CASE 4502: Appli. of SAMEDAN OIL CORP. FOR SPECIAL POOL RULES AND POOL EXTENSION, LEA COUNTY.

ŧ

|
|

Number -25eApplication Transcripts. Small Exhibits



	-	
	1	$\mathbf{W}, \mathbf{W}^{\mathrm{eff}} \leftarrow \mathbf{Q}_{\mathrm{eff}} \mathbf{M} = \mathbf{Q}_{\mathrm{eff}} \mathbf{M} + \mathbf{Q}_{$
C.	2	MR. EMPON: Call Case 4500. Application of Samedan
€ ***	3	oil Corporation for special pool rules and pool extension,
• • •	4	Lea County, New Mexico.
K	5	MP. KHLLAHIN: If the Examiner please, Jason
	6	Kellahin, Kellahin and Pox, Santa Fe, appearing for the
	7	Applicant.
dearnley-meier	8	We have one witness I would like to have sworn.
ley-I	9	(Mitness sworn)
arn	10	MR. UTE: Are there other appearances? Have
qe	11	you got some exhibits to mark, or are they all marked?
EXPERT TESTIMONY, DAILY COPY, CONVENTIONS • Albuquerque. New Mexico 87103 que. New Mexico 87108	12	MR. KELLAHIM: They are all marked. Here they
	13	are. We put them up on the board here.
ILY COP JEW ME 7108	14	MR. UTZ: Now is that all of them, both of
<mark>юиу, DA</mark> Que. 7 схісо 8	15	them? Have you got more in here?
RT TESTIMO BUQUERO NEW MEN	16	MR. KELLAHIN: Yes, sir.
2		MR. HATCH: These haven't been stamped.
TEMENTS, I 243-6691 BUQUER	18	MR. KELLAMIN: Yes, they have. Those you have got
65, 57АТ Рноие 51.6АГ	19	have been.
IONS, HEARINGS, Box 1002.011	20	JOEL T. BLANKENSHIP
POSITIONS, P.O. BOX BL BL	21	having been first duly sworn, testified upon his oath as
	22	follows:
SPECIALIZING IN: DEPOSITIONS, H≝ARINGS, STATEMENTS. 209 Simms Blog. P.O. Box 1092 €PHONE 243-069 Finst National Jank Blog. East & Albuque"	23	DIPROF EXAMINATION
SPECIALIZIN 209 SIMMS	24	DY MR. KULLANIN:
	25	Q Nould you state your name, please, sir?

A A STATE OF A STATE

÷

•

, i

PAGE O

	1	λ	My name is Joel ". "lankenship. I an employed ar
,	2		a geologist by Samedan Oil Corporation in "idland,
i, L	3		ⁱⁿ exas.
· · · · · · · · · · · · · · · · · · ·	4	ÿ	Have you ever testified before the Oil Conservation
2 3	5		Commission?
ана Мария Арала А <u>на</u>	6	λ	No, I have not.
	7	Ū.	For the benefit of the Dxaminer, would you briefly
meie	8		outline your education and experience as a
ley-I	9		geologist?
dearnley-meier	10	Α	I graduated from Virginia Polytechnic Institute in
	11		1960 with a D. S. in geology. I worked as a
	12		petroleum geologist for eleven years, and I have
TESTIMONY, DAILY COPY, CONVENTIONS Querque, New México 87103	13		worked in New Mexico for the past seven years.
1 ГХ со р. 1 Ем ме	14		I was employed by Amarada Petroleum Corporation
IMONY, DA			for five years, and then with Samedan for the last
	ž 16		year and a half, two years.
0 39 L W	ui	Ö	In connection with your work for Samedan Oil
EMENTS, EX 249-06910	20 18		Corporation, have you done any work in what has been
	19 • 19		designated as the east Morton Wolfcamp Pool area?
HEARIN 1092 - 1	ن ۲ ۵	А	Yes, I have.
SPECIALIZING INI DE20051710NS, 409 simmas blog.e. ⇒.o. box	」 x 21		MR. KRELAHIM: Are the witness' qualifications
0.00 0.00 00 00	19 J 22	acco	eptable?
LIZING I	0 F 23		TP. POR: Mes, they are.
5PECIA 209 544	ารสาม 24	Ĵ	(Tr. Tellahin continuing) In. Markenshin, would you
	25		state briefly what is proposed by the applicant in

