CASE 5033: Appli. of CONTINENTAL FOR SPECIAL GOR LIMIT OR IN THE ALTERNATIVE - LEASE CASINGHEAD GAS ALLOWABLE, LEA COUNTY.

 $\sim L_{\odot}$

Order 174 Order 174 Order 100 Res No Res 39.5

1.18

CASE No. 5035 Application, Transcripts, Small EKhibts

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico August 7, 1974

EXAMINER HEARING

IN THE MATTER OF:

Case No. 5033 being) reopened pursuant to the) provisions of Order No.) R-4539-A, Bell Lake-) Bone Spring Pool, Lea) County, New Mexico.)

Case No. 5033

Page.....1

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil Conservation Commission:

For the Applicant:

Thomas Derryberry Legal Counsel for the Commission State Land Office Building Santa Fe, New Mexico

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

THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) 982-0386

Page	.2	

Page

Admitted

INDEX

Victor T. Lyon

Direct Examination by Mr. Kellahin	~	3
Cross Examination by Mr. Nutter		9
 Witness Excused		11

EXCHIBITS

Applicant's Exhibits Number One through Three 9

ಷ್ಟುಗಳುತ್ತು.

THE NYE REPORTING SERVICE STATE-WIDE GEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) 982-0386

energradical eres

MR. NUTTER: Call Case Number 5033.

MR. DERRYBERRY: Case Number 5033, in the matter of Case Number 5033 being reopened pursuant to the provisions of Order Number R-4539-A, which order established a special gas-oil ratio limitation of five thousand to one for the Bell Lake-Bone Spring Pool, Lea County, New Mexico.

Page

MR. KELLAHIN: Tom Kellahin, Kellahin and Fox, Santa Fe, New Mexico, appearing on behalf of the applicant, Continental Oil Company. I have one witness to be sworn.

(THEREUPON, the witness was sworn.)

VICTOR T. LYON

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q. Would you please state your name and by whom you are employed and in what capacity?

A. My name is Victor T. Lyon and I am employed by
 Continental Oil Company as Conservation Coordinator in
 the Hobbs Division office located in Hobbs, New Mexico.
 Q. Have you previously testified before this
 Commission or one of its Hearing Examiners and had your
 qualifications as an expert witness accepted and made a

THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) 982-0386

CASE 5033

Page.....4

LYON-DIRECT

matter of record?

A. Yes, sir, I have.

Q Did you appear and testify in behalf of the applicant, Continental Oil Company, in the original Case 5053? A. Yes, sir, I did.

Q And are you familiar with the facts surrounding the reopened applicaion by Continental?

A. Yes, sir.

MR. KELLAHIN: If the Examiner please, are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

(Mr. Kellahin continuing.) Mr. Lyon, would you please state briefly what Continental Oil Company's position is as regards this application?

A. Yes, sir. Case Number 5033 is the application of the Continental Oil Company for special gas-oil ratio limits for the Bell Lake-Bone Spring Pool.

This original hearing was held approximately one year ago and resulted in the issuance of Order Number R-4539-A, which granted the special gas-oil ratio for a one year period of five thousand cubic feet per barrel.

At the time of the original application, Continental Oil Company had installed compression facilities

> THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 37501-TEL. (505) 902-0386

LYON-DIRECT

CASE 5033

to boost the casing head gas production into the sales lines of Trans Western Pipeline Company.

The increased gas-oil ratio limit was requested so that we could provide an adequate load for both of these compressors which were installed at that time.

One of the compressors had been rented and has now been released. The producing rate of gas has declined from approximately one and a quarter million cubic feet per day to about half that volume. The one remaining compressor is handling this load.

We are experiencing some difficulty in keeping the compressor operating because of the intermittent type of production that we are experiencing from Well No. 11. It heads and between heads the compressor goes down because of low load.

But we are producing as much of the gas as we possibly can into Trans Western's lines. Now, at the time of our hearing a year ago, we were in the process of drilling No. 13-Y in which we were planning to take a bottom hole sample so that we would have an analysis of the reservoir characteristics.

We were unable to complete that well as a commercial producer and consequently we were unable to

> THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 8750 1 TEL. (505) 982-0386

LYON-DIRECT

CASE 5033

Page.....6 secure this sample. Therefore our plans to produce that sample at this hearing will not be carried out.

Q Would you please refer to what has been marked for identification as Applicant's Exhibit Number One and identify it?

A. Exhibit Number One is a plat showing the present participating area by the dotted lines for the Bone Spring formation.

The dashed line covering or outlining the larger area is the Devonian participating area.

The Bone Spring wells are shown circled and these are the same wells which were producing at the time of the hearing a year ago.

Q Please refer to what has been marked as Exhibit Number Two and identify it?

A. Exhibit Number Two is a tabulation of well test data taken at various times during the past year on the three producing wells in the reservoir.

You will note that the production is declining from a high in August of '73, of four hundred and thirty-one harrels per day with a gas-oil ratio of two thousand nine hundred and forty to a low in July of 1974 of one hundred and fifty-five barrels per day with a gas-oil ratio of

> THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) 982-0386

CASE 5033

Page.....7

LYON-DIRECT

three thousand seven hundred and ninety-four.

You will note that the gas-oil ratios are reasonably consistent in there and range approximately from three thousand to four thousand cubic feet per barrel.

Q What conclusions can you draw from this data? A. Well, my conclusion is that the reservoir, gasoil ratio, solution gas-oil ratio, is in that range of three thousand to four thousand feet per cubic barrel. Q And this would be in excess of statewide two thousand to one GOR limitation?

A. Yes, sir.

()

Q Please refer to what has been marked as Exhibit Number Three and identify it?

A. Exhibit Number Three is a recap of production by month from each of the three wells and a total production for the pool.

We have accumulative production as of January the first, 1973, and then monthly for each of the succeeding months through June of 1974.

The total production from this pool as of July First, 1974, with three hundred and nine thousand eight hundred and thirty-two barrels. You can see again that the production is declining.

> THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) 902-0386

LYON-DIRECT

CASE 5033

Page.....8

Q In your opinion, Mr. Lyon, should the Commission seek to make permanent the special gas-oil limitation ratio of five thousand to one? Do you see the impairment of any producing well?

A. Well, the gas-oil ratio limit statewide of two thousand cubic feet per barrel would not at this time impair the producing rates of any of the wells.

I must admit that we do not have any present plans to drill additional wells.

Th completion of Well No. 13-Y in the northeast quarter of Section 6 was of course a considerable disappointment. We have drilled an additional well, the W.A. Mattox 19, in Section 19, actually it is in unit D of Section 19, 23 South, 34 East, which is approximately two and half miles north of the current Bone Spring development.

We are evaluating the Bone Spring reservoir to see whether or not additional drilling is justified. So I certainly cannot rule out the possibility of additional completions nor can I at this time rule out the possibility that some of the decline experienced from these wells is mechanical rather than reservoir-caused.

So, whereas a return to the statewide gas-oil ratio of two thousand to one would not be an impairment at

THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE. NEW MEXICO 87501 TEL. (505) 902-0386 LYON-DIRECT -CROSS

CASE 5033 Page 9

this time, next month it may be.

