CASE 4479: Application of EASTLAND FOR MEW POOL, ASSIGNMENT OF DIS-COVERY ALLOWABLE AND POOL RULES.

.

Lase. Number. 4 Application, Transcripts. Sm all Exhibts. ETC.

BEFORE THF NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico January 6, 1971

EXAMINER HEARING

IN THE MATTER OF:

---------------Application of Eastland Oil Company for the creation of a new pool, assignment of discovery allowable, and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks creation of a new pool for the production of oil from the Grayburg and San Andres formations for its Arco Federal Well No. 1, located in the Northwest quarter, Northwest quarter of Section 5, Township 18 South, Range 31 East, Eddy County, New Mexico, and for the assignment of an oil discovery allowable to said well. Applicant further seeks the adoption of special pool rules to provide for a limiting gas-oil ratio of 5,000 to one.)

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING



PPECIALIZING IN: DEPOSITIONS, NEARINOS, STATE MENTS, EXPERT TESTIMO

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dearnley-meier reporting service, inc.

Case No.



		PAGE 3
	1	MR. NUTTER: This is Case No. 4479.
	2	MR. HATCH: This is the application of Eastland
C •	3	Oil Company for the creation of a new pool, assignment of
9 - 1. 17 - 1 617	4	discovery allowable, and special pool rules, Eddy County,
81.0 5.2	5	New Mexico.
	6	MR. KELLAHIN: I am Jason Kellahin, Kellahin
CD	7	and Fox, Santa Fe, New Mexico, appearing for the appli-
dearnley-meier	8	cant. We have one witness that I would like to have
₿¥- Ш	9	sworn, Mr. Neal.
rule	10	(Whereupon, a discussion was
រិមខ	11	held off the record, and Exhibits
71045	12	Nos. 1 through 8 were marked for
CONVENTIO	13	identification.)
DAILY COPY, CONVENTIONS New Mexico 57103	14	GEORGE D.NEAL
47, DAIL.	15	called as a witness, having been first duly sworn, was
TESTINO SURFRO	16	examined and testified as follows:
EXPERT 1 10 ALBU	17	DIRECT EXAMINATION
	18	BY MR. KELLAHIN:
978 • A F R	19	Q By whom are you employed and in what position,
HEARINGS, 1092 - PH-	20	Mr. Neal?
ТІОМ5, Н - Вох I	21	A I am employed by the Eastland Oil Company as
	22	a Vice President.
	23	Q Have you ever testified before the Oil Conser-
SPECIALIZI 200 simms	24	vation Commission and made your qualifications a matter
	25	of record?

	PAGE 4
1	A I have.
2	MR. KELLAHIN: Are his qualifications accepted?
3	MR. NUTTER: They are.
4	BY MR. KELLAHIN:
5	Q Mr. Neal, you are familiar with the application
6	of the Eastland Oil Company, which is Case No. 4479?
7	A I am.
8	Q Briefly, what is proposed by the Applicant in
9	this case?
10	A They are requesting creation of a new pool
11	from Grayburg and San Andres, and the application is
12	for discovery allowable and for a discovery well in
13	its Arco Federal Well No. 1, and special field rules
14	for a gas-oil ratio of 5,000-to-one.
15	Q Now, referring to what has been marked as
16	Applicant's Exhibit No. 1, would you identify that
17	Exhibit?
18	A This is a request for the creation of a new
19	pool, which in acreage, is described as the north half
20	of the Northwest quarter of Section 5, and the north half
21	of the North quarter of Section 5, and the north half and
22	the North quarter, the Northwest quarter of Section 6,
23	Section 5, Township 18 South, Range 31, Eddy County, New
24	Mexico.
25	Q Is that acreage on which you have a well present

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dearniey-meier regerting o SPECIALIZING IN DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 209 SIMMS BLDG. P.O. BOX 1092 PHONE 243-6691 ALBUQUERQUE, NEW MEXICO 67103

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PAGE 5

drilled? A Yes. There are two wells in there at the present time, 3 Q is that correct? А That is right, three producing wells on the pool. 5 dearniey-meier repert Q Thre producing wells. Now, referring to what has 6 7 been marked as Applicant's Exhibit No. 2, would you identi-8 fy that Exhibit? 9 Α That is an application for assignment of a dis-10 covery allowable for a new pool, and it further designat s 11 that the production of oil will be from the Grayburg and TESTIMONY, DAILY COPY, CONVENTION 12 San Andres formations for its Arco Federal Well No. 1, NEW MEXICO 87103 87108 13 would be the potential. 14 Q Would you give the location of the Arco Federal ALBUQUEROUE. 15 No. 1? 16 Section 6, North line, 8/10 from the west line A 17 of Section 5, Township 18, Range 31 East. 243-669 STATEMENTS, 18 Q What is the closest producing well to the same 1092 • PHONE 19 formation? HEARINGS, 20 Jackson-Grayburg, approximately one mile north. A 80 X SPECIALIZING IN: DEPOSITIONS, 21 Now, referring to what has been marked as Exhibit Q 209 SIMMS BLDG. P.O. 22 No. 3, would you identify that Exhibit? 01- 4 N 23 А Exhibit 3 is a location platt of the general area 24 centered on the discovery location of the Arco Federal No.1 25 in Section 5. The pool limits of the Jackson-Grayburg are

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	1	marked to the North, and the pool limits of the Shugart
	2	Pool to the South. The acreage described in the applica-
	3	tion is colored in yellow, and the two wells that have
	4	been completed since discovery of the well in Section 6
	5	are indicated, as well as the one presently drilled, which
	6	is presently known as Allied Federal No. 2 in Section 6.
	7	Q The discovery well is marked by an arrow?
	8	A That is correct.
	9	Q Are there any drill holes shown on that exhibit
	10	which would indicate separation from adjacent pools?
	11	A Yes, three drill holes between the discovery
7103	12	well and the Grayburg-Jackson Pool to the north, and
XICO B	13	Section 31, the Shugart-Stagner, No. 1, and this penetra-
4EW ME	14	ted the Grayburg and San Andres, and in Section 32, the
ALIJUQUERQUE, NEW MEXICO 67103 UE, NEW MEXICO 67108	15	Hanson-Gulf State penetrated both the Grayburg and the
	16	San Andres, and also in Section 32 the Ashmun-Simon
91●ALE RqUE,	17	No. 1, it penetrated the Grayburg and San Andres, and
243-6691e	18	they have all been completed as dry holes. In the south
209 SIMMS BLDG. P.O. BOX 1002+PHONE	19	we have drilled the Arco Federal No. 2, which is the
X 10924	20	offset discovery well. It was dry in both the Grayburg
0. 80	21	and San Andres, and in one location south of the discovery
LOG.	22	well.
HMMS B	23	Q Are there any dry holes to the south between
209 \$ FIRS	24	there and the Shugart?

dearnley-meier reporting

SPECIALIZING IN. DEPOSITIONS, HEARINGS, STATEMENTS, EXPERIT TESTIMONY, DAILY COPY, CONVENTIONS

25

A We have drilled older wells, the Cochoran No. 1

7 PAGE in Section 5 and penetrated the Grayburg and San Andres, 1 and the Patton Wells are also in Section 5 and it pene-2 trated the Grayburg and San Andres, and further on the 3 boarder of the Shugart-Haskins No. 5 was dry. 4 5 Q Have you prepared a structure map of this area? dearniev-meier report Yes, we have. 6 Α It is Exhibit No. 4? 7 Q 8 А Correct. It shows the contours on the top of 9 the Grayburg formation. It indicates the lower relief 10 anticline structure on the west access, and it does indi-11 cate the structural separation, especially from the Arco SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERIT TESTIMONY, DAILY COPY, CONVENTION: 12 Federal No. 2 which we drilled as it was extremely low, NEW MEXICO 87108 13 and the Arco Federal No. 1, the three producing wells in 14 this, produced pools which are higher than the wells in 209 SIMMS BLDG. F'.O. BOX 1092. FHONE 243-6691. ALINUQUERQUE. First national fank bldg. East-Albuquerque, new Mexico 15 the dry holes to the north. 16 Now, would you describe this particular pool; Q 17 is it a stratographic development? 18 It indicates that some structural development, A 19 especially, are probably stratographic to the north. 20 There is a low relief. 21 Q Is its structural development so far as the 22 development to the south is concerned? 23 А I believe that is correct, yes. 24 Do you have anything else to add in connection Q 25 with that exhibit?

