CASE 5053:

SOUTHEASTERN NEW MEXICO NOMENCLATURE

CASE No. > 0.53Application, Transcripts, Small EKhibts



		PAGE 3
		MR. STAMETS: Call next Case 5053: Southeast
	1	MR. STAMETS: Call news
	2 n	omenclature case culling ontraction of certain pools in Eddy and Lea Counties,
	1	
	4 N	ew Mexico. MR. DERRYBERRY: My-name is Tom Derryberry, and
4.;	6]	am attorney for the Commission, and I have one witness,
	1	Tames Kapteina, to be sworn.
	8	MR. STAMETS: Are there other appearances in this
N.	9	case?
	10	MR. LINES: Farrell Lines, appearing for Michael
₹°	11	Grace. Mr. Lines?
e	12	MR. STAMETS: Will you have a witness, Mr. Lines?
CO 871(1108	13	MR. LINES: Yes.
NEW MEXICO 87103 MEXICO 87108	14	MR. STAMETS: If he will stand and be sworn at
С К К К К К К К К К К К К К К К К К К К	15	this time.
UQUERQUE. Erque, new	16	(Whereupon the witnesses in this case were sworn
0 ∩ 0 ר 0 ר	17	en masse.)
243-6691 • . Ast • AL B	18	*** * * * * *
	19	JAMES E. KAPTEINA,
1092. PHONE Ank BLDG. F	20	was called as a witness on behalf of the Oil Conservation
ם ענט עם	2	and having been already duly sworn according
. Z 0.1 4	∠ 2 2	to law, testified as follows:
209 S:MMS BLDG.		DIRECT EXAMINATION
SMMis	1216	BY MR. DERRYBERRY:
208		Q Would you state your name and position, please?

. ; te ş

€-s } ; -j

₿5-% 12%

				PAGE 4
		1	A	James E. Kapteina, petroleum engineer for the New
		2		Mexico Oil Conservation Commission.
174 172 172		3	Q	Are you prepared to make recommendations to the
-		4	1.0	Commission concerning the nomenclature of certain pools
		5		in Eddy and Lea Counties, New Mexico?
S		6	A	Yes, I am.
iate		7	Q	Are your recommendations prepared in the form of an
SOC		8		exhibit?
s as		9	A	Yes, they are prepared in the form of Exhibit One,
ier		10		paragraphs A through P.
, me		11	Q	Will you please refer to this exhibit and to the docket
nley	е С	12	·	that has been prepared and distributed at this hearing,
dearnley, meier & associates	1CO 871	13		and point out any substantial differences between the
	NEW MEX MEXICO	14		two?
	2 X 3 U U 0 Z	15	A	Yes. There are additions, two additions, to paragraph
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16		K. The first addition is Township 19 South, Range
	● ↓ ● ↓ ● ↓ ● ↓ ● ↓ ● ↓	17		25 East, Section 7, the west half. And Township 19
		- 18		South, Range 24 East, Section 12, the south half.
	ω ^ω 	19		The remainder of the exhibit is identical to that
	1092 • PHON 3 ANK BLDG	20		of the docket.
	A B C X	21	Q	Do you have anything further to add to your testimony?
	0.0 A 100.0	22	A	I recommend that the nomenclature be adopted as
	B R S T S S	23		indicated in paragraphs A through P, with the additions
	209 SIMMS 1216 F	24		just described.
San I	N	25	Q	Will you introduce your exhibit, please?

ł

PAGE 5 MR. DERRYBERRY: I move for the introduction of this exhibit, Mr. Examiner. 2 MR. STAMETS: Are there any objections? 3 MR. LINES: Where are they? I haven't seen them 5 as yet. MR. STAMETS: Off the record. б (Whereupon an off the record discussion was held.) 7 (Hearing continues.) 8 MR. STAMETS: Are there any objections to the 9 admission of this exhibit? 10 MR. LINES: At this time, I would like to only 11 object, not necessarily to the admission, but to the scope 12 UE, NEW MEXICO 87103 NEW MEXICO 87108 of the exhibits. I believe that they do not contain enough 13 to prove the kind of things that he is asking for here. 14 I don't see anything in the way of maps to show any kind 15 E 243-6601+ALBUQUERQUE. EAST +ALBUQUERQUE, NEW of fault, or anything concerning the thickness. All I see 16 is the township number and the section number and the range 17 SIMMS BLDG. P.O. BOX 1092 PHONE 243-0691 number and a green area which indicates one completed well 18 capable of producing and a discovery well. I see nothing 19 further in the way of anything concerning the terrain or 20 any kind of map to indicate the kind of things I presume 21 he would want to present in establishing a new pool at 22 this time. 23 MR. STAMETS: Is that a formal objection? 24 209 MR. LINES: Yes, it is. 25

dearnley, meier & associates

To the admission of the exhibit? MR. STAMETS: MR. LINES: Yes, it is. MR. STAMETS: The objection will be denied. (Whereupon OCC Exhibit Number One was admitted in 4 evidence.) MR. STAMETS: Are there questions of the witness? 5 6 MR. LINES: Yes. 7 8 CROSS EXAMINATION 9 BY MR. LINES: The first thing I am concerned with in your proposed 10 Q changes in the nomenclature here which in fact is 11 creating new pools, could you give me the criteria used 12 by the Commission in the creation of these new pools? 13 These two pools are more than a mile in distance from 14 A the other pools producing from the same formation or 15 16 the same source of supply. This is the only criteria used by the Commission in 17 Q 18 establishing a new pool? Normally this is applied for by the operator on Form 19 А C-123, and submitted to the District Office, and the 20 District Office then instigates this case and presents 21 22 it to the Commission. But is the only criteria used by the Commission in 23 Q awarding these new nomenclatures just the one mile 24 25

PAGE 6

dearnley, meier & associates

1

2

3

NEW MEXICO 87103 MEXICO 87108 0. 80X

OCE.

EAS

BLDG.

SIMMS BLOG. P.O.

SIMMS

	* 1		distance situation?
	2	A	Normally, yes.
	3		Okay. Let me ask you a question then. In retrospect,
:	- 4		my client, Mr. Grace, as you are probably aware of,
		5	made application himself earlier this year for the
	. (5	creation of at least two new pools on wells which were
ates		7	more than one mile distant from any other producing
SOCI	:	8	wells, and those applications were denied by the
SE			Commission.
8	C	1	I believe you were present at that time. So
dearnley, meier & associates			obviously in that case, the one mile distance had little
ley, r		11	or no bearing at all on the application. So what I
earn	5012	13	want to know then is what your position is with regard
ð	8 87 7 87	14	to your action on one hand as opposed to that action
х.	N N W W		the set hand.
	אנש 2 כ מש	15	on the other hand. A I am not familiar with the case you are speaking of,
	3 0 0 0 0 0 0 0 0 0	16	A I am not remain Mr. Grace's application.
: G	1:243-6691 - ALB EAST - ALBUQU	17	further down, are you familiar with any other
	243-66 #AST e/	18	Q Going further down, die 1 cases that may have come before the Commission on
	BLDG. E	19	application for a new pool where the Commission might
	X 1092 • BANK 1	20	have denied the new pool?
	0. 80X	21	have denied the new pre-
	⊈¥ • ⊄ Z	22	A I'm familiar Well, I'm not. I know of instances
	SIMMS BLD9 1216 FIRST	23	where pools have been dismissed as far as lack of
	209 SIMM 1216	24	sufficient study until further studies had been made.
	~	25	Q What do you mean by "lack of sufficient study"?

PAGE 7

	<i></i>	yt e	page 8
		. [MR. STAMETS: Just a minute. Mr. Kapteina, would
			at be where there were some contested points of view?
		2 th 3	THE WITNESS: Yes, usually.
		4	MR. STAMETS: By persons interested in the pool?
		5	THE WITNESS: Right.
		6 Q	(By Mr. Lines) Well, this is what I want to know. I
ates		7	asked you earlier what criteria you used, and you said
soci		8	that the only criteria was whether or not there was
& as		9	a one-mile distance, and obviously in this case, it
eier		10	is only the one-mile distance. I am only asking if there are other criteria used as well, because as you
dearnley, meier & associates		11	there are other criteria used data and are aware of, my client applied for the same type of
arnle	87103 9	12	are aware of, my offend and thing earlier in the year, and met the one-mile
qeé	EXICO 8 0 87108	13	vitoria and was denied his application.
•	N N N N N N N N N N N N N N N N N N N	14	UD CTAMETS: This is your statement at this clamet
	ค.ศ. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	15 16	We have nothing in the record on that, and we will certainly
	AL BUQUER JQUERQUE	17	to present this evidence.
	Е 243-66916A Е 2516AL BU	÷ 18	MR. LINES: I asked him just now if he knew of
	40NE 24 DG. EA	19	other cases, and he said that he did where the Commission
	X 1002. PHONE 2 BANK BLDG. E	20	had not allowed them because of a conflict in testimony. Was the conflict in testimony conflict in the one-mile
	0.80X 0.80X	21	Was the conflict in testimony of distance, or was it conflict in other areas?
	SIMMS BLDG. P.O. BO) 1216 FIRST NATIONAL	22	it was in other areas.
	SIMMS BL	23	ther words, you are conceding that in other cases,
	200 5	2	people have met the one-mile distance criteria, pac
-: -:		2	5 people

		page 9
	1	still have been denied the application?
	2	A That's correct.
<u>ن</u>	3	Q I again ask my question: What criteria do you use, does
· · · · · · · · · · · · · · · · · · ·	4	the Commission use, in granting these new pools besides
	5	the one-mile distance which you just answered was the
2	6	only criteria?
	7	A I think what you are wanting to know is the reason the
	8	pools were dismissed. This may have been because of
5 Ø	9	geological discrepancies.
5	10	Q In other words, besides the one-mile distance, you also
0 87103 0 87103	11	have geographical standards that must be met as well,
103	12	is that correct?
MEXICO 871	13	A Geological
м щ Х Х Я О Х О Х №	14	MR. STAMETS: Mr. Kapteina, possibly I could ask
ΣΣ 	15	you a few questions to clarify these points about the
100 100 100 100 100 100 100 100 100 100	16	nomenclature procedure.
1●ALBU BUQUE	.17	The recommendations for pool extensions originate
243-660 A\$7 • Al	18	in the District Office, is that correct?
TOONE LOG. R	19	THE WITNESS: Yes.
1092 € F 3 A 'K B	20	MR. STAMETS: For the district in which the well
" ■ C ■ C ■ C ■ C ■ C	21	is located?
	22	THE WITNESS: Correct.
200 SIMMS BLDC.• P.O. BOX 1002.•PHONE 243-0601 1216 First National Ba'k Bldg. Eas?.•Al	23	MR. STAMETS: And they make these applications
209 SIN	24	based on their knowledge of the geological formations, the
	25	geography, the location of wells producing from the same

 $\langle \rangle$

dearnley, meier & associates

			PAGE 10
· · · ·			1 formations in the district, is that correct?
	• • • • • • • •	م. ۱	2 THE WITNESS: Yes, sir.
			3 MR. STAMETS: They make these recommendations
;	н., т -	-	based on their past experience with similar wells, similar
-	artî A	Į	pools, and similar situations in their district, is that
	S	6	correct?
	assuciales	7	THE WITNESS: That's correct.
		8	
Q	y	z., 9	past on regular nomenclature cases, and cases have been
Pipr	3	10	dismissed to allow further study by the concerned operators
8		11	in the affected pools, is that correct?
dearnlev meier	6	12	THE WITNESS: Yes, sir.
dea	41CO 87 87108	13	MR. STAMETS: Now, does that clarify the situation?
	χ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ	14	MR. LINES: Well, it clarifies that there is more
	л Т Т Т Т Т Т Т Т Т Т Т Т Т Т Т Т Т Т Т	15	than one criteria. Now, I would like the witness to tell
1	р С Ш С Ш С С С С С С С С С С С С С С С	16	me what other kinds of criteria are in fact used by the
	0 0 0 0 0 0 0 0 0 0 0 0 0	17	Commission, or are considered by the
	E 243•6091● 4 EAST●ALBL	18	Commission, or are considered by the Commission in determining whether or not there will be the
	ОN 11 24 16. Е A 3	19	whether or not there will be the granting of the nomenclature or a new field formed.
	1002 • PHON Ank Bldc.	20	
	. 0		MR. STAMETS: You mean other than those we have just covered.
	70. 10.		
	а 2 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3	22	MR. LINES: Other than the one-mile distance.
	51MMS	23	MR. STAMETS: We just got through going through
	500	24 ^a	series of three or four questions
	. 2	25	MR. LINES: But there was nothing specific.

1-9

-1~€ 1-¥

	,		PAGE 11
	1		THE WITNESS: What do you mean nothing specific?
	2	Why	don't you be more specific?
	3	Q	(By Mr. Lines) In this case, all you indicate is there
	4		is one other well within the area, and no other wells
	5		for a mile distance. What other type of geological
	6	107 m	criteria have you used in this case to determine whether
ţ.	7		or not a new pool should be granted?
	8	A	It's produced from the Morrow, the formation itself
	9		is known, there is production there, and it is known
	10		that the pool is necessary.
	11	Q	Why shouldn't it be continued as part of the Morrow pool?
87103 8	12	A	It's four miles away from the Morrow pool in one
IEXICO 87 10 87108	13		instance, and it's four and a half miles in the other
RX AC	14		instance.
2 X . 3 10 W 	15	Q	Have there been other applications that have come before
LOUER FROUE	16		the Commission that have been four miles from another
1●ALBU .BUQUE	17		well and that have been denied?
243-6691	18	A	Not to my knowledge.
2 3 0 0	19	Q	Have there been others more than one mile away that
X 1092 PH	20		have been denied?
0. 80 X 0 N A L 8	21	A	Not to my knowledge.
06.4 P.O. 80) T NATIONAL	22	Q	You just told me a while ago that there had been.
SIMMS BLOG 1216 FIRST	23	A	I said that they were dismissed until a further study
200 SIMMS 1210 F	24		could be made. They may have then been brought up
	25		in subsequent cases and approved.

. بر من

		PAGE 12
·		Then you do know of other cases where they might have
1 Q		been one to four miles away from the existing pool
3		and the petition was dismissed by the Commission?
4 1	A A	That Is what I just said.
5	Q	What criteria might have been used then, other than the
6	÷	fact they were four miles away?
7	A	I have already answered your question. In the first
8		place, there may have been a conflict due to a
9		geological reason as to what was produced from the
10		formations. The only thing that would have been
2		contested would be whether or not one geologist says
11		it is in the Morrow or in some other formation.
12		whore do you find this here?
13 14	Q	the not saving it is anywhere. I'm going according
: × 4 W 2 X		to the way the man's application might be stated, and
.≩ 15 วิวิ ชั		the way the district decision went.
มัก 16 กระม กระม กระม กระม กระม กระม กระม กระม		this particular case, where in your exhibit does
а 243-0601-04 Сана сазта Аса Сана сазта Аса Сана сазта Сана сазта созта соз сазта соз соз соз соз соз соз соз соз соз соз		the applicant say this comes from?
ра 1 1 1	9	The Morrow formation.
0 H 0 0 L 0		Q Do you have any evidence of your own that it comes
60 X 10	21	from the Morrow formation?
О. Ц Ф Ч О. Ц Ф	22	A What do you mean by that?
BLOG. RST Z	23	A What up you have any geological proof or evidence that it Q Do you have any geological proof or evidence that it
SIMMS 1216 F	24	comes from the Morrow formation?
209		A I don't have any proof it does not. Do you?
	25	

		PAGE 13
	1	Q I am asking the questions.
ī	2	A You are the one who is objecting.
	3	Q Your testimony was in favor of the application, and I
-	4	am asking you what information you are using.
_	5	MR. CARR: I object to this line of questioning.
	.6	If Mr. Grace has some evidence, he can put it on. If not,
· · · · · · · · · · · · · · · · · · ·	7	they are obviously on a fishing expedition.
	8	MR. LINES: I am not on a fishing expedition, Mr.
	9	Commissioner, I really want to know at this stage what the
	10	Commission uses in determining whether there should be a
	11	new pool. I have established that it should be at least
ŝ	12	one mile distant from the next pool and that there have to
NEW MEXICO 87103 MEXICO 87108	13	be certain geological criteria. I guess I really want to
EX MEX	14	know what kind of geological criteria the Commission uses,
2 X 3 X 4 4 2 Z 2 Z	15	and what other kinds of things the Commission would decide
JOUEROUE.	16	in determining when a new pool should or should not come
A C C C C C C	17	into existence.
1092 • PHONE 243-6601 • Jank BLDG. East • Alb	18	I think this is more than just a fishing expedition.
LON R LON R LON R	19	My client has land in both of these areas, so he will be
1092 0 PI	20	materially affected if the Commission approves this
N BOX	21	nomenclature. I feel my client needs to know the exact
SIMMS &LOG. + P.O. BOX Izigfirst national B	22	criteria used by the Commission in determining when a new
MS &LO 5 FIRST	23	pool should be created.
209 SIMMS	24	I might ask, Mr. Commissioner, whether you have

25

any form that you use, or any written guidelines.