Since the wells have demonstrated a consistent gas-oil ratio above the two thousand to one limit and since this appears to indicate that the reservoir, gas-oil ratio, is greater than two thousand, I think it is appropriate to continue and to make permanent the special gas-oil ratio of five thousand cubic feet per barrel.

It is my recommendation that the Commission do so. Q. Were Exhibits One, Two and Three either prepared by you or compiled under your supervision?

A. Yes, sir, they were.

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

MR. NUTTER: Continental Exhibits One through Three will be admitted in evidence.

(THEREUPON, Applicant's Exhibits Numbers

One, Two and Three were admitted into

evidence.)

MR. KELLAHIN: That concludes our direct examina-

tion.

CROSS EXAMINATION

BY MR. NUTTER:

Q. Mr. Lyon, was the No. 3 well the first Bone Spring

THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 07501 TEL. (505) 982-0386

CASE 5033

LYON-CROSS

Page 10

well completed here?

A. Yes.

Q What were the original conditions in it as far as the GOR is concerned when it was a new well?

A. I don't have that information with me. It was completed some eighteen or nineteen years ago and has been a marginal producer all of this time.

As a matter of fact, our original evaluation of that well was that it probably wouldn't last very long. But for a number of years it seemed to get stronger and stronger and it has been a difficult well to produce. We couldn't pump it effectively and it wouldn't flow effectively.

But because of the fact that it maintained a rather steady producing rate it led us to do this additional development.

Q I was wondering, because your GOR on that well has almost doubled in the last year but it was relatively low in 1973, being only nineteen thirty.

A. Yes, sir, that is true.

Q And you never have had a chance to get a reservoir sample here or a recombined sample under virgin conditions so you don't really know what the solution GOR is or was?

> THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) 982-0385

LYON-CROSS

CASE 5033

Page. 11

A. Yes, sir, that is right. And the production from Well No. 3 has been very erratic over the years. It does not flow continuously. It flows by heads.

If you take a test at a time when the well is heading it will demonstrate a lower GOR than if you start your test in the middle and the tail end of a flow.

So, the gas-oil ratio demonstrated in our tests are not really that consistent.

Q It just depends on when you took the test? A. That's right.

MR. NUTTER: Are there any further questions of Mr. Lyon? You may be excused.

(THEREUPON, the witness was excused.)

Do you have anything further, Mr. Kellahin?

MR. KELLAHIN: No, sir.

MR. NUTTER: Does anyone else have anything they wish to offer in Case Number 5033?

We will take the case under advisement.

THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) 982-0386 STATE OF NEW MEXICO))ss. COUNTY OF SANTA FE)

I, SIDNEY F. MORRISH, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Errich MORRISH

Page.....12

SIDNEY F. MORRIS Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of, Case No 5085 19 74 heard by me on,

New Mexico Oil Conservation Commission

THE NYE REPORTING SERVICE STATE-WIDE DEPOSITION NOTARIES 225 JOHNSON STREET SANTA FE, NEW MEXICO 87501 TEL. (505) \$82-0386



PAGE 2

		PAGE 3
÷.		1 MR. STAMETS: We will call next Case 5033:
		² Application of Continental Oil Company for a special gas-oil
· _		³ ratio limit, or in the alternative, a lease casinghead gas
		4 allowable, Lea County, New Mexico.
		MR. KELLAHIN: Tom Kellahin, of Kellahin and Fox,
ß	ł	Santa Fe, appearing on behalf of the Applicant, Continental
associates		Oil Company. I have one witness to be sworn.
SSO(8	
& 3 <u>5</u>	9	incle other appearances in this
	10	(No response)
me	11	
ley,	12	
dearnley, meier		<u>V. T. LYON,</u>
	13	was called as a witness, and after being duly sworn according
N N N N N N N N N N N N N N N N N N N	14	to law, testified as follows:
ค. 2 2 C ศ	15	DIRECT EXAMINATION
9 C 0	16	BY MR. KELLAHIN:
1● A F 8 U 0	17	Q Would you please state your name, by whom you are employed,
243-6691 AST • AL	18	and in what capacity?
BLDG. A	19	A V. T. Lyon, and I am employed by Continental Oil Company
002 A N K	20	as a conservation coordinator in the Hobbs Division
P.0. 80X	21	Office, located in Hobbs, New Mexico.
AS BLDG. P.	22	Q Mr. Lyon, have you previously testified before the
IMMS BL	23	Commission or one of its hearing examiners and had your
209 \$IMMS 1216 F	24	qualifications as an expert made a matter of record?
	25	A Yes, I have.

			PAGE 4
	- 1		MR. KELLAHIN: Are the witness's qualifications
	2	accer	ptable?
•	3	- 	MR. STAMETS: They are.
	4	Q	(By Mr. Kellahin) Will you please state briefly what
	5		Continental is seeking by this application?
	6	A	This is the application of Continental for an amendment
	7		to Order Number R-4539 to change the limiting gas-oil
	8		ratio for the Bell Lake-Bone Spring Pool to 5,000 cubic
	9		feet per barrel, or in the alternative, for a lease
	10		casinghead gas allowable.
	11	Q	Will you please refer to what has been marked as
103	12	je fa je so	Applicant's Exhibit One, and explain what information it
NEW MEXICO 87103 MEXICO 87108	13		contains?
EX MEX EX CO	14	A	Exhibit One is a plat showing the area under discussion.
Е R Q L F. Z 20 F. N E W X X	15		The dotted line represents the participating area, the
LOUERO CROUE.	- 16		Bell Lake-Bone Spring participating area.
avouekou auouekou	17		The wells which are circled in red are wells which
Р.О. ВОХ 10920РИОИЕ 243-66910 TIONAL BANK BLDG. EASTOALB	18		produce from the Bell Lake-Bone Spring Pool. The
HONE 2	19		participating area is shown to consist of the South
X 1092 PHONE BANK BLDG.	20		half of Section 31, the Northwest quarter of Section 6,
O. BOX DNAL B	21		and this area crosses the common township line between
BLDG P. 9	22		Township 23 South and Township 24 South in Range 34
	23		East, Lea County.
209 SIMMS 1216 F	24	Q	Please locate the wells How are the wells in question
	25		identified?

۱

			PAGE 5
	1	A	Well No. 3 is located in Unit C of Section 6, 24, 34.
	2		Well 11 is located in Unit N, and Well No. 12 is located
	3		in Unit J, both in Section 31, Township 23 South, Range
	4		34 East.
	5	Q	Are there any other wells in the area?
	6	A	There is one additional well which has been drilled for
	7		completion in the Bone Springs Pool, which is 13 "Y"
. 7	8		located in Unit H of Section 6. This well was
	9	-	unsuccessful for completion as a commercial producer,
	10		and it has been plugged and abandoned.
	11	Q	Will you identify Exhibit Two?
63	12	A	Exhibit Two is a list of the most recent tests on the
CO 871	⁵ 13		three wells. Well No. 3 produced 25 barrels of oil
W MEXI	0 x 14		and 8 barrels of water with GOR of 4,560. No. 1 is
QUERQUE, NEW MEXICO 87103 Roue, New Mexico 87103	ษั ≱ 15		163 oil, 56 water. No. 3, 11 oil, 42 water.
	10	Q	What is the current GOR ratio for the pool?
ALBUG	anon 17	A	The current rules provide a limiting GOR of 2,000 cubic
3-6691	יאר 18		feet per barrel.
209 SIMMS BLDG'. P.O. BOX 1092 PHONE 243-6691 ALBU 1216 F'RST NATIONAL BANK BLDG. EAST ALBUQUE	ซั ชั 19	Q	All these wells are in excess of the current GOR ratio?
092 • PH	а х 20	A	Yes, but they do not produce in excess of the casinghead
E O X	≝ 1, 21		gas limit. Only No. 12 does, Well No. 3 here, and it
;.е Р.О.	01 F v 22		produces 25 oil, 8 water, 114 gas, with a GOR of 4,560.
s BLDC	158 23	Q	How about Well No. 11?
MMIS 60	24 24	A	Sixty-three oil, 56 water, 316 gas, with a GOR of 5,000
Ň	25		to 1. Well No. 12 produces 411 oil, 42 water, 1,200
		b	

