CASE 6839: KIMBELL OIL COMPANY FOR DOMINGLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO

CASE NO.

6839

APPlication,
Transcripts,
Small Exhibits,

ETC.

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

EXAMINER HEARING

IN THE MATTER OF:

Application of Kimbell Oil Company) for downhole commingling, Rio)
Arriba County, New Mexico.

CASE 6839

BEFORE: Richard L. Stamets

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:

W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 37501

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E. A. CLEMENT

Direct Examination by Mr. Kellahin Cross Examination by Mr. Stamets

EXHIBITS

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MR. STAMETS: We'll call next Case 6839.

MR. PADILLA: Application for Kimbell

Oil Company for downhole commingling, Rio Arriba County,

MR. STAMETS: Call for appearances.

MR. KELLAHIN: If the Examiner please,

I'm Tom Kellahin of Santa Fe, New Mexico, appearing on behalf of the Applicant, and I have one witness.

MR. STAMETS: Any other appearances?

I'd like to have the witness stand and be sworn, please.

(Witness sworn.)

E. A. CLEMENT

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

New Mexico.

Q. Mr. Clement, would you please tell us your name, your address, and by whom you're employed?

A. E. A. Clement. My address is 906 North Watson, Farmington, New Mexico. I'm employed by Kimbell Oil Company.

Q. In what capacity are you employed?

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I'm the Production Superintendent for the San Juan Basin Area.

And have you previously testified before the Oil Conservation Division?

Yes, back in 1963.

In what capacity was that, Mr. Clement?

A case similar to this for an independent operator.

Are you a geologist or a petroleum engineer?

I'm a geologist.

MR. KELLAHIN: We tender Mr. Clement as an expert geologist.

MR. STAMETS: The witness is considered qualified.

Would you please turn to what I've marked as Applicant Exhibit Number One and identify for us the proposed well location and what Kimbell Oil Company is seeking to accomplish?

We hope to drill a well in Unit D, Section 26, Township 25 North, Range 6 West. That's in Rio Arriba County. We plan to drill to the -- through the Chacra formation and we would like to produce both the Chacra and the Pictured Cliffs commingled in the gas in the wellbore and produce them as one, through one meter and

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one line.

What is the acreage dedication for the subject well?

The northwest quarter of Section 26.

It would be 160-acre dedication.

160 acres.

Are both the Pictured Cliffs and the Chacra formations dedicated to 160-acre spacing?

Yes.

And will the ownership between the Pictured Cliffs formation and the Chacra formation be common?

Yes.

Your plat indicates some well locations and has superimposed upon it what appears to be some Isopach lines?

Right.

Would you describe those for us?

That's Isopach lines showing the thickness of the Pictured Cliffs in this area.

Would you identify the wells located on your plat? What kind of wells are those?

We have a well in the northeast quarter of Section 26, which is a producing Pictured Cliffs Well; a well in the northeast of 27 is a Dakota Well; the southeast of Section 22, we have a Chacra-Pictured Cliffs Well,

which is being dual, dual produced.

Q These wells in the south half of Section 26, what kind of wells are those?

A. The wells in the south half of 26 are both Dakota wells.

Q. And there's a well in the southwest quarter of 27, what kind of well is that?

A It's a Dakota well, also.

Q. Okay. Other than your Chacra-Pictured Cliffs dual well in the southeast quarter of Section 22, and then the Pictured Cliffs well in the northeast quarter of Section 26, are there any other Chacra or Pictured Cliffs wells depicted on your plat?

A. There's one more Pictured Cliffs well in the southwest quarter of Section 34, the Salazar No. 2. The rest of the wells in the area are Dakotas, with the exception of the northeast of 35, the No. 4 Well, is a Gallup producing well.

Q. All right, sir, would you turn to what we've marked as Exhibit Number Two and identify that for us?

A. Exhibit Number Two shows the yearly shutin pressures taken on the Salazar No. 1 Well, the one in the southeast quarter of Section 22. This is a well we're producing with a packer between the Pictured Cliffs

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and the Chacra, and we make a shutin pressure each year as a packer leakage test, and I have listed these pressures by year and divided them out and come up with the difference factor in the pressures on each formation.

This Salazar Well in the southeast quartter of Section 22 was on first production in 1959?

That's right.

And that is a well operated by Kimbell Q. Oil Company?

Right,

What comparisons can you draw to the proposed location from the information derived from the production of the Salazar No. 1 Well?

I believe the Chacra formation will produce about like the Salazar Well does. The Pictured Cliffs, being six feet instead of ten feet thick, I would assume would make 60 percent of what the Salazar Well makes.

Do you have an opinion as to the pressure Q. differential that you will encounter in the subject well between the Chacra and the Pictured Cliffs formations?

I believe it would be the same as the Salazar Well. The pressure generally run the same throughout this area there, and the greatest difference factor was in 1977, a factor of 1.562.

> Q. Do you have an opinion as to whether the

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difference in pressure between the two zones would be sufficient so that in the subject well you would encounter any significant cross flows of gas production from either formation?

I don't believe there would be any damaging cross flow with the difference factor no more than that.

All right. Let's look at Exhibit Number Three and have you identify that for us.

This is the gas production and reservoir pressures for a 20-year period from 1959 through '79 on the Salazar No. 1 Well.

Does either the Pictured Cliffs or the Chacra formation make liquids in any appreciable amount?

Not in any appreciable amount, no.