		PAGE 8
	1	A I believe we have already pointed out the dry
	2	holes that separate it, and that would be all.
	3	Q What is the development to the north of the
- 	4	proposed pool?
C	5	A Both of these dry holes, the Hanson Well and
	6	the Stagner were dry in the Grayburg and San Andres
	7	formation because of lack of permiability, so it would
neie	8	indicate some stratographic separation there.
By-1	9	Q Permiability separation?
dearnley-meier re	10	A Right.
de	11	Q In your opinion, is this pool in any way
MTIONS 103	12	connected with the Grayburg-Jackson Pool?
, CONVE	13	A No, it is not.
ESTIMONY, DAILY COPY, CONVENTIONS I ERQUE, NEW MEXICO 87103 W MEXICO 87108	14	Q You have further information in connection with
ITHONY, DAI	15	that to give later, do you not?
F 0 B	10	A Yes.
DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT 1 S.e F.O. BOX 1092 - PHONE 243-69914 A HUC	17	Q Now, referring to Exhibit No. 5, would you
TGA EN TS, EXPER 243-669 10 A - 1 5 V GU EN QUIE ,	18	identify that?
55, 57.4.7 54 - 67.6 57 - 67.6	19	A Exhibit No. 5correctionthat is marked on
HEARIN: 1092 - F	20	Exhibit 4it starts through the closest production in
[POSITIONS, HEARINOS, 57A] F.O. Box 1092.6PHONE E ank blog. East al	21	Jackson-Grayburg pool and extends to the discovery well
IG IN: DEPO BLOG.4 F. IONAL EA	22	and into the Shugart Pool. It is Mobil Well No.l, and
	23	that was a producer in the Jackson-Grayburg, which is
S°ECIALIZII 209 SIMMS FIRST NA	24	presently an injection well in a unit in the Grayburg
	25	Jackson Pool. The Tamarac No. 1 is not offset to this

9 PAGE mobil. It extends through the Hanson-Gulf-State dry hole, and through the discovery well of the Arco Federal 2 No. 1 indicating a structural relief down into the Arco 3 Federal No. 2, and across to the Cochoran dry hole, and then into the Haskins Well in the Shugart Pool. 5 Q Is there any other information shown on that 5 Exhibit that you want to point out at this time? 7 А I noted that they tested the Arco Federal No.1, 8 they tested it both in the Grayburg and the San Andres, 9 which is shown across Section 6. It was tested into 10 the San Andres and had a production from both zones. 11 HEARINGS, STATEMENTS, EXPTRT TESTIMONY, DAILY COPY, CONVENTION Q Has the Grayburg been consolidated into the 12 NEW MEXICO 87103 87105 one pool in this area? 13 It is common production in the Grayburg-Jackson, A 14 209 SIMMS BLDG.e F.O. BOX 1002 PHONE: 243-6601 ALEUQUERQUE. First national bank bldg. East al.buquerquii. New Mexico and also the Shugart Pool. 15 In your opinion, is there effective separation Q 16 between the Grayburg and San Andres formation? 17 18 А No, there is not. It is a hard point to correlate to get a true separation between the Grayburg and the San 19 I don't believe there is any effective separation. 20 Andres. SPECIALIZING INI DEPOSITIONS, In your opinion, should there be a consolidation 21 Q for one production and from one common source of supply? 22 I believe there should be, yes. A 23 Now, referring to what has been marked Exhibit Q 24 No. 6, would you identify that exhibit? 25

dearniey-meier reporter

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	A Exhibit 6 is a neutron gamma ray log of the Arco
	Federal No. 1 discovery well with the top formation marked
	at the Grayburg-San Andres, and the perforations are com-
	pleted in the Grayburg, which is marked as producing from
	3 zones, producing in the San Andres, the Section that was
	tested in the San Andres is indicated, but it is presently
	separated from the Graburg by a bridge plug. It is not
	producing from the San Andres at the present time.
	Q Isn't the upper San Andres open in the well
	bore, is it not?

A It is not open at the present time; it is separated by a bridge plug.

Q Now, referring to what has been marked as Exhibit No. 7, would you identify that Exhibit?

A Exhibit 7 is a list of reservoir data from the proposed pool. It indicates 21 feet of Grayburg in the sand with a 14-per cent porosity, and 38 per cent water saturation, and six feet of San Andres lime, and 39 per cent water saturation, and it has an original pressure measured in the Arco Federal No. 1 of eleven hundred and thirty-six pounds, and 3462 feet measured on August 29th. The literature gives the estimated original Grayburg-Jackson Pool thirteen hundred, however this field was drilled in 1929 and that is not a completely accurate figure, but it does show that the pressure has not been reduced from drainage

dearnley-meier reperfing EXPERT TESTIMONY, DAILY COPY, CONVENTION NEW MEXICO 67108 DEPOSITIONS, HEARINCS, STATEMENTS, 50 SPECIALIZING IN ⊢ ∢ z 203

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	1	into the Jackson-Grayburg.
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C.	2	Q Do you know what the present pressure in the
	3	Jackson-Grayburg Pool is?
 	4	A One is a given estimate.
کر کے 1971ء میں تاہی	5	Q The present pressure?
	6	A It is in the order of three or four hundred;
	7	it is being flooded.
ne.	8	Q In your opinion, does this indicate that there
8 y -1	9	is no communication between your well and the Jackson-
dearnley-meier	10	Grayburg Pool?
- C	11	A I think it does, yes.
CONVENTIONS CONVENTIONS	12	Q There has been production from the Grayburg-
Y, CONVI	13	Jackson for a period of many years, isn't that correct?
DAILY COPY, New Mexi	14	A It was discovered in 1929; it has been producing
DAY, DA	15	for some 40 years.
	16	Q Now, referring to what has been marked as Exhibit
	17 17	No. 8, would you identify that exhibit?
5TATEMENTS, on E 249-649	8 18	A Exhibit No. 8 is the most recent production test
	19	on the three producing wells in the pool and the Arco Federal
MEARINGS,	· 20	No. 1. On December 19th this flowed 86 barrels of water.
BOX,	21 × 21	The gas-oil ratio was 28/50, and the Arco Federal No. 1
0	ຸ 22	flowed 55 barrels, and 6 barrels of water; the gas-oil
ALIZING M.	20 F Z 23	ratio was 33/70. The Allied Federal recent completion test,
	: 24	and it flowed 8.2 barrels in some 24 hours with a gas.oil
	25	ratio of 38/80. Also listed there are two tests on two other

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12 wells, the Arco Federal No. 1 and the Allied Federal No. 1, 1 which is strictly a swabbing test. That indicates a prob-2 able production of oil in the San Andres. 3 Q Would it be economically feasible to develope in 5 the San Andres formation a separate reservoir? 6 A No, it would not. From what we have tested in the two wells, that would not be economical to drill in the San Andres alone. That is, then, your reason for recommending that Q 10 it be treated as one pool? А It is. Q In connection with your Application, you have asked for a gas-oil ratio of 5,000-to-one. Why is this 14 necessary, Mr. Neal? 15 It is needed because of the production tests in А 16 this well are producing an average oil-gas ratio of 3500 17 to one at the present time. It is a typical completion 18 type at which they operate these gas-oil ratios. They 19 will increase as the wells are capable of making their 20 allowables and all the gases to be utilized in lifting 21 the fluid from the well, and eventually will be sold so 22 that there will be no waste, and we feel that it would 23 be an unnecessary penalty to produce with State-wide 24 permissable ratio of 2000 to one. We have a contract 25 with the Continental Oil Company to purchase the gas