dearnley, meier & associates 📀

		PAGE 6
1		gas, with a GOR of 2,920.
2		The only market we have for casinghead gas is
3		into Transwestern's gathering system, which operates
4		at a pressure of between 900 to 1,000 pounds per square
5		inch, and the separating pressure on our producing
б		wells is between 45 and 50 pounds per square inch.
7		Therefore, it is necessary for us to install and operate
8		compressors in order to put this gas into the gas
9		gathering system.
10	Q	Are these compressors currently being operated?
11	A	Yes, they are. We have two compressors and a tank
12		battery; and one of the compressors is a rental unit,
13		which we have rented on a temporary basis in order to
14		avoid having to shut in the wells. When our sixty-day
15		notice for flare authorization expired and we completed
16		Well No. 12, and with the gathering of additional
17		data, we have found it necessary to continue that unit
18		in operation. We also have operating a compressor
19		which we have on a rental purchase plan. The rental
20		unit has a capacity of about 950 MCF per day, which
21		has approximately a 1,000 pound discharge. The rental
22		purchase unit has a capacity of 1,200 MCF per day,
23		with the same pressure. The rental unit has been
24		in continuous use for \$7,500 per month in operating cost.
25		The other unit is considerably less, but we operate

,

200 SIMMS BLDG. P.O. BOX 1002 - PHONE 243-0001 - ALBUQUERQUE, NEW MEXICO 87103 1210 FIRST NATIONAL BANK BLDG. EAST - ALBUQUERQUE, NEW MEXICO 87108

		PAGE 7
	1	the rental purchase unit and Production Operators Inc.
	2	operates the rental unit.
	3	We are also getting that unit operated and
	4	maintained by those people for our rental charge.
	5 Q	What is the necessity for the second compressor?
		Well, obviously if you look at Exhibit Two, the 900 MCF
ites	6 A 7	compressor doesn't have the capacity to handle the gas.
ocia	8	But in addition, the gas is not produced at a steady
dearnley, meier & associates	9	rate, and there is considerable surging, so we need
er 8	10	this capacity.
mei	11	At the present time, we are able to handle the
ey, i		gas without any flaring, at least during the time we
arnl	12	have people in the field during the day, we have seen
de	13 13 13 13	no flaring. However, if we have to operate at Well
	ΣΟ 3× ωω 2×	No. 12 on the GOR limit which is presently provided by
	.≩ 15 ม⊎ม 15 ⊃z ช⊎	the present rules, we can't justify keeping both
	⁴ ⊌∩	compressors there, and consequently, because of the
-, .		surging nature of production, we would have to flare
N .	BLOG. EAST	gas just by the simple limitation of our eclipment.
		Q Will approval of this application constitute waste in
		any way?
		A No, I think it will prevent waste in that we will not
	• Z 22	have flare gas if this is approved.
	SIMMS SIMMS SISTER SIST	will approval of this application impair the correlative
	0 24 0 N	rights of others?
	25	

			PAGE 8
n n Star		1	A No. All of the wells in the pool are included within
•	•. •	2	the participating unit, and therefore all the interests
		3	are exactly identical, and I see no possibility of
		4	any impairment of correlative rights at all.
		5	MR. KELLAHIN: Mr. Examiner, we move for the
S		б	introduction of Applicant's Exhibits One and Two.
iate		7	MR. STAMETS: Without objection, they will be
ssoc		8	admitted.
& g		·~9	MR. KELLAHIN: That concludes our direct examination.
dearnley, meier & associates	6	10	(Whereupon Applicant's Exhibits Ora and Two were
/ m(11	admitted in evidence.)
nle)	80	< 12	★ ★ / ★ ★ And
dear	1CO 871 17108	13	CROSS EXAMINATION
	K MEX XICO 8	14	BY MR. STAMETS:
د 	UE.NE NE¥ME	15	Q Mr. Lyon, what producing mechanism is the Bone Spring
	BUQUERQ Verque,	16	interval here?
	• ∧ L. BU BUQUE	17	A So far as we know, we have a depletion type drive here.
·	43-6601 157 • AL	18	We had intended to collect a sample under initial
	• PHONE 241 BLDG. EAS	19	conditions in Well No. 13 upon its completion, but
-	1092 A N K	20	we were unsuccessful in making that completion, and
· ·	P.O. BOX	21	consequently, we do not have representative bottom hole
	ż	22	pressure or a combined example in order to evaluate
•	SIMMS BLDG 1216 FIRST	23	the characteristic.
	209 SIM 121	24	We have no information that we have gathered which
		25	would indicate that there would be any detrimental

	PAGE 9	
	are producing,	
1	effect to the reservoir by the rate we are producing,	
2	either oil or gas. Q Has there been a drop-off in production from both oil	
	Table No. 3 and 11?	-
	sc in production to being	teen
	has been producting	ver
tes	her been producing at unout	
associates	the have attempted to	
assi	1 apparently have not 200	
91 & 8	 several times, and apparence; Number 3 has declined from its initial producing rate 	
, mei	I mean No. 11 has. I What is the cause for accumulation here? Is it structure IN What is the cause for accumulation here?	
dearnley, meier	13 or a stratographic trap, or what?	
ли 2017 2017 2017 2017 2017 2017 2017 2017	our development has been more or less on	wful
е в С С С С С С С С С С С С С С С С С С	the crest of the and the	•
4 年 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日	that We don to man	nate?
243-0001 • A 2.831 • A L B L	17 lot about that trap that we have a lot about that trap that we have a lot about that trap that we have a lot about the sand interval or carbon 18 Q Is this production from the sand interval or carbon	
بة 22 14 12	19 A It's lime. 19 A Do you know what the permeability and porosities a 20 Q Do you know what the permeability mas introduced	re?
	mbis information was	
ب م م م	fi for field rules.	
•	three percent, and the F	
ם ר מי,	25 But the No. 12 Hell all	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 is comparably low. But the have encountered a fracture system which provides	3 very
·	25 have encountered a 11	

:

			PAGE 10
	1		good permeability to that well.
	2	Q	Do you recall whether No. 11's potential was on the
	3		same order as No. 12's?
	4	A	No, it was something on the order of 100, 115 barrels
5	5		a day initially.
	6	Q	Number 12 is a real bonanza as compared to the rest of
	7	-	them?
2	8	A ·	It really is a fine well.
	9	Q	Mr. Lyon, in your opinion, do you think that the higher
	10		gas-oil ratio limit in here would allow this gas to
	11		bypass oil and leave oil in the reservoir to any degree?
ERQUE, NEW MEXICO 87108	12	A	I don't think so. I don't believe that the reservoir
	13		is rate sensitive.
	14	Q	How would you determine that it was after the higher
N N N N N N N N	15	1 - 1	GOR went into effect? What would be the things you
FRQUE.	16		would be looking for to determine whether this was
2	17	•	rate sensitive?
EAST+ALBUQ	18	A	Well, really until we get a good bottom hole sample
BLOC. E/	19		on the thing and are able to evaluate the crude
X Z Z	20		characteristics a little, I would not know how we would
Ø	. 21	au	go about it. We would need to observe the producing
1216 FIRST NATIONAL	22		gas-oil ratios and pressure which we will do, but an
IG FIRS'	23		awful lot depends on that sample.
121	24	Q	How old is Well No. 11?
	25	A	Number 11 was completed on the 30th day of November, 1972,

PAGE 10

200 SIMMS BLDG. P.O. BOX 1002 - PHONE 243-0001-ALBUQUERQUE, NEW MEXICO 87103

PAGE 11

a1		
	1 I	believe.
	2 Q F	low about No. 12?
	3 A	Iow about No. 12. I believe that was completed in February of 1973. I can
* -		the exact dates if you want them.
	5 Q	That's close enought
		That's not necessary. The have any indication at this point that you have completely
tes	6	and anyoir?
ciat	7	long for additional development,
associates	8 A	the next will will be all
s S	9	the set will be within the next lew monent
eier	10	I think It will all the state one, perhaps two, more wells that we have at least one, perhaps two, more wells
ľ.	11	this war.
dearnley, meier &	12 50 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	budgeted for this year. If you are successful in another completion, you would
dear	13 Q	If you are successful in be able to obtain the required sample?
		be able to obtain the log Yes. I believe that the order, if I'm not mistaken,
	z x .x 15 A	Yes. I believe that the up provided temporary pool rules, and we would certainly provided temporary pool rules, and we would certainly
с. С	ала 16 16	do our best to get enough information to bring to the
		do our best to get enough fine and are reviewed to Commission at the time those rules are reviewed to
	E 2435-0601 • A L	Commission at the time those resent rules as we are
	а ч ч ч ч ч ч ч ч ч ч ч ч ч ч ч ч ч ч ч	Commission at the time justify either continuing the present rules as we are
		justify either constants proposing them to be amended or to offer rules which
	чина 19 19 19 19 19 20 19 20 20 19 20 20 20 20 20 20 20 20 20 20 20 20 20	would be consistent with the data we have by that time.
	o o	Would be consistent was Well been increasing, or was Has the GOR on the No. 12 Well been increasing, or was
		that substantially the completion GOR?
		tentt know. We had been measuring st
	ຄູ້ 24	A I really don't know the test didn't seem to make sense to us, there, but the test didn't seem to make sense to us,

 $\langle \rangle$

		PAGE 12
	1	and so we went down and looked at the installation,
s.	2	and we found we were not actually measuring necessarily
	3.	the gas that was produced from the well on the test,
	4	because the hook-up was allowing gas to bypass, and so
	5	when we eliminated this problem, we began to get good
S	• 6	measurement of gas production by each well through the
associates	7	test system, and this has only been within about the
SOC	° 8	last sixty days. So I can't tell you really what the
s as	9	initial ratio was.
ier	10	Q Would it appear at the present time that a limiting
me	. 11	GOR of 3,000 to one would be sufficient to overcome
nley.	12	your problem if the ratio on No. 12 is not increasing?
dearnley, meier &	13	A True. We would like enough flexibility so if it does
х ° ы о	14	increase either by increasing gas or by reduction in
Х Х Х Х Х Х Х Х Х Ш Ш Х С Х Х Ц Х С Х Х Х Ц Х С Х Х Х Х Х Х Х	15	liquid, that we wouldn't have to come to the Commission
ער מיש מיש מיש מיש מיש מיש	16	asking for additional relief.
6 ▲ 1 6 0 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	17	Q Do you recall offhand at what date the re-hearing will
E 243-6691e E 253-6691e	18	be on the temporary rules provided by Order R-4539?
N E 243 G. EAS	19	A I'm sorry, but I do not.
02 • P M O N M F B L D C .	20	Q If this GOR limit was adopted on a temporary basis,
BOX 1092 Al Bank	21	it could be reasonably re-heard at the same time?
6.0 BO	22	A Yes.
BLD R\$T	23	Q If it is not too soon, at least.
	23 24	A Yes.
. 00 7		Q If there is any difficulty from that, I think it would
	25	

PAGE

		~	13		
	1		be wise to advise the Commission at an early date after		
	2		this hearing.		
	3	A	Yes.		
	4	Q	Well No. 4 that you have on here is a producing well,		
	5		is that right?		
	6	A	Well No. 4 was drilled and completed in the Devonian,		
	7		and during the latter part of June was plugged back		
	8		and re-completed in the Atoca.		
	9	Q	Is that where your connection to Transwestern is?		
	10	А	You mean at that well?		
103	11	Q	Right.		
	12	A	No. Transwestern's gathering system goes on by No.4		
NEW MEXICO 87103 MEXICO 87108	13		and up to No. 7, which is six miles to the north. I'm		
周 来 と て い ろ を と	14	-	not sure where the tie-in is, but this is a separate		
	15	l	line that enters the gathering line, it doesn't tie into		
LBUQUERQUE. Querque. New	16		the No. 4 connection.		
	17	Q	So you do have several miles of line that this gas goes		
43-6691 157 - AL	18		through before it enters Transwestern's line?		
●PHONE 243-6691●A BLOG. EAST •ALBU	19	A	Oh, no.		
1092 . P	$\begin{bmatrix} 20 \\ 2 \end{bmatrix}$ Q It enters in the immediate vicinity of the Bell Lab				
6. • P.O. BOX 1092 NATIONAL BANK	21	A	Yes.		
06.0 P.C	22		MR. STAMETS: Are there any other questions of this		
SIMMS BLDG.	23	with	ess?		
209 SIM	24	 24 (No response) 25 THE WITNESS: Just a minute, Mr. Examiner. There 			
	25				

	PAGE 14						
، [.	s one thing I would like to request. We would like the						
1 is	s one thing I would land of any						
2 o:	rder to be retroactive at least to July 1st, if this is						
3 p	possible, because No. 12, according to the reported production						
4 w	which we have reported to the best of our ability, will be						
5 0	overproduced perhaps to the extent that it might have to						
6 b							
7	MR. STAMETS: Is there anything further in this						
8 0	case?						
9	(No response)						
	MR. STAMETS: The witness may be excused.						
10	(Witness excused.)						
11	MR. STAMETS: Case 5033 will be taken under						
12	MR. STAMETS: Case 5055 "222"						
13	advisement.						
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