In your opinion will the liquid production cause any problems if downhole commingling is approved for this well?

No.

Do you have an opinion as to whether or not it would be economic to drill and produce the Pictured Cliffs and Chacra formations in the subject well as a dual completed well?

That will depend on how much the Pictured Cliffs would make, but with the wells, surrounding wells,

I believe that the production from the Pictured Cliffs is going to be quite small, and I don't believe it would be justified in spending the amount of money it would take to dual complete the well.

Q Do you have an estimate of the additional cost it would require the operator to expend in order to dually complete the subject well?

A I believe it would be around \$28,000.

Mr. Clement, is it not a common practice in this area to downhole commingle both the Pictured Cliffs and Chacra formations?

A Yes, it's being done quite a few places.

Do you have a proposal to the Examiner as to how you might suggest the production from both formations be allocated?

Me -- if we complete the well in this manner, we would complete the zones separately, complete the bottom zone and clean it out and test it, and set a plug on top of it, come up the hole and complete the upper zone the same way and test it. We'll have a test on each zone.

Q. Are you familiar with the composition of the gas produced by the Pictured Cliffs and the Chacra formations?

. Composition?

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commingling?

It's quite similar, quite similar in BTU's.

All right. In your opinion, Mr. Clement, will approval of this application be in the best interests of conservation, prevention of waste, and the protection of correlative rights?

Yes, I believe it will.

Were Exhibits One, Two, and Three prepared by you or compiled under your direction and supervision?

Prepared by me.

MR. KELLAHIN: We move the introduction of Exhibits One, Two, and Three.

MR. STAMETS: The exhibits will be admitteă.

CROSS EXAMINATION

BY MR. STAMETS:

Mr. Clement, when you talk about the liquids not being appreciable, what volume are you discussing?

In the well we're producing, we don't get any distillate at all. It's only water, and it's a matter of five, six, gallons a day. It's very difficult to

Page _______11____

measure. When you blow it off, it comes off in the form of mist. That's an estimate of the gallons a day.

o Which zone does that come from?

A. Mostly from the Chacra. We do -- we do have some from the Pictured Cliffs, but we know we do, but the way we're producing this well through the casing, you can't blow it off and it's a matter of so much liquid getting in on top of the formation and the gas bubbles through it. We feel that we can get away from this by producing both zones together. We can keep the well clean and produce more gas.

more gas.

Q What is the depth of the Pictured Cliffs and Chacra in the area?

I didn't understand you.

A How deep are the Pictured Cliffs?

A. Oh, in depth, the Pictured Cliffs is 2650 feet to the top of the Pictured Cliffs, and the Chacra is 3513 feet in this well we anticipate to drill.

Q. And how do you anticipate the well will be finally completed? Where will your tubing be set?

A. We'll set tubing at -- below, even with the bottom perforation in the Chacra, which will be about 3675 feet.

Q. Now you indicated that other wells were being commingled in the Chacra and the Pictured Cliffs in

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the area. Do you have -- what do you mean by area, northwest New Mexico, or --

No, in the immediate area. Amerada Hess Company has several wells to the east of us and it would be in 25 North and 5 West. I don't -- I believe three wells they have in there. I know there's several more. I see where they -- you have had hearings in the past on them, and I can't name the companies. I'm not --

What sort of potentials do you anticipate in these zones?

The most that I would expect from the Pictured Cliffs would be 1000 -- be able to produce, would be 1000 Mcf per month. That would be the top.

Okay.

Probably won't make that much.

From the Chacra I think we might make 3000 Mcf per month.

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

Anything further in this case?

MR. KELLAHIN: No, sir.

MR. STAMETS: The case will be taken

under advisement.

(Hearing concluded.)

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY 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.

Saray 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. 19,80
heard by me on
the land, Examiner
Oll Conservation Division

SALLY W. BOYD, C.S.R.
Rt. 1 Box 193-B
Santa Fe. New Mexico 57301
Phone (503) 435-7409

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
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Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 87501

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MR. STAMETS: We'll call next Case 6839.

MR. PADILLA: Application for Kimbell Oil Company for downhole commingling, Rio Arriba County, New Mexico.

MR. STAMETS: Call for appearances.

MR. KELLAHIN: If the Examiner please, I'm Tom Kellahin of Santa Fe, New Mexico, appearing on behalf of the Applicant, and I have one witness.

MR. STAMETS: Any other appearances? I'd like to have the witness stand and be sworn, please.

(Witness sworn.)

E. A. CLEMENT

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BY MR. KELLAHIN:

Mr. Clement, would you please tell us your name, your address, and by whom you're employed?

E. A. Clement. My address is 906 North A. Watson, Farmington, New Mexico. I'm employed by Kimbell Oil Company.

> In what capacity are you employed? Q.

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- Yes, back in 1963.
- In what capacity was that, Mr. Clement?
- A case similar to this for an independent operator.
- Are you a geologist or a petroleum engineer?
 - I'm a geologist.

MR. KELLAHIN: We tender Mr. Clement as an expert geologist.

MR. STAMETS: The witness is considered qualified.

Would you please turn to what I've marked as Applicant Exhibit Number One and identify for us the proposed well location and what Kimbell Oil Company is seeking to accomplish?

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which is being dual, dual produced.

On These wells in the south half of Section 26, what kind of wells are those?

The wells in the south half of 26 are both Dakota wells.

And there's a well in the southwest quarter of 27, what kind of well is that?