dearniey-meier report

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONI

209 SIMM3 BLDG. P.O. BOX 1002-PHONE 243-6691-ALBUQUERQUE. FIRST NATIONAL EANK BLDG. EAST-ALBUQUERQUE NEW MEXICO

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NEW MEXICO 87103 87106

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page 13

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		1	from this pool. They have staked these lines, and in
••		2	the process of connectingin the meantime, we have re-
	C	3	stricted the flow on these wells to try and conserve the
•	1) 4 - 1, 1,4 4 (14 - 1)	4	gas, but we hope that by January 15th, that the gas will
	07.3 1 - 1 2 - 1	5	be connected to all three batteries.
		6	Q Some of your wells are shut in at the present
		7	time?
:	neie	8	A Yes. The Allied Federal No. 1 has been shut
4	dearnley-meier reper	9	in for approximately two months.
	arnl	10	Q However, when do you anticipate that you will
	d G	11	get gas?
	VENTIONS 67103	12	A January 15th has been given by Continental as
	TESTIMONY, DAILY COPY, CONVENTIONS Quérque, New Mirxico 87108 Ew Mexico 67108	13	being the completion date.
	AILY COPY NEW ME: 67108	14	Q You have applied for discovery allowable. Will
and always in a	ONY, DA OUE, N	15	the Arco Federal No. 1 be capable of making the discovery
		16	allowable?
n Anna Anna Anna Anna Anna Anna Anna An	RXFR:11 → AL B(17	A It will. It is capable of waking the top allowable,
nin - Anna Anna Anna Anna Anna Anna Anna A	STATEMENTS, I ON E 243-6691 ● AL BUQUER	18	and also there is additional production that will make the
•	STA1 ONE • AL	19	discovery allowable.
	. HEARING	20	Q Will you make the discovery allowable if the gas-
	DEPOSITIONS, HEARINGS, 5.0.0.00 × 10920PM	21	oil ratio is set at 2000 to one?
		22	A Yes. The allowable would be reduced if it was
	SPECIALIZING IN: 209 SIMMS BLDG	23	set at 2000 to one.
	SPECIAL 209 SIA	24	Q Would the allowable have to be adjusted?
		25	A Well, it would make a top allowable possible for

			PAGE 14
· · · · · · · ·	• •		if a higher gas-oil ratio was permitted.
		2	Q To some of your testimony, Mr. Neal, in your
	•	3	opinion this is a separate reservoir?
: ; ;	t. < C	4	A We believe it is a separate reservoir, and that
:	<	5	there is horizontal separation between the discovery well
		6	and the nearest similar production. We think we have a
(1		7	new source of supply, as has been indicated.
	18181	8	Q So you have asked for a designation of Grayburg-
	uearniey-meier	9	San Andres production?
		10	A We have asked for this, yes. We did use the
-	8	11	name "Grayburg-San Andres Pool" and we have made a re-
	ITIONS 03	12	quest for the name for simplification as it might be better
	CONVENTIA	13	to drop the San Andres, and we thought that we would call
	TEST:MONY, DAILY COPY, CONVENTIONS querque, New Mexico 57103 Ew Mexico 57105	14	it strictly "Grayburg" and avoid a long name.
	MY, DAILY (UE, NEW (ICO 8710)	15	Q Were Exhibits 1 through 8 prepared by you and
	Т 651.%0 Ф.С. 6 7.%0 Б.W. М.6 X	16	under your supervision?
	5, EXPERT 91 ● A L B U 34 Q UE, 20	17	A Yes, they were.
	EMENTS, I 243-6691 BUQUER:	18	MR. KELLAHIN: I offer these exhibits in evidence
3 	, STATE 40 N E: 2 T ● A L B :	19	Numbers 1 through 8, inclusive.
	MEAR(110) 1092 - P1	20	MR. NUTTER: Exhibits 1 through 8 will be ad-
:	FIDNS, BOX KELD	21	mitted into evidence.
		22	MR. KELLAHIN: Thank you. That is all we have
	IZING INI MS BLOG	23	on direct examination.
	SPECIALIZING IN1 209 SIMMS BLDC	24	CROSS EXAMINATION
	N NE	25	BY MR. NUTTER:
		·	

N. March & Laborator & Barris

Mark 2.

		PAGE 15
	1	Q I see that you have Form Number CO-1 on file here,
	2	and that is for the Arco Federal No. 1, which has a poten-
t *	3	tial of 98.6 barrels. Back in August, I think it was?
61 - 12 61 - 12	4	A That is correct.
83.0 577	5	Q Now, in December, the tests indicated that the
dearnlay-meier report	6	well had fallen 86.6 barrels. Do you know how that would
	7	have happened?
neie	8	A I misunderstood you. That is not capacity.
3 y -1	9	Q It is not?
arnj	10	A No, sir.
5	11	Q What is the maximum capacity of the well?
NTIONS 103	12	A I would say in the order of 150 to 175 barrels,
CONVENTI	13	although it has not been tested at that rate since it was
aily Copy , New Mexi 67108	14	completed.
TESTIMONY, DAILY COPY, COWVENTIONS querque, New Mexico 87103 ew Mexico 87108	15	Q I noticed, also, on this cross examination, that
	16	this well indicates that it had a GOR of 1870 when it was
#X761.8T 1 + А I. В С 2 2 0 € . Z	17	originally completed?
	18	A Potentially, yes, the same potential as on the
35, 5TAT 140NE 2 5T ● ALE	19	form.
, HEARINGS , (1092 - PH(20	Q You got a gas-oil GOR of 1860 when the original
€* 05171045 , ₽.0. 80X	21	was completed?
41 DE 90	22	A On the potential, yes. It is the same potential
SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, 2005 SIMMS BLDG., P.O. BOX 1092.0PHONE 243-669 FIRST NATIONAL IJANK BLDG. EAST AALBUQUEI	23	on the form.
SPECIA 209 SIN F1RST	24	Q You got a gas-oil GOR, and that has gone from
	25	8,000 on that well from 1800 to 2800?

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		PAGE LO
_ •	1	A That is correct.
	2	MR. NUTTER: Are there any further questions of
	3	the witness? You may be excused.
с. 15 С. 15	4	(Whereupon, the witness was excused.)
(- 5 	5	MR. NUTTER: Do you have anything further, Mr.
C. →	6	Kellahin?
	7	MR. KELLAHIN: Nothing at all, Mr. Nutter.
meie	8	MR. NUTTER: If there isn't anything further on
dearnley-meier	9	Case No. 4479, we will take it under advisement.
arn	10	
	11	
RT TES PINONY, DAILY COPY, CONVENTIONS Buguerque, New Mexico 87103 New Mexico 87103	12	
Y, CONV	13	
ALLY COPY, CONVENT: New Mexico 87103	14	
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5, HEARI - X 1092	20	
	21	
SPECIALIZING INI DEPOSITIONS, HEARINGS, STATEMENTS, EXPL 209 Simms Bldg., F.O. Box 1092.0Phone 243-6601.41	22 L	
IALIZING SIMMS B	23	*
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A Star Barris

PAGE 17 STATE OF NEW MEXICO 1))) SS COUNTY OF SANTA FE 2 $\langle \cdot \rangle$ 3 I, RICHARD L. NYE, Court Reporter, do hereby certify 4 ٤. ; that the foregoing and attached Transcript of Hearing dearnley-meier reporting 5 before the New Mexico Oil Conservation Commission was 6 reported by me, and the same is a true and correct record 7 of the said proceedings, to the best of my knowledge, 8 skill and ability. 9 10 11 NYE, Court Reporter SPECIALIZING IN: INEPOSITIONS, HEARINGS, STATEMENTS, EXPERIT TESTIMONY, DAILY COPY, CONVENTION 12 NEW MEXICO 87103 87108 13 14 BOX 1092.0PHONE 243-6601.0ALIJUQUERQUE, K BLOG, EAST 0ALBUQUERQUE, NEW MEXICO 15 16 17 18 19 20 209 SIMMS BLDG. P.O. BOX 109 FIRS' NATIONAL BANK BLDG. 21 22 E do baroby cartify that the formable the a cacard of the pres ×, 23 1.2 m 1.5 123 24 rico 011 Conservation Oceandation . . 1111 25

THE EASTLAND OIL COMPANY

704 WESTERN UNITED LIFE BUILDING MIDLAND, TEXAS 79701 TELEPHONE: 683-2398 563-0343



Auc 003 CONTINENT LIFE BUILDING FORT WORTH, TEXAS 76102 TÉLEPHONE: 332-2539

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704 Western United Life Building Midland, Texas 79701

August 26, 1970

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D. D. C. ARTESIA, OFFICE

The Oil Conservation Commission State of New Mexico Drawer DD Artesia, New Mexico

Gentlegen:

Under separate cover we have filed Form C=104, Request for Allowable, on our recently completed ARCO-Federal #1. This well is located 660' FNL and 810' FWL, Section 5, T-18-S, R-31-E, Eddy County, New Mexico.