1 STATE OF NEW MEXICO) 2 85 COUNTY OF BERNALILLO) 3 4 I, RICHARD E. McCORMICK, a Certified Shorthand 5 Reporter, in and for the County of Bernalillo, State of 6 New Mexico, do hereby certify that the foregoing and attached 7 Transcript of Hearing before the New Mexico Oil Conservation 8 Commission was reported by me; and that the same is a true 9 and correct record of the said proceedings to the best of 10 my knowledge, skill and ability. 11 12 209 SIMMS BLDG. & P.O. ROX 1092 & PHONE 243-6691 & ALBUQUERQUE. NEW MEXICO 87103 1216 First National Bank Bldg. East albuquerque. New Mexico 87108 CERTIFIED SHORTHAND REPORTER 13 14 15 16 17 18 19 20 21 I do hereby certify that the foregoing : a complete record of 03³ 22 73 23 ticharol 24 New 25

PAGE 15





OIL CONSERVATION COMMISSION

I. R. TRUJILLO CHAIRMAN

STATE OF NEW MEXICO P. O. BOX 2988 - SANTA FE 87501

August 14, 1973

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

Mr. Tom Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico Re: CASE NO. 5033 ORDER NO. R-4539-A

Applicant:

Continental Oil Company

Dear Sir:

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

Very truly yours,

R. Forte

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Copy of order also sent to:

1-25-74

Hobbs OCC	x
Artesia OCC	
Aztec OCC	
	And and a second se

Other

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 5033 Order No. R-4539-A

APPLICATION OF CONTINENTAL OIL COMPANY FOR AMENDMENT TO THE SPECIAL POOL RULES FOR THE BELL LAKE-BONE SPRING POOL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 25, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 13th day of August, 1973, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.

(2) That by Order No. R-4539 special pool rules were established for the Bell Lake-Bone Springs Pool, Lea County, New Mexico.

(3) That the applicant, Continental Oil Company, seeks the amendment of the special pool rules for the Bell Lake-Bone Springs Pool to provide for a limiting gas-oil ratio of 5,000 cubic feet of gas per barrel of oil produced.

(4) That the reservoir characteristics of the subject pool presently available justify the temporary establishment of a 5,000 to 1 gas oil ratio limit for said pool.

(5) That this case should be reopened at an examiner hearing in August, 1974, at which time the operators in the subject rool should appear and show cause why the limiting gas-oil ratio in the Bell Lake-Bone Springs Pool should not revert to 2,000 to 1.

(6) That the effective date of this order should be August 1, 1973.

-2-Case No. 5033 Order No. R-4539-A

SEAL

dr/

IT IS THEREFORE ORDERED:

(1) That effective August 1, 1973, Rule 7 of the special pool rules of the Bell Lake-Bone Springs Pool is hereby revised to read in its entirety as follows:

RULE 7. That the limiting gas-oil ratio for the Bell Lake-Bone Spring Pool shall be 5,000 cubic feet of gas per barrel of oil produced.

(2) That this case shall be reopened at an examiner hearing in August, 1974, at which time the operators in the subject pool may appear and show cause why the gas-oil ratio in the Bell Lake-Bone Spring Pool should not revert to 2,000 to 1.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman

TO Member

A. L. PORTER, Jr., Member & Secretary



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

September 3, 1974

I. R. TRUJILÉO CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST A. L. PORTER, JR, SECRETARY - DIRECTOR

Mr. Tom Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico

Re:	CASE NO.	5033
	ORDER NO.	R-4539-B

Continental Oil Company

Applicant:

Dear Sir:

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

Very truly yours,

L. Vorter, C i.C.

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC	X
Artesia OCC	
Aztec OCC	

Other

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 5033 Order No. R-4539-B

IN THE MATTER OF CASE NO. 5033 BEING REOPENED PURSUANT TO THE PROVISIONS OF ORDER NO. R-4539-A, WHICH ORDER ESTABLISHED A SPECIAL GAS OIL RATIO LIMITATION OF 5000 TO 1 FOR THE BELL LAKE-BONE SPRING POOL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 7, 1974, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>3rd</u> day of September, 1974, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.

(2) That by Order No. R-4539, Special Pool Rules were established for the Bell Lake Bone-Springs Pool, Lea County, New Mexico.

(3) That by Order No. R-4539-A, said special pool rules were amended to provide for a special gas oil ratio limitation of 5,000 to 1.

(4) That pursuant to the provisions of Order No. R-4539-A this case was reopened to allow operators in the subject pool to appear and show cause why the limiting gas-oil ratio in the Bell Lake-Bone Springs Pool should not revert to 2,000 to 1.

(5) That reservoir and production data establish that production under the special gas-oil ratio limitation promulgated by Order No. R-4539-A has not caused and will not cause waste.

(6) That the Special Rules and Regulations promulgated by Order No. R-4539 and amended by Order No. R-4539-A have afforded and will afford to the owner of each property in the pool the -2-CASE NO. 5033 Order No. R-4539-B

opportunity to produce his just and equitable share of the gas in the pool.

(7) That Rule 7 of the Special Rules and Regulations for the Bell Lake-Bone Springs Pool as promulgated by Order No. R=4539-A, which rules provided for a special limiting gas-oil ratio for the subject pool of 5,000 to 1, should be made permanent.

IT IS THEREFORE ORDERED:

(1) That Rule 7 of the Special Rules and Regulations of the Bell Lake-Bone Springs Pool as promulgated by Order No. R-4539-A, is hereby made permanent.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

SEAL

jr/

I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member an. A. L. PORTER, Jr., Member & Secretary

Docket No. 22-74

Dockets Nos. 24-74 and 25-74 are tentatively set for hearing on August 21 and September 4. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 7, 1974

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

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

CASE 4749: (Reopened) (Continued from the July 10, 1974, Examiner Hearing)

In the matter of Case No. 4749 being reopened pursuant to the provisions of Order No. R-4338-A, which order continued special rules for the Humble City-Strawn Pool, Lea County, New Mexico. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing.

CASE 4946:

(Reopened) (Continued from the July 10, 1974, Examiner Hearing)

In the matter of Case No. 4946 being reopened pursuant to the provisions of Order No. R-4581, which order established temporary rules for the Crosby-Fusselman Associated Pool, Lea County, New Mexico. All interested parties may appear and show cause why said rules should not be rescinded.

CASE 5282: (Continued from the July 24, 1974, Examiner Hearing)

Application of Union Texas Petroleum Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie-Mattix production in certain of its wells in the Langlie-Jal Unit Area, currently being waterflooded under authority of Commission Order No. R-4051.

CASE 5287:

Application of Mobil Oil Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the N/2 of Section 12, Township 21 South, Range 26 East, adjacent to the Burton Flats-Morrow Gas Pool, Eddy County, New Mexico, to form a standard 320-acre unit to be dedicated to applicant's Federal 12 Com Well No. 1 to be drilled at a previously approved unorthodox location 660 feet from the North and East lines of said Section 12. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
Examiner Hearing - Wednesday - August 7, 1974

Docket No. 22-74

CASE 5288:

Application of Merrion & Bayless for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of hydrocarbon production from the top of the Gallup formation at 5434 feet to the base of the Dakota formation at 6570 feet in its Keeling Federal Well No. 1 located in Unit B of Section 20, Township 25 North, Range 8 West, Dufers Point-Dakota Pool, San Juan County, New Mexico.

CASE 5033: (Reopened)

In the matter of Case No. 5033 being reopened pursuant to the provisions of Order No. R-4539-A, which order established a special gas-oil ratio limitation of 5000 to 1 for the Bell Lake-Bone Spring Pool, Lea County, New Mexico. All interested parties may appear and show cause why said pool should not be produced under the standard 2000 to 1 gas-oil ratio limit.