		PAGE 14
	1	MR. STAMETS: Let's go off the record for just
	2	a second here.
	3	(Whereupon an off the record discussion was held.)
	4	(Hearing continues.)
	5	MR. STAMETS: Back on the record.
(A)=	6	THE_WITNESS:I_don't_think_that_that_is_necessary
iate	7	I think the only thing that is necessary is the fact that
SOC	8	there is a well produced from the formation, and that there
s as	9	is production, and that it is a mile away from a pool, and
ier 8	10	for information purposes, production history and other
, me	11	history is required by the Commission. That's all that is
dearnley, meier & associates	s 12	necessary.
	0 13	It has been established that there is production,
	ж № 00 № 14 № 14	it has been established that there is a well there, and it
• • • • •	ωω z Σ ωω 15	has been established that there is no pool within a mile
	σ 2 2 2 3 2 3 2 16 3 2 16	of this pool. Therefore, there is no other determining
		factors necessary, and the operator has submitted a Form
	18 18	C-123 asking that the pool be established, and he has
	толе 19	established that there is production, and that's all that
		is necessary.
		This is according to the rules and regulations.
	0 0 4 ⊬ • Z 22	MR. LINES: Does the Examiner agree with that?
	SIMMS BLDG P.O. BOX 1002. PHONE 243.6091. ALBU 1210 FIRST NATIONAL BANK BLDG. EAST.ALBUQUE 12 02 15 16 16 18 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10	MR. STAMETS: The Examiner is not a witness in
	NWIS 002 24	this case. I don't really see any particular benefit by
	• •	

e ve

	-	PAGE 15
·	······	fer, if you have a witness present, to show why these
	1 pre	fer, if you have a witness present,
- 	2 poo	is should not be created, that we hear your witness, and
	3 the	en we may all wish to recall Mr. Kapteina and go over
2-	•	tionlar points.
	4 the	ND LINES: Let me ask another question, II I magnet
	6 Q	(Due Mr. Lines) I think you indicated, number one, that
tes	7	you have to have a well more than a mile away, and it
ocia	8	has to be in production. Is the Morris R. Antweil
SS		Randall Well No. 1 in production?
learnley, meier & associates	9	and not say it had to be in production. I said that
eie	10 A	
Ē	11	production was there.
e V	12	MR. STAMETS: It had to be capable of producing.
arn	2012	(By Mr. Lines) What is the capability at the present
đ		time of the Antweil Well?
	X ₩ ZΣ	A I am not familiar
	. ≩ 15 ⊎ ⊎ 15 ⊃ Z g . ⊎	MR. STAMETS: This would be reflected in the
	ช่าว 16 วชช วชช	Commission records, would it not, Mr. Kapteina?
		THE WITNESS: Yes, it would.
	6 5 7 5 6 7 8 6 8 6 8 7	MR. LINES: Do we have that available at the
	и 200 11 10 11 10	then?
	2001 Y 20	present time then? MR. STAMETS: It could be made available, yes.
-	SIMMS BLOG. B. S.	MR. LINES: Okay. THE WITNESS: This is the only exhibit I have.
	C188 23	THE WITNESS: This is the true indicated
		(By Mr. Lines) My further question is you inter
	24	that there had to be a well that had some kind of
	2	5 Chat choire

4

./∰ %{

			PAGE 16
		1	production capacity, and I'm only asking what is the
		2	present production capacity of the Antweil Randall Well?
		3	A I am not familiar with it.
		4	MR. STAMETS: Does this conclude your cross
1		5	examination at this time?
sin an Si		δ	MR. LINES: I just asked if he could produce that.
associates		7	MR. STAMETS: And you got no response?
SOC		8	THE WITNESS: No, you did not ask that question.
& as		9	You asked if I knew it, and I said no, I wasn't familiar
ier 8	•*	10	with it. The information is available in the Commission
, me		11	records.
nley	n O	12	Q (By Mr. Lines) Could it be produced at this hearing as
dearnley, meier	87108	13	an exhibit?
	မ်စ	14	A If you wish to produce it as an exhibit, that is your
i i	22 .3 .3	15	privilege.
		16	Q You stated earlier the way things are considered through
	10 10 10 10	17	the district level, and you said that it had to be
	3-6691	18	defined or determined that there was a well that had
	00 E 24	19	been drilled, and that there is some kind of production
Ĺ	002 • PT	20	capability that has been determined for that well in
	~ ₹ 0 ↓ 7	21	this case. I will now resume
	o o i i i i i i i i i i i i i i i i i i	22	MR. STAMETS: Mr. Lines, this entire line of
	209 SIMMS BLDC. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQU 1216 FIRST NATIONAL SANK BLDC. EAST • ALBUQUERQUIL N	23	questioning is wasting a tremendous amount of time and adding
	1210 SIMA	24	a lot to the record that is unnecessary. The Commission
•	NI	25	can and will produce any exhibit which you would like to

\$

ç

		PACE 17
	1	have from the well file and make it available as soon as
	2	we can. Is that satisfactory?
	- 3	MR. LINES: Yes.
	4	MR. STAMETS: How soon would you like to have the
	5	information?
	6	MRLINES:-Some-time-before-a-determination-is
iate	7	made.
SOC	8	MR. STAMETS: Do you mean you would just like this
С С С	9	admitted into the record? You don't care if you examine
ier	10	it at this time?
, me	11	MR. LINES: We would like to examine it and have
"nley"	12	it admitted into the record.
dearnley, meier & associates	13	MR. CARR: Do you intend to call a witness?
de: меw мехісо е мехісо в7108	14	MR. LINES: Yes, we do. Do you have any idea,
ע איז א ש ט ע ג	15	Mr. Carr, when we might get that information?
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16	MR. STAMETS: Jim, could you ask Una to pull the
bii ⊂ , c_ 00 , c ↓ , c	17	files and to make copies of the 105's and 122's?
243-6601 .43T • A L	18	THE WITNESS: Yes.
	19	MR. STAMETS: The witness may be excused. He may
80,Х 1092,ФРНОИ Е Аг Валк Вгоб. 6	20	be recalled later.
ם אם ב	21	(Witness excused.)
96.0 P.O. 800	22	MR. STAMETS: Mr. Lines, do you have a witness
SIMMS BLDG.• 1210 FIRST NA	23	to present at this time?
209 SIMI	24	MR. LINES: Yes, Mr. Dale Carlson.
	25	* * * *

، به فيدهم

		PAGE 18	·····
· · · · · · · · · · · · · · · · · · ·	1	DALE CARLSON,	
	2	was called as a witness, and having been already duly sworn	
	3	according to law, testified as follows:	
	4	DIRECT EXAMINATION	
1. 	5	BY MR. LINES:	-
5	6	Q Would you state your name?	
iati	7	A Dale Carlson.	· · ·
associates)))))	Q And your occupation?	
		A Geologist for Mr. Grace.	
dearnlev meier æ	10	Q Have you had occasion to work for or with Mr. Grace in	
E S	11) 	this South Morrow area being discussed here today?	
rnle	<u> </u>	A Yes, I have, for about two year.	
dea	13 00120 13	Q Have you had occasion to review the situation concerning	
	х шо хо хо 14 ши	the wells in production in these areas?	
	z x 	A Yes, I have.	
	ช พ.ศ. มาว วาช 16	MR. STAMETS: In the two areas in question?	
	лала алала • а 17	THE WITNESS: In the South Carlsbad field, yes.	
	17 • 17 • 18 • 18	MR. STAMETS: The South Carlsbad field?	T -
	× ⁷ ¹ ² ² ³ ³ ³ ¹ ¹ ² ³ ³ ³ ¹ ³ ¹ ³ ³ ¹ ³ ¹ ³ ¹ ³ ¹ ³ ¹ ³ ¹ ³ ¹ ³ ¹ ³ ¹ ³ ¹ ¹ ¹ ¹ ¹ ¹ ¹ ¹	THE WITNESS: Yes.	e de la companya. A companya de la comp
		MR. STAMETS: I presume you will show some	
• •	~ ≪ × ∞ ∞ ⊰ 21	relationship between the South Carlsbad field and this area?	
		MR. LINES: Yes.	
	SIMMIS BLOO	Q (By Mr. Lines) Have you had occasion to do any work,	
	WIS 007 24	observations or studies in the Happy Valley and	<i>!</i>
	25	LaHuerta areas?	

ģ

iv] .1

PAGE 18

PAGE 19 1 À Yes, I have. Perhaps we ought to take them one at a time. I would 2 Q like for you first to indicate to us whether you have 3 any maps with you today. MR. STAMETS: Mr. Lines, has this witness ever 5 been accepted as an expert by the Commission? 6dearnley, meier & associates 7 THE WITNESS: Yes, I have testified. 8 MR. STAMETS: Ckay. MR. LINES: I'm sorry I failed to ask that. 9 (By Mr. Lines) Do you have a map here with you, Mr. 10 Q 11 Carlson, that you have prepared -- that you know has been prepared that would show the oil situation in that 12 NEW MEXICO 37103 MEXICO 37108 area? 13 Yes, I do. Α 14 Could you use that map to indicate a little bit to us ¥ ₹ Q 15 NOUEROUE. ERQUE. concerning your observations in the areas of Happy 16 Valley and LaHuerta? 17 MR. STAMETS: Will this map be presented as an 18 exhibit? 19 MR. LINES: Yes, it will. 2û BOX ALX This is a map showing a series of structure contours--A 21 51MMS BLOG. P.O. MR. STAMETS: Do you have a copy of that exhibit 22 for the Examiner? 23 MR. LINES: This is the original, and we will 24 209 see that one is provided. 25

			PAGE 20
		1	MR. STAMETS: The Examiner needs a copy in order
	5.	2	to follow along. I need one while he is discussing the
		3	situation in order to evaluate his testimony.
	• •	4	MR. LINES: I would suggest, Mr. Carlson, that
	-	5	you come down here by the Commissioner so that he can review
S		6	our map with us.
iate		7	MR. CARR: Can I ask one question? Mr. Carlson,
SOC		8	you were asked a question concerning whether this map would
k K K		9	reflect the oil situation in the area.
dearnley, meier & associates	4	10	THE WITNESS: It has a bearing on the oil situation.
/, mg		11	MR. CARR: Is this an oil area?
'nle)	e O	12	THE WITNESS: It is a gas producing area.
dear	100.871 17108	13	MR. LINES: If I said oil, I meant to say gas.
	X 9 2 0 3 X	14	Q (By Mr. Lines) I would like you to outline for the
	2 X .X 	15	Examiner Let's start in the LaHuerta area where the
	А С С С С С С С С С С С С С	16	present wells are.
	• 8 • 4 • 6 • 8	17	A This well located in Section 28 is the one the Commission
	249-6691 :asteal	18	is using in the LaHuerta area. This well in Section
	ш. С. С. С.	19	34 is the one being used in the Happy Valley area.
	1092 • PH	20	Q Do you have reason to believe in either or both of
	~ ~	21	these areas that there might be some kind of interflow
	G. + P.O. BO	22	and connection with the present wells in the present
	SIMMS BLDG.	23	pool?
	209 SIM 121	24	MR. STAMETS: Which present pool? Would you
		25	clarify that?

PAGE 21 1 Q (By Mr. Lines) The pools these are being taken from. 2 They are not being taken --Α **3**° From the pools they are closest to. Q 4 They are closest to the South Carlsbad field, and there Α 5 is-- I have drawn in here a fault between the two, but б there is no direct evidence this is a barrier to dearnley, meier & associates 7 communication between these areas and the South Carlsbad field. 8 The exact placement of the fault is not known. 9 It is not known whether the fault actually presents 10 a barrier between this and the South Carlsbad field. 11 More specifically, in the Mappy Valley area here, do 12 Q MEXICO 8 you have reason to believe there might be a flow 13 situation that might go up through this area here 14 (indicating)? 15 There well could be. Α 16 What kind of studies have you done that might indicate Q 17. that to you? 18 EAST The fact that the wells are producing from the same Α 19 BLDG. formation, and the fact that this pool has already X 1092 20 x 0 8 6.0 P.O. BOX gone for a considerable distance in this direction. 21 There is no particular reason for drawing a line and 22 saying this does not communicate with this (indicating) 23 at this present stage. 24 There is no information at the present time to 25

cite in order to support or not support this particular communication between the two. You can't tell at this stage, without more wells in between, whether they connect or not.

The same situation would have existed if the northern wells in the South Carlsbad field had been drilled and the southern wells had been drilled with no drilling in between. You would have had a great deal more than four miles separation between the two. but still the Commission has declared them all part of the same field.

Are there wells in this area more than four miles apart still considered within the same pool?

Yes.

Is it your testimony that more study should be made in the area to determine whether in fact these are continuous?

I would think so, because a lot of this area up here is structurally higher than the area down here (indicating), and the wells down here (indicating) could well be draining the wells to the south. On the overall pressure in the field, if there is communication between the two, they would affect each other.

Q Do you know of any maps, or have you seen any in

dearnley, meier & associates

1

2

3

4

5

б

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q

Α

Q

A

20% SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE. NEW MEXICO 67103 1216 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108

F

£5.94

100

PAGE 22

-		PAGE 23
· ·	1	existence that would indicate conclusively that there
	2	is in fact a complete sealing here that would preclude
	3	any thought or any speculation that there might in
	- 4	fact be drainage from one field to another?
	5	A No, I don't. The final test of this, of course, is
S	6	going to be the wells drilled in between which may or
associates	7	may not prove it is continuous all the way through.
SSO(8	But the wells in between have not yet been drilled.
the second se	9	But at present, I can see no reason for saying there is
sier	10	no communication between here.
) M	11	MR. LINES: I have no further questions. At this
learnley, meier &	12	time, I will move for the introduction of our exhibit.
deal deal	13	MR. STAMETS: Without objection, Objector's Exhibit
Σ Σ Σ Σ Σ	14	Number One will be admitted in evidence.
ະ 2 ອັ . ຂ ບິຜິ 2 ຂ	15	(Whereupon Grace Exhibit Number One was admitted
0 2 2 0 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16	in evidence.)
	17	MR. STAMETS: Are there questions of this witness?
3-6691• 51•∧∟	18	MR. CARR: Yes.
년 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	19	$\frac{1}{2} = \frac{1}{2} \left[\frac{1}{2} + 1$
		CROSS EXAMINATION
0 0000 V 1000 V	20	BY MR. CARR:
2.0 2.4 2.4 1.0 2.4 1.0 2.4 1.0 2.4 1.0 2.4 1.0 2.4 1.0 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	21	
8 6 7 8 4 7 7 8	22	
SIMMS BLD	23	Oil Conservation Commission Rules and Regulations which
200 8	24	stakes out the basic provisions for this type of pool
	25	creation?

()

				PAGE 24
	10 M	1	A	In a general way, yes. I have heard them here.
		2	Q	You heard the discussion this morning earlier in this
	, ÷	3	-	proceeding?
		4	A	Yes.
		5	Q	Now, you are here representing Mr. Grace who is protesting
S	<mark>. *</mark>	6	A	the creation of certain pools in Eddy County, New Mexico,
iate	:	7	•	is that correct?
associates		8	A	That's correct.
б Хо		9	Q	If you would, please, we would like you to relate your
dearnley, meier &	1	10		objection to the rules of the Commission, and explain
/ m(1	11		what you are bringing to the Commission consistent
nley	<u></u>	12		with the rules upon which we could consider your
deal	10 877	13		protest.
-	~ ~	14	A	I am not objecting. I am acting as a witness for the
	ພ 2 X ພ ພ 2 Z	15		person who is objecting.
2	0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	16	Q	Then it would be correct to say that you know of no
	• • • • • • •	17		way the application before the Commission conflicts
	G. = P.O. BOX 1092 = РНОИЕ 243-6661 = АГВ. National Bank Blog. East = Albuqui	18		with the responsibilities imposed on the Commission
	HONE 2	19		by statute?
	1092 • P Ank Bl	20	A	Would you run through that again, barefooted and slowly?
	0. 00 X	21	Q	Then you know of no basis that the Commission could
	0.0 P.O	22		rely on for denying the creation of these new pools?
	SIMMS BLDC 1216 FIRST	23		MR. LINES: I object to that. He is asking him
•	209 SIM 121	24	law	and policy rather than what he testified to on direct
	÷.	25	exan	nination. If he wants to ask questions pertaining to

the field and his testimony concerning the map, I have no 1 2 objection. MR. CARR: Well, I just find it interesting that 3 Mr. Carlson is an expert, and yet is unaware of the rules 4 of the Commission. 5 (By Mr. Carr) You stated that ---6 Q MR. STAMETS: I presume you have withdrawn your 7 question? 8 MR. CARR: I think the answer is obvious. 9 MR. LINES: I ask that that be withdrawn because 10 it is argumentative. 11 (By Mr. Carr) Did you state that you were aware of 12 Q areas in which there are wells more than four miles 13 apart included within the same pool? 14 Α. Yes. 15 Did you intend to imply that there were no wells closer Q 16 or within these wells? 17 No. Α 18 In other words, there is not an instance, to your Q 19 knowledge, where there are wells with nothing in between 20 that are four miles apart that are included within 21 the same pool? 22 Not that I know of at present, no. Α., 23 Thank you. You mentioned that there was no way at Q 24 the present time, in view of present development, to 25

dearnley, meier & associates

SIMMS BLDG. P.O. BOX 1092. PHONE 1216 FIRST NATIONAL BANK BLDG. E

209

PAGE 25

				PAGE 26
		1		tell whether the areas we are considering placing
11-1 11-1 11-1 11-1 1-1 1-1 1-1 1-1 1-1	.	2		in new pools, if these are in communication with the
		3	<i></i>	South Carlsbad Morrow; is that correct?
		4	A	Yes.
- 		5	Q	Do you have any information which would indicate that
ŝ	···	6		they are in communication?
Clat	¢.	7	А	I have no information to indicate that they are or that
associates		8	-	they are not.
õð		9	Q	In other words, you are requesting that this application
learnley, meler	2	10		be denied until there is further development in the
۳ ۲		11		area, is that correct?
rne	103	12	A 🤤	I am not requesting anything, I am simply acting as
dea	XICO 87 87108	13		a witness for Mr. Grace.
	EXICO	14	Q	But
	2 X W W Z Z Q Z	15	A	What I do say is this. That if they are in
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16		communication, it would be logical for them to be
	1●ALBÚ LBUQUR	17		treated as the same unit rather than as separate units,
A	P.O. BOX 1092+PHONE 243:6691 Tional Bank Bldg. East-Al	18		because one would have a direct bearing on the other.
,	LDC. E	19	۰Q	Are you aware that if communication was approved at
	1092 • F 3 A N K B	20		a later date that this would be included in the same
	0. 80 X 0 N A L R	21		pool?
	0 4 7 • 7 • 7	22	A	It could be done, yes.
	209 SIMMS BLDC.e P.O. BOX 1092 ePHONE 243-6691 eALBU 1216 FIRST NATIONAL BANK BLDC. EAST eALBUGUE	23	Q	Wouldn't that in effect take care of any possible
	209 SIN	- 24		communication which was later discovered if there is
	÷	25		such communication?

			PAGE 27
		1	A If it is done.
		2	MR. CARR: I have no further questions.
. i.		3	
<u>,</u>		4	CROSS EXAMINATION
1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		5	BY MR. STAMETS:
S		6	Q Mr. Carlson, how could the creation of these two pools
iate	<u>í</u>	7	affect the South Carlsbad pool or Mr. Grace?
SOC		8	A Well, he has a number of very good wells in the extreme
& 90		9	north end of the pool, which is the end we are concerned
learnley, meier & associates		10	with. A heavy drain by the wells to the north could
, me	5	11	have an adverse effect on his wells, of course, and
nle)	ŝ	12	could be damaging to him in the long run if the rules
dear	1CO 871 17108	13	that are used in the northern part are different from
	EXICO B	14	the rules used in the southern part.
	2 X X X W W X X X X X X X	15	Q Okay, what you have said here is that heavy drainage,
5	с в 2 С Е 2 С Е 2	16	a high rate of production, from these two pools could
	● ▲ L B U D L B U D U E A L B U D U E A L	17	adversely affect Mr. Grace if there was connection
	-6691 T • A L	18	between them and the South Carlsbad field?
	PHONE 243 BLOG. EAS	19	A That's right.
	X 1092 • PI	20	Q What is the productive capacity of the well in each
	N AC BOX	21	of these proposed pools?
	6. P.O. BOX	22	A I don't know what the productive capacity is in these
	8 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	23	up here. We asked for this information, but we do
	209 SIMMS 1216 F	24	not have it yet.
		25	Q In other words, the wells might be very low marginal

e.