PAGE 3

		PAGE 21
1		Nis dage?
2	2	The appending field nules have tablished for the
3		Mast Morton field with eighty acre well spacing and
4		vertical limits to be designated from 10,30? Feet
5		as to 10,646, that is penetrated by the Camedan
6		Number 1 Gulf State Voll.
7	2	Now, referring to what has been marked as the
8		Applicant's Exhibit Number 1, Would you step over
9		to the board here and discuss the information shown
10		on that exhibit?
11	Ā	Exhibit Number 1 is a structure namedraum on top
12		of the lower "olfcamp Peef Tone, showing the
13		location of the Morton Field, and the lower left-
14		hand side of the map, the North Morton Field and
15		the East Norton Area.
16		All three of these area produced from the
17		lower Molfcamp Peef, and there appears to be
18		adequate separation between this area and the other
19		two areas by virtue of dry holes drilled in between
20		here and here and here.
21		MP. UT3: Now, what section is this "here and
22		here" in
23	0	(Mr. Kellahim continuing) - Nould you designate
24		those locations please?
25	D.	Tell, there is - let's see, okay. There is a dry

dearnley-meier regerties :

ومغربا والأفاقا والمقافلة لمعادرة لأرطف عراسي ومعادلات والمنافعات والمعروب

Acres

	PAGE
1	hole between the North Norton area and the Last
2	"orton.
3	It is in southwest northwest of southwest
4	of Section 32, 14 South, 35 Dast.
5	There is a dry bole in Section northwest
6	of the northeast of Section 7 and 15 south, 35
7	east.
8	This well was structurally low and encountered
9	water in the reef zone.
10	MR. UTZ: You had one more in there, didn't
11	you? One other section?
12	THE WITHFSS: This was a producer at one time.
13	It is abandoned. This well in Section 6 here, the Texas
14	Crude Well was at this time in the reef zone, no verocity.
15	0 (Mr. Kellahin continuing) Basically the three areas
16	are producing from the same formation?
17	A Yes. The same strategraphic interval.
17 18	2 It is your opinion they are effectively separated?
19	A Yes, sir.
20	Q And the well which has been drilled by the
21	applicant in this case has been located in the Fast
22	Morton Pool; is that correct?
23	A The Union Oll Company drilled the Number 1 Owens,
52 20 21 134 14 157 142 East 23 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	Section 34, 14 South, 35 Hast, and it was originally
25	designated as the East Morton Pool.

.*

	1	0	And a well which has subsermently been drilled by
C ¹¹	2		Sanedan?
N. 1. 1.	3	λ	The Mumber 1 Gulf State in the northeast northeast
5 - 5 5 - 5 5 - 5	4		of Section 4, 15 South, 35 East, and also the Number
€12518 11775 11775	5		1 Carter, drilled by Samedan, and southwest of the
na b Bailtean Galainean Galainean	6		southeast quarter of Section 33, 14 South, 35 East.
423.23 32.245 10.000	7	0	Did the Commission put them into the Past Morton
neie	8		Pool?
ey-I	9	λ	Not as yet.
dearnley-meier	10	<u></u>	In your opinion, are they a part of the East Morton
<u>d</u> e	11		Pool?
TESTIMONY, DAILY COPY, CONVENTIONS Querque, New Mexico 87103 Ew Mexico 87108	12	λ	We feel that they may be. This Union Number One
	13		Owens is possibly on a separate cumulation by virtue
	14		of the different chlorides of the water, at least
	15		in this well, and the water from the two Samedan
TESTIMONY, D Jouerque, Jewmexico	16		wells.
12 ± 2 12 ± 2 14 ± 14	17	Ω	And you will give information on those chlorides?
SPECIALIZING IM. DEPOSITIONS, HEARINGS, STATEMENTS, EX 209 Simms Bldg., P.O., Box, 1992, P.Hone, 243-6691, M First National Fiank Bldg. East Albuduerqu	18	A	Yes, sir. The chlorides that is measured on it
5, 57ATU Hone 2 1 • Ale	19		produced water from the Union well is on the order
IONS, HEARINGS, 57, Box 1092-Phon Blcg. East A	20		of 12.5 to 13.5 possible different chlorides, sir.
HTIONS, I 9. Box NK BLC	21		And the chlorides from the two Samedan yells
н DEPO! 36.4 р.4	22		is on the order of thirty-five to forty thousand,
CIALIZING IN, DEPOSITIO Simms Blog., P.O. B 57 National Fiank	23		forty-five thousand.
SPECIAL 209 SIM	24	5	And that would indicate they are at a separate
	25		source of supply, in your opinion?