CASE 5289:

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit LeRoy Sumruld, American Employers Insurance Co., and all other interested parties to appear and show cause why the LeRoy Sumruld South Roberts SWD Well No. 2 located in Unit M of Section 14, Township 9 South, Range 32 East, Lea County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 5290:

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Western Oil Producers, Inc., U.S. Fidelity & Guaranty Co., and all other interested parties to appear and show cause why the Western Oil Producers State A Well No. 1 located in Unit L of Section 34, Township 13 South, Range 33 East, Lea County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

<u>CASE 5291</u>:

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Wil-Mc Oil Corporation, Trinity Universal Insurance Co., and all other interested parties to appear and show cause why the Wil-Mc Oil Corporation New Mexico State Well No. 2 located in Unit K of Section 11, Township 10 South, Range 32 East, Lea County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 5292:

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit El Paso Natural Gas Company, United States Fidelity and Guaranty Co., and all other interested parties to oppear and show cause why each of the following wells should not be plugged and abandoned in accordance with a Commission-approved plugging program:

> EPNG Ludwick Well No. 11, located in Unit B, Section 19, Township 30 North, Range 10 West, San Juan County, New Mexico;

Docket No. 22-74 -3-

Examiner Hearing - Wednesday - August 7, 1974

(Case 5292 continued from Page 2)

EPNG Rincon Unit Well No. 127, located in Unit A, Section 28, Township 27 North, Range 6 West, Rio Arriba County, New Mexico; and

EPNG Warren A Well No. 2, located in Unit A, Section 23, Township 28 North, Range 9 West, San Juan County, New Mexico. Southeastern nomenclature case calling for the creation and extension

CASE 5293:

of certain pools in Chaves, Eddy and Lea Counties, New Mexico. (a) Create a new pool in Eddy County, New Mexico, classified as an oil pool for Delaware production and designated the South Carlsbad-Delaware Pool. Further, to assign approximately 22,270 barrels of

oil discovery allowable to the discovery well, the Hannifin & Cook Merland Well No. 1, located in Unit J of Section 24, Township 22 South, Range 26 East, NMPM. Said well was completed February 26, 1974. The top of the perforations is at 4454 feet. Said pool would comprise:

Section 24: SE/4

(b) Extend the Antelope Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

to include therein:

(d) Extend the East Morton-Wolfcamp Pool in Lea County, New Mexico,

to include therein:

Section 3: NW/4 (e) Extend the Ranger Lake-Bough Pool in Lea County, New Mexico, to

include therein:

TOWNSHIP 12 SOUTH, RANGE 34 EAST, NMPM Section 26: SW/4

Examiner Hearing - Wednesday - August 7, 1974

Docket No. 22-74

(f) Extend the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM Section 32: SE/4

(g) Extend the Tres Papalotes-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 15 SOUTH, RANGE 34 EAST, NMPM Section 5: SE/4

(h) Extend the Vest Ranch-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 30 EAST, NMPM Section 16: SE/4 Section 21: NE/4

Docket No. 18-74

DOCKET: COMMISSION HEARING - TUESDAY - AUGUST 13, 1974

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

ALLOWABLE: (1)

 Consideration of the allowable production of gas from seventeen prorated pools in Lea, Eddy, Roosevelt, and Chaves Counties, New Mexico, for September, 1974;

(2) Consideration of the allowable production of gas from five prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for September, 1974.

CASE 5264 :

Application of El Paso Natural Gas Company for the amendment of Order No. R-1670, Blanco Mesaverde Pool, San Juan and Rio Arriba Counties, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the pool rules promulgated by Order No. R-1670, as amended, for the Blanco Mesaverde Pool in San Juan and Rio Arriba Counties, New Mexico, to authorize the Secretary-Director of the Commission to approve the drilling of a second well on an existing proration unit without notice and hearing, provided that the second well would be drilled in the quarter section of the unit which does not contain a well, and provided further that in calculating the allowable for a proration unit containing two wells, the deliverability of both wells would be combined for determining the unit's "AD Factor", and the unit allowable could be produced from either or both wells. For purposes of balancing underproduction or overproduction, both wells on a proration unit would be considered as one well; for determining whether a unit would be classified marginal or non-marginal, the production from both wells would be compared with the unit's allowable; and for reporting production, the total unit production for the month would be reported as well as the individual well production.

Docket No. 20-73

Dockets Nos. 20-73 and 21-73

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 25, 1973 9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,

STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO The following cases will be heard before Richard L. Stamets, Examiner, or Elvis Λ .

Application of Great Basins Petroleum for a unit agreement, Lea County, Utz, Alternate Examiner:

CASE 5028:

New Mexico. Applicant, in the above-styled cause, seeks approval of the Antebellum Unit Area comprising 3840 acres, more or less, of State and Federal lands in Township 23 South, Range 34 East, Lea County,

CASE 5029:

Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Old Indian Draw Unit Area comprising 3,128 acres, more or less, of Federal and fee lands in Township 22 South, Range 28 East, Eddy County, New Mexico.

CASE 5030:

Application of Yates Drilling Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Artesia Metex Unit Area comprising 2,000 acres, more or less, of State lands in Township 18 South, Ranges 27 and 28 East, Eddy County,

CASE 5031:

Application of Yates Drilling Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Artesia Metex Unit Area by the injection of water into the Grayburg Formation through 14 wells located in Sections 24, 25, 26, 35, and 36 of Township 18 South, Renze 27 Points and Sections 10 and 20 of Township 18 South Range 27 East, and Sections 19 and 30 of Township 18 South, Range 28

East, Eddy County, New Mexico.

Applicant further seeks an administrative procedure whereby the locations of said wells can be changed without further notice and hearing. Application of Anadarko Production Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks

authority to institute a waterflood project in its Burnham GSA Unit Area by the injection of water into the Grayburg-San Andres formation

CASE 5032:



Lake Pool, Eddy County, New Mexico. Application of Continental Cil Company for a special gas-oil ratio limit or in the alternative, a lease casinghead gas allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the special pool rules for the Bell Lake-Bone Spring Pool to provide a gas-oil ratio limit of 5000 to 1 or in the alternative to provide for lease casinghead gas allowable in said pool.

Examiner Hearing - Wednesday - July 25, 1973

CASE 5034:

Docket No. 20-73

Application of Mark Production Company for special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Red Lake-Pennsylvanian Pool, Eddy County, New Mexico, including a provision for 320-acre drilling and proration units. In the absence of objection, this pool will be placed on 320-acre spacing rather than the present 160-acre

CASE 5035:

Application of Texaco Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formation in the open-hole interval from 3373 feet to 3731 feet in its B. V. Lynch "A" Fed Well No. 1 and from 3712 feet to 3734 feet in its Well No, 10 located in Units J and C, respectively, Section 34, Township 20 South, Range 34 East, Lynch Yates-Seven Rivers Pool, Lea County, New

CASE 5036:

Application of The Wil-Mc Oil Corporation for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the San Andres formation

CASE 5037:

in the perforated interval from 4208 feet to 4282 feet in its Champlin State Well No. 1 located in Unit M of Section 3, Township 8 South, Range 33 East, Chaveroo-San Andres Pool, Chaves County, New Mexico.