			PAGE 28
		1	wells and could in no way affect the pool to the south?
		2 A	This is true.
		3 Q	But you don't know that?
	ه هد. د	4 À	I don't know that.
		5 Q	So part of what you base this on is information which
es	, i	6	you just don't know?
ciat	2	7 A	Right.
dearnley, meier & associates	8	Q	How far from the pool boundaries of the South Carlsbad
8	9		pool would it be safe to locate a new pool, considering
eier	10		there would be no intervening wells?
۳, m	11	A	How far?
inde ins	12	Q	One mile? Two miles? Six miles? Twenty miles?
dec Exico	13	A	It depends so much on the conditions that there is no
N EXICO MEXICO	14		way to state this. It depends on the type of
₩₩ С С	15		communication. It depends on the configuration of rock,
通 し り り り り り り り し し り し し し し し し し し	16		the structure, the depth. It depends on so many things
. J Q	17		it is impossible to state.
E 243-6691.4 A E Asteal Bu	18	Q	You are telling me that you have no real way of knowing
1092 • PHONE IANK BLDG, E	19		whether it would be one mile or twenty miles? It
(1092.0 Bank e	20		would appear to me in that case that the Commission
7 10 . 80 X	21		would have to utilize its discretion and its expertise
	22		and its experience from years of doing this and
209 SIMMS BLDG 1216 FIRST (23		establish the pools as it sees fit, as it appears to
209 51	24		be required.
	25		I would say this. I would say that since you

152

٤ --- --

¥-ra

• _		
		PAGE 29
	1	asked that, I think you should use an much information
•	2	as possible, as much information as is available, in
	ти В В	making such a decision, and not base the decision
	. 4	simply on a mile limit.
	5	MR. STAMETS: Off the record.
es S	6	(Whereupon an off the record discussion was held.)
associates	7	(Hearing continues.)
SSD		MR. STAMETS: Back on the record. That's all the
မာ လ	9	questions I have. Mr. Ramey, do you have any questions?
leier	10	MR. RAMEY: No, I don't have any questions. Mr.
אַ אַ אשמי רסרעני רסרעני	. 11	Carr asked the ones I had in mind.
	5 12	(Whereupon an off the record discussion was held.)
	80148 0 13	(Hearing continues.)
		MR. STAMETS: Let's go back on the record. Mr.
		Lines, do you have anything further?
	ชั่น มาก 16 กระมา	MR. LINES: Yes, I have a few more questions for
		the witness.
	00-1- 18 84 18 7 18	* * * *
	1002 «РНОИЕ 243-6601 Анк BLDC. EAST•6101 Анк BLDC. EAST•AL	
	холуу 20 х 20	
۰, ۶	x os le 21 s os le 21 o d v y 22	
·	5 : Simms BLOC. 5	
	8 24 8 24	
	25	everything is building up. Have there been situations

•		PA	^{GE} 30
1	in the past where you h four miles from another	in the same pool?	
3 A 4	this has	happened lots of t n not sure, but I th	times. hink I may have
5 mis 6 7 ni 8 ap 9 pr 10 no 11 h 12 13 14 13 15 16 17 16 17 17 18 19 20 21 22 23 20 21 22 23 23 23 23 24 20 20 20 21 20 20 20 21 20 20 20 21 20 20 20 21 20 20 20 21 20	MR. LINES: Mr. C MR. LINES: Mr. C MR. LINES: Mr. C Mart in the same pool, and resently any wells four man othing in between. I am as ever existed. THE WITNESS: He established, had there be spaced more than four mil MR. STAMETS: W same pool. THE WITNESS: W same pool. C (By Mr. Lines) I th what the present pr production at all H to the wells is he of the proximity t A Yes.	stion. arr asked him earli other wells more that a Mr. Carr asked him iles apart in the s only asking whether e is saying before a en cases when there es apart, and I sai which eventually end Mes. ink your testimony oduction is here, i here, that the poter re because of the da o some other wells	er I asked an four miles m are there ame pool with that situation a pool was were wells d yes. ded up in the was that no matter if there is any htial for harm ownflow and because to the north.
 ະ ຄູ່ 24 25	Commission to aut	chorize or to under	

	[study done before this determination is made as to
2		the creation of new pools?
3	A	I would say yes.
4		What kind of things do you think should be done to give
	1	the Commission a more accurate accounting of what
· (5	actually is happening in this area so as not to
	7	jeopardize other wells?
:	8 7	I would say there should be a detailed study made of
	9	the individual well pressures and production and anything
1	0	that bears on communication between wells.
4		Q Is there also a Catclaw pool up in this area (indicating)
,		A No, it's over in this area (indicating).
<i>1</i> "		Q It's even closer to the Happy Valley than is the South
	14	Carlsbad?
	15	A Yes, it is.
	16	Q Is there potential danger for damage to the wells there
	17	as well in connection with new wells that might be
	18	drilled in the Happy Valley area?
	19	A I would say there is potential, yes.
	20	MR. LINES: I don't think I have any further questi
	21	* * * *
	22	RE-CROSS EXAMINATION
	23	BY MR. CARR:
	23	0 I want to make one thing clear. In your testimony a
	24	moment ago, you stated that you are aware that there

loarnlav meier & associates

PAGE 32 have been wells four miles out of a pool that eventually 1 ended up in the same pool, is that correct? 2 3 True. A But you have not changed your testimony that you do 0 not know at the present time of any area that includes 5 two wells four miles apart with nothing intervening, 6 is that correct? 7 I don't know that there is not one, but I do not know 8 Α of one. 9 MR. STAMETS: How would the creation of these two 10 pools adversely affect the Catclaw Draw-Morrow Gas Pool? 11 THE WITNESS: Well, there again, we are talking 12 about an area here that they are drawing from with these 13 wells that are structurally higher than some of the wells 14 in the Catclaw field. In other words, they are downdip 15 from this (indicating). 16 MR. STAMETS: I repeat, how can it adversely 17 affect them? 18 THE WITNESS: If these wells (indicating) are drawn 19 in such a way as to damage the pressure and production 20 potential from the other wells, they can affect them 21 adversely if they are in communication. 22 MR. STAMETS: I think the record should show at 23 this point that the Applicant-- or the major operator in 24 the Catclaw Draw-Morrow Gas Pool was present at this hearing 25

dearnley, meier & associates

IMMS BLDG.●P.O. BOX 1092●PHONE 243-6601●ALBUQUERQUE, NEW MEXICO 87103 216 First national bank bldg. East øalbuquerque, new mexi±0 87108

			PAGE 33
		٢	today, and has left the hearing room, and has not imparted
		1	today, and has left the hearing room,
e.	·.	2	any objection to this Examiner in either of these cases. MR. LINES: I think the record should also show
		3	
		4	that the testimony was that the testimony indicated that
		5	there was complete drainage of the field. In other words,
	71	6	I believe he indicated that in fact, there was not a formation
dearnley, meier & associates		7	barrier, but that there was complete drainage between these
:00:		8	aveas
asc		9	cmaMETS. He was only referring to the wells
8			A Draw-Morrow Gas Pool.
neie		10	ND LINES: Right.
یر: ۲		11	MD STIMETS: Are there any further questions of
arnlo	87103 1	12	
dea	4EXICO 8	13	
	NEW ME MEXICO	1	4 (No response) MR. STAMETS: The witness may be excused.
	000 200 200 200 200 200 200 200 200 200	1	
	. £C 121	1	(Witness excused.)
	● A L BUQUE BUQUERQU	1	MR. CARR: I would like to recall Mr. Kapteina.
संदर्भ-	E 243-66910 E AST 0 AL B		* * * *
	ZE 249		JAMES E. KAPTEINA,
к.÷	X 1092 PHONE 2 BANK BLDG. E		was recalled as a witness on behalf of the Commission, and
ı	X 1092		having been already duly sworn, testified as follows:
	GIMMS BLDG. P.O. BOX 1916 FIRST NATIONAL B		21 DIRECT EXAMINATION
	1 0 0 F		22
	GIMMS BL		23 BY MR. CARR: 24 Q Mr. Kapteina, you are still under oath.
	209 SIN	1	
			25 A Yes, sir.

		PAGE 34
1	Q	As you recall a while ago, questions were raised about production capabilities on certain wells.
		Yes, that question was raised. Have you prepared for the Commission certain exhibits which will indicate that there is at least at present production capability attributed to these wells? Yes, sir.
y, meier & associa	8 Q 9 A 10 A	Yes, SII. Would you refer to those exhibits, and state what they show? Yes. In paragraph D, the pooling question is the Superior Oil Company State "Q" Com No. 1 located in Unit L of Section 34, Township 21 South, Range 26 East,
243-6091.• АГВЧQUERQUE, NEW MEXIC 6431.• АГВЧQUERQUE, NEW MEXICO 87	12 13 14 15 16 17 18	Eddy County, New Mexico. It is indicated as the discovery well of the Happy Valley-Morrow Gas Pool. I have copies, Xerox copies, of the Form C-105 which shows that the well was drilled through the Morrow formation, and that we have indicated a test of 1,350 MCF of gas, and also a drill stem test on the Wolfcamp and the Morrow.
209 SIMMS BLDG. P.O. BOX 1092.PHONE 1210 FIRST NATIONAL BANK BLDG.	19 20 21 22 23 24 25	I have in paragraph E the Form C-105 of the discovery well, the Cities Service Oil Company Cawley A Com No. 1 located in Unit K of Section 28, Township 21 South, Range 27 East, Eddy County, New Mexico. On the Form C-105, the well was drilled through the Morrow and was capable of producing 1,590 MCF of gas

ĩ

يحمي ز سوره

. . . -د. مربعة

. 1.534 (100) (100)

> 4. 5 070

			PAGE 35
	1	Q	Mr. Kapteina, do these exhibits, to your satisfaction,
	2	×	show the productive capability of the said wells?
	3	A	Yes, I believe they do.
	4	Q	Mr. Kapteina, are you familiar with anything in the
	5		Rules and Regulations of the Commission which require
dearnley, meier & associaties	6	-	a certain amount of production be required, or just
	7		that productive capability be shown?
	8	A	I believe it is only a productive capability.
	9		Kapteina, that a well four miles distant
20. 			from a pool is declared to be a separate pool, and at
nele	10		a later date it is established by further development
ey, r	11		that there is communication between the two. What
IGLN 100	-		could the Commission do in that situation?
	13		in most pools, the pools where it is proven that
2 2 2	1 ×		they are produced from the same common source of supply,
	ว Z ข.	5	the pools are consolidated by the extention or by
	לא שיס מים	16	the abolishment of one pool and the extension of the
243-6691 • A 243-6691 • A 5 A 5 T • A L B U	• € • 0		remaining pool.
	E 243-0 E AST	18	Q In your opinion, does this protect people from being
	BLO	19	drained because of communication which originally was
	5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	20	not known?
		21	A Yes, I believe it does.
		22	to offer Oil Conservation
209 SIMMS BLDG 1210 FIRST	AMS BL 16 FIRS	23	
	209 5IN	24	Commission Exhibits One and Two. MR. STAMETS: Is there any objection to the
ŧ.;		25	MR. STAMETS: IS CHOLE any cary
PAGE 36 1 admission of these exhibits? 2 MR. LINES: Are you going to introduce Exhibit 3 Three as well? MR. CARR: These are offered as supplemental 5 exhibits to Exhibit One. I have no further questions of б Mr. Kapteina. 7 MR. STAMETS: Was there any objection to the admission of these two supplemental exhibits? 8 9 MR. LINES: I wanted to ask him a question about the first one. 10 MR. STAMETS: Before their admission? 11 12 MR. LINES: Yes. 13 CROSS EXAMINATION 14 BY MR. LINES: 15 13 BLDG. + P.O. BOX 1092 + PHONE 243-6691 + ALBUQUER FIRST NATIONAL BANK BLDG. EAST + ALBUQUEROUE. I believe Mr. Carr asked you whether at present there Q 16 was production capability, and your answer was that 17 there was production capability. Is there present 18 production capability for each of these wells? 19 MR. STAMETS: I don't think there is any difference 20 between the two. I wish you would explain the difference 21 between production capability and present production 22 capability. 23 MR. LINES: He indicated that there was a drill 24 stem test that provided -- that gave him information for 25

dearnley, meier & associates

1 179

ina

NEW MEXICO 87103 MEXICO 87108

51MMS 1216 F1

209

	PAGE 37
1	this, and I would like him to state further whether there
2	was a four-point test.
3	MR. STAMETS: I think you misunderstood his
4	Us said there were drill stem tests attached to
5	that production is shown on the front of
	that should be a flow test.
6	The state of the s
7	who comparing, Mr Kapteina, would you look at
8	for and toll us what they say in relation to flow?
S	THE MITNESS. In paragraph D, it says "Calculated
10	
1:	Twenty-four Hour Rate". MR. STAMETS: What do they show as the calculated
1:	
1 108	
i x	THE WITNESS: Paragraph D, which is the Superior
ນ Σ ໄຟ 1	5 Oil Company State Q Com No. 1 Well shows a calculated
	6 twenty-four rate of 1,350 MCF. That's calculated from a
រ រ រ រ រ រ រ រ រ រ រ រ រ រ រ	7 four-hour test through an 18/64 inch choke, at which time the
	8 well produced 225 MCF.
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	The Cities Service Oil Company Cawley A Com No. 1,
010 8 00 8 0	which pertains to paragraph E, was a one-hour test with a
CX 108	ana-inch choke, which produced 5/10 of a barrel of fluid,
200 SIMMS BLDG. P.O. BOX 1002 PHONE 245-0601 - A C BU 1216 FIRST NATIONAL BANK BLDG. RAST - ALBUQUR	and 1,590 MCF of gas during the one-hour period.
LDG.	MR. LINES: What was that one again?
1MM5 8 216 F1 F	THE WITNESS: Which one?
209 5	24
	25 MR. LINES: The last one.

dearnley, meier & associates

page 37

		N -	PAGE 38
		1	THE WITNESS: One thousand five hundred ninety
- -		2	MCF of gas.
		3	MR. STAMETS: We are getting a lot of questions
	-	4	that are not getting into the record. If all the questions
	£	5	will be directed through the attorneys, we will get this
Sa	** *	6	matter cleared up shortly.
Ciat	ئې د د دو مدر دمې		Q (By Mr. Lines) Did the openflow and structural break
SSO(8	have any bearing at all in the determination as to
ço Ço		9	the creation of the new pool?
eier		10	A What?
/' m(11	Q Did the openflow and structural break have any bearing
dearnley, meier & associates	60	12	on your determination that you would recommend the
deal	4CO 871	13	creation of a new pool?
	N N N N N N N N N N N N N N N N N N N	14	A I don't follow your question.
14. j. e	NEW MI	15	Q The openflow figure that you have there, and the
4		16	structural break figure that you have there
	• ∧ ⊢ вч вчо∪е	17	A What structural break? I mentioned nothing about
	243-6691 45 T • A L	18	structural break.
	SIMMS BLDG P.O. BOX 1092. PHONE 243. 6691 + ALBUQUER 1210 FIRST NATIONAL BANK BLDG. EAST + ALBUQUERQUE	19	Q The structural break mentioned by Mr. Carlson on the
	1092 . P	20	map when he was testifying. Were you here during his
	V.BOX NACB	21	testimony?
	0.9.0	22	A No, I wasn't.
	MS BL 0 F 2 R 5 1 0 F 2 R 5 1	23	Q I'm sorry.
	209 SIM	24	MR. LINES: I have no further questions.
	•	25	MR. STAMETS: Are there any other questions of the

PAGE 39

	1	witness?
	2	MR. CARR: I have no further questions.
	3	MR. STAMETS: The witness may be excused.
	4	(Witness excused.)
	5	MR. STAMETS: Do you have an objection to the
	6	exhibits?
	7	MR. LINES: NO.
	8	MR. STAMETS: These exhibits will be admitted into
	9	evidence.
	10	(Whereupon the aforementioned OCC supplemental
·	11	exhibits were entered in evidence.)
ເວ	12	MR. STAMETS: Do you have anything further, Mr.
7108 7108	13	Carr?
NEW MEXICO 87103 MEXICO 87108	14	MR. CARR: I have a statement I would like to make.
⊌₩ 2 ¥ .¥ ₩ 2 7	15	MR. LINES: And I have a statement that I would
AL BUQUERQUE. UQUERQUE, NEW	16	like to make as well.
	17	MR. STAMETS: I would like to have the last two
● PHONE 243-6691● BLDG, EAST●ALC	18 .	exhibits, and I would just like to ask Mr. Carlson one
40N F 2	19	question. He does not have to take the stand.
X 1092.071	20	Mr. Carlson, the exhibits that I have here before
2 0 X 2 1 0 X 2 1 X	21	me indicate a flow rate for the Cities Service Oil Company
6 P.O. BOX NATIONAL	22	Cawley A Com No. 1 of just about 1.5 million cubic feet
IZIGFIRST	23	of gas per day, and for the Superior Oil Company State Q
209 SIMA 1216	24	Com No. 1, a flow rate of 1.3 million cubic feet of gas
	25	per day. Is this volume more or less than the daily allowable

dearnley, meier & associates

40 for a top allowable well in the South Carlsbad field? 2 MR. CARLSON: Less. 3 MR. STAMETS: If these wells produce less than 4 the top allowable well in the South Carlsbad field, can 5 there be adverse drainage from the South Carlsbad field to 6 these wells? 7 MR. CARLSON: Not if they are producing less than that rate. 8 9 MR. STAMETS: I have no further questions. All the witnesses may be excused. 10 Are there any statements in this case? 11 MR. LINES: Yes. 12 NEW MEXICO 37101 MEXICO 87108 MR. STAMETS: Proceed, Mr. Lines. 13 MR. LINES: Your Honor, we would at this time 14 argue that the burden of proof is on the Commission, after - ALBUQUERQUE. 15 having received application to prove that there is in fact 16 a need for the new pool here. 17 Secondly, that the creation of a new pool is not 18 going to cause potential damage to others already established 19 1092 + PHON in the existing pool that are in proximity to this pool. 20 SIMMS BLDG. . P.O. BOX First of all, there was no evidence presented by 21 the Commission indicating potential flows, indicating 22 potential breaks, indicating anything at all concerning the 23 structure or the substructure of this area. 24 209

dearnley, meier & associates

25

I believe that there is more needed in trying to

PAGE 41 create something of this significance than the mere exhibit 1 that was presented here that showed nothing more than a 2 well being a certain number of miles away from an existing 3 well in another pool. 4 I believe this is a serious matter, and I believe 5 there is more than just the one-mile criteria that should 6 go into this kind of determination. 7 We are asking at this time that the Commission 8 dismiss this application until more work is done. I believe, 9 in fairness to my client or any others in the area, that 10 the Commission, before it makes its decision, should have 11 all of the material that it can potentially have within 12 reason before it. I have seen no information at all today except one mimeographed little sheet showing the mileage. 13 We have attempted to show other variables here, 14 and other things that show potential damage to my client 15 16 and others in the area. Granted, there is some kind of uncertainty as 17 to actual production from these wells, and perhaps at the 18 present time, their capacity is not as great as it will be 19 in a future time. However, because of the pool created, 20 material damage could be done to the wells of my client. 21 There has been testimony about if communication 22 is found in the future, the pools could be placed back 23 together as is provided for in the rules, but I think instead 24 25

dearnley, meier & associates

NEW MEXICO 87103 MEXICO 87108 ALBUQUERQUE. NEW • ALBUQUERQUE. 1092 . PHONE 243-659 9100. SIMMS BLDG. P.O. BOX 1216 FIRST NATIONAL 209

BANK

PAGE 42

of creating something and having to dissolve it that I would argue at this time that the Commission would be wise to be cautious and to make sure that they have all the information they can get within reason to see what damage might or might not be done to new wells before new wells are created.