.

100 A. 100 A. 100 A.

÷

~

PAGE 6

			;
	1	λ	It doesn't prove conclusively, but it is a good
¢	2		indication.
- • •	3	Ú.	Does Samedan have any objection, however, to being
, 1. * 1. *:	4		included in the Dast Morton Wolfcamp Pool?
ः २ - १ <u>१</u> २२२३	5	λ	I don't believe so.
ini j Legit	6	<u>0</u>	It's not a material point, as far as Samedan is
3.3	7		concerned?
	8	Α	No, it is not.
uearmey-merer	9	Q	Now, does that complete your testimony with Exhibit 1?
	10	А	Yes.
	11	3	Would you turn now to what has been marked as
TESTIMONY, DAILY COPY, CONVENTIONS Querque, New Mexico 87103 Ew Mexico 87108	12		Exhibit Number 2, and would you identify that
Y, CONVI XICO 8:	13		exhibit?
ALY COPY, CON NEW MEXICO 87108	14	۸	Exhibit Number 2 is a cross section from the two
юну, ра que, т схісо в	15		wells labeled One and Two, located in the Morton
	16		Field.
. a 3 	17		Vells Three and Four are located in the North
ratements, ex 16:243-6691 • 1 31:0∪0∪6RQL	18		Morton Field.
GS, STAT Рноие Steal	19		Mells Five and Six are located that is
FOSITIONS, HEARINGS, ST. P.O. BOX 1002 • PHON EANK BLOG. EAST • A	20		Five is the Camedan Carter Uell.
SITIONS, o. Box	21		Six is the Samedan Gulf State Mell right here,
16 IN: DEFC BLDG.• P.	22		and Seven, Fight and Hine are located Seven is
SPECIALIZING IN: DEFOSITIONS, HEARINGS, STATEMENTS, ZX 200 simms bldg.,ep.o. box 1002.ephone 249-6691. First national eank bldg. east-albuquerqi	23		the Union Number 1 Owens.
SPECIA 209 SH	24		The well designated as Fight is the side track
	25	<u></u> .	hole of the Union Number 1 Ovens Fight Ubiostock

1.16.16

j,

to the southeast Ann feet. And Well Dumber ? that is labeled on the cross section is the Union Mumber ? Ovens, which was a dry hole. This cross section shows the - it is hund on a datum of minus 6,000 feet subsea, and it shows the relative position of the producing zones in the Norton area here, the North Morton area here, and the East Morton area over here. And this brown color indicates - the base of the brown color is the approximate oil water contact. The approximate oil water contact for the Morton Field is a minus 6359 subsea. The North Morton is approximately 6420 subsea. The Past Morton, the two Samedan wells, it's approximately minus 6536 on the subsea. And then the Union Number 1 Owens here, it is a minus (562 on a subsea. And it appears that going from here in the Morton area to the Morth Morton to the Samedan wells to the Mast Morton Union Well, your oil water contact, it progressively lovers stepping down to the east, and indicating that you do have some separation between these various producing areas.

Now, earlier you contioned the vertical limits of the

PAGE O

SPEC:ALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS ALBUQUERQUE,
 QUE, NEW MEXICO 243-669 BUQUE 1092 • PHONE JA. Ϋ́ 00.0 LDG. P.O. BOX Onal Eank BLD

24

25

1

2

3

4

5

6

7

8

9

10

¢

dearniey-meier reportant

		PAGE O
1		propose' act pool or the last "orten "eol as it roul?
2		be designated here.
3		That would those limits be?
4		le are proposing that the vertical limits for the
5		Tast Norton Lover Volfdarw Pool be designated
6		refer to Exhibit 3, please. This is a log of the
7		Gulf State Number 1.
8		Ve are proposing the vertical limits be set
9		from strategraphic equivalent to .10,302 feet on
10		this well to 10,646 feet.
11		This well did not penetrate that deep, but the
12		second well did, and we were still in the reef at
13		that depth.
14	0	Now, referring to what has been marked as Exhibit
15		Number 4, would you identify that exhibit?
16	А	Number 4 is an electrical log of the Samedan Number
17		l Carter Vell. It gives dual stem test data.
18		It has the top of the reef marked, and it also
19		shows the perforations from 19,540 to 544.
20		And the two wells, the Mümber 1 Carter and the
21		Number 1 Gulf State are producing from the same zone.
22	0	Now, in general, what is the nature of this
23		formation you are producing from?
24	A	In our area, in our two wells, the pay zone is a
25		nedium to coarse had clustum and dolorite.