A It's a Dakota well, also.

Okay. Other than your Chacra-Pictured Cliffs dual well in the southeast quarter of Section 22, and then the Pictured Cliffs well in the northeast quarter of Section 26, are there any other Chacra or Pictured Cliffs wells depicted on your plat?

In the southwest quarter of Section 34, the Salazar No. 2. The rest of the wells in the area are Dakotas, with the exception of the northeast of 35, the No. 4 Well, is a Gallup producing well.

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 - That's right.
- And that is a well operated by Kimbell Oil Company?
 - Right.
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This is the gas production and reservoir pressures for a 20-year period from 1959 through '79 on the Salazar No. 1 Well.

Does either the Pictured Cliffs or the Chacra formation make liquids in any appreciable amount?

Not in any appreciable amount, no. A.

In your opinion will the liquid production cause any problems if downhole commingling is approved for this well?

> No. A.

Do you have an opinion as to whether or not it would be economic to drill and produce the Pictured Cliffs and Chacra formations in the subject well as a dual completed well?

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> Composition? A.

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SALLY W. BOYD,	Rt. 1 Box 193-B	Santa Fe, New Mexico 8	Phone (505) 455-740

Q.	Yes, sir,	are	the	gases	compatible	for
commingling?				*.		

It's quite similar, quite similar in BTU's.

All right. In your opinion, Mr. Clement, will approval of this application be in the best interests of conservation, prevention of waste, and the protection of correlative rights?

Yes, I believe it will.

Were Exhibits One, Two, and Three pre-Ç. pared by you or compiled under your direction and supervision?

> Prepared by me. A.

MR. KELLAHIN: We move the introduction of Exhibits One, Two, and Three.

MR. STAMETS: The exhibits will be ad-

CROSS EXAMINATION

BY MR. STAMETS:

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Mr. Clement, when you talk about the Ũ. liquids not being appreciable, what volume are you discussing? In the well we're producing, we don't get any distillate at all. It's only water, and it's a matter of five, six, gallons a day. It's very difficult to

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Q. Now you indicated that other wells were being commingled in the Chacra and the Pictured Cliffs in

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No, in the immediate area. Amerada Hess
Company has several wells to the east of us and it would be
in 25 North and 5 West. I don't -- I believe three wells
they have in there. I know there's several more. I see
where they -- you have had hearings in the past on them,
and I can't name the companies. I'm not --

Q What sort of potentials do you anticipate in these zones?

A The most that I would expect from the Pictured Cliffs would be 1000 -- be able to produce, would be 1000 Mcf per month. That would be the top.

Q Okay.

A Probably won't make that much.

From the Chacra I think we might make 3000 Mcf per month.

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

Anything further in this case?
MR. KELLAHIN: No, sir.

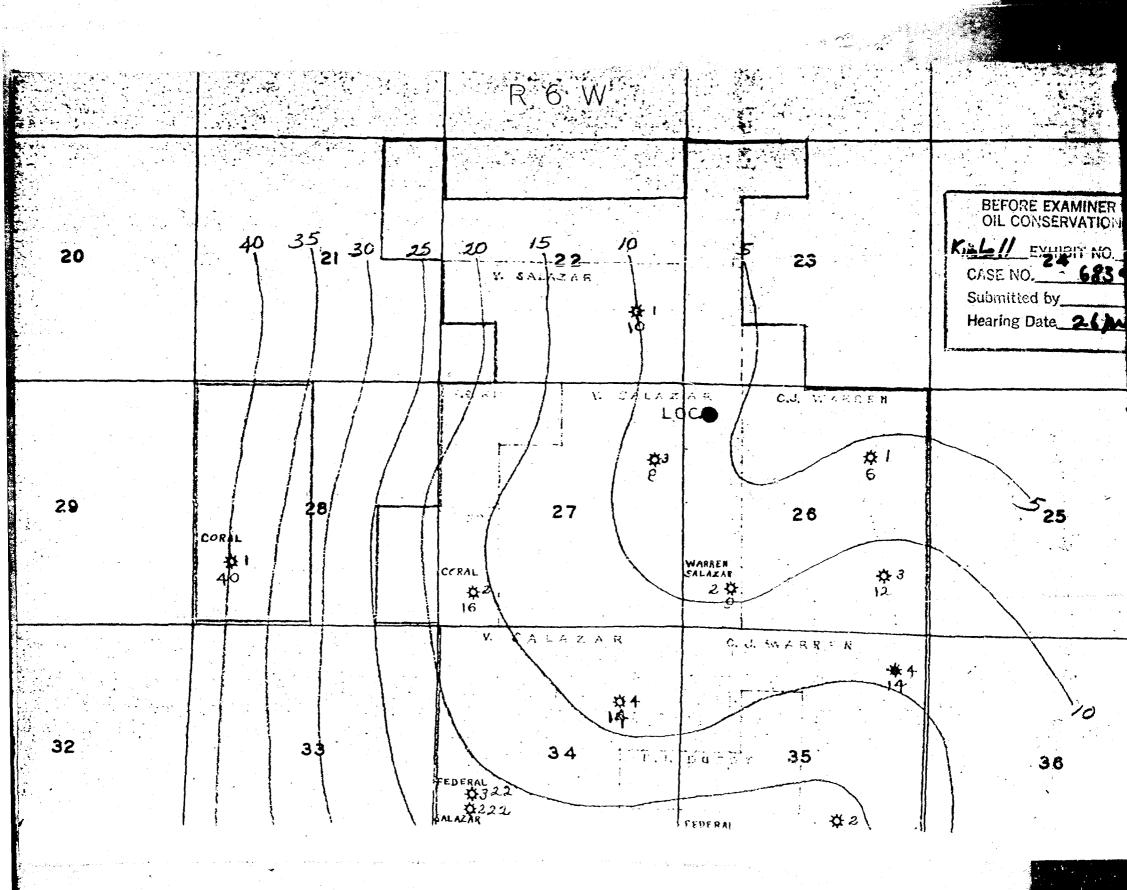
MR. STAMETS: The case will be taken

under advisement.