The nearest comparable production is in the Grayburg-Jackson Pool located approximately one mile to the North. However, several dry holes, drilled through the equivalent producing zone and lying between the ARCO-Federal #1 and this pool, are possible evidence of a new common source of supply.

At the present time, we are studying the geological interpretation of the area. Also, we would like to observe the immediate production performance of the well. Within approximately thirty days, if we are of the opinion that a new pool has been discovered, we respectfully request permission to file the required information for your consideration.

This well first produced new oil from the presently completed zone on August 18, 1970. By this letter, we wish to protect our rights to discovery allowable until such time as formal application is made.

Yours very truly,

THE EASTLAND OIL COMPANY

George D. Neal

GDN:kjd

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	DISTRIBUTION			
	SANTA FE /		CONSERVATION COMMISSION	Form C-104 Supersodes Old C-106 and C-11
F	FILE /	KEWUESI	FOR ALLOWABLE	B Glanting Laber
	U.\$.G.\$,		ANSPORT OIL AND NATURAL	
	LAND OFFICE			
	TRANSPORTER OIL /			AUG 2 7 1970
┢	OPERATOR /	4		
-	PRORATION OFFICE			D. C. C.
ק	Cperator	1		CFFICE
	The Eastland Oil Co Address	mpany	· · · · · · · · · · · · · · · · · · ·	
	704 Western United	Life Building, Midland, 7	Texas 79701	
- þ	Reason(s) for filing (Check proper bos	x)	Other (Please explain)	
	New Well	Chunge in Transporter of:		
	Recompletion			
Ľ	Change in Ownership	Casinghead Gas Conder		· · · · · · · · · · · · · · · · · · ·
	f change of ownership give name and address of previous owner	·		
	DESCRIPTION OF WELL AND Lease Name	Well No. Pool Name, Including F	ormation Kind of Le	Lease No.
	ARCO • Federal	1 Wildcet	State, Fede	ral or Fee Pederal IDE 02994
	Location			
	Unit Letter D ; 66	Feet From The North Lin	ne and Feet Fran	The Nest
	· · · · · · · · · · · · · · · · · · ·			
	Line of Section 5 To	waship 18 South Range	SI East , NMPM. Eddy	County
U. D	ESIGNATION OF TRANSPOR	TER OF OIL AND NATURAL GA	IS	
	Name of Authorized Transporter of Ol			roved copy of this form is to be sent)
- L	The Permian Corpora		P. O. Box 3119 Mid	lend. Texas 79701
1	Name of Authorized Transporter of Co	nsinghead Gas 🕵 🛛 or Dry Gas 🛄	Address (Give address to which app	roved copy of this form is to be sens)
	Continental Oil Com	pany	P. O. Box 431 Mid	Land, Texas 79701
	If well produces oil or liquids,	Unit Sec. Twp. P.ge.	Is gas actually connected?	(hen
<u>_</u>	give location of tanks.	<u> </u>	No	
		ith that from any other lease or pool,	give commingling order number:	None
v . <u>c</u>	COMPLETION DATA	Oil Well Gaa Well	Istan Well Isterberge I Darrow	
	Designate Type of Completi	on = (X)	New Well Workover Deepen	Piug Back Same Restv. Diff. Restv.
		Date Compl. Ready to Prod.	Total Depth	
- 14	Date Spudded	Date Compl. Heady to Prod.	Total Depth	P.B.T.D.
1		0.10.30		
 -	7-28-70	8-18-70	3,684	3.570
	Elevations (DF, RKB, RT, GR, exc.)	Name of Producing Formation	Top Oil/Gas Pay	3.570 Tubing Depth
	Elevations (DF, RKB, RT, GR, etc.) 3,684 GR. 5,694 KB	Name of Producing Formation Grayburg		3.570
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 5,694 KB Perforations 1 shot each •	Name of Producing Formation Grayburg • 0.42" noles	Top Oil/Gas Pay 3,410	3,570 Tubing Depth 3,536 Depth Casing Shoe
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 5,694 KB Perforations 1 shot each •	Name of Producing Formation Grayburg • 0.42" holes 3416°, 3418°, 3473°, 34	Top Oll/Gas Pay 3,410 75°, 3477°, 3512°, 3514	3,570 Tubing Depth 3,536 Depth Casing Shoe
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 5,694 KB Perforations 1 shot each •	Name of Producing Formation Grayburg • 0.42" holes 3416°, 3418°, 3473°, 34	Top Oil/Gas Pay 3,410	3,570 Tubing Depth 3,536 Depth Casing Shoe
	Elevations (DF, RKB, RT, GR, etc.) 3,684 GR. 5,694 KB Perforations 1 shot each 3,410, 3412, 3414	Name of Producing Formation Grayburg 0.42" noies 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI	Top Oll/Gas Pay 3,410 75° , 3477° , 3512° , 3514 D CEMENTING RECORD	3,570 Tubing Depth 3,536 Depth Cosing Shoe 3,000 ² SACKS CEMENT
	Elevations (DF, RKB, RT, GR, etc.) 3,684 GR. 3,694 KB Perforations 1 shot each 3,410, 3412, 3414 HOLE SIZE	Name of Producing Formation Grayburg 0.42" holes 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8.5/8" 4.1/2"	Top Oll/Gas Pay 3,410 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712°	3,570 Tubing Depth 3,536 Depth Cosing Shoe 3,089 ⁺
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 5,694 KB Perforations 1 shot each 3,410, 3412°, 3414°, HOLE SIZE 11 ³¹	Name of Producing Formation Grayburg • 0,42" holes 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8"	Top Oll/Gas Pay 3,410 75° 3477° 3512° 3514 D CEMENTING RECORD DEPTH SET	3,570 Tubing Depth 3,536 Depth Cosing Shoe 3,009 ² SACKS CEMENT 350 Class "C", 2% CaCl2
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR, 5,694 KB Perforations 1 shot each = 3,410, 3412°, 3414°, HOLE SIZE 11" 7.7/8"	Name of Producing Formation Grayburg • 0,42" aoles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE	Top Oll/Gas Pay 3,410 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 5555 6	3,570 Tubing Depth 3,536 Depth Casing Shoe 3,089 ² SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incor-Poxmix, 2% Cel
V. 1	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 5,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F	Name of Producing Formation Grayburg • 0.42" aoles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE FOR ALLOWABLE (Test must be a	Top Oll/Gas Pay 3,410 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 5555 6	3,570 Tubing Depth 3,536 Depth Casing Shoe 3,000 ² SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incor-Poxmix, 2% Cel
V. 1	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 5,694 KB Perforations 1 shot each 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL, WELL Date Firet New Oil Run To Tanks	Name of Producing Formation Grayburg • 0.42" aoles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE FOR ALLOWABLE (Test must be a	Top Oll/Gas Pay 3,410 75°, 3477°, 3312°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 555 6 Ifter recovery of sotal volume of load o	3,570 Tubing Depth 3,536 Depth Cosing Shoe 3,089 ² SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incor-Poxmix, 2% Cel il and must be equal to or exceed top allow
v. 7	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL, WELL Date Firet New Oil Run To Tanks 8-13-70	Name of Producing Formation Grayburg • 0.42" aoles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70	Top Oll/Gas Pay 3,410 75° , 3477° , 3512° , 5514 D CEMENTING RECORD DEPTH SET 712° 3,684° 5556 (fter recovery of total volume of load o rpth or be for full 24 hours) Producing Method (Flow, pump, gas Ploce	3,570 Tubing Depth 3,536 Depth Casing Shoe 3,009 ² SACKS CEMENT 350 Class ¹¹ C ¹¹ , 2% CaCl2 250 Incor-Poxmix, 2% Cell 11 and must be equal to or exceed top allow 11/ft, etc.;
v. 7	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" FEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-13-70 Length of Test	Name of Producing Formation Grayburg • 0.42" aoles 3416 ² , 3418 ² , 3473 ² , 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE COR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure	Top Oll/Gas Pay 3,610 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 S555 6 S555 6 S555 6 S555 6 Producting Method (Flow, pump, gas Plots Casing Pressure	3,570 Tubing Depth 3,536 Depth Cosing Shoe 3,033° SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incor-Poxnix, 2% Col il and must be equal to or exceed top allow lift, etc.; Choke Bize
1	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-13-70 Length of Test 24 hre	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3416°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 804	Top Oll/Gas Pay 3,610 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ster recovery of sotal volume of load o path or be for full 24 hours) Producing Method (Flow, pump, gas Plots Casing Pressure 750#	3.570 Tubing Depth 3.536 Depth Casing Shoe 3.000 ² SACKS CEMENT 350 Class ¹¹ C ¹¹ , 2% CaCl2 250 Incor-Poxmix, 2% Cell 11 and must be equal to or exceed top allow 11/2 ¹¹ Choke Eize 1/2 ¹¹
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" FEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-13-70 Length of Test	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Preseute 904 Oil-Bble.	Top Oll/Gas Pay 3,610 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ster recovery of sotal volume of load o path or be for full 24 hours) Producing Method (Flow, pump, gas Pints Casing Pressure 750# Water-Bbls.	3,570 Tubing Depth 3,536 Depth Casing Shoe 3,033 SACKS CEMENT 350 Class "C", 27 CaCl2 250 Incor-Poxnix, 27 Call 11 and must be equal to or exceed top allow 11/211 Choke Sixe 1/211 Gcs-MCF
1	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-13-70 Length of Test 24 hre	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3416°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 804	Top Oll/Gas Pay 3,610 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ster recovery of sotal volume of load o path or be for full 24 hours) Producing Method (Flow, pump, gas Plots Casing Pressure 750#	3.570 Tubing Depth 3.536 Depth Casing Shoe 3.000 ² SACKS CEMENT 350 Class ¹¹ C ¹¹ , 2% CaCl2 250 Incor-Poxmix, 2% Cell 11 and must be equal to or exceed top allow 11/2 ¹¹ Choke Eize 1/2 ¹¹
V. T	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-13-70 Length of Test 24 hre	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Preseute 904 Oil-Bble.	Top Oll/Gas Pay 3,610 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ster recovery of sotal volume of load o path or be for full 24 hours) Producing Method (Flow, pump, gas Pints Casing Pressure 750# Water-Bbls.	3,570 Tubing Depth 3,536 Depth Casing Shoe 3,036 SACKS CEMENT 350 Class "C", 27 CaCl2 250 Incor-Poxnix, 27 Col il and must be equal to or exceed top allow lift, etc.; Choke Bixe 1/211 Gcs-MCF