- ~~m

¢

dearnley-meier regardes

.

			La construction de la constructi
€ 1 1 2	1	5	Is it somewhat fracture? or has cores in it?
	2	λ	We cored above the pay, right above the pay zone,
	3		in this Carter Vell, and it was highly fractured.
	4	Ù.	All right. Just from the geological point of
€ ::'] Σ 	5		view, Mr. Plankenshin, is there any reason that you
λ C t. * 25	6		know of that one well would not adequately drain in
	7		excess of eighty acres?
meie	8	А	No, sir. It appears to have very good porosity and
ley-I	9		permeability.
dearnley-meier	10	ß	From the geological point of view, in your opinion,
de	11		does it make any difference how the wells are
INTIONS	s 12		located in this area?
			Should you have flexible or fixed well locations?
EY COP1	13 8014 8014	A	Well, we would, I believe, prefer flexible locations.
ONY, DA	ມີບໍ່ ກີ	Ω	Is it the nature of this Wolfcamp formation in this
T T ESTIM	аж ж 16		area to be rather small?
EXPERT	, [⊔] 17	A	Yes, sir, it is. I think they
EXENTS,	алаларана водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека водовека совсто водовека водовека водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водо водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водовсто водосто водосто водосто водосто водосто восто водосто восто восто восто восто восто восто восто восто восто восто восто восто восто со со сост	Q	That is indicated by the other pools?
63, STAT	u v 19	А	The Morton and Morth Morton Pools are an example of
HEARING	2001 SA3		that.
LIZING IN: DEFOSITIC Ams Bldg., P.O. B National Fank		Q	And do you anticipate, say, from that information,
	. 22		that the East Morton would also be quite small?
	s	Α	Mes, we do.
	29 F 58 24	2	Does that complete your discussion of the exhibit?
	25	<u>.</u>	Yes, sir, that completes my discussion.

•

1	$\widehat{}$	Vere Exhibits 1 through 4 prepared by you or under	-
2		vour supervision?	
3	Δ	Ves, they were.	
4		MP. KULLAHIN: At this time I would like to	
5	off	er in evidence Exhibits 1 through 4, inclusive.	
6		MR. UTS: Vithout objection, Exhibits 1 through	
7	4 w	ill be entered into the record.	
8		MR. KELLAHIM: That completes the direct	
9	exa	mination of the witness.	
10		CROSS EXAMINATION	
11	<u>BY</u>	MR. UT2:	
12) J	Mr. Blankenship, you are requesting here an	
13		extension to the East Morton Pool; is that correct?	
14	A	That is correct, sir.	
15	Q	Now, the pool as it is now constitutes well, I	
16		can't read my own hieroglyphics here.	
17		Is it three-quarters of Section 4, or all of	
18		Section 4, one or the other?	
19	Λ	Let's see	
20	Q	Is that as it originally	
21	A	You're talking about the original	
22	Ū	I think it is all of Section 4. Do you remember?	
23	λ	This well right here was originally designated as	
24		East Morton.	
25		MR. MILLANIN: That well are you pointing to?	

÷

		PAGE 12
1		mus utmund: The Otens, the Union Osens.
2	j	(Mr. Utz continuing) You are asking for 15 South,
3		35 Nast and northwest guarter of Three, south half of
4		the northwest quarter of Pour.
5		So the pool limits I looked at was only the
6		northeast quarter of Four. Does that jibe with
7		then in Section 34, which is the section directly
8		above Section 3, you are asking for the northwest
9		guarter?
10		MR. MELLANIN: Southwest quarter
11		THE HIGHRSC: Morthwest.
12		MR. KELLAHIN: Northwest? Oh, yes.
13	Q	(Mr. Utz continuing) And that leaves a gap. Do you
14		follow me?
15	Δ	Are you asking me a question?
16	Q	Yes. I'm asking you
17	A	E'm sorry.
18	Ũ	what it is that you are asking to be put into
19		the Bast Morton Pool.
20	a	It's on the -
21	Û	Then I sketched these out I didn't come out too good,
22		SC mm
23	3	Tell, let's sec. To be asking the southeast quarter
24		of Coction 22 Compatin 14 Couth 35 Bast.
25	γ	33 Southeast, 32, that would be this in here?
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1 2 2 3 4 3 4 5 6 7 8 9 10 1 1 12 2 1 13 Ω 1 14 1 5 16 Ω 1 17 A 1 18 Ω 1 19 20 A 21 Ω 1 22 2 2 23 2 2