(Hearing concluded.)

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY 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, Rt. 1 Box 193-B Santa Fe, New Mexico I Phone (305) 455-740 

35 |21 30 BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION 20 CASE NO. 6839 19 Submitted by_ Hearing Date 26 Map 80 V. SALAZ C.J. WARREN **₩ ♯** 1 6 27 26 N CCRAL 30 WARREN SALAZAR \$2 16 **☆**3 12 2 \$ ALAZAR C. J. WARRER ***** 4 34 \tilde{r} , \tilde{r} , Da Sig 35 38 31 FEDERAL **\$**2

YEARLY SHUT IN PRESSURES OF PICTURED CLIFFS & CHACRA ZONES
(As filed on packer leakage tests)

Kimbell Oil Company Salazar No. 1 Unit J, Section 22, T25N, R6W Rio Arriba County, New Mexico

Submitted by Hearing Date 26

YEAR	PICTURED CLIFFS Press. PSIG	CHACRA Pross. PSIC	DIFFERENCE FACTOR
1959	865	964	1.114
1960		N.A.	N.A.
1961	449	450	1.002
1962	387	499	1.289
1963	370	50 0	1.351
1964	340	460	1.352
1965	35 0	473	1.351
1966	360	460	1,277
1967	331	451	1.362
1968	317	440	1,388
1969	299	397	1.327
1970	263	342	1.300
1971	268	342	1,276
1972	250	350	1.400
1973	250	310	1.240
1974	234	300	1.282
1975	235	310	1,319
1976	244	281	1.151
1977	240	375	1,562
1978	260	310	1,192
1979	210	300	1,428

GAS PRODUCTION AND RESERVOIR PRESSURES

Kimbell Oil Company
Salazar No. 1, (1-22)
SEL Sec. 22, T25N, R6W
Rio Arriba County, New Mexico

Year	PICTUR	ED CLIFFS	CI	ACRA
1959	<u>Prod.</u> NCF 23,264	Pressure F.S.I.G. 865	Prod.	Pressure P.S.I.C.
1960	24,424	. •	19,218 42,041	961.
1961	20,988	449	20 ₃ 252	-
1962	18,755	387	26,641	450
1963	14,121	370	29,610	499
1964	15,081	340		500
1965	13,056	350	32,062	460
1966	11,678	360	28,016	473
1967	10,714	331	31,071	460
1968	J2 , 640	317	29,430	451
1969	11,161	209	29,590	440
1970	10,731	263	28,727	397
1971	10,577	268	25 , 988	342
1972	10,257	250	26,255	342
1973	9,887		27,819	350
1974	9,186	250	25,431	310
1975	-	23/4	23,571	300
1976	9,914	235	22,915	310
1977	9,090	24,4	22,112	28).
1978	8,661	240	20,635	375
1979	9,173	260	20,743	310
	4,318	210 (t)rn,	Juno) (,769	300
TOTAL	267,076		540,240	يا ما عروا

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40 35 30 20 23 LAZAS LOCA \$1 6 pc 80k 29 27 26 COREL CCRAL 16 120k OK Graph Graph 14 32 33 34 35 3.6 FEDERAL 22 #322 PC **\$**2

R. 6: W 5 21 30 19 23 V. SALAZAS! ·.e/ T # 1 6 pc 25 EOK PAS N 26 27 30 12 D /1 16 10 K CCRAL DIL ALAZAR F. I. Dung 35 34 3.6 31 **\$**2

YEARLY SHUT IN PRESSURES OF PICTURED CLIFFS & CHACRA ZONES (As filed on packer leakage tests)

Kimbell Oil Company Salazar No. 1 Unit J, Section 22, T25N, R6W Rio Arriba County, New Mexico case 6839

YKAR	PICTURED CLIFFS Press. PSIG	CHACRA Press. PSIG	<u>DIFFERENCE</u> FACTOR
1959	865	964	1.117
1960	N.A.	N.A.	N.A.
1961	449	450	1.002
1962	387	499	1.289
1963	370	50 0	1.351
1964	340	460	1.352
1965	350	473	1,351
1966	360	460	1,277
1967	331	451	1.362
1968	317	440	1.388
1969	299	397	1.327
1970	263	342	1.300
1971	268	342	1.276
1972	250	350	1.400
1973	250	310	1.240
1974	234	300	1,282
1975	235	310	1,319
1976	244	281	1.151
1977	240	315	1.562
1978	260	310	1,192
1979	210	300	1.428

GAS PRODUCTION AND RESERVOIR PRESSURES.

