Mesaverde has 320 dedi-
15	cated to it.
16	MR. BURLESON: Exactly.
17	Yes, sir.
18	MR. NUTTER: So these two tracts combine
19	have a slightly different overriding royalty ownership.
20	MR. BURLESON: That's right.
21	A Yes, sir.
22	MR. NUTTER: But both working interest
23	and royalty interest is identical throughout the 160 and the
24	320.
25	MR. BURLESON: As for these two.

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Yes, sir.

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MR. NUTTER: Okay.

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MR. BURLESON The working interest, incidentally, is identical for all four; however, there is some variance in the royalty interest as we go on.

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So we've covered two.

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The ownership for the 233 Well, and that s page C of the exhibit, shows that the Chacra formation is outside of the participating area, while the Mesaverde formation is within the participating area.

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> The working interest is owned, as shown for the lease, but this is a fixed interest unit, as we ve already covered.

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The royalty is owned by the State of New

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Mexico, as two State leases are dedicated to the well.

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The royalty and override interest owners for the Mesaverde formation is shared with the Mesaverde

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participating area royalty and overriding owners.

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The override for the Chacra formation is owned as shown, since the Chacra formation is not in the participating area.

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> The ownership for the 234 Well, page D, shows that both formations are outside of the participating

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area.

The working interest is owned as shown. but this is a fixed interest unit. The royalty is owned by the State of New Mexico, as two State leases are dedicated to the well. The overriding royalty for the Chacra and Mesaverde formations are owned as shown. Just to return to page C just for a second, Tom, I'm not sure whether you covered this or not, but you've indicated that the Mesaverde formation is inside the Mesaverde participating area for the Rincon Unit, and I think you probably said, although I m not certain, and I want to make the record clear on this, that the production that the -- that is that the royalty and the overrides will be shared in accordance with the Rincon Unit agreement --Yes, sir. Insofar as it relates to the sharing of royalty and ---To the participating area. --overriding royalties, and it will be shared in accordance with the ownership of those parties within the entire participating area. Yes, sir, that's correct. One other thing that I might note, at

the top of the page on all of these pages you have indicated

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1	1	23
2 ,	2 the acreage that's dedicated	to the Chacra and the Mesaverde,
· 3	3 have you not?	
4	4 For ins	stance, in page A, 223, you show
5	5 Chacra 160 acres, being the	southeast quarter of Section 34.
6	6 For the Mesaverde you show th	ne south half of Section 34 of
7	7 27, 73	
8	8 A. Yes, st	.r.
9	9 Q. And the	e other pages are in the same
10	0 manner?	
11	1 A. Yes, si	.r.
12	2 Q Now hav	e you contacted the interest
13	3 owners, other interest owners	, and attempted to obtain their
14	4 approval to the commingling of	of production as we have requested
15		
16		
17		e they contacted?
18		er dated October 17th 1980, and
19		24th, 1981 and July 7th, 1981.
20		sponse to date have you received
21	4	sponge to date have you received
22	TIOM CHOSe letters:	intowegt owner other
23	n _e zaic Osts	y working interest owner other
24	Chan by Paso, the Wisch off	ompany has approved the com-
	mingling, as nave and sac	
25	overriding owners on the dril	ling blocks not committed to the

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participating area.

We have noted who has approved and who hasn't on our exhibit for the drilling blocks.

Also of the 97 royalty and overriding owners in the Chacra and Mesaverde formations in the Rincon Unit, all but eleven of them have approved the commingling. We have not received any reply from these eleven; however they have all been notified of the time, place, and the date of this hearing and their right to appear.

O. There have been no objections registered by anyone, have there Tom?

A. Nobody has objected no, sir.

Ontacted all of the owners in the Rincon Unit who own an interest and who might be affected by the commingling of production?

A. Yes I have. Yes, we have.

MR. BURLESON: This concludes our examination of this witness, and we request that Exhibit Number
Three be admitted into evidence.

MR. NUTTER: Exhibit Three will be admit

ted in evidence.

Are there any questions --

MR. BURLESON: That concludes our pre-

sentation. MR. NUTTER: Are there any questions of the witness? He may be excused. Do you have anything further, Mr. Burle son? MR. BURLESON: No, sir. MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7302? We'll take the case under advisement. (Hearing concluded.)