I believe the Commission has not met its burden of proof. We have shown evidence that there is potential damage to our client, and the Commission should dismiss this. I am sure there would be no prejudice to the wells in the Happy Valley Pool or the LaHuerta Pool if this were dismissed. If there was going to be some kind of prejudice, I would say that perhaps this would be in a different category, but this is not going to prejudice anyone.

I think further that as far as Item C is concerned, there has been no evidence introduced at all in this hearing that there is any production in the Morrow for the Antweil Well, and without that information, I feel the Commission has failed to carry its burden of proof and can create a new pool.

We ask on those grounds that the Commission deny the application in Section C for Canyon production.

Thank you.

MR. STAMETS: Mr. Carr?

MR. CARR: The Oil Conservation Commission, as we

dearnley, meier & associates

MEXICC 87103 ICO 87108 1

2

3

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

SIMMS BLDG. 8 P.O. BOX 1092 8 PHONE 248-6691 8 ALBUQUERQUE. 1216 FIRST NATIONAL BANK BLDG. EAST 8 ALBUQUERQUE. NEW

209

1 all know, is a creature of statute, and its Rules and 2 Regulations are carried out under statutory authority. Today we have received recommendations suggesting

that the Oil Commission consider various types of information, 4 5 and I think that if you look closely, all of the statutory ú pre-conditions have been followed by the Commission in the 7 consideration of these new pools.

PAGE 43

It is interesting to note that the evidence submitted by the representative of Mr. Grace would show there is a fault in the formation, and their evidence may tend to show a barrier running through the area which would show a separation, and which would contradict the argument for communication.

I might further call to the Commission's attention 14 that whether or not a pool is declared or not, we could 15 have a wildcat well, and a wildcat well can drain land just 16 as effectively as a well within a pool. 17

So if it comes to a question of communication, 18 that can only be answered when there is further development 19 in the area, and certainly it is not the responsibility of 20 the Commission to develop the area. 21

Based on the fact that the statutory responsibilities of the Commission in this particular case have been met, and that the evidence brought forward shows nothing more than that their interests miles away might be drained, I 25

dearnley, meier & associates

8

9

10

11

12

13

22

23

24

6691 ● ALBUQUERQUE. ● ALBUQUERQUE. NEW PHONE 243-669 BLDG. EAST #AI X 1092 + BANK -SIMMS BLDG. P.O. BOX 1216 FIRST NATIONAL E 209

would urge the Commission to grant the pools in question. 1 MR. STAMETS: Is there anything further? 3 (No response) MR. STAMETS: Case 5053 will be taken under advisement. We will also take under advisement the motions 5 to dismiss paragraphs C, D and E. This may be done by б order, and they may also be continued by order. The hearing 7 will adjourn until after lunch. 8 (Whereupon the hearing in Case 5053 was concluded.) 9 10 11 12 STATE OF NEW MEXICO NEW MEXICO 87103 MEXICO 87108 SS COUNTY OF BERNALILLO) 13 14 I, RICHARD E. McCORMICK, a Certified Shorthand 15 Reporter, in and for the County of Bernalillo, State of 16 New Mexico, do hereby certify that the foregoing and attached 17 Transcript of Hearing before the New Mexico Oil Conservation 18 EAST Commission was reported by me; and that the same is a true 19 BLDG. and correct record of the said proceedings to the best of 1092 X Z X 8 20 my knowledge, skill and ability. 21 6. . P.O. 22 I do hereby certify that the foregoing is/ uparc 23 a complete record of the proceedings in CERTIFIED SHORTHAND REPORTER the Exclusion hearing of Cas, No. 5053, heard by no on August 23, 1973. 24 200 25 Agm N Examine *cehard* New Mexico Oil Conservation Commission

dearnley, meier & associates

÷

 $\xi \sim \tau$

tera

17.9

10.0

1.1

2100

PAGE 44

			page 45				
	1	INDEX					
	2	WITNESS	PAGE				
	3 J/	AMES E. KAPTEINA					
	4	Direct Examination by Mr. Derryberry	3				
	5	Cross Examination by Mr. Lines	6				
	6 D	ALE CARLSON					
	7	Direct Examination by Mr. Lines	18				
	8	Cross Examination by Mr. Carr	23				
	9	Cross Examination by Mr. Stamets	27				
5	10	Redirect Examination by Mr. Lines	29				
	11	Re-cross Examination by Mr. Carr	31				
1 5 Å.	i	JAMES E. KAPTEINA (recalled)	4. 1				
UCCI 11 XICO 87103 87108		Direct Examination by Mr. Carr	33				
UC0	13	Cross Examination by Mr. Lines	36				
A A U A	14	CIUSS DAMAZING CIUSS					
. А. С. С. Б. С. С. Б. К.	15	EXHIBITS	;				
90.0° И Е Я О О	16		ADMITTED OFFERED				
91●ALI ALBUQI	17	EXHIBIT	6 4				
243-66 2457 01	18		23 19				
PLONE	19	Grace #1 Map OCC Supplemental #1 Commission form	39 34				
-092 -	20		39 3				
o. ao N≜r∖o	21	OCC Supplemental #2 Commission form					
00.0 D.0	22						
MS BLC 6 FIRS	23						
209 SIMMS BLDG.• P.O. BOX 1092•PHONE 243-6691•ALBUQUE 1216 FIRST NATIONAL BANK BLDG. EAST•ALBUQUERQU	24		and the second				
	25						

54

j.d

¥74

9

مدرو ا

\$ ~··

ş i į į

1

100 - 100 -

[]

ù

1

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. 5053 Order No. R-4622

> > て通知さ

THE APPLICATION OF THE OIL CONSERVATION COMMISSION UPON ITS OWN MOTION FOR AN ORDER CREATING, CONTRACTING VERTICAL LIMITS, AND EXTENDING HORIZONTAL LIMITS OF CERTAIN POOLS IN CHAVES, EDDY, AND LEA COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on August 22, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>29th</u> day of <u>August</u>, 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 there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Atoka formation, said pool to bear the designation of Burton Flat-Atoka Gas Pool. Said Burton Flat-Atoka Gas Pool was discovered by the Monsanto Company Miller Federal Well No. 1, located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM. It was completed in the Atoka formation on May 1, 1973. The top of the perforations is at 10,658 feet.

(3) That there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Strawn formation, said pool to bear the designation of Burton Flat-Strawn Gas Pool. Said Burton Flat-Strawn Gas Pool was discovered by the Monsanto Company Burton Flat Deep Unit Well No. 3, located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM. It was completed in the Strawn formation on April 16, 1973. The top of the perforations is at 10,208 feet. -2-Case No. 5053 Order No. R-4622

(4) That the proposed creation of a new pool in Section 21, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, for the production of gas from the Canyon formation should be dismissed pending further study.

(5) That the proposed creation of a new pool in Section 34, Township 21 South, Range 26 East, NMPM, Eddy County, New Mexico, for the production of gas from the Morrow formation should be dismissed pending further study.

(5) That the proposed creation of a new pool in Section 28, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, for the production of gas from the Morrow formation should be dismissed pending further study.

(7) That there is need for the contraction of the vertical limits of the Townsend-Pennsylvanian Pool in Lea County, New Mexico, to include only the Cisco formation due to a completion in Pennsylvanian other than the Cisco zone in the immediate area. Sadd Townsend-Pennsylvanian Pool shall be redesignated the Townsend-Cisco Pool.

(8) That there is need for certain extensions to the Round Tank-Queen Pool in Chaves County, New Mexico, the East Empire Yates-Seven Rivers Pool, the Parrish Ranch-Upper Pennsylvanian Pool, the Penasco Draw-San Andres-Yeso Pool, the Rock Tank-Lower Morrow Gas Pool, the Shugart Pool, and the Winchester-Morrow Gas Pool, all in Eddy County, New Mexico, the Fowler-Devonian Pool, the Hat Mesa-Morrow Gas Pool, and the Lea-San Andres Pool, all in Lea County, New Mexico.

IT IS THEREFORE ORDERED:

(a) That a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production, is hereby created and designated as the Burton Flat-Atoka Gas Pool, consisting of the following described area:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 3: Lots 1 through 3

(b) That a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production, is hereby created and designated as the Eurton Flat-Strawn Gas Pool, consisting of the following described area:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 3: 5/2

(c) That the proposed creation of a new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and -3-Case No. 5053 Order No. R-4622

derignated as the Carlsbad-Canyon Gas Pool, consisting of the following described area:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM Section 21: 5/2

is hereby dismissed.

(d) That the proposed creation of a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Happy Valley-Morrow Gas Pool, consisting of the following described area:

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM Section 34: W/2

is hereby dismissed.

(e) That the proposed creation of a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the La Huerta-Morrow Gas Pool, consisting of the following described area:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 28: 5/2

is hereby dismissed.

(f) That the East Empire Yates-Seven Rivers Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 17 SOUTH RANGE 28 EAST, NMPM Section 28: NE/4 SE/4

(g) That the Fowler-Devonian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM Section 10: SE/4

(h) That the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP	21	SOUTH,	RANGE	32	EAST,	NMPM
Section	1:	\$/2				
Section	2:	All				

-4-Case No. 5053 Order No. R-4622

(i) That the Lea-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 19 SOUTH, MANGE 34 EAST, NMPM-Section 24: SE/4

(j) That the Parrish Ranch-Upper Pennsylvanian Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 13: 1/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPH Section 18: N/2 S/2 and SE/4 NE/4

(k) That the Penasco Draw San Andres-Veso Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 18 SOUTH, RANGE 25 LAST, NMPM Section 32: W/2

> TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 12: S/2

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPK Section 5: W/2 MM/4 and NE/4 NM/4 Section 7: W/2

(1) That the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 23 COUTH, RANGE 24 EAST, IMPM Section 11: E/2, E/2 SW/4, S/2 SE/4 NW/4 and NE/4 SE/4 NW/4

(m) That the Round Tank-Queen Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 15 SOUTH, RANGE 23 EAST, NMPM Section 36: NMP/4

(n) That the Shugart Pool in Eddy County, New Mexico, as herevofore classified, defined, and described, is hereby extended to include therein:

> TOWASHIP 18 SOUTH, RANGE 30 LAST, HAPM Section 12: Sh/4 SE/4 Section 13: E/2 NE/4

-5-Case No. 5053 Order No. R-4622

(o) That the Winchester-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 34: E/2

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM Section 2: N/2

(p) That the vertical limits of the Townsend-Pennsylvanian Pool in Lea County, New Mexico, are hereby contracted to include the Cisco formation only and redesignate said pool the Townsend-Cisco Pool comprising:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: SW/4

IT IS FURTHER ORDERED:

(1) That, pursuant to Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, any well which, by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one which is presently dedicated thereto, shall have 60 days from the effective date of this order in which to file new Forms C-102 dedicating a standard unit for the pool to said well, or to obtain a non-standard unit approved by the Commission. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit for the pool. Failure to file Forms C-102 dedicating a standard unit to the well or to obtain a non-standard unit approved by the Commission within said 60-day period shall subject the well to cancellation of allowable.

(2) That the effective date of this order and all creations, contractions of vertical limits, and extensions of horizontal limits included herein shall be September 1, 1973.

STATE OF NEW MEXICO

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

OIL CONSERVATION COMMISSION , TRUJILLO, Chairman Anvil Momber.

Memb

Secretary

Docket No. 23-73

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 22, 1973

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

The following cases will be heard beijre Richard L. Stamets, Examiner, or Elvis A. Utz, Alternate Examiner:

CASE 4548: (Reopened) (Continued from the August 9, 1973, Examiner Hearing)

In the matter of Case No. 4548 being reopened pursuant to the provisions of Order No. R-4157, which order established special rules and regulations for the Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, including a provision for 640-acre proration units. All interested parties may appear and show cause why said pool should not be developed on 320-acre spacing.

CASE 5046:

Application of David Fasken for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a gas well at an unorthodox location 660 feet from the South and West lines of Section 7, Township 18 South, Range 26 East, West Atoka-Morrow Gas Pool, Eddy County, New Mexico, to which well the S/2 of said Section 7 would be dedicated.

CASE 5047:

Application of Chace Oil Company for the amendment of Order No. R-4555, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the special rules and regulations for the South Lindrith Gallup-Dakota Pool, Rio Arriba County, New Mexico, as promulgated by Order No. R-4555, to provide for the classification of oil wells and gas wells, the assignment of 320-acre units to gas wells, and to provide for approval of unorthodox locations for wells drilled as oil wells but classified as gas wells upon completion.

CASE 5048:

8: Application of Roger C. Hanks for creation of a pool and special rules therefor, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the South Dagger Draw-Upper Pennsylvanian Pool for his Preston Federal Well No. 1 located in Unit L of Section 35, Township 20 South, Range 24 East, Eddy County, New Mexico. Applicant further seeks the promulgation of special rules for said pool, including a provision for 320-acre spacing for all wells in said pool, for the classification of oil wells and gas wells, for a limiting gas-oil ratio of 8,000 to 1, and for the assignment of a depth bracket allowable for oil wells of 267 barrels of oil per day.

CASE 5049:

049: Application of Mobil 011 Corporation for a triple completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the triple completion (conventional) of its Federal "Li" Well No. 1 located in Unit N of Section 13, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, to produce gas from the Canyon, Atoka, and Morrow formations through three strings of tubing.

CASE 5050:

Application of Read and Stevens, Inc. for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority

Examiner Hearing - Wednesday - August 22, 1973

Docket No. 23-73 -2-

(Case 5050 continued from Page 1)

to dispose of produced salt water into the Montoya formation in the perforated interval from 6225 feet to 6245 feet in its Federal "L" Well No. 1, Located in Unit B of Section 21, Township 6 South, Range 27 East, Haystack-Cisco Pool, Chaves County, New Mexico.

CASE 5051:

Application of Hillin 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 Winchester-Morrow Gas Pool, Eddy County, New Mexico, including a provision for 320-acre spacing and specified well locations.

CASE 5052:

Application of Atlantic Richfield Company for a non-standard gas proration unit and simultaneous well dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a non-standard 320acre gas proration unit comprising the NW/4, E/2 NE/4, SW/4 NE/4, and NE/4 SE/4, of Section 35, Township 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be simultaneously dedicated to its J. P. Combest Wells Nos. 1 and 4 located in Units H and E, respectively, of said Section 35.

CASE 5053:

Southeast nomenclature case calling for the creation, extension and contraction of certain pools in Eddy and Lea Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Burton Flat-Atoka Gas Pool. The discovery well is the Monsanto Company Miller Federal No. 1 located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM. Said pool described as:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 3: Lots 1 through 8

(b) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Burton Flat-Strawn Gas Pool. The discovery well is the Monsanto Company, Burton Flat Deep Unit No. 3 located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM. Said pool would comprise:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 3: S/2

(c) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and designated as the Carlsbad-Canyon Gas Pool. The discovery well is the Morris R. Antweil Randall No. 1 located in Unit K of Section 21, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

> TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM Section 21: S/2

(d) Create a new pool in Eddy County, New Mexico, classified as a gas pocl for Morrow production and designated as the Happy Valley-Morrow

Examiner Hearing - Wednesday - August 22, 1973

Docket No. 23-73 -3-

(Case 5053 continued from Page 2)

Gas Pool. The discovery well is The Superior Oil Company State Q Com No. 1 located in Unit L of Section 34, Township 21 South, Range 26 East, NMPM. Said pool would comprise:

> TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM Section 34: W/2

(e) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the LaHuerta-Morrow Gas Pool. The discovery well is the Cities Service Oil Company Cawley A Com-No. 1 located in Unit K of Section 28, Township-21-South, Range 27-East, NMPM. Said pool would comprise:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 28: S/2

(f) Extend the East Empire Yates-Seven Rivers Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 28: NE/4 SE/4

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

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM Section 10: SE/4

(h) Extend the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM Section 1: S/2 Section 2: All

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

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM Section 24: SE/4

(j) Extend the Parrish Ranch-Upper Pennsylvanian Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 13: E/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 18: N/2 S/2 and SE/4 NE/4

Examiner Hearing - Wednesday - August 22, 1973

Docket No. 23-73 -4-

(Case 5053 continued from Page 3)

(k) Extend the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM Section 32: W/2

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 5: W/2 NW/4 and NE/4 NW/4

(1) Extend the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM Section 11: E/2, E/2 SW/4, S/2 SE/4 NW/4 and NE/4 SE/4 NW/4

(m) Extend the Round Tank-Queen Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 28 EAST, NMPM Section 36: NE/4

(n) Extend the Shugart Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM Section 12: SE/4 SE/4 Section 13: E/2 NE/4

(o) Extend the Winchester-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 34: E/2

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM Section 2: N/2

(p) Contract the vertical limits of the Townsend Pennsylvanian Pool in Lea County, New Mexico, to include the Cisco formation only and redesignate said pool the Townsend-Cisco Pool comprising:

> TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: SW/4

CASE 4745:

145: (Reopened) (Continued from the August 9, 1973, Examiner Hearing)

In the matter of Case No. 4745 being reopened pursuant to the provisions of Order No. R-4365, which order established special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, including a provision for classification of oil wells and gas wells, the spacing thereof, and a limiting gas-oil ratio of 3000 to 1. All interested parties may appear and show cause why said pool rules should remain in effect.

n an		en de La tradición	1994. 1995					· · · ·
· · · · · · · · · · · · · · · · · · ·	- 1	$ \cap A^{\circ} $	-	1	2 -			
NO OF CORES DECEMPED		Para	grap			1.17 C	Form C-10	
DISTRIBUTION		1				چەرىپ بىرىي ق	Revised 1-	1-95
SANTA FE FILE	/				N COMMISSION	1	Indicate Ty State	pe of Louisa Foe [3]
U.S.G.S.	WEL	L COMPLET	ON OR RECC	менецио	N REPORTA	NDIOG	· · · · · · · · · · · · · · · · · · ·	Gas Lease No.
LAND OFFICE				e Alfred	3 1972	773		
OPERATOR			•		9 2912 1 - 2			
a. TYPE OF WELL				<u>.</u>	<u>a.c</u> .	7.1	Jalt Agreen	at Kano
b. TYPE OF COMPLETIO	N WELL	GAS WELL	DRY	Addres	A, OFFICE	E. I	urm or Leo	ise Name
NEW 127 WORK WELL 12 OVER	DEEPEN	PLUG DACK	DIFF. RESVR.	OTHER			RANDAL	L
, Morris R.	Antweil	1					1 1	на страна 11.
3. Address of Operator			<u>.</u>			10.	Field and I	Past, or Wildcat
Box 2010,	Hobbs, M	ew Mexico	88240	· · · · ·			Canyon	-Wildcar
			_				IIIII	
UNIT LEFTER K	LOCATED 1864	FEET FROM	THE South	LINE AND	2005	FEET FROM	County	<u>1111111111111111111111111111111111111</u>
THE WOST LINE OF SEC.	. 21	22-5 RGE.	27-13 KMPM	<u>UIII</u>	MMANN		-	
• . 1		1		rod.) 18.		-		ev. Cashinghead
29 Nov. 71 20. Totel Depth	21. Plug Ba	<u>1</u> Ju ek T.D.	22. If Multipl Many	e Compl., Ho	3120 Contract of the second se	ls , Rotary To		Cable Tools
11,895 24. Producing Interval(s), o		0,100'	7	<u> </u>		<u>> 11,</u>	<u>895'</u>	Was Directional Survey
		. .	une					t/ade
	9947 [°] Can	yon Lime						Yes
26. Type Electric and Othe Garana - So	nic, LL	Compensat	ed Neutr	con 🔄 Mi	.ĭ.		1	Woll Cored
28.		CASINO	G RECORD (Rep	ort all string				
CASING SIZE	WEIGHT LB./FT.	DEPTH SE		$\frac{1}{1/2^{11}}$	375 :	ITING RECORD		AMOUNT PULLED
9.5/3"	364 8 40	步 5445'	12.	.1/4"	<u>1300</u>			
711	23,26 829	<u>\$110,413</u>	8-	-374"	2 stage	<u>s- 435 e</u>	S	
29.	LINE	RECORD			30.		NG RECOR	2D
size 4-1/2"	TOP 0.2001 1	воттом si 1.8951	CKS CEMENT	SCREEN		рертн 1 9306		PACKER SET
		.,021	200_sx		12-770			
31. Perioration Record (Inte 002.13 00.211			1	32.	ACID, SHOT, F			EZE, ETC.
9930', 9931' 9936', 9937' 9943', 9945'	, 9939', 9	934, 993 941, 994	2		- 9947'			5% acid
9943', 9945'	, 9946',9	947', 14-	0.33"			~		
holes -		2 is the 2		·		•		
33. Date First Production	Productie	n Method (Flowin,		UCTION	nd svpe pump)		ell Status /	Prod. or Shut-in)
28 June 72	i ·	oving					Produ	•
Date of Test H	ours Tested 24	Choke Size	Frod's, For Test Period	оя — вы. 30	Gas - MCE	Water -		Jas-Oil Ratio
	Z-+ Caving Pressure	Calculated 24-	он – вы.			ter - 351.		10,000 ravity - API (Corr.)
1260 DSi.	PKT.	·>	30	3	00	The We	inessed By	50° APT
	ano, Inc.	ossasu, tatoj						©Donald
35. List of Attachments	· · · · · · · · · · · · · · · · · · ·	toca	,					
33, I hereby certify that the	n Survey,		f this form is tri	ie and compl	ete to the best of	my knowledge n	ind belief.	
1 05	sir all	4		Acart	-			
SIGHED EAC	149.7.4		TITLE	Azent			NE 3 /	August 72

and and and a second second

<u>`</u>_^``\

 τ_{i_1,i_2}

£.