Kimbell Oil Company
Selazar No. 1, (1-22)
SEl Sec. 22, T25N, R6W
Rio Arriba County, New Mexico

KTO WLLIA			CHAC	RA
Year	Prod. Press	ure	Prod.	Pressure P.S.I.G.
1959	23,264 86		19,218	,~ 4
1960	24,424 -		/,2,041	-
1961	20,988 14	9	2 3252	450
1962	18,755 38	37	26,641	499
1963	14,121 3	70	29,610	500
1964	15,081	40	32,062	460
1965	. •	350	28,016	
1966	1	360	31,077	460
		331	29,44	451.
1967	12,640	317	29,59	0 440
1968	11,161	209	28,72	7 397
1969		263	25,98	18 342
1970	10,731	268	26,2	55 342
1971	10,577	· • · · · · · · ·	27,8	
1972	10,257	250	25,4	
1973	9,887	250	23,5	
1974	9,186	234		
1975	9,911,	235	22,	
1976	9,090	244	22,	
1977	3,661	570		
1973	9,173	260		743 310
1979	4,318	210	(thru June) 8	,769 300
TUTA	L 267,076		540	,246

Et 683"

19 C.J. WARREN Laco T **₽**3 **☆** 1 6 25 27 26 N 25 30 CCRAL **☆**3 12 ₩2 16 ALAZAR C. J. SWARRER D . 34 T. T. Farry 35 36 31 FEDERAL #322 FALAZAR \$2\ FEDERAL

YEARLY SHUT IN PRESSURES OF PICTURED CLIFFS & CHACRA ZONES
(As filed on packer leakage tests)

Kimbell Oil Company Salasar No. 1 Unit J, Section 22, T25N, R6W Rio Arriba County, New Mexico

Rio Arriba	County, New Mexico	CHACRA Pross. PSIG	DIFFERENCE FACTOR
YEAR	Press. Plu	964	1.114
1959	865	N.A.	N.A.
1960	N.A.		1.002
1961	449	450	1.289
1962	387	499	1.351
1963	370	500	1.352
1964	340	4 60	1.351
1965	350	473	1.277
1966	360	460	
15	331	451	1.362
1967	317	440	1.388
1968	299	397	1.327
1969	263	342	1.300
1970	268	342	1.276
1971	and a fan it is a fan	350	1.400
1972	250	310	1.240
1973	250	300	1.282
1974	234	310	1.319
1975	235	281	1.151
1976		315	1.562
1977	240	310	1.192
197	260 8	300	1.428
197	9 210	900	

Exhibit 29 Case 6839

GAS PRODUCTION AND RESERVOIR PRESSURES.

Kimbell Oil Company
Salazar No. 1, (1-22)
SEL Sec. 22, T25N, R6W
Rio Arriba County, New Mexico

	PICTUR.	D CLIFFS	CHA	CRA
Year	Prod.	Pressure	Prode	Pressure
1959	<u>NGF</u> 23,264	F.S. I.G. 865	MCF 19,218	P.S.I.G. 964
1960	24,424	-	42,041	•
1961	20,988	449	20,252	450
1962	18,755	387	26,641	499
1963	14,121	<i>3</i> 7 0	29,610	500
1964	15,081	340	32,062	460
1965	13,056	350	28,016	473
1966	11,678	360	31,071	460
1967	10,774	331	29,420	451
1968	12,640	317	29,590	440
1969	11,161	299	28,727	397
1970	10,731	263	25,988	342
1971	10,577	268	26,255	3 42
1972	10,257	250	27,819	350
1973	9,887	250	25,431	310
1974	9,186	234	23,571	300
1975	9,914	235	22,915	310
1976	9,090	244	22,112	281
1977	2,661	240	20,635	375
1978	9,173	260	20,143	310
1979	4,318	210 (thru .	June) 2,769	300
rctal	267,076		540,246	
		7.1	1-1 2	

Exhibit 3 case 6839

KIMBELL OIL COMPANY

P. O. BOX 1007

PARMINGTON, NEW MERICO 87401

505 . 325.8869



February 28, 1980

Mr. Joe D. Ramey, Division Director State of New Mexico Emergy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Subject: Application for Downhole Commingling

Dear Sir:

Kimbell Oil Company plans to drill a Chacra-Pictured Cliffs well known as the Salamar No. 4-26 located in Unit D, Section 26, T25N, R6W, Rio Arriba County, New Mexico. We desire to commingle the gas production from the Otero Chacra and South Blanco Pictured Cliffs formation in this well for the following reasons:

- (1) The Pictured Cliffs is expected to be approximately 6 feet thick at this location, as correlated from existing nearby well logs, and will be capable of low marginal production only.
- (2) The Chaera formation is expected to be capable of a low rate of production.
- (3) It is believed the total commingled production from both zones will result in an economically feasible well.
- (4) Should a dual completion be required, it is not believed the gas from the Pictured Cliffs will justify the added expense, and if so, the Pictured Cliffs will not be produced.
- (5) The commingling and production of the Pictured Cliffs gas will reult in producing gas that would probably not be produced otherwise.
- (6) No correlative rights will be violated as all direct offsetting acreage is under the Salazar-Warren leases.
- (7) The Kimbell Oil Company Salazar No. 1 located in Unit J, Section 22, T25N, R6W, has been dually produced from the Chacra and Pictured Cliffs with a packer between the formations and we have found it very difficult to keep the water off of the Pictured Cliffs formation.