CERTIFICATE

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

Sally W. Boyd CSR

Examiner

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 73829 heard by me on

Oil Conservation Division

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MESAVERDE FORMATION WELL LOCATION PLAT RINCON UNIT - RIO ARRIBA COUNTY, NEW MEXICO R 7 W E.P.N.G. E.P.N.G. EPING EXHIBIT NO SUBMITTED BY 1057 35 1160 T 27 N 4.09.25 223 ③ E.PN.6 BOLIN OIL CO. E.P.N.G. 18A **78**-01-03 20 ★ 78-01-04 ||| 4520 71 3069 7 26 N 19 ** 78-01-07 ₩ 935 126 2937 1098 45 10967 58-05-19 ्233 ⊚ 1075 131 1774 BOLIN OIL CO. 1030 138 1079 E.P.N.G. 77-02-2 975 50 2029 ¥¹⁷⁴ 102

EL PASO NATURAL GAS COMPANY EXHIBIT NO. 2

LEGEND

- O PROPOSED CHACRA MESAVERDE COMMINGLED WELLS
- 12 34 ORIGINAL MESAVERDE WELLHEAD SHUT-IN PRESSURE PSIA
 - ▶123 1980 AVERAGE PRODUCTION RATE IN MCFPD
 - 12 OIL CUM. AS OF 1-1-81
- 78-01-07 DATE OF WELL COMPLETION

AVERAGES

1036 PSIA — ORIGINAL MESAVERDE WHSIP

***88 MCRPD = 1980 PRODUCTION RATE

3.3 BOPD - FOR WELLS COMPLETED IN 1977 & 1978
0.4 BWPD - FOR ALL MESAVERDE WELLS

578 pora at (well purround

PREPARED BY: RESERVOIR ENGINEERING DEPARTMENT

660 current press (see 34)

#223 Well

Outside PA Chacra - 160.00 acres, SE/4 Sec. 34-27N-7W Outside PA Mesaverde - 320.00 acres, S/2 Sec. 34-27N-7W

Chacra

.8	Descri	#19 ase #SF 080385 ption: SE/4 y - USA - 12.5%	
Approval	WI		
OK	ORRI	- Union Oil Co. of California	Sliding Scale Override
OK		Pattie Beamon Lundell, et al	Sliding Scale Override
OK		Union Oil Co. of California	3.458333%
OK		R. Beamon	.250000%
OK		Pattie Beamon Lundell	.125000%
OK		Richard H. Godfrey, Jr.	.125000%
OK		Houston E. Hill & Mozelle C. Hill	.125000%
OK		Phyllis F. Hoffman	.250000%
No Reply		Crown Central	.666667%
			5.000000%

<u>Mesaverde</u>

Tract #19 USA Lease #SF 080385 (same as above)

Tract #18
USA Lease #SF 080213
Description: SW/4
Royalty - USA - 12.5%
WI - EPNG- All
ORRI - H. K. Riddle, Trustee of the Hansel King Riddle II Trust

No Reply

5%

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

____EXHIBIT NO.__3

CASE NO.__73.02

#223A Well

Outside PA Chacra - 160.00 acres, SW/4 Sec. 34-27N-7W Outside PA Mesaverde - 320.00 acres, S/2 Sec. 34-27N-7W

Chacra

Tract #18 USA Lease #SF 080213 Description: SW/4
Royalty - USA - 12.5%
WI - EPNG- All

ORRI - H. K. Riddle, Trustee of the Hansel King Riddle II Trust

5ჵ

.666667% 5.000000%

Mesaverde

Tract #18 USA Lease #SF 080213 (same as above)

Royalty - USA - 12.5% WI - EPNG- All ORRI - Union Oil Co. of California Sliding Scale Override Pattie Beamon Lundell, et al Sliding Scale Override Union Oil Co. of California 3.458333% .250000% R. Beamon .125000% Pattie Beamon Lundell Richard H. Godfrey, Jr. Houston E. Hill & Mozelle C. Hill .125000% .125000% Phyllis F. Hoffman .250000%