Sec. Sec.

and having a set of the local date

Salar an

		PAGE 13
	1	2 Obay. The southwest manter of feation 21, 14
	2	Couth, 25 Past, all of Cootion 1 except the
C '' •	3	southwest quarter of 15 fouth, 25 Past.
	4) Except the southwest?
0.13 - 12 - 12	5	A Except the southwest quarter. The northwest quarter
	6	of Section 33. 15, 35.
	7	2 Vell, then, this advertisement is wrong.
dearnley-meier 🕫	8	MP. HATCH: No. I think some of this that you
ley-	9	read is already in the pool; correct?
ar n	10	MR. KELLAHIN: Correct.
qe	11	THE MESSI Ves.
IVENTIONS 87103	12	MR. HATCH: And the part that is advertised here,
TESTIMONY, DAILY COPY, CONVENTIONS Querque, New Mexico 87103 Ew Mexico 87108	13	I think would be the part you are asking to be put into the
AILY COP N E W M E 87108	14	pool that is not presently in the pool; is that correct?
TESTIMONY, DA IQUERQUE, D	15	THE MITNESS: Yes, sir.
	16	MR. NELLAHIM: That is correct. That's correct.
, EXPER 31 • A ⊏ B R Q ∪ E,	17	I would qualify this based on the witness' testimony. We
STATEMENTS , ONE 243-6691	18	are not really concerned whether this is put in the East
:65, 57A1 Phone (ST • AL	19	Morton Pool or in a new pool composed of the acreage
POSITIONS, MEARINGS, P.O. BOX 1092 (PH	20	outlined by the witness as created as a new pool. Che
DSITIONS .0. BO) Ank Bl	21	or the other.
N. OLF.	22	But we're not concerned, really, how you do it.
SPECIALIZING IN: DEPOSITIONS, MEARINGS, STATEMENTS, EXPERT 209 Simms BLDG.9 P.O. BOX 1092.0PMONE 243-0691.0ALBL FIRST NATIONAL BANK BLDG. EAST-ALBUQUERQUE, N	23	MR. UT%: Mell, then, I looked at the ng
SPECIJ 209 St FIRST	24	nomenclature book. But if it's all continuous, why, it's
	25	all right with me.

-

	-	
	1	Are there other questions?
, ,,	2	MR. MATCH: I would say the application is not
€` :	3	as it is here, so if we are wrong here. I'll have to take
• • •	4	it, but I think this would cover
	5	MR. WHLLAHIM: I think it would.
μαζη το Έλου το Κ(Γμ. Β. Β. Γ. βάμα	6	MR. MATCH: the area.
R. F. D. Swisz w	7	MR. UTZ: Other questions? Mitness may be
leiel	8	excused.
dearnley-meier	9	MR. KELLAHIN: I would like to call the next
Irale	10	witness, Mr. Glenn Cope.
dea	11	("itness sworn)
5	12	GLENN COPE
EXFERT TESTIMONY, DAILY COPY, CONVENTIONS • Albuquerque, New Mexico 87103 que, New Mexico 87103	13	having been first duly sworn, testified upon his oath as
COPY, CON	14	follows:
DAILY C N EW h 0 87108		
STIMONY, D Jerque, Mexico	15	DIRECT EXAMINATION
RTTESI Budue , New .	16	BY MR. KELLANIN:
- ~	17	Q Would you state your name, please?
TEMENTS, 243-6691 :BUQUER	18	A Glenn Cope.
S, STAT	19	Q By whom are you employed and in what position, Mr.
s, Hearings, Sta] X 1002 • рноме Log. East • Al	20	Cope?
SITIONS, I .o. Box Ank Blo	21	A I am employed by Samedan Oil Corporation as an
DEPOSI. 6.• P.O. AL BAN	22	engineer in the Mest Texas-New Mexico division.
IZING INI I MS BLDG	23	9 Have you ever testified before the Oil Conservation
SPECIALIZING IN: DEPOSITIONS, HÉARINGS, STATEMENTS, 200 Simms BLDG. • P.O. BOX 1092 • PHONE 243-669 Pirst National Bank BLOG. EAST • ALBUQUEI	24	Corrission and made your qualifications a matter of
у и <u>п</u>	25	record?