Case 6839

For your consideration is arriving at a decision on this application, I am enclosing a 20 year record of the shut-in pressures on the Kimbell Oil Go. Salamar No. 1, which is a northwest diagonal offset well. This descriptates that the pressures of the 2 sense have never differed by a factor greater that 1.562 and there should be no damaging crossflow between sense in the event it is ever necessary to shut the well in for an extended period.

Also enclosed is an isopach map of the Pictured Cliffs some in the immediate area.

Sincerely yours,

KINBELL OIL COMPANY

E. A. Clement, Prod. Supt. Farmington District

cc: Oil Conservation Div.
Astec District

YEARLY SHUT IN PRESSURES OF PICTURED CLIFFS & CHACRA ZONES
(As filed on packer leakage tests)

Kimbell Oil Company Selemar No. 1 Unit J, Section 22, T25N, R6W Rio Arriba County, New Mexico

YEAR	PICTURED CLIFFS	CHACRA Pross. PAIG	DIFFERENCE FACTOR
1959	865	964	1.114
1960	N.A.	N.A.	N.A.
1961	449	450	1.002
1962	387	499	1,289
1963	37 0	500	1.351
1964	340	460	1.352
1965	350	473	1.351
1966	360	460	1.277
1967	331	451	1.362
1968	317	440	1.388
1969	299	397	1.327
1970	2 63	342	1.300
1971	268	342	1.276
1972	250	35 0	1.400
1973	250	310	1.240
1974	234	300	1.282
1975	235	310	1.319
1976	244	281	1.151
1977	240	375	1.562
1978	260	310	1.192
1979	210	300	1.428

R 6 W 30 23 19 LOC HILL CJ. WARREN 25 **☆**1 **₩**3 N 26 27 30 **☆** 3 12. CCRAL ≱³ 16 ALAZAR C. J. WARREN 10 34 35 31 1 E. F. 25 & 5 7 Y 36 EDERAL 33.2 ALAZAR FEDERAL PAS 22

Docket No. 8-80

Dockets Nos. 9-80 and 10-80 are tentatively set for April 9 and 23, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 26, 1960

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

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

- CASE 6836: Application of Amax Chemical Corporation for the amendment of Order No. R-111-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-111-A to extend the boundaries of the Potash-Oil Area by the inclusion of certain lands in Sections 11, 12, and 13, Township 19 South, Range 30 East, and Sections 7 and 18, Township 19 South, Range 31 East.
- CASE 6839: Application of Kimbell Oil Company for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Otero-Chacra and South Blanco-Pictured Cliffs production in the wellbore of its Salazar Well No. 4-26 to be located in Unit D of Section 26, Township 25 North, Range 6 West.
- CASE 684G: Application of Union Texas Petroleum 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 wellbore of its Johnston Federal Well No. 11Y located in Unit N of Section 7. Township 31 Morth, Range 9 West.
- CASE 6841: Application of CIG Exploration, Inc. for two non-standard gas proration units, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of two non-standard gas proration units in Township 16 South, Range 28 East, the first being 219.6 acres comprising Lots 1 thru 8 of Section 1 and the second being 219.92 acres comprising Lots 1 thru 8 of Section 2, for the Wolfcamp, Pennsylvanian, and Mississippian formations, each unit to be dedicated to a well to be drilled at a standard location thereon.
- CASE 6842: Application of ARCO Dil and Gas Company for an unorthodox gas well location, simultaneous dedication, and approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its W. C. Roach Well No. 6, 660 feet from the North line and 1980 feet from the West line of Section 21, Township 20 South, Range 37 East, Lumont Gas Pool, to be simultaneously dedicated with its W. C. Roach Well No. 1 in Unit D to the W/2 of said Section 21. Also sought are findings that the proposed well is necessary to effectively and efficiently drain that portion of the provation unit which cannot be so drained by the existing unit well.
- CASE 6843: Application of Yates Petroleum Corporation for two compulsory poolings, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Yeso
 formation underlying two 40-acre proration units, the first being the SE/4 SE/4 and the second
 being the SE/4 of Section b, Township 19 South, Range 25 East, Penasco Draw Field, each unit
 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 wells 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 wells and a charge for risk involved in drilling
- CASE 6844: Application of Arrowhead Oil Corporation for two exceptions to Order No. R-III-A and an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the casing-cementing rules of Order No. R-III-A to complete its Creek Federal Well No. 3 at an unorthodox location 250 feet from the North line and 2350 feet from the East line and its Creek Federal Well No. 4 to be drilled in Unit G, both in Section 23, Township 18 South, Range 30 East, by setting surface casing at a depth of approximately 600 feet and production casing at total depth. The production casing would have cement circulated back to the potash zone in the salt section.
- CASE 6845: Application of Marathon Oil Company for an unorthodox gas well location, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 800 feet from the North line and 200 feet from the East line of Section 30, Township 21

 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, all of Section 30 or that portion thereof which may be reasonably presumed productive of gas from said pool to be dedicated to the well.

CASE 6846: Application of Doyle Hartman for two compulsory poolings, two non-standard gas proration units, and two unorthodox well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Eumont Gas Pool underlying two 80-acre non-standard gas proration units, the first being the S/2 NE/4 of Section 13, Township 21 South, Range 36 East, to be dedicated to a well to be drilled at an unorthodox location 1650 feet from the Morth line and 2310 feet from the East line of said Section 13, and the second being the N/2 NE/4 of said Section 13 to be dedicated to a well to be drilled at an unorthodox location 1330 feet from the North line and 2310 feet from the East line of said Section 13. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designtion of applicant as operator of the wells and a charge for risk involved in drilling said wells.