Tract #19

USA Lease #SF 080385 Description: SE/4

Crown Central

No Reply

OK

OK

OK

OK

CK

OK

OK OK

No Reply

#233 Well

Outside PA Chacra - 160.00 acres, SW/4 Sec. 2-26N-7W

Inside PA Mesaverde - 320.00 acres, S/2 Sec. 2-26N-7W

Chacra

	Tract #28	¥ .*
	State of NM Lease #E-291-35	
	Description: SW/4	
	Royalty - State of NM - 12.5%	
	WI - EPNG - All	3
OK	ORRI - Union Oil Co. of California	Sliding Scale Override
OK	Pattie B. Lundell, et al	Sliding Scale Override
OK	Helen L. Harvey	4.041667%
OK ,	William M. Siegenthaler	.041667%
OK	Jeffie Lou Pecor	.166666%
ОК	J. I. Harvey	.750000%
		5.0000003

Mesaverde

Tract #26
State of NM Lease #E-291-3
Description: SE/4
Royalty - State of NM - 12.5%
WI - The Wiser Oil Co. - All
ORRI - None

Tract #28
State of NM Lease #E-291-35
(same as above for Chacra)

#234 Well

Chacra - 160.68 acres, NW/4 Sec. 2-26N-7W Outside PA Outside PA Mesaverde - 321.54 acres, N/2 Sec. 2-26N-7W

Chacra

Tract #27

OK

OK

State of NM Lease #E-291-35

Description: Lots 3, 4, S/2 NW/4 (NW/4) 160.68 acres
Royalty - State of NM - 12.5%
WI - EPNG - All
ORRI - Union Oil Co. of California Sliding Sca
Hondo Oil and Gas Co.

Sliding Scale Override

Mesaverde

Tract #26

State of NM Lease #E-291-3

Description: Lots 1, 2, S/2 NE/4 (NE/4)
Royalty - State of NM - 12.5%
WI - The Wiser Oil Co. - All
ORRI - None 160.76 acres

Tract #27 State of NM Lease #E-291-35 (same as above)

EL PASO NATURAL GAS COMPANY EXHIBIT NO. 1 CHACRA FORMATION WELL LOCATION PLAT RINCON UNIT — RIO ARRIBA COUNTY, NEW MEXICO

			RINCO	N UNI	T - RI	O ARR	18A CC	DUNTY,	NEW A	MEXICO		ATION D	12 y
		E.1	P.N.G.			81-01-12	PNG 1016 -0- -0-				EFORE EXA	OIL CONSERVATION D EPNG EXHIBIT NO.	CASE INC. SUBMITTED BY HEARING DATE
T 27 N	12	3	 				} 35			3	36	OIL EP	3 S H
	223A ⑤			223 ③									
	78-01-03	1031 107 -0-	LIN 1030 44 -0-	78-01-04		2 ⁵ 3.4	N.G.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				·
. A			 				2				 		
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26 N		BOI	20A 78-01-30 LIN 927 59 -0-			⊚ £ .P	N.G.		189 Jk	1015 E.P	.N.G.		
			-0-	17 ** 77-02-28	191 ** 72-08-24	1029; 48 - 0 -	5		¥ 70-03-04	-0-	23; ** 2 ³ 1-02-01	534 (QU	ESTIONABLE)
		K	964 87 -0-)17A	72-08-24			1337.		i	S ₃₁ -03-0		
				11-03-28							1030 1030 -0-	212 ** 78-09-29	

LEGEND

- © PROPOSED CHACRA MESAVERDE COMMINGLED WELLS
- * 1034 ORIGINAL CHACRA WELLHEAD SHUT-IN PRESSURE-PSIA
 - 134 1980 AVERAGE PRODUCTION RATE IN MCFPD
 - 34 OIL CUM, AS OF 1-1-81
- 78-01-07 DATE OF WELL COMPLETION

AVERAGES

989 PSIA — ORIGINAL CHACRA WHSIP
618MCFPD. — 1980 PRODUCTION RATE
NO OIL PRODUCTION AND RELATIVELY WATER FREE

PREPARED BY: RESERVOIR ENGINEERING DEPARTMENT

						RMATIC		L LOCAT				NOT LER DIVISION	502 Burch 5 (98)
				-		• •	7 W		÷,				73]
		E.1	N.G.	-		E.	P.N.G.					ERVATION HIBIT NO	184/
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	223A ③			© 223							!		
	19 A ** 78-01-03	80LIN 1119 71 3069	OIL CO. 1117 111 4520	20 ** 78-01-04		E. 234 ©	P.N.G.			Ē	P.N.G.		
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3		BOLIN	1030 138 1079	¥ 77-02-23		E.P	.N.G.						
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			976 50 2029	17A ** 77-03-28									
5. 8.4.2					102 * 58-06-17	1091 158 288					42		