INSTRUCTIONS

This form is to be filled with the expropriate District Office of the Commission not later than 20 days after the completion of any newly-dilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be reported depths. In the case of directionally drilled wells, the vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filled in quintuplicate exception state load, where six copies are regulated. See Mule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestem New Mexico

т.	Anhy	Т.	Canyoa	Т.	Ojo Alamo	T.	Penn. "B"
r.	Salt	T .	Strawn 10,370	Т	Kirtland-Fruitland	T.	Penn. "C"
В.	Sait	. T.	Atoka 10,608	T .	Pictured Cliffs	T.	Penn, "D"
							Leadville
Т.	7 Rivers	. T.	Devonian	T.	Menefee	r.	Madison
							Elbert
T.	Grayburg	Т.	Montoya	<i>.</i>	Mancos	T,	McClacken
T.	San Andres	. T.	Simpson	Т.	Gallup	Ŧ.	Ignacio Qtzte
T.	Glorieta	. т.	McKee	Bas	se Greenhorn	T	Granite
Ŧ	Daddock	3°	Flienhurger	<u>۲</u>	Dakota	Т.	Det. Jana 1924
T.	Blinebry	- T.	Gi. Wash	Т.	Morrison	Т.	<u>Bone Springs-536</u> <u>3rd. E.S 8468</u> Morrog-11 102
Ţ.	Tubb	- T.	Granite	T .	Toditto	τ.	<u>-3rd. B.S 8468</u>
T.	Drinkard	. T	Delaware Sand	Τ.	Entrada	. Ц.,	
T.	Аво	. Т.	Bone Springs	T.	Wingate	Т.	<u>Barnett-11,874</u>
Т.	Wolfcamp	. T.		T.	Chinle	. T .	<u> </u>
Т.	Penn. 9,563	. Ť.	1. 	T.	Permian	. T.	<u></u>
					Pean "A"		

FORMATION RECORD (Attach additional sheets if necessary)

Ĵ)	From	To	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
•			5360	Sand, Shale, Anarorite	X		i i	-
			1533	Lime, Shale, & Sand		· · ·		
	11162	1.1.89.	5 791	Lime, Shale, Send				
•	2 A V	5.4 1					in a second	
2	0 CE	2 <i>88</i> 757	228	Anthe Time Superlet				
71	50 10 124	14.10	260 314 2436	SALT & ANKY, Shale LIMON ANNY, " PUPU ANT Shake SAND	-			
52 II	360 563 [153	1539	Alter State Sail		•		
, /s	Chel 1	1,575	791	Line Hale + AND				
	···· ·					- ·.		
		•						
	•.							
		-	-					

OIL CONSERVATION COMMISSION

BOX 2045

ARTESIA, NEW MEXICO

NOTICE OF GAS CONNECTION

July 1, 1972

DATE

This is to notify the Oil Conservation Commission that connection for

This is to notify the <u>Morris. R. Antweil</u>, <u>Randall</u> the purchase of gas from the <u>Morris. R. Antweil</u>, <u>Lease</u>

<u>1. K</u>, <u>21 - 22 - 27</u>, <u>Undesignated</u>, <u>Llano, Inc.</u> <u>Well Unit</u>, <u>S.T.K.</u>

was made on July 1, 1972

LLANO, INC. Purchaser

Representative

Vice Pres.-Operations & Construction Title

cc: To operator (Morris R. Antweil, Hobbs, N.M. - Union Oil Company, Midland, Texas) Oil Conservation Commission - Santa Fe

NOTE: Verbal permission was given by Bill Gressett to Bob Williams, M. R. Antweil, to connect and test well into Llano, Inc. system.

j	A. 100 Dr SUPJES AS SELVED 1	* -		
	OISTRIBUTION		INSERVATION COMMISSION	
	SANTA FE		FOR ALLOWABLE	Ebria C-104 Supervised Old C-104 and C-110
	FILE		AND	Effective 1-1-55
	U.S.G.S.	AUTHORIZATION TO TRAI	SPORT OIL AND NATURAL G	45
	LAND OFFICE			
	TRANSPORTER OIL		EIV	
	OPERATOR			
3	PRORATION OFFICE	A10	8 1972	
	Cpwrate:	1	nan manina ann an Sanna a saonna ann an ann ann ann an ann an ann an	
	Morris R. Antwei	1. 1	53-53-	
	Address	ARTES	an ing A. Befrice	
	Box 2010, Hobbs, Reason(s) for filling (Check proper box)	New Mexico 88240	Other (Please explain)	
	New Well X	Chuage in Prunsporter of:		0.10/
	Recompletion	Oll Dry Gaz	Supplement to Filed 30 June	72
	Change in Ownership	Casinghead Gris		14
		ander a for give transfer to annote an allower to an or a more the annote the annote of the descent of the desc 	an na ama ang ang ang ang ang ang ang ang ang an	
	If change of ownership give name and address of previous owner			
Н.	DESCRIPTION OF WELL AND 1	EASE (No. Pool Name, Including Fo	mation Kind of Lease	Leasy No.
	Randall	1 Canyon Wild	and the second	c: Fee
	Location			
	Unit Letter K , 186	4 Feet From The South Line	and 2005 Feet From T	he West
				· · · · · · · · · · · · · · · · · · ·
	Line of Section 21 Tow.	aship 22-8 Range 2	7-E , NMPM, Eddy	Z County
	NUMBER OF AN ANALYSING	NO OF AT AND MACHINAL CAN	2	
ц л.	DESIGNATION OF TRANSPORT	cr Condensute [V]	S Address (Give address to which approve	ed copy of this form is to be sent)
	The Fermian Corpor	~~	Box 1183 Houston	Texas 77001
	Name of Authorized Transporter of Cast	inghedd Gas or Dry Gas _X	Box 1183, Houston, Address (Give address to which approv	ed copy of this form is to be sent)
	Llano, Inc.		Box 1320 Hobbs, Ne	ew Mexico 88240
	I it well freences on criticity'	Unit Sec. Fwp. Rge.	Is gas cotually connected? When	
	give location of tanks.	K 21 228 27E	Yes	<u>1 July 72</u>
	If this production is commingled with	h that from any other lease or pool, g	give commingling order number:	
IV.	COMPLETION DATA	Oil Well Gas Well	New Well Workover Deepen	Plug Back 'Sama Heaty, Diff. Resty,
,	Designate Type of Completion	n - (X)	X	
,	Date Spudded	Date Compl. Ready to Prod.	Tolai Depth	P.B.T.D.
	29 Nov. 71	1 Jul. 72	11,895'	10,100'
	Elevations (DF, RKB, RT, GR, etc.)	Name of Freducing Formation	Top Oil/Gus Pay	Tubing Depth
	31.20 ⁹ GL	Canyon	9930'	
	Partsportsona 9930' - 9947' (14	hataa	· · · · · · · · · · · · · · · · · · ·	Depth Casing Shoe
		holes) Tusing, casing, and	CENERTING DECOOD	10,413'
	HOLESIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENY
atur -	1. 1.7. 1.1.2.1	13-3/8	375'	
10.72	Completedededededededededededededededededede	free and the first state of the second state of the second state of the second state of the second state of the	CAR1	1200_02

NO. OF COPIES ALCEIVED Paragraph. (e)	
OISTRIBUTION	Form C+1.65 Revised 1-1-65
	St. B. Bally They of the set
FILE WELL COMPLETION OR RECOMPLETION RE	
U.S.G.S.	E. J. W. St. State Off & Gas Lause No.
LAND OFFICE	TELEFEXTER STREET
PR PR	23 (21273)
LE TYPE OF WELL	7. Unit Agreedent None
WELL AS WELL OTHER	
D. TYPE OF COMPLETION	h.R. L.St
NEW (X) WORK PLUG DIFF. WELL OVER DEEPEN BACK HESVR. OTHEP 2. NGmeyof Operator DEEPEN BACK HESVR. OTHEP	Cavley A Com.
2. Name of Operator Cities Service 011 Company	9. Well No.
3. Address of Operator Box (1906 - Midland Toxog 7070)	10. Field and Pool, or Wildon
100x 4000 = marana, rexas 70701	Wildcat-Morrow
4. Location of Well	
UNIT LETTER K LOCATED 1980 FRET FROM THE SOUTH LINE AND 1	280 Free room Allellellellellellellelle
THE West LINE OF SEC. 28 INP. 218 RGE. 27E NMPM	
15. Date Spudded 16. Date T.D. Reached 17. Date Compl. (Ready to Prod.) 18. Elevat	ions (DF, KXB, RT, GR, etc.) 19. Elev. Cachinghead
	3' DF 3180
20. Total Depth21. Plug Back T.D.22. If Multiple Compl., How211,61311,325-	23. intervals , Fotury Tools , Cable Tools Drilled By (pp. 11 (101)
24. Producing Interval(s), of this completion Top, Bottom, Name	> 0-TD 11,613'
	Muže
11,202-11,306 - Morrow	No
26. Type Electric and Other Logs Run Dual Laterolog, Microlaterolog-Micro	ro-Log, Compensa- 27. Wes Well Corod
ted Sonic-Gamma Ray, Neutron-Form, Density-Deviation Test 23. CASING RECORD (Report all strings set in	L NO
CASING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE	CEMENTING RECORD AMOUNT PULLED
13-3/8" 48# 480 17-1/2"	500 sacks
9-5/8" 32.3# & 36# 3299 12-1/4"	1750_sacks
<u>7"</u> <u>23# & 26# 8992</u> <u>8-3/4"</u>	1100 sacks
29. LINER RECORD 3	TUSING RECORD
SIZE TOP BOTTOM SACKS CEMENT SCREEN	SIZE GEPTH SET PACKER SET
5" 8602 11613 325	2-3/8" 11005 11006
	SHOT, FRACTURE, CEMENT SQUEEZE, ETC. RVAL AMOUNT AND KIND MATERIAL USED
holes each @ 11,202; 11,203; 11,204; 11,209; DEPTHINTER 11,213; 11,216; 11,242; 11,244; 11,245; 11,246 11202-1130	
11,247; 11,282; 11,284; 11,286; 11,292; 11,293	alcohol 2500 gals. Super Mud
11,301; 11,302; 11,304; and 11,306'.	acid+15%_Isopropyl_alcohol
33. PRODUCTION	
Date First Production Production Method (Flowing, gas lift, pumping - Size and type	Pumpi Well Status (Prod. or Shut-in)
3-26-73 Flowing	ate of Shut in
Pest Period	Gas MCF Water Bbl. Gas Oll Ratio
4-20-73 1 hr. 1" 0.5 1	590 MCED 1.0 -
Flow Tubing Press. Cusing Pressure Calculated 24- SH - Bol. Gus-MCF 31.5% - Dist. 12 CAOF 1590	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Well is shut in	Brad Bennett
35. List of Attachments	· · · · · · · · · · · · · · · · · · ·
Deviation Test. 35. I hereby certify that the information shown on both sides of this form is true and complete to the	the best of my knowled in and bylinf
	e control with montenger and search in the
SIGNED Echilden TITLE Region Operati	ion Manager DATE April 26, 1973
SIGNED TITLE REGION OUCLICE	ه در با در با با با با با با مسیحه که با بسیمه بینی میرون کرمینی و انداز ۲۵۱۱ از این از میرون سیمی سیمی سیمی م این به با

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-difiled or degreed well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests con-ducted, including difficult stem tests. All depths reported shall be measured depths. In the case of directionally diffied wells, true vertical depths shall also be reported. For multiple conflictions, Items 30 through 34 shall be reported for each roke. The founds to be filed in quintiplicate exception also be reported. For multiple conflictions, Items 30 through 34 shall be reported for each roke. The founds to be filed in quintiplicate exception also be reported starts are required. See Fulle 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE _____T. Penn. "B"_____ T. Canyon 9338 T. Ojo Alano T. Penn. "B"--- T. Stravn 100/11 T. Kirtland-Fruitland T. Penn. "C"--- T. Atoka 10690 T. Pictured Cliffs T. Penn. "D"--- Southeastern New Mexico Anhy т. T. Miss_____T. Cliff House_____T. Leadville_____ T. Salt. 7 Rivers______T. Devonian ______T. Meneize ______T. Madison ______ B. T. Point Lookout _____ T. Elbert _____ Ŧ. T. Montoya T. McCracken ______ T. Mancos ______ T. McCracken ______ Т. 1. Gray of agenticity and the second seco T. Ignacio Qtzte T. Ellenburger _____ T. Dakota _____ T. T. Blinebry ______ T. Gr. Wash _____ T. Morrison _____ T. -T. Granite _____ T. Todilto _____ T. ____ T. ----- T. Entrada ------ T. --T. Delaware Sand _____ T. Entrada _____ T. Bone Springs _____ T. Wingate _____ Tubb _____ _____ T. т. T. Drinkard ____ <u>8420 T. Chinle T. -</u> T. Cherokee <u>10354</u> T. Permian T. -T. Wolfcamp 8756 T. Dean T Cisco (Bough C)_____ T. Morrow 10950___ T. Penn. "A"____

T.Chester 11545

FORMATION RECORD ('Attach additional sheats if necessary)

Thickness Formation	From	То	in Feet	01-10
From To Thickness in Feet Formation 0 480 480 Surface Rock & Red Bed 480 1090 610 Anhydrite & Salt 1090 1190 100 Salt & Anhydrite 1190 1250 60 Anhydrite & Salt 1250 1876 626 Anhydrite 1876 300 1424 No returns 3300 3435 135 Dolomite, Salt & Sand 3435 3710 275 Anhydrite & Lime 5278 6242 964 Lime 6353 6590 237 Lime & Shale 6353 6590 237 Lime & Shale 6353 6751 161 Lime 604 7035 131 Lime 7035 7174 139 Shale & Lime 7174 7837 663 Lime 7035 7174 139 Shale & Chert 8080 8350 270 Lime & Shale	9323 9345 9574 9600 9795 9837 9924 10172 10242 10324 10409 10910 10985 1110 1123	9345 9574 9600 9795 9837 9924 10172 10242	22 229 26 195 42 87 248 70 82 85 501 501 501 118 0 127 0 360	Lime & Shale Lime, Shale & Sand Sand & Shale

Cities Service Oil Company #1 Cawley A

DST #1 3299-3435 (Delaware) 3/4" BC, 1/4" TC tool open for 15 mins. preflow w/good continuous blow. SI for 90 mins, ISIP. Tool open 1 hr. Gas to surf. in 45 mins. TSTM. Rec. 30' oil + 900' black brackish sul. wtr. Grav. of oil 37.8 deg. IHP 1613#, IFP 314#, FFP 356#, 90 min. ISIP 1592#, 90 min. WSIP 1213#, FHP 1550#, BHT 90 deg. F.

DST #2 10,216-10,320 (Strawn Lime) 3/4" BC, 1/4" TC, 800' WB tool open for 15 min. Preflow w/fair blow increasing to good blow in 15 min. SI for 90 min. ISIP. Tool open 2 hrs. Gas to surf. in 90 min. @ 35 MCF decreasing to TSTM in 30 min. Rev. out 800' WB + 4000 gas cut mud. IMCP 5480#, 90 min. ISIP 3572#, 2 hr. IFP 790#, 2 hr. FFP 1046#, 2 hr. FSIP 4484#, FMCP 5437, BHT 180 deg. F.

DST #3 11,194-11,291 (Morrow Sand) 3/4" BC, 1500' WB tool open for 14 min. preflow w/good-strong blow, WB to surf. in 6 min. Gas to surf. in 8 min. FP 250# on 3/4" choke @ end of preflow. SI for 90 min. ISIP. Tool open 90 min. After 3 min. FTP 200# on 1/2" choke. Cleaned to pits 45 min. Switched thru separator for 10 min. @ 4.2 MMCFD, FTP 550#, 1/2" choke. Cleaned to pits for 20 min. Switched thru separator for last 15 min. @ 4.8 MMCFD, FTP 800#, 1/2" choke. SI 90 min. Opened circ1. sub and reversed out w/150 bbls. mud until well stable. Press. recorded in top chamber @ 11,177'. IMCP 5852# preflow FP 1213-1426#, 90 min. ISIP 4797#, FP 936-1553# 90 min. FSIP 4712#, FMCP 5789#, BHT 195 deg. F. Rec'd. in test chamber 4.5 CF gas @ 3100# no fluid.

DST #4 11,330-11,387 (Morrew Sand) 3/4" BC, 1500' WB tool open for 15 min. preflow w/very weak blow for 5 min. SI for 90 min. ISIP. Tool open 1 hr. Rec. 1500' WB + 1474' sli. gas cut mud. IMCP 5852#-6000#, preflow FP 787#-877#, 90 min. ISIP 1532#-1617#, 60 min. IFP 851#-921#, 60 min. FFP 936#-1013#, 90 min. FSIP 1575#-1639#, FMCP 5852#-6000#, BHT 174 deg. F. Top gauge @ 11,326 - bottom gauge @ 11,383. Rec'd. in sample chamber 1.6 CF gas, 2200 cc drlg. mud @ 651#.