		PAGE 15
	1	A Yes, I have.
. ·	2	MP. (GILANTY: Are the vitness' qualifications
- - -	3	acceptable?
- - -	4	MR. UP2: Yes, they are. I don't have his name.
ن .	5	We were both gabbing here.
an a' an	6	THE MITHUSS: I'M Glenn Cope, G-1-e-n-n C-o-p e.
	7	2 (Mr. Kellabin continuing) Now Mr. Cope, you are
uearniey - merer	8	familiar with the application of Samedan Oil
- Áa	9	Corporation in the case before the Commission at
	10	this time. I refer you first to Exhibit Number 1,
3	11	which has already been introduced.
NTIONS 103	12	Do you have any discussion of that exhibit?
TESTIMONY, DAILY COPY, CONVENTIONS Querque, New Mexico 87103 Ew Mexico 87103	13	A Exhibit 1 is a map of the area of interest, showing
MILY COPY, CON New Mexico Batior	14	the location of the Norton, the North Morton, and
DNY, DAI DUE, N XICO N	2 15	the area which we are discussing today, the East
	16	Morton Field, in which we have drilled and completed
EXPERT 1 • ALBU		two yells.
243-66910ALE Buddiffrone		Q Do you have any information on the net feet of pay
S, STATI HONE 2 T AL F	· 19	on the two wells, the Number 1 Gulf State and the
015, HEAR.NGS, 30 X 1092 6 PH	20	Number 1 Carter?
PLOSITIONS, PLO, BOX		A Yes, sir, I do. I would like to offer our Exhibit
	4 - 22	Number 5, the porosity net pay and calculations
SPECIALIZING IN: DEPOSITIONS, MEAR.NGS, STATEMENTS, 200 Simms Bldg., P.O., Box 1002, PHONE 243-669 1105 T Mational Jaank Bl dg. 2541-61 Blioliff	23	based upon the perimeters as we think they are at
209 SIN	24	this time.
	25) Fould you discuss the information that is shown on

PAGE	10
------	----



Tumber 1.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

 \mathbf{O}

Δ

This information is the elevation of the two wells, the total depth, plug back total depth, the casing, producing interval which shows that the Gulf State Number 1 is producing from open hole, and that the Carter Number 1 is producing from perforation at 19,540 feet to 19,544 feet.

The asterisk is a footnote to show that the Carter Number 1 was tested through perforation at 10,574 to 10,578.

And from these perforations we recovered 823 barrels of water and no oil.

These perforations were squeezed with a hundred sacks of cement, and in the interval from 10,540 to 10,544 was perforated, and it is from these perforations that the well is presently producing. Now, referring to what has been marked as Exhibit Number 7, would you identify that exhibit? Exhibit Number 7 is the bottom hole pressure data which we have accuried in the East Morton Molfcamp area.

The first botton hole pressure information which we have is from a drill stem test on the Gulf State Foll Number 1, at which we measured bottom hole pressure of 4,041 bounds, corrected that to a datum

3.0 dearniey-meier reger SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS NEW MEXICO 87103 87108 I • ALBUQUERQUE. IQUE, NEW MEXICO 243+669 BUQUEF (1092 • PHONE ; DG. EAST • ALE 209 SIMMS BLDG. P.O. BOX FIRST NATIONAL BANK BLI