EL PASO NATURAL GAS COMPANY
EXHIBIT NO. 2

LEGEND

PROPOSED CHACRA – MESAVERDE COMMINGLED WELLS

1234 ORIGINAL MESAVERDE WELLHEAD SHUT-IN PRESSURE – PSIA

123 1980 AVERAGE PRODUCTION RATE IN MCFPD

12 OIL CUM. AS OF 1-1-81

78-01-07 DATE OF WELL COMPLETION

AVERAGES

1036 PSIA - ORIGINAL MESAVERDE WHSIP

88 MCFPD: 1980 PRODUCTION RATE

3.3 BOPD - FOR WELLS COMPLETED IN 1977 & 1978

0.4 BWPD - FOR ALL MESAVERDE WELLS

PREPARED BY: RESERVOIR ENGINEERING DEPARTMENT

#223 Well

Chacra - 160.00 acres, SE/4 Sec. 34-27N-7W Mesaverde - 320.00 acres, S/2 Sec. 34-27N-7W Outside PA Outside PA

Chacra

	Tract #19 USA Lease #SF 080385 Description: SE/4 Royalty - USA - 12.5%	
Approval	WI - EPNG- All	
OK	ORRI - Union Oil Co. of California	Sliding Scale Override
OK	Pattie Beamon Lundell, et al	Sliding Scale Override
OK	Union Oil Co. of California	3.458333%
OK	R. Beamon	.250000%
OK	Pattie Beamon Lundell	.125000%
OK	Richard H. Godfrey, Jr.	.125000%
OK	Houston E. Hill & Mozelle C. Hill	.125000%
OK	Phyllis F. Hoffman	.250000%
No Reply	Crown Central	.666667%
, <u> </u>		5.000000%

Mesaverde

Tract #19 USA Lease #SF 080385 (same as above)

Tract #18 USA Lease #SF 080213 Description: SW/4

Royalty - USA - 12.5%
WI - EPNG- All
ORRI - H. K. Riddle, Trustee of the
Hansel King Riddle II Trust

No Reply

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

EXHIBIT NO. 3

5%

CASE NO.

#223A Well

Outside PA Chacra - 160.00 acres, SW/4 Sec. 34-27N-7W Outside PA Mesaverde - 320.00 acres, S/2 Sec. 34-27N-7W

Chacra

Tract #18 USA Lease #SF 080213 Description: SW/4
Royalty - USA - 12.5%
WI - EPNG- All ORRI - H. K. Riddle, Trustee of the Hansel King Riddle II Trust

5%

Mesaverde

Tract #18 USA Lease #SF 080213 (same as above)

USA Lease #SF 080385

No Reply

OK

OK

OK

OK

OK

OK

OK

OK

No Reply

Description: SE/4 Royalty - USA - 12.5% WI - EPNG- All WI ORRI - Union Oil Co. of California Sliding Scale Override Pattie Beamon Lundell, et al Sliding Scale Override Union Oil Co. of California 3.458333% R. Beamon .250000% .125000% Pattie Beamon Lundell Richard H. Godfrey, Jr. .125000% .125000% Houston E. Hill & Mozelle C. Hill Phyllis F. Hoffman

Tract #19

Crown Central

.250000% .6666678

5.000000%

#233 Well

Outside PA Chacra - 160.00 acres, SW/4 Sec. 2-26N-7W

Inside PA Mesaverde - 320.00 acres, S/2 Sec. 2-26N-7W

Chacra

	Tract #28	· ·
	State of NM Lease #E-291-35	
	Description: SW/4	
	Royalty - State of NM - 12.5%	
	WI - EPNG - All	
OK	ORRI - Union Oil Co. of California	Sliding Scale Override
OK	Pattie B. Lundell, et al	Sliding Scale Override
OK	Helen L. Harvey	4.041667%
OK	William M. Siegenthaler	.0416678
OK	Jeffie Lou Pecor	.166666%
OK	J. I. Harvey	.750000%
		5.000000%

Mesaverde

Tract #26
State of NM Lease #E-291-3
Description: SE/4
Royalty - State of NM - 12.5%
WI - The Wiser Oil Co. - All
ORRI - None