DST #5 11,362-11,506 (Morrow Sand) 3/4" BC, 1600' WB tool open for 15 min. preflow w/strong blow in 1-1/2 min. - 10# in 15 min. Attempted to SI tool for ISIP. Tool would not close. Gas to surf. in 25 min. w/110# on blow hose. Picked up tool to neutral position. Closed tool for 120 min. ISIP. Tool open for 60 min. Opened surf. valve - had 500#, declined to 22# in 10 min. on 1/2" choke to weak blow in 20 min. then increased to 1/2# in 30 min. and 3/4# in 60 min. Rotated tool to determine if tool was open. Surf. press. increased to 100# on 3/4" choke in 30 min. w/WB to surf. in 30 min. Flowed WB & gas to pits for 40 min. @ 200# on 1/2" choke. Flowed thru separator 20 min. @ 1523 MMCFPD w/240# on 3/4" choke. Tool open for 90 min. on 2nd flow period. Opened circulating sub and reversed out 1824' wtr. and gas cut dr1g. mud. IMCP 5979#-6082#, preflow FP 979#-1056#, 90 min. ISIP tool did close, 90 min. IFP 1234#-1298#, 90 min. FFP 1064#-1083#, 150 min. #SIP 4585#-4674#, FMCP 5894#-5900#, BHT 190 deg. F. Top gauge @ 11,355' - bott. gauge @ 11,502'. Rec'd. in sample chamber 8.123 CF gas, no fluid @ 2300#.



	-		•						
			2						
	· •		1 1	· ·					
	·				1	1 11			
	NO. DE COSTE RECEIVE	p 7, 11	10	Varas a	A	$\left(A \right)$		Term C	-105
I	DISTRIBUTION	· · · · · · · · · · · · · · · · · · ·	1 00						st 1-1-85
	SANTA FE			1			6	Sa. Indian	a Pype of Dense
					SERVATION			State	
		WEL WEL	L COMPLETI	ION OR RECO	MPLIETION	tepory Ab	DhOG.	•.	114 (Jas Letis, 15,
	U.S.C.S.								
1	LAND OFFICE				47254	C From		<u>K-32</u>	00
	QPERATOR				うりば	2 5 1973		111111	
						-	K	IIIII	
	IG. TYPE OF WEEL							7. Unit Aq	renet Rane
		OIL WELL	L GAS C	ר־ז ר		S. C.			
	h. TYPE OF COMPLET		GAS WELL	J DRYL	of Restrant	<u>Ar Rielge</u>	^ [/]	8 Form or	Leuse Nage
			T FLUG [·	الم ومعتقل ومعتم		المتحج والمعمون		
	NEW 1 WOR WELL A OVE	R DEEPEN	BACE] RESVR.	OTHER				"Q" Com
	2. Name of Operator					n y transformation generation	하지 말 [p Well No.	
	The Super	ior Oil Comp	any 🦯					: 1	
	3. Address of Operator					- 6 1 5		10. Field c	md Pool, or Wildort
	P. O. Box	: 1900, Midla	nd, Texas 7	79701				Morro	W - Wildcat
~	4. Lecation of Well				ــــــــــــــــــــــــــــــــــــ		K	777777	
	-		See 2		신상 문화가 가지?	دام الديانية ميرين م الأربي في الأم	R	//////	//////////////////////////////////////
	T T	່ ວາງເ		Contri		660	5	//////	///////////////////////////////////////
1	univ Leves L	LOCATED 2233	FEET FROM	A THE OUULD	ILLISE AND	660 FE		12. County	mhhhhhh
Ţ	17.	01	01-22		AIIIIIIA	11111811	111111		
		SEC. 34 TWP.				MITT		Eddy	
1		16. Date T.D. Heas	4					r 1	. Elev. Cashingherd
\$ 4	2-28-73	5-20-73	6-6-	-73	RKG:	3312', G	R: 3293	j∓ [.	3293'
	20. Optic Depth	21. Pluj Be	iek 7.0.	22. If Multipl	e Compl., How	23. Intervals	, Rotary	Tools	Cable Tools
ų.,	11,476'	11,3	70'	Many	×	Dritled H	> 0-11,	4761	
	24. Producing Interval(s			- Lane		- <u>k</u>	,	<u> </u>	25. Was Directional Survey
	(076							Maie
÷	Top: 11,		m: 11,244	1	. 7.0				
				HOLLO	v 2005				No
	26. Type Diestric and O		14 A.			1997 - L		1	Was Well Cored
i.	Schlumberger	Dipmeter, Ga	mna Ray-Nei	itron-Dens:	ity, Dual I	aterolog	& Micr	0	No
	26.	1 A.L	CASIN	G RECORD (Rep	ort all strings set	t in well)	. Late	rolog	•
	CASING SIZE	WEIGHT LB./FT	DEPTH S	ET HOL	ESIZE	CEMENT	ING RECO	RD	AMOUNT PULLED
-	13-3/8"	43排	425	17.	.1/2" 47	5 sx - cu	at to e	nrf	None
\$	9-5/8"	36#	2,582			0 sx - cr			
		and the second sec							None
la de	<u> </u>	23#	8,500	and the second second second second second second		0 <u>sx</u> - to	op eme	<u><u><u>a</u> 6450</u></u>	None
1 -				0.	1/4" to TD	1			
1	23.	LINE	RRECORD			30.	TL	JBING REC	10PD
	SIZE	TOP	SOTTOM 5	ACKS CEMENT	SCREEN	SIZ.E.	DEP	TH SET	PACKER SET
1	5"	8,270' 1	1,476	495		2-7/8	10,	998 1	10,998'
÷.						T			
ŝ.	31. Perforation Record (Interval, size and nu	mber)	· · · · · · · · · · · · · · · · · · ·	1 39. ACI	ID, SHOT. FRA	ACTURE, C	CEMENT S	OUEEZE, ETC.
to the second	Morrow Zone:			2-11 1161	DEPTH INT				IND MATERIAL USED
÷.									
14.14.1 ×	11,12211,130				p. clostle				of 7-1/2% acid
÷.	& 11,086-11,0	byr, wyd lets	ILE (LOCAL	or /4			w/no_br		
1.4	holes)			•	11,036'.	-11,2441	<u>4000 ga</u>	<u>illons</u>	of 7-1/2% acid.
1	I.D. of holes	3 0.33"	·			<u> </u>			
1. 2.1	33.	·			UCTION				-
2	Date Pirst Production	Productio	n Method (Flowig	is eas lift, proup	ing Size and ty	bs brunb)	· · ·	Well Stat	us (Prod. or Shut-in)
ý.	6-7-73	Flo	wing					Shut-	in
	Bure of Test	Hours Tested	Choke Size	Predin. For	Cil - 351.	Gas MCF	Water	- Bbi.	Cas-Oil Ratio
7	6873	4	18/64"	Test Period	None	225	N	one	Gas well
	Flow Tubing Press.			011_B61	Gris - MCF	a di ka 🏹 mangangan ang ang ang ang ang ang ang ang	er Pbl.		I Gravity - API (Corr.)
		O . Di-	Coloubsted 24- Hayr Rate	No	a 🚺 🛃 👘 🖓 👘	1 1			t in the second s
1	700	0?kr	·>	None .	1,350		None		
1	34. Disposition of Gap (\sim			Witnessed	
	Vented during	· · · · · · · · · · · · · · · · · · ·	d above tea	st			Têi	ry Cla	Y
	35, List of Allochuests	· · · · · · · · · · · · · · · · · ·							
÷	2 sets logs a	uid DST data			-				
	35. I hereby certify that	t the information show	in on both sides c	of this form is tre	ie and complete to	o the best of m	y knowleds	e and beli	ef.
	1 11	$\alpha \cap A = -$	Ers. A		-	-			
	- The	Clay	T D Clar	מי ע	etroleum Er	nginaar			6-18-73
	Stand and a stand of the stand	J.	1. <i>D</i> . 010	TITLE	CECOLEUM R!	Sincer		DATE	<u> </u>
	L								

INSTRUCTIONS

This form is to be filed with the appropriate Diatter Office of the Completion not later than 20 days after the completion of any newly-dilled or despised well. It shall be accordanced by one copy of all electrical and rado-activity logs one of the well and a summary of all special tests con-dected, including dail star, tests. All degree reported shall be measured depths. In the case of directionally drilled wells, the vertical depths shall be reported for each zone. The form is to be filed in quintuplicate exception state load, where six copies are required. For multiple completions, Items 50 through 34 shall be reported for each zone. The form is to be filed in quintuplicate exception state load, where six copies are required. For Bulle 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeas	tern New Mexico	Northwesters New Mexico						
T. Salt B. Salt T. Yates T. 7 Rivers T. Quech T. Grayburg	T. Strawn 9921 T. Atoka 10478 T. Miss	T. Ojo Alamo ' T. Kirtland-Fraitland ' T. Pictured Cliffs ' T. Cliff House ' T. Menefee ' T. Point Lookout ' T. Mancos '	F. Penn. "C" f. Penn. "D" f. Leadville f. Madison f. Elbert f. McCracken					
T. Glorieta T. Paddock T. Blinebry T. Tubb T. Tubb T. Drinkard T. Abo T. Wolfcamp -5149 T. Ponn	T. McKee T. Ellenburger T. Gr. Wash T. Granite T. Delatzare Sand 2330 T. Bone Springs 4751 T. Morrow 10920 T.	T - Gallup Pase Greenhorn T. Dakota T. Morrison T. Todilto T. Entreda T. Chinle T. Pemián T. Penn. "A"	I. Granite T. T.					

FORMATION RECORD (Attach additional sheets if necessary)

							······································
From	. To	Thickness in Peet	Formation	From	To	Thickness in Feet	Formation
0	425		Gravel & 1s	1.0628	10708	80	Limestone & shale
425	525	.100	Ls & gravel	10708	10759	51	Limestone
525	1482	957	Sand & dolomite	10759	10803	49	Limestone, chert & shale
1482	2.582	11.00	Sand, Ls & dolo	.10808	10850	42	Chert & shale
2582	4370	1788	Sand & shale	10850	10935	85	Limestone
4370	5295	925	Ls & shale	10935	10977	42	Sand
5295	5912	617	Limestone	10977	11026	49	Limestone (2)
5912	6075		Sand, shale & ls	11026	11083	57	Liméstone & shale
6075	6245	1	Shale	11083	p.1127	44	Sand & shale
6245	7298	1	Limestone & shale	11.127		24	Sand
7293	7725		Ls, shale & sand	11151	11223	72	Shale .
7725	8085	1	Limescone	11223	11325	102	Sand the state of
8085	8440		Sand & limestone	11325	11378	53	Limestone, sand & shale
8440	8520		Limestone	11378	11403	25	Limestone & sand
8520	8665	1	Shale & limestone	11403	11418	15	Shale, limestone & pyrite
8665	8800	1	Shale	11418	11476	58	Shale, limestone & sand
8300	9320	1	Shale & limestone	[T.D.	1 ···	
9320	9682	1	Shale	1			
9682	9750		Limestone & shale				
9750	9887		Shale		1.5	•	The second
9837	9981	•	Limestone			· ·	
9981	10030	1	Limestone & shale				
	10233		Limestone				
	10335	6	Limestone & shale			1 ·	
10335	10410	1	Sand & shale				
1041.0	20471	61	Limestone				
10471	10545	74	Limestone & shale			1	
1.0545	10628	83	Limestone				La construction de la constructi

THE SUPERIOR OIL COMPANY

STATE "Q" CON #1 2235' FSL & 560' FWL SECTION 34, T-21-S, R-26-E WILDCAT - MORROW EDDY COUNTY, NEW MEXICO

DRILL STEM TESTS

4-7-73 DST NO. 1 8865'-8960', WOLFCAMP

5/8" bottom choke, 1000' fresh water cushion. Set pkr @ 8865'. Opened tool at 2:30 a.m. w/weak blow for 10 min pre-flow. Closed in 1 hour. Opened tool for 2 hour test on 1/4" choke incr to 3/4" choke after 30 mins. Gas to surface in 1-1/4 hours w/max TP 24 psi on 3/4" choke decr to 2 psi TP at end of test. Final gas flow estimate at 100 MCFPD. Closed-in-at_5:40 a.m. for 3 hour FSIP. POH and rec 1000' water cushion plus 350' heavily gas cut mud and condensate. Sample chamber recovered 3.7 cu ft gas and 1400 cc condensate. 1 hour ISIP 3665, FP 460-507, 3 hour FSIP 3780, HP 4468 in & 4465 out, press charts showed zone very tight.

4-22-73 DST NO. 2 10,024'-10,095'

HCWCO tester on 3-1/2" DP, 1000' 10.2# SM cushion, 5/8" BHC, pkr at 10,024'. Tool open @ 1:35 p.m., 4-21-73 for 15 min pre-flow, weak blow of air increasing to good blow in 15 mins. Took 1 hour ISIP. Opened tool for 85 mins test @ 2:50 p.m.. Had gas to surface in 5 min, w/max 33 psi surface press on 1/4" choke after 30 mins. Changed to 3/4" choke & press bled to 0# after tool opened total 1 hour, Maximum gas flow rate 150 MCF/day. Packer failed after tool had been open 65 mins. Shut tool in after 85 mins & attempted to take I hour FSIP. Pulled pkrs loose. Started POH & found 9245' of fluid in DP. Reversed out 8745', slightly gas cut drig fluid & 1000' water cushion. Finished POH. IHP 5362#, I hour ISIP 4382 psi, 65 min flow press 397 psi - 507 psi. Final shut in press no good. BHT 165° F. Recovered from sample chamber 0.1 cu ft gas @ 60 psi & 1850 cc drig fluid.

5-10-73 DST NO. 3 11,020'-11,151'

HCMCO tester 5/8" bottom choke, 1000' salt water cushion. Set pkrs @ 11,016' & 11,020'. Tried to open tool @ 6:00 a.m. this morning, would not open. Now POH to check tool & rerun.

5-11-73 DST NO 3-A 11,015'-11,151'

HCMCO Tester 1000' 10.2# salt water cushion, 5/8" bottom choke, pkrs @ 11,010' and 11,015'. Opened tool at 8:00 p.m. w/weak blow for 15 mins pre-flow. Shut-in for 1 hour ISIP. Opened at 9:15 p.m. for 1-1/4 hour test, weak to strong blow thruout. Shut-in for 1-1/2 hour FSIP. POH. Recovered 1000' salt water cushion, 1500' drlg fluid & 380' 9.6# formation water. 1 hour ISIP 4523 psi, FP 612 - 1137 psi, 1-1/2 hour FSIP 4346 psi, HP 6021 in and 5977 out, BHT 162° F.

NEW POOLS

a) It is recommended that a new <u>gas</u> pool be created and designated as the <u>BURTON FLAT-ATOKA GAS</u> Pool.

Vertical limits to be the <u>Atoka</u> formation and the horizontal limits should be as follows: <u>As shown in Paragraph (a), Exhibit I</u>

b) It is recommended that a new gas pool be created and designated as the BURTON FLAT-STRAWN GAS Pool.

Vertical limits to be the <u>Strawn</u> formation and the horizontal limits should be as follows: <u>As shown in Paragraph (b), Exhibit I</u>

Discovery well was <u>Monsanto Company - Burton Flat Deep Unit #3</u> located in Unit <u>V</u> Section <u>3</u> Township<u>21S</u> Range<u>27E</u> and was completed on April 16, 1973 . Top of perforations is at 10,208 feet.

c) It is recommended that a new gas pool be created and designated as the CARLSBAD-CANYON GAS Pool.

Vertical limits to be the <u>Canyon</u> formation and the horizontal limits should be us follows: <u>As shown in Paragraph (c), Exhibit I</u> Discovery well was <u>Morris R. Antweil - Randall #1</u>

located in Unit K Section 21 Township225 Range27E and was completed on July 3, 1972 . Top of perforations is at 9930 feet.

NEW POOLS

It is recommended that a new ______ pool be created and designated d) as the <u>HAPPY VALLEY-MORROW GAS</u> Pcol. formation and the Vertical limits to be the _____Morrow____

horizontal limits should be as follows: <u>As shown in Paragraph (d), Exhibit I</u> Discovery well was ______ The Superior Oil Company - State Q Com. #1

located in Unit <u>L</u> Section <u>34</u> Township <u>215</u> Range <u>26E</u> and was completed on

e) It is recommended that a new gas pool be created and designated as the LAHUERTA-MORROW GAS Pool.

1.

Vertical limits to be"the <u>Morrow</u> formation and the horizontal limits should be as follows: As shown in Paragraph (e), Exhibit I Discovery well was <u>Cities Service Oil Company - Cawley A Com. #1</u> located in Unit K Section 28 Township 21S Range 27E and was completed on

It is recommended that a new _____ pool be created and designated as the ______ Pool.

Vertical limits to be the ______ formation and the horizontal limits should be as follows:

Discovery well was located in Unit____Section___Township___Range____ and was completed on • Top of perforations is at _____ feet.