Application of David Fasken for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying Section 31, Township 20 South, Range 25 East, Indian Basin-Morrow Gas Pool, Eddy County, New Mexico, to be

dedicated to a well to be drilled in Unit J of said Section 31. to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and up to 200 percent charge for risk

CASE 5038:

Application of Twinlakes Oil Company for a dual completion and salt Water disposal exception, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its O'Brien "C" Well No. 3 located in Unit K of Section 1, Township 9 South, Range 28 East, Chaves County, New Mexico, as a dual completion (tubingless) to produce oil from the Twin Lakes-San Andres Pool and gas from an undesignated Cisco gas pool through parallel strings of 2 7/8" casing cemented in a common wellbore. Said well was formerly dually completed for San Andres production and Devonian salt water disposal pursuant to Order No. R-4497. Applicant further seeks the amendment of Order No. R-3636 which authorized, as an exception to Order R-3221, the disposal of Devonian and San Andres water production in unlined surface pits; appli-Cant seeks authority to also dispose of water produced from the aforesaid Cisco gas pool in said pits.

Examiner Hearing - Wednesday - July 25, 1973

Docket No. 20-73 -3-

CASE 5039:

Southeastern nomenclature case calling for an order for the abolishment and extension of certain pools in Lea County, New Mexico.

(a) Abolish the East Brunson-Granite Wash Pool in Lea County, New Mexico, described as:

```
TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 13: W/2
Section 24: W/2 and SE/4
Section 25: NW/4
TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM
```

Section 19: SW/4

(b) Extend the Wantz-Granite Wash Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 13: W/2 Section 24: W/2 and SE/4 Section 25: NW/4 TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM Section 19: SW/4

(c) Abolish the North Lynch Yates-Seven Rivers Pool in Lea County, New Mexico, described as:

> TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM Section 17: SW/4 Section 18: E/2 Section 19: NE/4 Section 20: NW/4

(d) Extend the Teas Yates-Seven Rivers Pool in Lea County, New Mexico, to include therein:

TOWNSHIP	20	SOUTH,	RANGI	34	EAS	r, NMPM
Section					4	
Section	18:	8/2,	SW/4,	and	E/2	NW/4
Section						
Section	20:	NW/4				

(e) Extend the Antelope Ridge-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 34 EAST, NMPM Section 2: N/2 Section 3: N/2

(f) Extend the Eunice-Monument Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM Section 7: NW/4

Examiner Hearing - Wednesday - July 25, 1973

Docket No. 20-73 -4-

(g) Extend the Justis-Blinebry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM Section 12: N/2

(h) Extend the Maljamar Grayburg-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM Section 35: NW/4

(1) Extend the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM Section 23: E/2 SW/4

TOWNSHIP 10 SOUTH, RANGE 37 EAST, NMPM Section 5: NW/4 Section 6: N/2 and SE/4

(j) Extend the Triple X-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 32 EAST, NMPM Section 1: SE/4

(k) Extend the North Vacuum-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP	17	SOUTH,	RANGE	35	EAST,	NMPM
Section	17:	SW/4				
Section	18:	SE/4				
Section 3	21:	NW/4				

Docket No. 21-73

DOCKET: REGULAR HEARING - TUESDAY - AUGUST 7, 1973

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

CASE 5007:

: (Continued from the June 28, 1973, Regular Hearing)

Application of Belco Petroleum Corporation for a drilling permit in the Potash-Oil Area, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its proposed Felmont Federal Well No. 1 to test the Morrow formation adjacent to the South Salt Lake-Morrow Gas Pool at a location 660 feet from the North line and 1980 feet from the East line of Section 25, Township 20 South, Range 32 East, NMPM, Lea County, New Mexico, said location being within the boundaries of the Potash-Oil Areg as defined by Commission Order No. R-111-A, and having been objected to by the owners of potash leases in the area.



Bell Lake Bone Spring Pool

Recap of Well Test Data

Date	Well No.	<u>011</u>	Water	Gas	GOR
8-15-73 8-14-73 8-13-7 3	3 11 12	30 50 <u>351</u> 431	10 50 <u>40</u> 100	58 69 <u>1140</u> 1267	1930 1370 <u>3250</u> 2940
10-15-73 10-30-73 10-9-73	3 11 12	21 36 <u>248</u> 305	6 51 <u>39</u> 96	84 135 <u>950</u> 1169	4000 3750 <u>3830</u> 3833
2-3-74 2-2-74 2-1-74	3 11 12	31 27 <u>197</u> 255	11 47 <u>59</u> 117	105 85 <u>540</u> 730	3387 3148 <u>2741</u> 2863
5-3-74 5-2-74 5-1-74	3 11 12	26 25 <u>121</u> 172	11 45 <u>65</u> 121	65 90 <u>490</u> 645	2500 3600 <u>4050</u> 3750
7-7-74 7-8-74 7-6-74	3 65 11 12	22 26 <u>107</u> 155	12 39 <u>69</u> 120	79 89 <u>420</u> 588	3591 3423 <u>3225</u> 3794

BEFORE	EXAMINER NUTTER
OIL CONSI	RVATION COMMISSION
Conoco	EXHIBIT NO. 2
CASE NO.	5033

Exhibit No. 2

Bell Lake Bone Spring Pool

Recap of Production

	Well No. 3	Well No. 11	Well No. 12	Pool
Cum. to 1-1-73	159,505	7,815	-0-	167,320
		an an an Arthur an A Arthur an Arthur an A		•
January	806	4,562	652	6,020
February	1,019	3,703	4,564	9,286
March	1,031	2,965	6,574	10,570
April	945	2,947	5,057	8,949
May	843	3,584	6,926	11,353
June	498	1,801	11,141	13,440
July	625	1,573	10,268	12,466
August	747	1,245	8,745	10,737
September	421	3,382	6,490	10,293
October	578	798	7,319	8,695
November	360	1,727	4,191	6,278
December	347	606	2,842	3,795
Cum. to 1-1-74	167,725	36,708	74,769	279,202
January	1,057	567	5,359	6,983
February	705	704	3,669	5,078
March	599	623	3,572	4,794
April	1,099	625	3,710	5,434
Мау	655	640	3,096	4,391
June	582	560	2,708	3,850
Cum. to 7-1-74	172,422	40,427	96,983	309,832



Exhibit No. 3



. .

BELL LAKE - BONE SPRING

LATEST TESTS

} less Them limit prod more them daily gas junit WELL OIL WATER GAS GOR 17 years . H 3 Nov 72 11 F+ b 73/12 25 8 114 4,560 63 56 5,000 316 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20 1,20 2,920

CASENO. 5033	BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION EXHIBIT NO. 2
children to the postal off	
Hearing Date July 25, 1973	Submitteri by Continental Oil C Hearing Date July 25, 1973

Exhibit No. 2 Case No. 5033



Continental Oil Company P.O. Box 460

1001 North Turner Hobbs, New Mexico 88240 (505) 393-414

Western Hemisphere Petroleum Division

2

D 12

L.P. Thompson **Division Manager** Production Department Hobbs Division

June 26, 1973

OIL CONSERVATION COMM Santa Fe Case 5033 New Mexico Oil Conservation Commission - 3 V

P. O. Box 2088 Santa Fe, New Mexico 87501

Attention Mr. A. L. Porter, Jr. Secretary Director

Gentlemen:

Amendment of Order No. R-4539, Bell Lake-Bone Spring Pool Rules

Enclosed, in triplicate, is our application for amendment of the subject pool rules to provide for a limiting gas-oil ratio of 5,000 cubic feet per barrel; or, in the alternative, for a lease casinghead gas allowable. We should appreciate your docketing this matter for the earliest examiner hearing.