CASE 6834: (Continued and Readvertised)

Application of Conoco Inc. for a dual completion and unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its SEMU Burger Well No. 107 at an unorthodox location 2615 feet from the South and East lines of Section 19, Township 20 South, Range 38 East, to produce oil from the Blinebry Oil and Gas and Drinkard Pools.

CASE 6837: (Continued from March 12, 1980, Examiner Hearing)

Application of Curtis Little for compulsory pooling, Rio Arriba County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 7, Township 25 North, Range 3 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. 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 6847:

Application of Tenneco Oil Company for dual completions and downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete, in such a manner as to produce gas from the Dakota formation and commingled Charra and Mesaverde production through parallel strings of tubing, ten proposed wells to be located as follows: in Township 29 Morth, Range 10 West: Unit C, Section 19; Unit N, Section 19; Unit A, Section 30; and Unit D, Section 30; in Township 29 North, Range 11 West: Unit G, Section 24; Unit O, Section 24; Unit A, Section 25; Unit D, Section 25; Unit M, Section 25; and Unit P, Section 25.

CASE 6818: (Continued from March 12, 1980, Examiner Hearing)

Application of Tenneco Oil Company for an NGPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination for its State HL 11 Well No. 1 located in Unit N of Section 11, Township 19 South, Range 29 East.

CASE 6849: (This is the same matter as was previously designated Case No. 6813.)

Application of retroleum Development Corporation to amend Order No. R-6196, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to amend Order No. R-6196 which authorized re-entry of a well at an unorthodox location in the Lusk-Morrow Gas Pool to be dedicated to the N/2 of Section 13, Township 19 South, Range 31 East. Applicant now seeks approval for a new revised location 750 feet from the North line and 660 feet from the West line of said Section 13.

CASE 6848: Application of Petroleum Development Corporation for pool contraction and creation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the Querecho Plains-Rone Spring Pool to comprise the Upper Bone Spring formation only, from 8390 feet to 8680 feet on the log of its McKay West Federal Well No. 1 located in Unit F of Section 34, Township 18 South, Range 32 East, and the creation of the Querecho Plains-Lower Bone Spring Pool to comprise said formation from 8680 feet to the base of the Bone Spring underlying the NW/4 of said Section 34.

CASE 6826: (Continued from March 12, 1980, Examiner Hearing)

Application of Tahoe Oil and Cattle Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Penrose Skelly Pool underlying the SE/4 SE/4 of Section 25, Township 21 South, Range 36 East, to be dedicated to its Bromlee Well No. 1 located thereon. Also to be considered will be the cost of recompleting 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 recompleting said well.

OIL CONSERVATION COMMISSION DISTRICT

Case 6839

OIL CONSERVATION COMMISSION BOX 2088	DATE Sebruary 28, 1980
SANTA FE, NEW MEXICO	RE: Proposed MC
	Proposed SWD Proposed WFX Proposed PMX
Gentlemen:	
I have examined the application dated	Selman, 28, 1980
for the Kinkell Oil B. Salson #4	D-76-75N-6W
Operator Lease and W	
and my recommendations are as follows:	
	Yours very truly,
	Frank 5. Chang

KIMBELL OIL COMPANY

P. O. BOX 1097

FARMINGTON, NEW MEXICO 87401

505 - 225-3229

February 28, 1980

Mr. Joe D. Ramey, Division Director State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Subject: Application for Downhole Commingling

Dear Sir:

Kimbell Oil Company plans to drill a Chacra-Pictured Cliffs well known as the Salamar No. 4-26 located in Unit D, Section 26, T25N, R6W, Rio Arriba County, New Mexico. We desire to commingle the gas production from the Otoro Chacra and South Blanco Pictured Cliffs formation in this well for the following reasons:

- (1) The Pictured Cliffs is expected to be approximately 6 feet thick at this location, as correlated from existing nearby well logs, and will be capable of low marginal production only.
- (2) The Chacra formation is expected to be capable of a low rate of production.
- (3) It is believed the total commingled production from both zones will result in an economically reasible well.
- (4) Should a dual completion be required, it is not believed the gas from the Pictured Cliffs will justify the added expense, and if so, the Pictured Cliffs will not be produced.
- (5) The commingling and production of the Pictured Cliffs gas will reult in producing gas that would probably not be produced otherwise.
- (6) No correlative rights will be violated as all direct offsetting acreage is under the Salazar-Marren leases.
- (7) The Kimbell Oil Company Salazar No. 1 located in Unit J, Section 22, T25N, R6W, has been dually produced from the Chacra and Pictured Cliffs with a packer between the formations and we have found it very difficult to keep the water off of the Pictured Cliffs formations

FEB 29 1980
OIL CON. COM.
OIL DIST. 3

For your consideration is arriving at a decision on this application, I am enclosing a 20 year record of the shut-in pressures on the Kimbell Oil Co. Salazar No. 1, which is a northwest diagonal offset well. This demonstrates that the pressures of the 2 zones have never differed by a demonstrates that 1.562 and there should be no damaging crossflow before greater that 1.562 and there should be no damaging crossflow between sones in the event it is ever necessary to shut the well in for an extended period.

Also enclosed is an isopach map of the Pictured Cliffs zone in the immediate area.