v . n	Elevations (DF, RKB, RT, GR, etc.) 3,684 GR, 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL, WELL Date First New Oil Run To Tanks 8-18-70 Length of Test 24 hrs Actual Prod. During Test	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Preseute 904 Oil-Bble.	Top Oll/Gas Pay 3,610 75°, 3477°, 3512°, 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ster recovery of sotal volume of load o path or be for full 24 hours) Producing Method (Flow, pump, gas Pints Casing Pressure 750# Water-Bbls.	3,570 Tubing Depth 3,536 Depth Casing Shoe 3,033 SACKS CEMENT 350 Class "C", 27 CaCl2 250 Incor-Poxnix, 27 Call 11 and must be equal to or exceed top allow 11/211 Choke Sixe 1/211 Gcs-MCF
V. TC	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR, 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL, WELL Date First New Oil Run To Tanks 8-18-70 Length of Test 24 hrs Actual Prod. During Test SAS WELL Actual Prod. Test-MCF/D	Name of Producing Formation Grayburg • 0.42" aoles 3416 ² , 3418 ² , 3473 ² , 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 805 Oil-Bbls. 98.6	Top Oll/Gas Pay 3,610 75° . 3477° . 3512° . 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ifter recovery of total volume of load o rpth or be for full 24 hows) Producing Method (Flow, pump, gas Plots Casing Pressure 7504 Water-Bbls. 32.9 Bbls, Condensate/MMCF	3.570 Tubing Depth 3.536 Depth Cosing Shoe 3.0001 SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incore Poxmix, 2% Call If and must be equal to or exceed top allow lift, etc.; Choke Eise 1/211 Gcs-MCF 181
V. TC	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR, 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL, WELL Date First New Oil Run To Tanks 8-18-70 Length of Teet 24 hrs Actual Prod. During Teet	Name of Producing Formation Grayburg • 0.42" aoles 3416 ² , 3418 ² , 3473 ² , 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 805 Oil-Bbis. 98.6	Top Oll/Gas Pay 3,610 75° . 3477° . 3512° . 3516 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ifter recovery of social volume of load o opth or be for full 24 hours) Producing Method (Flow, pump, gas Plow Casing Pressure 7504 Water-Bbls. 32.9	3,570 Tubing Depth 3,536 Depth Cosing Shoe 3,0005 SACKS CEMENT 350 Class "4C", 2% CaCl2 250 Incor=Poxnix, 2% Gel il and must be equal to or exceed top allow lift, etc.; Choke Bize 1/2" Gcs-MCF 181
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" FEST DATA AND REQUEST F DIL, WELL Date First New Oil Run To Tanks 8-13-70 Length of Teet 24 hrs Actual Prod. During Teet BAS WELL Actual Prod. Teet-MCF/D Testing Method (pitol, back pr.)	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Preseure 804 Oil-Bbls. 98.6	Top Oll/Gas Pay 3.6410 75° . 3477° . 3512° . 3516 D CEMENTING RECORD DEPTH SET 712° 3.684° 3.684° 3.555 6 fter recovery of sotal volume of load o opth or be for full 24 hours) Producing Method (Flow, pump, gas Plots Casing Pressure 750# Water - Bbls. 32.9 Bbls. Condensate/MMCF Casing Pressure (Shut-in)	3.570 Tubing Depth 3.536 Depth Cosing Shoe 3.000 ² SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incor=Poxmix, 2% Cel il and must be equal to or exceed top allow lift, etc.; Choke Bixe 1/2 ¹¹ Gcs-MCF 181 Gravity of Condensate Choke Size
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR, 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" TEST DATA AND REQUEST F DIL, WELL Date First New Oil Run To Tanks 8-18-70 Length of Test 24 hrs Actual Prod. During Test SAS WELL Actual Prod. Test-MCF/D	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Preseure 804 Oil-Bbls. 98.6	Top Oll/Gas Pay 3,410 75° . 3477° . 3512° . 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 fter recovery of socal volume of load o rpth or be for full 24 hours) Producing Method (Flow, pump, gas Ploss Casing Pressure 750 // Water - Bbls. 32.9 Bbls, Condenacte/MMCF Casing Pressure (Shut-1a)	3.570 Tubing Depth 3.536 Depth Cosing Shoe 3.0001 SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incore Poxmix, 2% Cal il and must be equal to or exceed top allow lift, etc.; Choke Size 181 Gravity of Condensate Choke Size Choke Size
V. 1	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 3,694 KB Perforations 1 shot each - 3,410, 3412, 3414,	Name of Producing Formation Grayburg • 0.42" doles 3416 ² , 3418 ² , 3473 ² , 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE COR ALLOWABLE: (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 805 Oil-Bble. 98.6 Length of Test Tubing Pressure (Shut-in)	Top Oll/Gas Pay 3,410 75°	3.570 Tubing Depth 3.536 Depth Cosing Shoe 3.0001 SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incore Poxmix, 2% Cal il and must be equal to or exceed top allow lift, etc.; Choke Size 181 Gravity of Condensate Choke Size Choke Size
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR. 5,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11" 7 7/8" FEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-13-70 Length of Test 24 hre Actual Prod. During Test GAS WELL Actual Prod. Test-MCF/D Testing Method (pitol, back pr.) CERTIFICATE OF COMPLIAN hereby certify that the rules and	Name of Producing Formation Grayburg • 0.42" doles 3416°, 3418°, 3473°, 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE • OR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 90.4 Oil-Bbls. 98.6 Length of Test Tubing Pressure (Shut-in) ICE regulations of the Oil Conservation	Top Oll/Gas Pay 3,410 75°	3.570 Tubing Depth 3.536 Depth Cosing Shoe 3.0001 SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incore Poxmix, 2% Cal il and must be equal to or exceed top allow lift, etc.; Choke Size 181 Gravity of Condensate Choke Size Choke Size
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR, 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11 ³¹ 7 7/8 ¹¹ TEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-18-70 Length of Test 24 hre Actual Prod. During Test SAS WELL Actual Prod. Test-MCF/D Testing Method (pitot, back pr.) CERTIFICATE OF COMPLIAN hereby certify that the rules and commission have been complied	Name of Producing Formation Grayburg • 0.42" doles 3416 ² , 3418 ² , 3473 ² , 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE COR ALLOWABLE: (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 805 Oil-Bble. 98.6 Length of Test Tubing Pressure (Shut-in)	Top Oll/Gas Pay 3,410 75° . 3477° . 3512° . 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ifter recovery of total volume of load o rpth or be for full 24 hours) Producing Method (Flow, pump, gas Plots Casing Pressure 7504 Water-Bbls. 32.9 Bbls, Condensate/MMCF Casing Pressure (Shut-1s) CIL CONSERV APPROVED APPROVED BY M. G. S	3.570 Tubing Depth 3.536 Depth Casing Shoe 3.0000 SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incor-Poxmix, 2% Cell If and must be equal to or exceed top allow If and must be equal to or exceed top allow If etc.; Choke Eize 1/211 Gcs-MCF 181 Gravity of Condensate Choke Size Choke Size
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR, 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11 ³¹ 7 7/8 ¹¹ TEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-18-70 Length of Test 24 hre Actual Prod. During Test SAS WELL Actual Prod. Test-MCF/D Testing Method (pitot, back pr.) CERTIFICATE OF COMPLIAN hereby certify that the rules and commission have been complied	Name of Producing Formation Grayburg • 0.42" holes 3416 ² , 3418 ² , 3473 ² , 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE FOR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 805 Oil-Bbis. 98.6 Length of Test Tubing Pressure (Shut-in) ICE	Top Oll/Gas Pay 3,610 75° . 3477° . 3512° . 3516 D CEMENTING RECORD DEPTH SET 712° 3,684° 35556 State State State State State State State 712° 3,684° State Producing Method (Flow, pump, gas Plots Casing Pressure 7504 Water-Bbls. 32.9 Bbls, Condensate/MMCF Casing Pressure (Shut-1n) OIL CONSERV APPROVED APPROVED BY OIL AND GAS	3.570 Tubing Depth 3.536 Depth Cosing Shoe 3.0001 SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incore Poxmix, 2% Cal il and must be equal to or exceed top allow lift, etc.; Choke Size 181 Gravity of Condensate Choke Size Choke Size
	Elevations (DF, RKB, RT, GR, exc.) 3,684 GR, 3,694 KB Perforations 1 shot each - 3,410, 3412°, 3414°, HOLE SIZE 11 ³¹ 7 7/8 ¹¹ TEST DATA AND REQUEST F DIL WELL Date First New Oil Run To Tanks 8-18-70 Length of Test 24 hre Actual Prod. During Test SAS WELL Actual Prod. Test-MCF/D Testing Method (pitot, back pr.) CERTIFICATE OF COMPLIAN hereby certify that the rules and commission have been complied	Name of Producing Formation Grayburg • 0.42" holes 3416 ² , 3418 ² , 3473 ² , 34 TUBING, CASING, ANI CASING & TUBING SIZE 8 5/8" 4 1/2" 2" EVE FOR ALLOWABLE (Test must be a able for this de Date of Test 8-24-70 Tubing Pressure 805 Oil-Bbis. 98.6 Length of Test Tubing Pressure (Shut-in) ICE	Top Oll/Gas Pay 3,410 75° . 3477° . 3512° . 3514 D CEMENTING RECORD DEPTH SET 712° 3,684° 3555 6 Ifter recovery of total volume of load o rpth or be for full 24 hours) Producing Method (Flow, pump, gas Plots Casing Pressure 7504 Water-Bbls. 32.9 Bbls, Condensate/MMCF Casing Pressure (Shut-1s) CIL CONSERV APPROVED APPROVED BY M. G. S	3.570 Tubing Depth 3.536 Depth Casing Shoe 3.0000 SACKS CEMENT 350 Class "C", 2% CaCl2 250 Incor-Poxmix, 2% Cell If and must be equal to or exceed top allow If and must be equal to or exceed top allow If etc.; Choke Eize 1/211 Gcs-MCF 181 Gravity of Condensate Choke Size Choke Size
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STATE GEBLOGHUT A. L. PORTER, JR. IGENEYARY - DIRECTOR