م نسبتی می مربع میشین

COUNTY	Eddy			POOL	Bu	irtor	1 Fl	at-	-Str	awr	Ga	15				
TOWNSHI	P 219	5		RANGE		271	5		NMF	M						
		1							\square							
╼╋╦╍╉╍╍					<u></u>		-{	<u>†</u>			-	-				
╾┼╾┼╌╴	┼╌┼╌╴					}}-		┨───	┼─┼	-+-			1			
	<u>↓</u>	L 5 -		 	4	┝╌┨╌		3 —	┝╍┠		· 2-	- -		L		
					 			Ì			1					
												ł				
							-									
	╀╌╀╌╴	┠╼╼┠╼╸	+	<u>├</u>	1					+-	-+-		╉╼╍			
	<u> </u>	}{		┠	┨	<u> </u>			┼╌┼				╂╼╼	┠		
7_	$\frac{1}{1}$	- 8 -			ģ	 		0-	┟┈╁		'n			1-i	2	
		<u>i i</u>	1-		1			1								<u> </u>
			{			{].	ŀ	ł					1	Ì		
			T		1					1	T		1			
	┼╌┼──	┟──┟─	+	 	†	┟╌╂╴	-†	1	<u>†</u> †	-+	-†-		1	<u> </u>	<u> </u>	
	╶╁╌╌╂╌╌╴	-17		╂──┼╸┆	16 –	┼╌┨╌	-+-1	L5	┼─┼	+	-14	+	+	├-1	3	<u> </u>
	┦──┠──		_ <u></u>	┠	╂	┝╌╢╴			┼──┼				+	┨		
	┼┈┠┈		-		<u></u>	<mark>└──</mark> ┠─		<u> </u>	↓↓↓			_		<u> </u>		ļ
			<u> </u>					1					<u> </u>	<u> </u>		
												1	14		1. ···	
	┼╾╂╌╴	+ 20 -	-		2 [:] 1			22			23			T 2	4- 	
	┼╍╂╍╸	╁╦╂╼		╏╌┼╌	+	┼╌╂╴			+		+		+	+	†	<u> </u>
╾┽╾┼╾	┿╌╉━╸	┿╌┾╴		╂╾╌┼╾╍	╉╍╍	+		╉╼╼	┼╌╂	-++	╼┿╸	╼┾╼╸	+	+		+
	<u> </u>	┨┨		╂╌┠╌		+	<u> </u>		┼╌╂		-+-		+		<u> </u>	_
		- 29			1 28 -		_	, 27 -	┶╌┧		· 26			+ 2		
Ĩ					1						1				1	
			1					T				T	T	Τ	Γ	Γ
	┼╌╂─	╂╌╂╴		+	1-	┼╌╂		1-	+1		-	-	-{	\uparrow	1	1
	╺╂╼╍╂╌┙	+ 32		╉╍╌╂╌╸	33 -	╉╍╉		34-	┼╌┨		-35			+:	36 -	╂
		╉╼╋		┨┈┠┈		╉╼╂								+		
				1				1						<u> </u>	<u>i</u>	1
Purpose																
<u>Discove</u> #3-V, S																
	_								u 4*		-73			911		
Strawn	perto	ratio	ons	trom	10	,208	-250	· ر								
		<u></u>														
	······															
Propose	ooα b	1 boi	unda	ary. of	utl	ined	in	qr	een	• •••	ii ii					
Propose	d poo	1 boi	unda	ary <u>o</u>	utl	ined	in	gr	een							
Propose	d poo	1 bot		ary <u>o</u> ec. 3			in	gr	een							

Liga/

CASE 5053: (b) CREATION OF A NEW GAS POOL COUNTY Eddy POOL Burton Flat-Strawn Gas

ran contr

COUNTY	Eddy	FUUL	POOL Carlsbad-Canyo								
TOWNSHIP	225	RANGE	27E	2	NMPM		ودونكميسيون				
6	5-			· . 3		 - 2			1		
		4									
										,	
7				+ 10 -		- 11 -			-1		
						- 11 				2	_
				<u> </u>		<u>.</u>	<u> </u>				
						- 14 -				3	L
							<u> </u>				
											L
19		21_	•	- 22 -		- 23-			- 2.	۸_	
	20									-1	
											L
	29-			-27-		! - 26 -			- 2	5	
	25					~					
							1				
31				- 34-		 35				6	L
							<u> </u>	 			L
Purpose:	One compl	eted gas	well	capab	le of	prod	uci	ng			
	v.	· · · · · · · · · · · · · · · · · · ·		·							
	well: M										
	T-22S, R-			1 7-3-	72 th	ough	Ca	any	on		
perforat	ions from	9930-47'	•			•.					
s ¹ Alisesed 		a									
roposed	pool bound	ary outl	ined i	n gre	en						
	Sec	. 21: S	/2								



Sec. 34: W/2

TOWNSHIP	215	RANGE	27E	NMPM	
6		4 -	3		
7					
					12
					- · · J J J
	17-				
Ĩ					
	┨╌┨╌┨			· · · · · · · · · · · · · · · · · · ·	
	20-	21.	22	23	
	╉╼╋╼╋╼╇		┥┥┥		╺┿╌╄╌┾╌┾╼┾
		20	27	26	
				╌┼┈┠┈╁╌┼	╌┼╌╂╾┼╌┼
	╺╉╸┨╺╂╸╢	┣━┥━┥━	╺┿╍┩╴┼╶┼	╶┼╶┼╌┼╶┽	
┟╍╍┟╼╍┝╸	╶╂╍┼╍┼		╺┼╍┠╾┼╧┽		╶┼╌╂╌┼╌┼
	+-+ 32 +			1	
┝──┼──┼──┼╸	╶╂╌╀╌╀╴╀	╌╂╌┼╌┼╴	╶╁┈┠╌┞╶┼		╾╂╌╂╾╀╌╀╴╀
		<u> </u>			
Purpose:	One comp	leted ga	is well ca	pable of p	coducing
		÷			
					/ A Com. #1-1
				20-73 throu	igh Morrow
pertorati	lons from	11,202-3	106'		
<u></u>					
	······································		12		
Proposed		Sec. 28:	lined in	yreen	
		Jec. 20:	0/2		· · · · · · · · · · · · · · · · · · ·
		<u></u>			
	\sim			·	

CASE 5053: (e) CREATION OF A NEW GAS POOL

C.
TOWNSHIP	17S			RAN	GE		28	Е			NM	PM						_	
	R				· · · · ·														
6		- 5				 							 - 2				 1	-	
		ر ا				• 	L										Í		
7		 - 8 -			. (l 9			- 10				-11				-1	,	
		_ _		 		ļ	а 								_				
	\mathbf{I}					ļ								_					
	-						ļ												
		-17-			- 1	6		<u> </u>	-1	;			 		<u></u>	<u> </u>	 -1	3	
						<u> </u>										_			
	┨─┤														-				
	 														_				
	_	- 20			- 2	! 1—	· ·	<u> </u>	- 2:	2			- 23	3-			- 2	4-	
					-	 								~					
		- 2 <u>9 -</u>			2	 8			ا 	2			! ⊢2€	<u>,</u>			- 2:	5	
			ि			Ļ						; 							
_		_																_	
															-	_			
		 - 32			3	3			- 34	4			- 35	;		_	 - 3	5-	
				<		Ļ											$\tilde{1}$		
urpose:	One	comp	let	ed	oi	1	wel	1	cap	abl	Le	of	<u>þ</u> r	odu	cir	ig			
		-	- <u></u>																
perator hn R. Gr		Leas		C+-					• • • • • •								or SR	m.	
m R. GI	ay	Pan	Am	500		2			20	- L /	/-2	0	<u> </u>	2-7	<u> </u>		51		
	·											` <u> </u>							<u>_</u>
						.											<u>.</u>	· · · ·	••••••
ool boun	darr		1;~	50	 ; ~				<u> </u>										•••
JUL DOUN	uary	Juc	T T T	eu	T 1	1 L	<u>eu</u>												
roposed	pyto	neio	n		 i r		 i r	n d		—— ກ									
		. 28						- 9				<u> </u>					~		
	580	• 20	• 1		<u> </u>		/ +										· • •		
i															<i>-</i>				<u> </u>
		<u> </u>																	,

	MINO	HIF		24	Sou	ţb_	وحشمر	RAN	GΕ	37	Eas	st			NM	IPM						,	
₹ I																							
			-						÷.,					_								ł	
	- 6	5 -			– !	5 1		1 a 1 a 1 a	4	1				3								L } .	1
						†																	1
					<u> </u>	<u> </u>																	┼─
				77			┝╌┷┥															╂	┢╌
.	*	7 -			<u></u>	3			4	' ≹-===			-1	Ð			- 1	1-			-1	2-	<u> </u>
ļ			· .			 																 	
					ļ	<u> </u>		<u> </u>														<u> </u>	
					. *																		
									Ι.,	L				-							Ι,		
Ì		8-				7		1	- 1	6 			1	5 -			L	4				.3 	Ē
			5		1			[1	1
1	<u>h-</u>	†'			+	 				<u>†</u>	<u> </u>			а	ţ	1					[\uparrow
<u>}</u>	<u> </u>	 			 						<u> </u>	<u> </u> _,		4 str 	<u> </u>	 					<u> </u>	†	╋
 -	 −1	9 -		ļ	+ 2	0	<u> </u>		- 2	1	<u> </u>	 	- 2	2	 		- 2	3-			- 2	4-	+
[<u> </u>		<u> </u>		┨			 	 						1. <u>-</u>	İ						┨──	╞
┣	<u> </u>	 		 		 		Í	{	 		 				<u> </u>						-	+
 	Ļ	 		 	 	 	ļ	<u> </u>			ļ	 				 					ļ		1
<u> </u>	13	1 10 -				! 9-			2	 8-			- 2	7 -			- 2	6			L,	 5~	1
		1				1		Ì		1				·								ĺ	
	1	1									[Γ				14				Τ
					1		<u> </u>	1		 					1			;				1	T
	<u>†</u>	 		[<u> </u>	†		ļ —				· ·								1	\uparrow
 	+ 3	1-			+ 3	2 -	┝──	-	-3	3			- 3	4		ţ	- 3	5 -			+-3	<u>1</u> 6 -	+
	<u> </u>				 	<u> </u>					<u> </u>	<u> </u>				╂──					<u> </u>	{	÷
ļ								1]	Capare				1						2	1
DIT	RPOS	SE:	Oi	ne (com	ple	ted	01	1 w	<u>e11</u>	ca	pab	lec	of	pro	duc	ng.			~~~~			
.£U.						OMP.	ANY	- 1	Mat	tix	#2	in	Uni	it .	Jo	E Se		lon	10-	-24-	-37	•	Col
CO	NTI	NEN'	ral.	01	L C					10	73.	T	op q	of	Per	fora	atio	ns	74(16'			
<u>_CO</u>	et£	NEN'	FAL	ė́v <u>o</u>	nia	n o	n J														• 		
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i	<u>r/r</u>	ed.							·			. —		•		
<u>CO</u> p1 Po	et£	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i	<u>r/r</u>	ed.							·					•		
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i	<u>r/r</u>	ed.							·					•		
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i	<u>r/r</u>	ed. lor	eđ	in		en.			·					•		
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i	<u>r/r</u>	ed. lor	eđ	in	gre	en.			·				4	•		
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i	<u>r/r</u>	ed. lor	eđ	in	gre	en.	S	ECT	ION	10		SE/4	4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i	<u>r/r</u>	ed. lor	eđ	in	gre	en.	S	ECT	ION	10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT	ION	10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT	ION	10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT	ION	10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT	ION	10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT		10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT		10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT		10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT		10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT		10		SE/(4			
<u>CO</u> p1 Po	et <i>č</i> . 01 1	NEN 1 bou	ral N	έν <u>ο</u> τ'/	nia col	n o ore	n J d i		ed. lor	eđ	in	gre	en.	S	ECT		10		SE/(4			

CASE 5003: (g) EXTENSION OF AN EXISTING OIL POOL COUNTY LEA POOL FOWLER-DEVONIAN



TO	WNS.	HIP		19	Soi	ith		RAN	GE		34_1	East	t		NM	IPM								_
																				1				
										[Ţ								Ţ		
	6 1	, –				5 [°]			'	4 1		1		3				2 				1 1		{
			1				-				1											TE		ĺ
												Î										1	1	ŧ.
	1					1				1		Ţ		1				[[1.00		1
	- 7				1	8 — 1	1			9 1	1		「 」	.0 		 	- 1	1 1			[,]	.2 !		1
					-																			
																							2.0]
	-1]				1		[A						
		8 -			-1	/- 			- 1	.o -]		.5			۱	4 -				3		
]
	1'	<u>م</u> _			2	0 –			.,	1		•		2-			2	3-]
				15													1				2	4		
							[
				1]
	3					l 9-			2	 :8		<u> </u>		 !7-		<u> </u>	L,	! 6-				5-		
 								Ì						<u> </u>										
-																								.
										 											ļ			
	- 3	1				 2 -		<u> </u>		! 13 -				 34				 5 -				 6		}
						Į	 	_		ļ		_		Ĺ				ļ				Į	<u> </u>	1
-]
200	RPOS	E:	0	ne_	con	p1e	ted	_01	1_w	e11	ca	pab	1e_	of_	pro	duc	ing	.						•-
																							-19	
34	<u> </u>	lomp	ole	ted	in	Sa	n A	ndr	es	on	Jun	<u>e 2</u>	7,	<u>197</u>	3	То	p_o	f P	erf	ora	tio	ns.		-
<u>8</u>	70'.												-		:		-		•				·····	.
200	<u>ol t</u>	our	<u>ıda</u>	<u>ry</u>	<u>co1</u>	ore	<u>d í</u>	n r	ed.											a ingi	-2.3/2	<u>40</u>		
Pro	opos	sed	ро	01	ext	ens	ion	co	<u>lor</u>	ed	in in	gre	en.	S	ECT	ION	_24	•	se/	4				**
														· · · · · · · · · · · · · · · · · · ·										•'
									<u> </u>															
		^	<u></u>													<u> </u>					·			
														· · · ·							•			
		·												·										
						- ~~								•					1.47					·

(4)

- -----



Carlos de La



TOWNSHIP						
TOUROUTI	185	RANGE	25E	NMPM	· · · · · · · · · · · · · · · · · · ·	
					2	
6	- 5 5			3		
7	8			10	- 11	-12
					· ·	
					· · · · · · · · · · · · · · · · · · ·	
			6	-15		-13
	20	2		- 22	- 23	24
						┼╴┢╍┿╍┪
					++-+	+
						<u>}</u>
	29	2	8 + - + - +	-27	26	- 25
╶┼┈┼╌┼╴				╶┼╌┼╍╴┨╌	┼╌┼╌┼╌	
╺┾╺┼╼╁╴	╾╊╼┿╍╅╌╌┼╌		┝──┤╌╺┨╌╸┽	╾╆╍┾╍┦╌	┼╌┼╌┼┈╂┈	+
╶╂─┼╶┼				╶╌┨╌┼╌┼╌		
-+ 31-+		3	3		- 35	
╶╉╌┨╼╉				╍╋╍╋╍╋	┼┈┼╾┼╌╋╌	┨╌┼╌┼╌┫
					f producir	
rpose:	Two comple	eted ga	is wells	capable C	of producir	<u></u> .
erator	Leas			Ut. S.T.F	. Comp.	Form.
			· · · · · · · · · · · · · · · · · · ·			SA
ites Pet	r Corp Fede		$\frac{1-1}{4}$		24 5-3-73	SA-Yeso
<u></u>			_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _			
	، ، مرجع میں مرجع مرجع مرجع مر جع	·	. <u></u>		······	
	5.5 				:	<u></u>
201 boun	dary outlin	ned in	red			••••••••••••••••••••••••••••••••••
	· · · · · · · · · · · · · · · · · · ·		ed in gre			

CASE 5053: (k) EXTENSION OF AN EXISTING OIL POOL (Continued on next page) COUNTY Eddy POOL Penasco Draw-San Andres-Yeso

r

Operat	tor		Lease		ŧ	‡ & U	t. S.T.R.	Comp.	Form.	TOP
Yates	Petr	Corp	Federal	AB	Com	1-M	32-18-25	3-4-73	SA	1049
11			11	CM	11	1-M	12-19-24	5-3-73	SA-Yeso	1021

.

Sec. 32: W/2

11.

333.0



CASE 5053: (k) EXTENSION OF AN EXISTING OIL POOL (Continued) COUNTY Eddy POOL Penasco Draw-San Andres-Yeso

1777

<u>f</u>

~;;

COUNTY E		POOL	•	Draw-San And	res-Yeso
TOWNSHIP	195	RANGE	25E	NMPM	
	- 5 1			2	
	8	9			
			15		
	20	21	22	23-	24
	29			26-	25
31		33		35	36
Purpose:				his exhibit	
		on pug			· · · · · · · · · · · · · · · · · · ·
		· 3			
			en e		•••
Pool boun					······································
Proposed			d in green NW/4 & N		
Addition		. 7: W/2			
	<u> </u>				••••••••••••••••••••••••••••••••••••••
-	: : :			· .	

CASE 5053: (k) EXTENSION OF AN EXISTING OIL POOL (Continued on next page) COUNTY Eddy POOL Penasco Draw-San Andres-Yeso

TOWNSHIP	235	RANGE 24		MPM		
6	+			2	<u>1</u>	
	╉┈┼╌┼╌┾╴				· · · · · · · · · · · · · · · · · · ·	
╺┿╾┝╌┝┈						
			State of the state			
7	8	9	10		12	
				++++		
					······································	
		16				
	十-17-十			14		
	20	21	22	23	24	. •
					11 A.	
					25	
	29		27	26	25	
					5.2 · · · · · · · · · · · · · · · · · · ·	
	32			35	36	
arpose:	One compl	eted gas w	ell capable	of produc:	ing	
perator	Lease	*	t. S.T.R.			ÓP
lobe Oil			11-23-24		ower Morr l	
	22	· · ·				-

CASE 5053: (1) EXTENSION OF AN EXISTING GAS POOL COUNTY Eddy POOL Rock Tank Lower-Morrow Gas

Pool boundary outlined in red

Proposed extension outlined in green

Sec. 11: E/2, E/2 SW/4, S/2 SE/4 NW/4 & NE/4 SE/4 NW/4

COUNTY	Chaves	رج مست	FOOL	Rou	ind	Tan}	<-Q	ueen								
TOWNSHIP	155		RANGE		28E			NMPM	-		•.					-
						-								_		
				4					- :	2			1			
				╁╌┾╴		╉╌╂										
		-+				╈╼╋	-+-	┑╍┠╼╍╍┥			-+	╍┥	+	-+		
					-							-†		1	-1	
				9			1		- 1				-12			
					-		_				~	·				
<u> </u>			· · · · · · ·											_	_	
				6		-1-15	; +		- 1	4-+			-13	;		
	╺╺╂╌┾╌┼			┝╼╾┾╼	-	╉╾╌╄							-+			
		-+		╋╼┿╸		++	-+-			-+	-+	╉	$-\uparrow$	-		
	20				-+	+-+		-					+			
	20					- 22			-2	3			21			
						┽╌┽	\rightarrow				-	_	-			
						╉╍╋						-	-		_	
				8		27	'	-	- 2	6+		-+	- 25	-+		
╶┈╞╼╌┠╌╌┼	╶┨╌┼╌┼					╋╼╊			┠──┨		-+		-	÷-		e tști
				┠╼╍╂╼	- 	┥┯╇		-+	┟╼╼┥	-+	-+	+				
							•					+				
31	32			3		+ 34			- 3	2			- 30			
Purpose:	One comp	plete	ed ga	s we	11 0	capal	ble	of	pro	duo	ring	3			 •·	
)perator Elk Oil (ل (م			5.T.1 36-1			mp.			uee			<u>OP</u>	
	O Amoco	Stat		A		<u>, , , , , , , , , , , , , , , , , , , </u>		<u> </u>	20		<u></u>					°.
ool bour	idary out	cline	ed in	red											•·	
·																
Proposed	Sec. 36			ed in	n gi	reen										
·	Bec. 30										·					
				·	*****	,								<u> </u>		
						<u>`</u>										