Sincerely yours,

KIMBELL OIL COMPANY

E. A. Clement, Prod. Supt. Farmington District

Oil Conservation Div. Aztec District



YEARLY SHUT IN PRESSURES OF PICTURED CLIFFS & CHACRA ZONES
(As filed on packer leakage tests)

Kimbell Oil Company Salasar No. 1 Unit J, Section 22, T25N, R6W Rio Arriba County, New Mexico

		ANTGO	
YEAR	Press. PSIC	S CHACRA Press. PST	DIFFERENCE
1959	865		FACTOR
1960	N.A.	964	1.214
1961		N.A.	N.A.
1962	449 387	450	1.002
1963		499	1.289
1964	<i>3</i> 70 340	500	1.351
1965		460	1.352
1966	350 360	473	1.351
1967	331	460	1.277
1968	317	451	1.362
1969	299	440	1.388
1970	263	3 97	1.327
1971	268	342	1.300
1972	250	342	1.276
1973	250	35 0	1.400
1974	234	310	1.240
1975	235	300	1.282
1976	244	310	1.319
1977	•	281	1.151
1978	240 260	375	1 560
1979		310	1.192
40 <i>N</i>	210	300	1.428 FEB 29

FEB 29 1980 OIL CON. COM. OIL DIST. 3

FEB 29 1980 OIL CON. COM. OIL CON. T. 3

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. 6839
	Order No. <u>R-6311</u>
APPLICATION OF KIMBELL OIL	COMPANY
FOR DOWNHOLE COMMINGLING,	RIO ARRIBA
COUNTY, NEW MEXICO.	lou
ORDER OF	THE DIVISION
BY THE DIVISION:	
This cause came on for h	earing at 9 a.m. on March 26
19_80 , at Santa Fe, New M	Mexico, before Examiner Richard L.
Stamets	
NOW, on thisday	of, 19_80 , the
Division Director, having co	ensidered the testimony, the record,
and the recommendations of t	he Examiner, and being fully
advised in the premises,	
FINDS:	
(1) That due public not	ice having been given as required
by law, the Division has jur	isdiction of this cause and the
subject matter thereof.	
(2) That the applicant,	Kimbell Oil Company , is
the owner and operator of th	-
drilled	tion 26 , Township 25 North
	, Rio Arriba County, New Mexico.
(3) That the applicant	seeks authority to commingle
Otero-Chacra and	Cliffs South Blanco-Pictured/ production
within the wellbore of the a	Contracting the contracting of the contracting of the contracting the contracting of the contracting the contracting of the con

- (4) That from the Otero-Chacra zone, the subject well is acapable of low marginal production only.
- (5) That from the South Blanco-Pictured Cliffs zone, 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 <u>Aztec</u> 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 subject well, percent of the commingled production should be allocated to the Otero-Chacra zone, and percent of the commingled production to the South Blanco-Pictured Cliffs zone.

(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:

to each zone in each of the subject wells.

(1) That the applicant, Kimbell Oil Company , is
hereby authorized to commingle Otero-Chacra and
South Blanco-Pictured Cliffs production within the wellbore of
the Salazar Well No. 4 to be , located in Unit D of
Section 26 , Township 25 North , Range 6 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

(ALTERNATE)

- production shall be allocated to the Otero-Chacra

 zone and percent of the commingled production shall be allocated to the South Blanco-Pictured Cliffs 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.



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 8750*

April 17, 1980

			- No.
		6	
	Re:		
r. Thomas Kellahin		ORDER NO. R-631	<u>, </u>
ellahin & Kellahin			
ttorneys at Law		Applicant:	
anta Fe, New Mexico			
200 207 1104 1101200			
		Kimbell Oil	Company
Dear Sir:			
النوا المناد وفر فراد المارو والمحادث			i awaa aa a
Enclosed herewith are tw			
Division order recently	entered	in the subject ca	ise.
Yours very truly,			
ripurs very cruit,			
I may the	_		
THE TRUMPING			
JOE D. RAMEY			
Director			
of the state of t	-	•	
	e Alim		
•			
JDR/rd			
•		•	
Copy of order also sent	to:		
	.,		
Hobbs OCD X	•		
Artesia OCD X			
Aztec OCD X			
Other			
Uther			

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. 6839 Order No. R-6311

APPLICATION OF KIMBELL OIL 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 March 26, 1980, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 15th day of April, 1980, 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, Kimbell Oil Company, is the owner and operator of the Salazar Well No. 4 to be drilled in Unit D of Section 26, Township 25 North, Range 6 West, NMPM, Rio Arriba county, New Mexico.
- (3) That the applicant seeks authority to commingle Otero-Chacra and South Blanco-Pictured Cliffs production within the wellbore of the above-described well.
- (4) That from the Otero-Chacra zone, the subject well is expected to be capable of low marginal production only.
- (5) That from the South Blanco-Pictured Cliffs zone, the subject well is expected to be capable of low marginal production only.

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- (6) That the proposed commingling may result in the recovery of additional hydrogarbons 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 commingled zones in the wells, applicant should consult with the supervisor of the Axtec district office of the Division and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Kimbell Oil Company, is hereby authorized to commingle Otero-Chacra and South Blanco-Pictured Cliffs production within the wellbore of the Salazar Well No. 4 to be located in Unit D of Section 26, Township 25 North, Range 6 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 some 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.

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

STATE OF NEW MEXICO OIL COMBERVATION DIVISION

JOE D. RAMEY Director

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