Tract #28
State of NM Lease #E-291-35
(same as above for Chacra)

#234 Well

Outside PA Chacra - 160.68 acres, NW/4 Sec. 2-26N-7W Outside PA Mesaverde - 321.54 acres, N/2 Sec. 2-26N-7W

Chacra

Tract #27
State of NM Lease #E-291-35
Description: Lots 3, 4, S/2 NW/4 (NW/4) 160.68 acres
Royalty - State of NM - 12.5%
WI - EPNG - All
ORRI - Union Oil Co. of California Sliding Sca

OK ORRI - Union Oil Co. of California Sliding Scale Override OK Hondo Oil and Gas Co. 5%

Mesaverde

Tract #26
State of NM Lease #E-291-3
Description: Lots 1, 2, S/2 NE/4 (NE/4) 160.76 acres
Royalty - State of NM - 12.5%
WI - The Wiser Oil Co. - All
ORRI - None

Tract #27
State of NM Lease #E-291-35
(same as above)

Dockets Nos. 23-81 and 24-81 are tentatively set for July 29 and August 12, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 15, 1981

9 A.H. - 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:

- ALLOWABLE: (1) Consideration of the allowable production of gas for August, 1981, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
 - (2) Consideration of the allowable production of gas for August, 1981, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
- CASE 7302: 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 Chacra and Hesaverde production in the wellbores of four wells to be drilled in the SE/4 and SW/4 of Section 34, Township 27 North, Range 7 West, and the SW/4 and NW/4 of Section 2, Township 26 North, Range 7 West, respectively.
- CASE 7303: Application of Florida Hydrocarbons Company for surface commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the surface commingling of Morrow, Strawn, Atoka, and Wolfcamp gas produced from five wells located in Unit F of Section 10, Units G and O of Section 15, and Units A and I of Section 22, all in Township 23 South, Range 34 East, Antelope Ridge Field, after separately metering the gas produced from each well and each zone. Lease liquids would be separated out at the wellhead and the gas processed in a plant, allocating plant production back to each well on the basis of meter readings. Applicant further seeks a procedure whereby additional wells could be similarly commingled in said system.
- CASE 7304: Application of ARCO Oil and Gas Company for directional drilling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to directionally drill its Custer Well No. 1, the surface location of which is 810 feet from the North line and 2164 feet from the West line of Section 6, Township 25 South, Range 37 East, Custer Field, to a bottom hole location within 100 feet of a point 1650 feet from the North line and 660 feet from the West line of said Section 6, at a true vertical depth of approximately 12,800 feet.
- CASE 7305: Application of Amoco Production Company for compulsory pooling and an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 34, Township 23 South, Range 28 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South line and 1980 feet from the West line of said Section 34. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7306: Application of Cetty Oil Company for pool creation, special pool rules, and a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Lower Pennsylvanian gas pool for its Federal 33 Well No. 1 located in Unit G of Section 33, Township 26 South, Range 33 East, and the promulgation of special rules therefor, including provisions for 640-acre spacing. Applicant also seeks approval of a 616.24-acre non-standard gas proration unit comprising Sections 33 and 34, Township 26 South, Range 33 East.
- CASE 7307: Application of Mesa Petroleum Company for compulsory pooling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all royalty interests in the Mesaverde formation underlying the W/2 of Section 23, Township 26 North, Range 6 West, to be dedicated to its Federal Well No. 12E drilled at a standard location thereon.
- CASE 7308: Application of Mesa Petroleum Company for compulsory pooling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all royalty interests in the Mesaverde formation underlying the E/2 of Section 23, Township 26 North, Range 6 West, to be dedicated to its Federal Well No. 11E drilled at a standard location thereon.
- CASE 7074: (Reopened and Readvertised)

In the matter of Case 7074 being reopened pursuant to the provisions of Order No. R-6565, which order created the South Elkins-Fusselman Gas Pool in Chaves County, New Mexico, to permit all interested parties to appear and present evidence as to the exact nature of the reservoir, and more particularly, as to the proper rate of withdrawal from the reservoir if it is determined to be a retrograde gas condensate reservoir.