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2006 - SANTA PE 57501

January 25, 1971

Mr. Jason Kellahin Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico Re: Case No. <u>4479</u> Order No. <u>R-4092</u> Applicant:

_____Rastland Oil Company_____

Dear Sir:

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

Very truly yours,

Garter

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Copy of order also sent to: Hobbs OCC_____ Artesia OCC_____ Astec OCC_____ Other

BRFORE THE OIL CONSERVATION CONNISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION CONSISSION OF HEM MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 4479 Order No. R-4092 NONENCLATURE

APPLICATION OF EASTLAND OIL CONF. FOR THE CREATION OF A NEW POOL, ASSIGN-MENT OF DISCOVERY ALLONABLE, AND SPECIAL POOL HULES, EDDY COUNTY, NEW NEXICO.

ORDER OF THE CONMISSION

BY THE CONMISSION:

This cause came on for hearing at 9 a.m. on January 6, 1971, at Santa Fe, New Mexico, before Examiner Daniel S. Mutter.

NOW, on this 25th day of January, 1971, 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,

PINDS:

(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 the applicant, Eastland Oil Company, seeks the creation of a new pool for the production of oil from the Grayburg and San Andres formations in Eddy County, New Mexico, and the assignment of an oil discovery allowable to the discovery well.

(3) That the applicant further masks the establishment of a gas-oil ratio limitation of 5000 cubic feet of gas per barrel of oil produced for the subject well.

(4) That the evidence presently available indicates that the Bastland Oil Company Arco Federal Well No. 1, located in the -2-CASE No. 4479 Order No. R-4092

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NN/4 NM/4 of Section 5, Township 18 South, Range 31 East. NMPN, Eddy County, New Nexico, having its top perforations at 3410 feet, has discovered a separate common source of supply which should be designated the Power Grayburg-San Andres Pool; that the vertical limits of said pool should be the Grayburg and San Andres formations, and that the horisontal limits of said pool should comprise the following-described lands:

EDDY COUNTY, NEW MEXICO

TONHSHIP 18 SOUTH, RANGE 31 EAST, MMPM Section 5: MW/4 WW/4 Section 6: W/2 NE/4 and NE/4 WW/4

(5) That the discovery well for said pool, the aforesaid Eastland Oil Company's Arco Federal Well No. 1, is entitled to and should receive a bonus discovery oil allowable in the amount of 17,050 barrels, based upon the top perforations in said well at 3410 feet, to be assigned over a two-year period.

(6) That the reservoir characteristics of the subject pool presently available justify the establishment of a gaz-cil ratio limitation of 3000 cubic feet of gas per barrel of oil.

(7) That the establishment of a special gas-oil ratio limitation of 3000 cubic feet of gas for each barrel of oil will afford to the owner of each property in the subject pool the opportunity to produce his just and equitable share of the oil and gas and will not cause waste nor violate correlative rights, provided the flaring or venting of gas in the pool is prohibited.

(8) That in order to assure the protection of correlative rights, the operator of each well in the Power Grayburg-San Andres Pool should file a new gas-oil ratio test with the Commission's Artesia Office on or before February 1, 1971.

IT IS THEREFORE ORDERED:

(1) That a new pool in Eddy County, New Mexico, classified as an oil pool for the production of oil from the Grayburg and San Andres formations, is hereby created and designated the Power Grayburg-San Andres Pool, with vertical limits comprising the Grayburg and San Andres formations, and horizontal limits -3-CASE No. 4479 Order No. R-4092

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comprising the following-described area:

EDDY COUNTY, NEW MEXICO <u>TOMMENIP 18 SOUTH, BANGE 31 EAST, MMPM</u> Section 5: MM/4 MM/4 Section 6: M/2 ME/4 and ME/4 MM/4

(2) That the discovery well, the aforesaid Eastland Oil Company Arco Federal Well No. 1, is hereby authorized an oil discovery allowable of 17,050 barrels to be assigned to said well at the rate of 24 barrels per day in accordance with Eule 509 of the Commission Rules and Regulations.