Yours very truly,

Mampson

rw Enc CC + enc:RLA: GAD: JWK:

DOCKET MAILED Date 7-13-73

BEFORE THE OIL CONSERVATION COMMISSION OF THE OIL COMSERVATION COMM STATE OF NEW MEXICO

LUST WID

Santa Fo

Care 5033

IN THE MATTER OF THE APPLICATION OF CONTINENTAL OIL COMPANY FOR AMENDMENT OF THE SPECIAL POOL RULES FOR THE BELL LAKE-BONE SPRING POOL TO PROVIDE FOR A GAS-OIL RATIO LIMIT OF 5,000 CUBIC FEET PER BARREL: OR, IN THE ALTERNATIVE, TO PROVIDE FOR A LEASE CASINGHEAD GAS ALLOW-ABLE IN SAID POOL, LOCATED IN LEA COUNTY, NEW MEXICO

APPLICATION

Continental Oil Company, Applicant, hereby requests the amendment of the special pool rules contained in Order No. R-4539 for the Bell Lake-Bone Spring Pool in Lea County, New Mexico to provide a gas-oil ratio limit of 5,000 cubic feet per barrel; or, in the alternative, to provide for a lease casinghead gas allowable in said pool and in support thereof would show:

- 1. Applicant is the operator of the Bell Lake Unit and is the sole working interest owner in the Bell Lake Unit-Bone Spring Participating Area.
- 2. Order No. R-4539 promulgated special pool rules for the Bell Lake-Bone Spring Pool which, among other things, pro-'vided for a limiting gas-oil ratio of 2,000 cubic feet per barrel.
- That the wells in said pool produce at gas-oil ratios in 3. excess of 2,000 cubic feet per barrel.
- That it is necessary for operator to install and operate 4. gas compressors in order to sell casinghead gas to the existing gas gatherer.
- 5. That the limiting gas-oil ratio provided in Order No. R-4539 does not provide sufficient flexibility to operate said compressors in an efficient manner.

6. That the amendment of said order to provide for a gas-oil ratio limit of 5,000 cubic feet per barrel; or, in the alternative, to provide for a lease casinghead gas allowable, would eliminate, or substantially reduce, the gas which must be flared in the operation of said gathering system and that this is in the interest of preventing waste without the violation of correlative rights.

Wherefore, Applicant respectfully requests that this matter be set for hearing before the Commission's duly appointed Examiner and that upon hearing, an order be entered amending Order No. R-4539 as described above.

> Respectfully submitted, CONTINENTAL OIL COMPANY

amperon

L. P. Thompson

rw

the the Matter of case 1.0. 5033 being reopened surrected to the provision of Onder No. 1537 A. which order established a special gas ail natio chartalion of Santo I fan he Sell Jake Bone & phing Pool, Low Cocenter Now Marico Case 5033 0 rdor R-9539-B August 7, PKS (D plurisdiction (2) That by Order No. R-4539 special pool kules were sotublished for the Bell Lake - Bore Springs Pool, Lea County, Mais Mexico. (3) That by order No. A-4539A, said special pour rules were amendel to provide far a special gas ail ratio limitation of 5,00001. (1) That pursuant to the provision of Onder 110. 4539 A this case was presend to allow open erators in the subject soal to appear and show cause why the limiting gas oil ratio in the Bell Lake Bone Apiungo Aval a lisula not never1 40 200 10 1. (5) That poservour land production data se-Tablah that production under the spaceal gas oil rulio limitation promuljaled by Onder No. K-45 39 A fis not caused and well not cause waste.

What the Action Pulse and Legedations prism ulgaled by Osider NO, 115 39 and amanded by Ouder No. 15 S? It have afforded and will appoind to the owner of Carl property in the Good the opportunity of pleasure his first and equilable stars of the gas in the pool. (6) That RULE 7 of ello Aperial Rules and Reywation for the sell Lake Bone Springs Poal as promulgaled by Order No. 1539-14, which Rule provides for a special limiting gas-oil ratio for the subject pool of 5,000 to 1, A hould be made parmanent. ORDERRO (D) That Rule 7 & The Special Fules and Regulations of the Bell Jake Bone Springs Pool lex promulgated by Order 16. 2. 45 39-A, 10 percley made permanent. a) ansidiction

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 5033 Order No. R-4539-B

Daniel S. Nutter)

19 74

jr

IN THE MATTER OF CASE NO. 5033 BEING REOPENED PURSUANT TO THE PROVISIONS OF ORDER NO. R-4539-A, WHICH ORDER ESTABLISHED A SPECIAL GAS OIL RATIO LIMITATION OF 5000 to 1 FOR THE BELL LAKE-BONE SPRING POOL, LEA COUNTY, N/11 NEW MEXICO.

ORDER OF THE COMMISS

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on Auguat at Santa Fe, New Mexico, before Examiner Richard L. August 7 Gtamets.

NOW, on this day of September, 1974, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.

(2) That by Order No. R-4539 Special Pool rules were established

for the Bell Lake-Bone Springs Pool, Lea County, New Mexico.

1 CASE NO. 5033 Order No. R-4539-B 2

3

4

5

18

19

22

That by Order No. R-4539-A, said special pool rules were (3) amended to provide for a special gas oil ratio limitation of 5,000 to 1.

That pursuant to the provisions of Order No. R-4539-A 6 (4) this case was reopened to allow operators in the subject pool 7 to appear and show cause why the limiting gas-oil ratio in the 8 Bell Lake-Bone Springs Pool should not revert to 2,000 to 1. 9 (5) That reservoir and production data establish that produc-10 tion under the special gas-oil ratio limitation promulgated by 11 Order No. R-4539-A has not caused and will not cause waste. 12 (6) That the Special Rules and Regulations promulgated by 13 Order No. R-4539 and amended by Order No. R-4539-A have afforded 14 and will afford to the owner of each property in the pool the 15 opportunity to produce his just and equitable share of the gas in 16 17 the pool.

(7) That Rule 7 of the Special Rules and Regulations for the Bell Lake-Bone Springs Pool as promulgated by Order No. R-4539-A, which Rules provided for a special limiting as-oil ratio for the 20 subject pool of 5,000 to 1, should be made permanent. 21

IT IS THEREFORE ORDERED:

(1) That Rule 7 of the Special Rules and Regulations of the 23 Bell Lake-Bone Springs Pool as promulgated by Order No. R-4539-A, 24 25 is hereby made permanent. 28

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary. DONE at Santa Fe, New Mexico, on the day and year hereinabove lesignated.

31 3Ż

27

28

29

30



-2-Case No. 5033 Order No. R-4539-A

produced.

(2) That this case shall be reopened at an examiner hearing in August, 1974, at which time the operators in the subject pool may appear and show cause why the gas-oil ratio in the Bell Lake-Bone Spring Pool should not revert to 2,000 to 1.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, Jr. Member & Secretary