MONTGOMERY & ANDREWS

PROFESSIONAL ASSOCIATION ATTORNEYS AND COUNSELORS AT LAW

325 PASEO DE PERALTA POST OFFICE BOX 2307 SANTA FE, NEW MEXICO 87501

TELEPHONE 505-982-3873
TELECOPY 505-982-4289

July 14, 1981

ALBUQUERQUE OFFICE
SUITE 916
BANK OF NEW MEXICO BUILDING
ATH AND GOLD AVENUE, S.W.
POST OFFICE BOX 1396
ALBUQUERQUE, NEW MEXICO B7103
TELEPHONE 505-243-3733

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

> Re: Application of El Paso Natural Gas Company for Downhole Commingling, Rio Arriba County, New Mexico; NMOCD Case No. 7302

Gentlemen:

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

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

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

PUSM H

AHB: to

EIPaso NATURAL GAS

OLL COMSCRIVATION DIVES!

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

June 16, 1981

Case 7302

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

Gentlemen:

El Paso Natural Gas Company respectfully requests a hearing to be set before the Division or its designated examiner on July 15, 1981, if possible. El Paso seeks approval to drill and complete four (4) wells in both the Chacra and Mesaverde Formations, and downhole commingle the production. The proposed wells are the Rincon Unit Nos. 223, 223A, 233 and 234. They will be located in the SE4 and SW4 of Section 34, T27N-R7W, and the SW4 and NW4 of Section 2, T26N-R7W, respectively, Rio Arriba County, New Mexico.

E. R. Manning E. R. Manning

jе Messrs.

D. C. Adams - Farmington

D. E. Adams

D. T. Burleson D. N. Canfield

E. J. Coel

J. F. Eichelmann, Jr.

C. E. Matthews

D. R. Read

L. G. Truby

T. F. Hawkins

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

9

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

CASE NO. $\frac{7302}{\text{Color No.}}$

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

ORDER OF THE DIVISION

BY THE DIVISION:

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 7 West, respective NMPM, Rio Arriba County, New Mexico.

(3) That the applicant seeks authority to commingle

Chacra and Mesaverde production

within the wellboresof the above-described welk.

		- 1 (
	The state of the s	zone, the
	subject wells is capable of low marginal production	only.
	(5) That from the Mesaverde	each of zone, the
	subject wells is capable of low marginal production	only.
	(6) That the proposed commingling may result	in the recove
	of additional hydrocarbons from each of the subject	pools, there
	preventing waste, and will not violate correlative	rights.
	(7) That the reservoir characteristics of each	h of the
•	subject zones are such that underground waste would	not be cause
	by the proposed commingling provided that the welk	are xws not shut-i
	for an extended period.	
	(8) That to afford the Division the opportuni	ty 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 subjec	t wellsxixs are
	shut-in for 7 consecutive days.	
	(9) That in order to allocate the commingled	production
	to each of the commingled zones in the subject wells	
	-percent of the commingled production show	uld be
	allocated to the Chacra zone, and	**************************************
am a same	percent of the commingled production t	to the
	Mesaverde zone.	
	(ALTERNATE)	
	(9) That in order to allocate the commingled p	production to
	each of the commingled zones in the wells, applicant fest the Chaca zone separately and the Chaca and Mesave	should
and should	consult with the supervisor of the Aztec dis	strict office
	of the Division and determine an allocation formula	for each of
	the productive zones.	Land lon
	resembed of the presence or productivity	e wells
· •	resembled of the preservoir damage or waste	of any such
5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	result from comminging in the wellbore.	

IT IS THEREFORE ORDERED:

	(1) That the applicant, till aso water at das tompany, is	
	hereby authorized to commingle Chacra and	
	Mesaverdeproduction within the wellhoresof	
fo To	wells to be drilled in the SE/4 and SW/4 of Section 34, **EM&*********************************	_
	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 each of the subject wells.	
	(ALTERNATE)	
	-(2) That percent of the commingled	-
	production shall be allocated to the Chacra	
	zone and percent of the commingled	-
	-production-shall be allocated to the Mesaverde	
	zone.	
المراسط المراسط المراسط المراسط	(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 concurrent	LУ
i.	present, to the Division, a plan for remedial action.	
المتنسخ تتنس	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	َ ت
	designated.	
\bigcap	(4) That the Division Director many Reserved	
	the community authority with respect to day of the subject where if the pressures or productivity encountered in such will indicates that knowner	
7	subject wills if the pressures or productivity	
	incommitteed in such will indicates that kentrair	
	damage or weste may result from commingling	
	in the wellow of said well.	-
- 11		