(3) That the limiting gas-oil ratio in the Power Grayburg-San Andres Pool shall be 3000 cubic feet of gas for each barrel of oil produced; that each proration unit in the Power Grayburg-San Andres Pool shall produce only that volume of gas equivalent to 3000 multiplied by top unit oil allowable for the pool.

(4) That the operator of each well in the Power Greyburg-San Andres Pool shall file a new gas-oil ratio test with the Commission's Artesia office on or before February 1, 1971. and shall furnish a schedule of test dates to the Commission's Artesia office in order that the tests may be witnessed.

(5) That after the effective date of this order, no gas shall be flared or vented in the Power Grayburg-San Andres Pool more than 50 days after a well begins to produce.

(6) That any operator who desires to obtain an exception to the foregoing provision shall file an application in triplicate with the Commission's Artesia office upon a form designated by the Commission. The district supervisor is hereby authorised to grant such exception whenever the granting of the exception is reasonably necessary to protect correlative rights, prevent waste or prevent undue hardship on the applicant. The district supervisor shall either grant the exception within 10 days after receipt of the application or refer it to the Secretary-Director of the Commission who will advertise the matter for public hearing if a hearing is desired by the applicant.

(7) That the effective date of this order shall be January 27, 1971.

-4-CASE No. 4479 Order No. R-4092

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

DOME at Santa Fe, New Mexico, on the duy and year hereinabove designated.



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STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

ing BRACK 22 ber & Secretary Jr

Examiner Hearing - January 6, 1971 Page 2

Docket No. 1-71

CASE 4478: Application of Refiners Petroleum Corporation for the creation of a new oil pool and special rules therefor, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new pool for the production of oil from the Graneros-Dakota formation for its Cuba-Union Well No. 1 located in Unit A of Section 25, Township 22 North, Range 3 West, Sandoval County, New Mexico, and for the promulgation of special rules therefor, including a provisions for 160-acre spacing units.

CASE 4479: Application of Eastland Oil Company for the creation of a new pool, assignment of discovery allowable, and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks creation of a new pool for the production of oil from the Grayburg and San Andres formations for its Arco Federal Well No. 1 located in the NW/4 NW/4 of Section 5, Township 18 South, Range 31 East, Eddy County, New Mexico, and for the assignment of an oil discovery allowable to said well. Applicant further seeks the adoption of special pool rules to provide for a limiting gas-cil ratio of 5,000 to one.

CASE 4480:

- Application of Coastal States Gas Producing Company for expansion of a unit area, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand the Flying "M" (San Andres) Unit Arca, authorized by Order No. R-3220, to include some 879 acres, more or less, of Federal, State and Fee lands in Townships 9 and 10 South, Range 33 East, Flying "M" San Andres Pool, Lea County, New Mexico.
- CASE 4491: Application of Delaware-Apache Corporation for a non-scandard proration unit, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval for an 80-acre non-standard oil proration unit comprising the SW/4 NE/4 and NW/4 SE/4 of Section 20, Township 8 South, Range 38 East, Bluitt-San Andres Associated Pool, Roosevelt County, New Mexico, to be dedicated to a well to be drilled at a standard location in the SW/4 NE/4 of said Section 20.
- CASE 4482: Application of the Petroleum Corporation for the creation of a new pool, special rules therefor, and exceptions to Orders Nos. R-3221 and R-4070, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Strawn oil pool for its Petco State Well No. 1 located in Unit P of Section 26, Township 19 South, Range 29 East, Eddy County, New Mexico, and for the promulgation of special rules therefor, including provisions for 160-acre spacing units and a limiting gas-cil ratic of 4000 cubic feet of gas per barrel of oil. Applicant further seeks exceptions to Orders Nos. R-3221 and R-4070, respectively, to permit the disposal of water produced by said well in an unlined surface pit and to flare gas produced by said well.

CASE 3709: (Reopened)

In the matter of Case 3709 being reopened pursuant to the provisions of Order No. R-3366-A, which order extended 80-acre spacing units for the Akah Nez-Devonian Oil Pool, San Juan County, New Mexico, for a period of two years. All interested persons may appear and show cause why said pocl should not be developed on 40-acre spacing units.

REQUEST FOR THE EXTENSION OF AN EXISTING POOL

OR

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THE CREATION OF A NEW POOL

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O: The Oil Conservation Commission State of New Mexico			
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BEFORE EXAMINER NUTTER
CEL CONSERVATION C
Eastland EXHIBIT NO
CASE NO. 4479

NEW MEXICO OIL CONSERVATION COMMISSION APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

Form C-109 Adopted 9-1-66

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509. If discovery is claimed for more than one zone, separate forms must be filed for each.

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NAME	ADDRESS				
Union Texas Petroleum	1300 Hilco Bldg., Missand, Texas 79701				
Canadian Kenwood Company	414 Kennedy Bldg., Tulsa, Okla. 74103				
Tamarack Petroleum Co., Inc.	710 Bldg. of SN, Hidland, Texas 79701				
Atlantic Michfield Company	Box 1610, ARGO Budge, Midland, Texas 79701				
Nobil Oil Company	Dox 633, Midlend, Texas 79701				
Cities Service Oil Company	Pox 69, Hobbs, New Mexico 88240				
A. Lansdelo Hondo Production Company	P. O. Box 68, Garden Grove, Calif. 92642 Box 779, Paspa; Texas 79065				

Attach evidence that ull of the above operators have been furnished a copy of this application. Any of said operators who intends to object to the designation of the subject well as a discovery well, eligible to receive a discovery allowable, must notify the appropriate District Office and the Santa Fe Office of the Commission of such intent in writing within ten days after receiving a copy of this application.

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 BEFORE EXAMINED NILLER	
D. C.K. FWARE	
MARDAVALON C	
Eastlad EXHIST NO. 2	

CERTIFICATION CASE NO. 1479

Remarks:

George Scheal Vide Floredent 1231-70 Signature Position Date

RESERVOIR DATA

Proposed Power Grayburg San Andres Pool Eddy County, New Mexico

- 1. <u>Average Porosity:</u> Grayburg Sand - 14 percent San Andres Line - 9 percent
- 2. <u>Water Saturations:</u> Grayburg Sand - 38 percent San Andres Lime - 30 percent
- 3. <u>Gas Oil Contact:</u> No gas cap present

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- 4. <u>Water Oil Contact:</u> <u>Urayburg - +158'ss (ARCO Fed. #2)</u> San Andres - Not determined.
- 5. <u>Net Oil Pay Thickness:</u> Grayburg - 21' San Andres - 6'
- 6. Gravity of Oil: 38.6° 3 60° F. (Grayburg)
- 7. <u>Gravity of Gas:</u> 0.83 (Grayburg)
- 8. <u>Pressure. Original:</u> 1136 psi measured in ARCO Fed. #1 © test depth of 3462', 8-29-70
- 9. Bottom-bole Temp.: 94 F.
- 10. <u>Source of Reservoir Energy</u>: Depletion type drive
- 12. Type of Trap: Low relief anticline with east-west axis

BEFORE EXAMINER NUTTER
CONSERVATION COULD
Eastland EXHIUIT NO. 7
CASE NO. 4479

PRODUCTION TESTS

Proposed Power Grayburg San Andres Pool Eddy County, New Mexico

Grayburg Sand

1. 1. 1. 1. 1. 1. 1.