CASE 5053: (m) EXTENSION OF AN EXISTING OIL POOL

	TY E		_		₽٨	NGE		八 30E			NM	PM								
TOWN	SHIP	185			111	1.	T		—											
								┟╌╍┨╴	-+-	-+				11			Ţ			
			- 5 ·				4	┼┈╂		- 3	+	╂		2			ב ו	+-		
	· 6					_ İ		┝╸╴┨		_+	+				!					-
								┝╼┛				┢╍╸						-		
				-									. 						-1	
	+-+				T					 10 -			 	 1			-1	2-		
	- 7 -		8	+	1		9-	1									L	\mathbf{L}		
						-														
┟╌╌┝	╼╋╼┥		┟──╋	╼╋╴	╶╂╴		+	+				\top	T							
			┟──┼								-	+-	+	1						
	- 18 - 		1-17	1-+-	_		16			- 15	-+	-{	+	14 -	1	<u>†</u>	╆╹	L3		
	<u>_</u>				_				┝╌╍┼					-+	+	+-	+	+		
IT									┞─┤				<u>+</u>		+	+	+	+		
								_	 				_ -				+		+	1
	-+-						- 21		Ľ	- 22		\bot		23-	+	1-	+ :	2 <mark>4-</mark>	+	
} +	-19-	┼╧╂╌	2	0	1		- 21				<u>.</u>					-		┹	-	
		+																<u> </u>		
		┼╌╂╴	-				-							Γ						
		┼╌╂╴						-+		+		T						25-		1
	-30	┿╼╋╴	+ 2	9-			- 28	;		-27	1+	-+	-	26	1		T	25-		
									- <u> </u>	+		-+	+-		-†	-	-†-	1	1-	1
									<u> </u>	┼──┼	-+	-+	-+				╉	+		1
										╂──╂		-+		<u>-</u> +-			-+-		+-	-
				 32 -			-3	3		- 3	4-+		+	- 35	+-			-36		
	- 31		Τ.						<u> </u>	<u></u>					_+-		-+-			-
		╶┼╌╂			Ţ											<u> </u>				
		e: On		יייו מוזר	let	ed	oì.	L we	11	cap	abl	e q	of	\mathbf{pro}	duc	cin	g :			
-		<u>ر د. مار م</u>		<u> </u>																
	 			[03	CO		# 4	& Ut	•	S.T	•R.	. (Com	p.		For	1.1	<u> </u>		TO
Op	erat	or in As ir Ir	ton				1	- P	12	2-18	-30) 4.	-4-	73	G	ray	bu	rg	(×	351
FI	& Fa	ir Ir	nc	Ya	tea	5 D	L													
											 X			1.1						
	· · · ·				<u> </u>									<u> </u>				•.		
Pc	bol k	ounda	ary	out	<u>-li</u>	ned	in	rec	d										<u> </u>	4·
P	ropos	sed e	xter	sie	on	out	lir	ned	in	gree	en									
		Se	c.]	3:	Ε	/2	NE/	/4		<u></u>									. <u></u>	
		Se	c. 1	12:	S	E/4	I SI	3/4			·									
	•																			
																				•

(**1**)



TOP

NSHIP	205	RANGE	28E	NMPM		
					-2	1
-6-+-					╶┼╌┼╌╀──	
-+-+-						┝╍┼╾┼╼┫
┝╼┼╾┼	-+-+-			0	11	-12
-7+		9				
┠──╂──╊	-+-+-+-					
┟╾┼╾┼	╺╺╂╺┼╸┽╸	┼╌╄╌┼╼┼				
╞╌┼╌╂		+			14	-13
18		+-+-+-1	6	15		
	┝╍╋╦┿╍┿	┽╾╋╼┼╼┥				
	┥┥┥		┝╌┼╌╉╦┼╸		-23	
	20		1-+-+-+	22	- 23 -	
		<u>_</u> <u></u> _	┟╴┼╶┨┈┤ ╴	+++		
			┼╌┼╌╂╌┼			25
	29		28	27	- 26	23
			┶┼╋┿	╧╋╍╋╼╉╼	++++	
			┿╍╋╍┿	╾┼╾┼╾╉╾	++++	
					+++	
	3	2	33	-34		
				╺╍┼╾╌┼╼╾╂╾		
	<i>t.</i>			E this e	whibit	
Purpos	e: As st	ated on p	bage one c	I this e.		
7		· · · · · · · · · · · · · · · · · · ·				
	(×		
					······································	
<u></u>			·	{:::==		
	. 2	·				
Bron	osed exte	nsion out	lined in	green		
p					<u>.</u>	
•	S	Sec. 2: N/	/2	· · · · · · · · · · · · · · · · · · ·		
				1		
·				<u> </u>		

1.0

116 -



(1) Extend the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPMSection 11:B/2, E/2 SW/4, S/2 SE/4 NW/4and NE/4 SE/4 NW/4

(m) Extend the Round Tank-Queen Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 28 EAST, NMPM Section 36: NE/4

(n) Extend the Shugart Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM Section 12: SE/4 SE/4 Section 12: E/2 NE/4

(o) Extend the Winchester-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 34: E/2

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM Section 2: N/2

(p) Contract the vertical limits of the Townsend Pennsylvanian Pool in Lea County, New Mexico, to include the Cisco formation only and redesignate said pool the Townsend-Cisco Pool comprising:

> TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: SW/4

S/2 of said Section 7 would be dedicated.

CASE 5047:

Application of Chace Oil Company for the amendment of Order No. R-4555, Rio Arriba County, New Mexico: Applicant, in the above-styled cause, seeks the amendment of the special rules and regulations for the South Lindrith Gallup-Dakota Pool, Rio Arriba County, New Mexico, as promulgated by Order No. R-4555, to provide for the classification of oil wells and gas wells, the assignment of 320-acre units to gas wells, and to provide for approval of unorthodox locations for wells drilled as oil wells but classified as gas wells upon completion.

CASE 5048:

Application of Roger C. Hanks for creation of a pool and special rules therefor, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the South Dagger Draw-Upper Pennsylvanian Pool for his Preston Federal Well No. 1 located in Unit L of Section 35, Township 20 South, Range 24 East, Eddy County, New Mexico. Applicant further seeks the promulgation of special rules for said pool, including a provision for 320-acre spacing for all wells in said pool, for the classification of oil wells and gas wells, for a limiting gas-oil ratio of 8,000 to 1, and for the assignment of a depth bracket allowable for oil wells of 267 barrels of oil per day.

CASE 5049:

Application of Mobil Oil Corporation for a triple completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the triple completion (conventional) of its Federal "LL" Well No. 1 located in Unit N of Section 13, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, to produce gas from the Canyon, Atoka, and Morrow formations inrough three strings of tubing.

CASE 5050:

Application of Read and Stevens, Inc. for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority Com No. 1 located in Unit & Of Section 20, Rommonly --East, NMPM. Said pool would comprise:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 28: S/2

(f) Extend the East Empire Yates-Seven Rivers Pcol in Eddy County, New Mexico, to include therein:

> TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM' Section 28: NE/4 SE/4

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

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM Section 10: SE/4

(h) Extend the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM Section 1: S/2

Section 2: All

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

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM Section 24: SE/4

(j) Extend the Parrish Ranch-Upper Pennsylvanian Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 13: E/2 SE/4

CASE 5053:

Southeast nomenclature case calling for the creation, extension and contraction of certain pools in Eddy and Lea Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Burton Flat-Atoka Gas Pool. The discovery well is the Monsanto Company Miller Federal No. 1 located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM. Said pool described as:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 3: Lots 1 through 8

(b) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Burton Flat-Strawn Gas Pool. The discovery well is the Monsanto Company, Burton Flat Deco Unit No. 3 located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM. Said pool would comprise:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NY M Section 3: S/2

(c) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and designated as the Carlsbad-Canyon Gas Pool. The discovery well is the Morris R. Antweil Randall No. 1 located in Unit K of Section 21, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

> TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM Section 21: S/2

(d) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Happy Valley-Morrow

(k) Extend the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, to include therein: · 63 934 TOWNSHIP 18 SOUTH, RANGE 29 BAST, NMPM Section 32: W/2 TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 5: W/2 NW/4 and NE/4 NW/4 ADDITION-----SECTION 7: W/2 (Case 5053 continued from Page 3) (k) Extend the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, to include therein: TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM W/2 Section 32: TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 5: W/2 NW/4 and NE/4 NW/4 (1) Extend the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein: TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM Section 11: E/2, E/2 SW/4, S/2 SE/4 NW/4 and NE/4 SE/4 NW/4 (m) Extend the Round Tank-Queen Pool in Eddy County, New Mexico, to include therein: TOWNSHIP 15 SOUTH, RANGE 28 EAST, NMPM Section 36: NE/4 (n) Extend the Shugart Pool in Eddy County, New Mexico, to include therein: TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM Section 12: SE/4 SE/4 Section 13: E/2 NE/4 (o) Extend the Winchester-Morrow Gas Pool in Eddy County, New Mexico, to include therein: TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 34: E/2 TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM Section 2: N/2(p) Contract the vertical limits of the Townsend Pennsylvanian Pool in Lea County, New Mexico, to include the Cisco formation only and redesignate said pool the Townsend-Cisco Pool comprising: TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: SW/4 (Reopened) (Continued from the August 9, 1973, Examiner Hearing) CASE 4745: In the matter of Case No. 4745 being reopened pursuant to the provisions of Order No. R-4363, which order established special rules and regulations for the Penasco Draw San Andres-Yeso Pool, Eddy County, New Mexico, including a provision for classification of oil wells and gas wells, the spacing thereof, and a limiting gas-oil ratio of 3000 to 1.

All_interested parties

Com No. 1 located in Unit L of Section 34, Township 21 South, Range 26 East, NMPM. Said pool would comprise:

T :: 17.

ufec conquest of

E All All Constraints and a state of the second second second second second second second second second second

49 (g. 24) 19

ADDITION-----

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM Section 341-W/2

(e) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the LaHuerta-Morrow Gas Pool. The discovery well is the Cities Service Oil Company Cawley A u. r. R. Soction 28 Townshin 21 South, Range 27

Gas Pool. The discovery well is The Superior Oil Company State Q Com No. 1 located in Unit L of Section 34, Township 21 South, Range 26 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM Section: 34: W/2

(c) - Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the LaHuerta-Morrow Gas Pool. The discovery well is the Cities Service Oil Company Cawley A Com No. 1 located in Unit K of Section 28, Township 21 South, Range 27 East, NMPM. Said pool would comprise:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 28: S/2

(f) Extend the East Empire Yates-Seven Rivers Pcol in Eddy County, New Mexico, to include therein:

> TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 28: NE/4 SE/4

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

> TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM Section 10: SE/4

(h) Extend the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM s/2 Section 1: Section 2: All

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

> TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM Section 24: SE/4

(j) Extend the Parrish Ranch-Upper Pennsylvanian Pool in Eddy County, New Mexico, to include therein:

ار باین از ایرانی در اوران ایک ایک و با

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 13: E/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 18: N/2 S/2 and SE/4 NE/4

a na sina ang ang ana

--- TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM

SECTION 12: S/2

A THE THE A THE HEAD BOILD HAD THE AT A THE AT

1. 1. 1. 1. 1. 1. 5

NOMENCLATURE ADVERTISIMENT FOR AUGUST, 1973 \$05<u>3</u> CASE

In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order for the creation of new pools in Eddy County, New Mexico, and the extension of certain existing pools in Chaves, Eddy, and Lea Counties, New Mexico, and giving notice to all persons and parties interested in the subject matter thereof to appear and show cause why such creations and extensions should

CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for not be made. Atoka production and designated as the Burton Flat-Atoka Gas-Pool. The discovery well is Monsanto Company, Miller Federal No. 1 located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM. Said pool described as:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Lots 1 through 8 SECTION 3:

b) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Burton Flat-Strawn Gas Pool. The dis-Strawn production and designated as the Burton Flat-Strawn Gas Pool. The dis-covery well is Monsanto Company, Burton Flat Deep Unit No. 3 located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM. Said pool described as

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM SECTION 3: s/2

c) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and designated as the Carlsbad-Canyon Gas Pool. The discovery well is Morris R. Antweil, Randall No. 1 located in Unit K of Section 21, Town-ship 22 South, Range 27 East, NMPM. Said pool described and Would Compt

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM SECTION 21: S/2

d) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Happy Valley-Morrow Gas Pool. The discovery well is The Superior Oil Company, State Q Com No. 1 located in Unit L of Section 34, Township 21 South, Range 26 East, NMPM. Said pool described as: USbuild comprise.

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM SECTION 34: W/2

e) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Worrow production and designated as the LaHuerta-Morrow Gas Pool. The discovery Worrow production and designated as the LaHuerta-Morrow Gas Pool. The discovery well is Cities Service Oil Company, Cawley A Com No. 1 located in Unit K of Section 28, Township 21 South, Range 27 East, NMPM. Said pool described as

comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM SECTION 28: S/2

f) EXTEND the East Empire Yates-Seven Rivers Pool in Eddy County, New Mexico,

to include therein:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM

SECTION 28: NE/4 SE/4

Nomenclature August, 1973

-2-

therein:

g) EXTEND the Fowler-Devonian Pool in Lea County, New Mexico, to include therein:

<u>TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM</u> SECTION 10: SE/4

h) EXTEND the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include

TOWNSHIP SOUTH, RANGE 32 EAST, NMPM SECTION 1: S/2 SECTION 2: A11

i) EXTEND the Lea-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM SECTION 24: SE/4

j) EXTEND the Parrish Ranch-Upper Pennsylvanian Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM SECTION 13: E/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM SECTION 18: N/2 S/2 and SE/4 NE/4

k) EXTEND the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM SECTION 32: W/2

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM SECTION 5: W/2 NW/4 and NE/4 NW/4

1) EXTEND the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein:

/ TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM SECTION 11: E/2, E/2 SW/4, S/2 SE/4 NW/4 and NE/4 SE/4 NW/4

m) EXTEND the Round Tank-Queen Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 28 EAST, NMPM SECTION 36: NE/4

n) EXTEND the Shugart Pool in Eddy County, New Mexico, to include therein:

S. Sec.

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM SECTION 12: SE/4 SE/4 SECTION 13: E/2 NE/4 Nomenclature August, 1973

o) EXTEND the Winchester-Morrow Gas Pool in Eddy County, New Mexico. to include therein:

V TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM SECTION 34: E/2

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM N/2SECTION 2:

(p) Contract the serviced timets of the Townsend Demogrammer Port in hea County, hew mercod to include the Cisco formation only and Hedesignate to said poul the Townsend Cisco pool comprising. Township 16 Santh Rauge 35 Past, DMPM Section 4: 510/4

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. <u>5053</u> ORDER NO. R-<u>4622</u>...

THE APPLICATION OF THE OIL CONSERVATION COMMISSION UPON ITS OWN MOTION FOR AN ORDER CREATING, CONTRACTING VERTICAL LIMITS, AND EXTENDING HORIZONTAL LIMITS OF CERTAIN POOLS IN CHAVES, EDDY, AND LEA COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on August 22, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on-this_____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.

 $\sqrt{(2)}$ That there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Atoka formation, said pool to bear the designation of Burton Flat-Atoka Gas Pool. Said Burton Flat-Atoka Gas Pool was discovered by the Monsanto Company Miller Federal Well No. 1, located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM. It was completed in the Atoka formation on May 1, 1973. The top of the perforations is at 10,658 feet.

(3) That there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Strawn formation, said pool to bear the designation of Burton Flat-Strawn Gas Pool. Said Burton Flat-Strawn Gas Pool was discovered by the Monsanto Company Burton Flat Deep Unit Well No. 3, located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM. It was completed in the Strawn formation on April 16, 1973. The top of the perforations is at 10,208 feet.

(5) That the proposed creation of a new pool in Section 21, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, for the production of gas from the Canyon formation should be dismissed, pending further study

(5) That the proposed creation of a new pool in Section 34 Township 31 South, Range 26 East, NMPM, Eddy County New Mexico, for the production of gas from the Morrow formation should be dismissed, pending further study.

(6) That the proposed creation of a new pool in Section 28, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, for the production of gas from the Morrow formation should be dismissed, pending Further study.

-2-CASE NO. 5053 ORDER NO. R-

<-(7) That there is need for the contraction of the vertical limits of the Townsend-Pennsylvanian Pool in Lea County, New Mexico, to include only the Cisco formation due to a completion in Pennsylvanian other than the Cisco zone in the immediate area. Said Townsend-Pennsylvanian Pool shall be redesignated the Townsend-Cisco Pool.

(8) That there is need for certain extensions to the Round Tank-Queen Pool in Chaves County, New Mexico, the East Empire Yates-Seven Rivers Pool, the Parrish Ranch-Upper Pennsylvanian Pool, the Penasco Draw San Andres-Yeso Pool, the Rock Tank-Lower Morrow Gas Pool, the Shugart Pool, and the Winchester-Morrow Gas Pool, all in Eddy County, New Mexico, the Fowler-Devonian Pool, the Hat Mesa-Morrow Gas Pool, and the Lea-San Andres Pool, all in Lea County, New Mexico.

IT IS THEREFORE ORDERED:

(a) That a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production, is hereby created and designated as the Burton Flat-Atoka Gas-Pool, consisting of the following described area:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Lots 1 through 8 SECTION 3:

(b) That a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production, is hereby created and designated as the Burton Flat-Strawn Gas Pool, consisting of the following described area:

> TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM SECTION 3: S/2

Mat the proposed creation of a new pool in Eddy County, New Mexico, ified as a gas pool for Canyon production and designated as the Carlsbad -Caryon Gas Pool, consisting of the following described area: Township 22 South, Range 27 East, NMPM 21: Section

is hereby dismissed

(D) That the proposed creation of a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Happy Valley. Morrow Gas Pool, consisting of the following described area.

Township 21 South, Range 26 East, NMPM

Section 34: W/2

is hereby dissmissed

(c) That the proposed creation of a new pool in Eddy County New Mexico, classified as a gas pool for Morrow production and designated as the haltwerta -Morrow Gas Pool, consisting of the following described area : Township 21 South, Range 27 East, NMPM

Section 28: 5/2

hereby dismissed

TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM SECTION 10: SE/4

(h) That the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 21 SOUTH, RANGE 32 EAST; NMPM SECTION 1: \$/2 SECTION 2: A11

-3-CASE NO. 5053 ORDER NO. R-____

2...

(i) That the Lea-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM SECTION 24: SE/4

(j) That the Parrish Ranch-Upper Pennsylvanian Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM SECTION 13: E/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM SECTION 18: N/2 S/2 and SE/4 NE/4

(k) That the Penasco Draw San Andres-Yeso Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM SECTION 32: W/2

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM SECTION 12: S/2

PÓWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM SECTION 5: W/2 NW/4 and NE/4 NW/4 SECTION 7: W/2

(1) That the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMP SECTION 11: E/2, E/2 SW/4, S/2 SE/4 WW/4 and NE/4 SE/4 NW/4

(m) That the Round Tank-Queen Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 15 SOUTH, RANGE 28 EAST, NMPM SECTION 36: NE/4

(n) That the Shugart Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIF 18 SOUTH, RANGE 30 EAST, NMPM SECTION 12: SE/4 SE/4 SECTION 13: E/2 NE/4

(o) That the Winchester-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM SECTION 34: E/2

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM SECTION 2: N/2

(p) That the vertical limits of the Townsend-Pennsylvanian Pool in Lea County, New Mexico, are hereby contracted to include the Cisco formation only and redesignate said pool the Townsend-Cisco Pool comprising:

> TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM SECTION 4: SW/4

-4-CASE NO. 5053 ORDER NO. R-

IT IS FURTHER ORDERED:

(1) That, pursuant to Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, any well which, by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one which is presently dedicated thereto, shall have 60 days from the effective date of this order in which to file new Forms C-102 dedicating a standard unit for the pool to said well, or to obtain a non-standard unit approved by the Commission. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit for the pool. Failure to file Forms C-102 dedicating a standard unit to the well-or-to-obtain a non-standard unit approved by the Commission within said 60-day period shall subject the well to cancellation of allowable.

(2) That the effective date of this order and all creations, contractions of vertical limits, and extensions of horizontal limits included herein shall be September 1, 1973.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman

ALEX ARMIJO, Member

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

SEAL