ARCO Fed. #1 - Flowed <u>86.62</u> bbls. of oil and <u>8</u> bbls. water in 24 hours Dec. 19, 1970, 8/64* choke. TP 700 psi, CP 850 psi, Cas volume 246 MCF/day - GOR 2850

- Allied Fed. #1 Flowed <u>55.3</u> bbls. of oil and <u>6</u> bbls. water in 24 hours Dec. 22, 1970, 16/64" choke. TP 250 pai, CP 450 psi, Gas volume 186 MCF/day. - GOR 3370
- Kennood Fed. #1 Flowed <u>88.2</u> bbls. of oil, <u>9.8</u> bbls. of water in 24 hours, Dec. 31, 1970, 11/04" choke. TP 275, CP 475, Gas volume 342 MCF/day - GOR 3880

San Andres Line

ARCO Fed. #1 - Swabbed 1-1/2 bbls. fluid per hour on 8 hour test - 50 per cent oil after 3,000 gals. acid. Perforations 3626 - 3632 feet (8-16-70)
Allied Fed. #1 - Swabbed 4.3 bbls. fluid per hour on 8 hour test - 30 per cent oil after 5,000 gals. acid. Perforations 3603 - 3831 feet (10-6-70)

BEFORE EXAMINER NUTTER
TO DONSERVATION COMMUNICATION
Eastland EXHIBIT NO. 8
CASE NO. <u>4479</u>

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF EASTLAND OIL COMPANY FOR CREATION OF A NEW POOL, ASSIGNMENT OF DISCOVERY ALLOWABLE, AND ADOPTION OF POOL RULES, EDDY COUNTY, NEW MEXICO.

Care 4479

<u>A P P L I C A T I O N</u>

Comes now Eastland Oil Company and applies to the Oil Conservation Commission of New Mexico for creation of a new oil pool for production of oil from the Grayburg-San Andres formation, in Eddy County, New Mexico, for assignment of a discovery allowable to applicant's Arco Federal Well No. 1, located in the NW/4 NW/4 of Section 5, Township 18 South, Range 31 East, N.M.P.M., Eddy County, New Mexico, and for adoption of pool rules to provide for a limiting gas-oil ratic of 5000 to one, and in support thereof would show the Commission:

1. Applicant has completed its Arco Federal well No.1 for production from the Grayburg formation, which well is producing as a top allowable well with a gas-oil ratio of 3,500 to one; applicant has also completed its Alliet Federal No. 1, located in the NE/4 NE/4 of Section 6, Township 18 South, Range 31 East, for production from the Crayburg formation with a gas-oil ratio of 5,000 to one. Applicant is of the opinion that the San Andres formation is likewise productive, and that the Grayburg and San Andres formations constitute a common source of supply and constitute a new pool, discovered by the Arco Federal Well No. 1. A discovery allowable should be assigned to the Arco Federal

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Well No. 1, as provided by the Commission rules.

2. A gas contract has been signed, and a market for produced gas will be available in the immediate future.

3. Production of oil with a limiting GOR of 5,000 to one will not cause any damage to the reservoir, will not cause waste, and is in the interests of conservation and the prevention of waste.

4. Applicant proposes that said pool be designated as the "Power Grayburg-San Andres Pool" or such other name as the Commission may determine.

WHEREFORE applicant prays that this application be set for hearing before the Commission or the Commission's duly appointed examiner, and that after notice and hearing as provided by law, the Commission enter its order granting this application as prayed for.

> Respectfully submitted, EASTLAND OIL COMPANY

tason w. Kellahim KELLAHIN & FOX By_c

RELLAHIN & FOX P. O. Box 1769 Santa Fe, New Mexico 87501 ATTORNEYS FOR APPLICANT

-2-

DRAFT GMH/esr

(2)

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:

VR Standard

RECORDS CENTER

Order No. R-403

NOMENCLATURE

4479

APPLICATION OF EASTLAND OIL COMPANY FOR 19E CREATION OF A NEW POOL, ASSIGN-MENT OF DISCOVERY ALLOWABLE, AND SPECIAL POOL RULES, EDDY COUNTY, NEW MEXICO.

ASE NO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on <u>January 6</u>, 1971, at Santa Fe, New Mexico, before Examiner <u>Daniel S. Nutter</u>

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NOW, on this ______day of <u>January</u>, 1971, the Commission, a guorum 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 the applicant, Eastland Oil Company, seeks the creation of a new pool for the production of oil from the Grayburg and San Andres formations in Eddy County, New Mexico, and the assignment of an oil discovery allowable to the discovery well.

(3) That the applicant further seeks the establishment of

a gas-oil ratio limitation of 5,000 cubic feet of gas per barrel of oil produced for the subject well.

(4) That the evidence presently available indicates that the Eastland Oil Company Arco Federal Well No. 1, located in the NW/4 NW/4 of Section 5, Township 18 South, Range 31 East, NMPM,

-2-CASE No. 4479

Eddy County, New Mexico, having its top perforations at **340** feet, has discovered a separate common source of supply which should be designated the **Courty May Aug Derive Pool**; that the vertical limits of said pool should be the Grayburg and San Andres formations, as found in the interval from ________ feet to ______ feet on the log of the aforesaid hree Federal Well-No.-1, and that the horizontal limits of said pool should comprise the following-described lands:

EDDY COUNTY, NEW MEXICO <u>TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM</u> Lecture 5: NW14 NW14 Lecture 6: N/2 NE/4 and NE/4 NW14

(5) That the discovery well for said pool, the aforesaid Eastland Oil Company's Arco Federal Well No. 1, is entitled to and should receive a bonus discovery oil allowable in the amount of **[7050** barrels, based upon the top perforations in said well at **3440** feet, to be assigned over a two-year period.

(6) That the reservoir characteristics of the subject pool presently available justify the establishment of a gas-oil ratio limitation of 5,000 cubic feet of gas per barrel of oil.

(7) That the establishment of a special gas-oil ratio limitation of cubic feet of gas for each barrel of oil will afford to the owner of each property in the subject pool the opportunity to produce his just and equicable share of the oil and gas and will not cause waste nor violate correlative rights, provided the flaring or venting of gas in the pool is prohibited.

(8) That in order to assure the protection of correlative rights, the operator of each well in the own Ma Pool should file a new gas-oil ratio

-3-CASE No. 4479

test with the Commission's Artesia Office on or before **Johney** 1971.

IT IS THEREFORE ORDERED:

(1) That **effective 1071**, a new pool in Eddy County, New Mexico, classified as an oil pool for the production of oil from the Grayburg and San Andres formations, is hereby created and designated the **Courts Mayburg .4.64** Pool, with vertical limits comprising the Grayburg and San Andres formations, as found in the interval from <u>fect to</u> <u>fect to</u> <u>fect</u> **1** on the log of the Eastland Oll Company Arco Federal Well No. 1, located in the NW/4 SW/4 of Section 5, Townsnip 18 South, Kange 31-Bast, NMFH, Eddy County, New Menico, and horizontal limits comprising the following-described area:

731 170 2 7 30 24 30 24 93

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM Section 5: NW14 MW14 Section 6: N/2 NE/14 ad NE/14 NW44

(2) That the discovery well, the aforesaid Eastland Oil Company Arco Federal Well No. 1, is hereby authorized an oil discovery allowable of **17050** barrels to be assigned to said well at the rate of 24 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.

(3) That, effective 1971, the limiting gas-oil ratio in the Parmer Maybury - for Andres Pool shall be 5,000 cubic feet of gas for each barrel of oil produced;

chat, affective 1071, each proration unit in the Cover Magany - An Inder Pool shall produce only

that volume of gas equivalent to 5,000 multiplied by top unit oil allowable for the pool.

(4) That the operator of each well in the **factor** Maybung - fan Andels Pool shall file a new gas-oil ratio test

-4-CASE No. 4479

Com with the Artesia District Office on or before 1971, and shall furnish a schedule of test dates to the Commission s Artesia District Office in order that the tests may be witnessed. After the effective back of this order, (5) That no gas shall be flared or vented in the former - An Andrew Pool more than 60 days after a well becins to produce or 60 days after the date of issuance (6) (4) That any operator who desires to obtain an exception to the foregoing provisions shall file an application in triplicate with the application district Office of the Oil Conservation Commission upon a form designated by the Commission. The district supervisors and hereby authorized to grant such exception whenever the granting of the exception is reasonably necessary to protect

supervisors and hereby authorized to grant such exception whenever the granting of the exception is reasonably necessary to protect correlative rights, prevent waste or prevent undue hardship on the applicant. The district supervisor shall either grant the exception within 10 days after receipt of the application or refer it to the Secretary-Director of the Commission who will advertise the matter for public hearing if a hearing is desired by the applicant.

shall be set for hearing if the operator so requests.

That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem neces-

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

()) That the effective date of the order shace be 112 , 1971.