		1		of tinus 6350, which indicated a bottom hele pressure
		2		at that donth of 4070 populat.
	(`	3		Op Tearmory the 13th, 1071, the two wells, the
		4		Gulf State Vell Number 1 and the Carter Vell Number 1,
	< .3	5		were both shut in, the bottom hole pressures allowed
	•	6		to stabalize, and the bottom hole measured at the
	n in the second se	7		pressures indicated, and corrected to a datum, showed
	dearnley-meier	8		a bottom hole pressure of 4030 pounds on the Gulf
	ey-n	9		State Vell Mumber 1 and 4,941 bounds on the Carter
	arnl	10		Number 1, which has a weighted bottom hole average,
	de	11		indicated a pressure drop of twenty-three pounds in
	4710HS	12		the reservoir.
STATEMENTARY AND A DECK	, CONVENT I	13	3	Now, based on that information, is that caused by
	AILY COPY, CON NEW MEXICO 87109	14		cumulative production?
	NY, DAIL UE. NI CICO 87	15	Л	Yes.
	TESTIMON) IQUERQUI EWMEXIC	16	<u>0</u>	Yould that indicate this is a rather small reservoir?
	EXPERT CFIE CFIE CFIE CFIE CFIE CFIE CFIE CFIE	17	А	Yes. This would indicate that the reservoir probably
	rements, e 243-6691• 8∪Quera	18		would not cover a large areal extent.
	INGS, STATE • PHONE 2 [Ast • ALB	19	ß	Now, referring to what has been marked as Exhibit
	. НЕАRINGS, 1092 - РН-	20		Mumber 3, would you identify that, please?
SPECIALIZTING IN. DEPOSITIONS MEARINGS STATEMENTS.	ITIONS, P . Вох vk вс	21	А	Exhibit Number 9 is a comparison of reservoir
	3 DEPOSITIC 36.0 P.O. B 361.3 ANK	22		proparties in the Morton field, the Morth Morton
	CIALIZING IN: DE SIMMS BLDG.	23		lield, and the Mast Morten field, which we are
	SPECIAL 209 SIM	24		concerned with, aboving the Jorth to the top of the
		25		buy rore, average not feet of may, the average porosity,

مسترد فلائدهم بالتكافية

PAGE 10

	ı		the average cutor waturalies, the average percentility
	2		is millidencies, the original reservoir pressure, the
€ * K	3		saturation pressure as reasure? from bottom hole sample
	4		analyses, the original solution das oil ratio, the
8 (9) 9 1 1 9 1 1	5		initial formation volume factor, et cetera.
	6		The data was assembled to show the similarity
CF 34 34-1-4 84-4-4	7		between the fields in the area.
neie	8		We feel like that our area of interest will
ey-I	9		more closely proximate the recoveries experienced
dearnley-meier	10		in the North Morton fields, due to the similarity
de	11		between the unsaturated nature of the crude and the
NTIONS 103	12		gas oil ratio.
EXFERT TESTIMONY, DAILY COPY, CONVENTIONS 10 Albuquerque, New Mexico 87103 10 de. New Mexico 87103	13	Û	The gravity of the crude is substantially the same
LY Copy Ew Mey 108	14		in all three, is it not?
IMONY, DAI R QUEL D REXICO 87		Λ	That is true.
TESTING JQUER EW ME	16	Q	Now, you show that the permeability is not available
EXPERT 6 → F B U 0 U E. N			for the East Morton field.
	18		Nould you anticipate it would be substantially
INGS, STATI IPHONE 2 East Alb			the same as the North Morton?
HEARING 1092 - P 36. EAS	20	А	We feel that the permeability in the East Morton
POSITIONS, HEARII P.O. BOX 1092 - AANK BUDG, E.	21		area will probably be higher than that average in the
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			North Morton field, due to the performance of the wells.
SPECIALIZING IN. DEPOSITIONS, HEARINGS, STATEMENTS 200 Simms Eldg. P.O. Box 1092 (PHONE 243-66)	23	3	The present history of the reservoir to date would
SPECIAL 209 SIM	24		indicate a higher permeability: is that correct?
	25	٨	That is correct.

1)	Ind is that permeability in your coinion without
2		remard to any other factors, would one well adequately
3		drain eighty acros just on the permeability?
4	A	I feel that one well would adequately drain in excess
5		of eighty acres.
6	Ü	Now, what is the producing mechanism in this pool?
7		Is it a solution cas drive?
8	Α	Hell, in all of the fields of this nature in the area
9		we find that all of the fields have produced by a
10		solution gas drive mechanism, and that most of
1		these fields are closed systems, and produced by
12		this solution gas drive.
13		And this is the recovery mechanism which we
14		anticipate in the East Morton Molfcamp Pool.
15	0	Now, referring to what has been marked as Wixhibit
16		Number 9, would you identify that exhibit?
17	A	Exhibit Mumber 9 is a comparison of the economics
18		for various well spacing patterns, which the field
19		could be developed on.
20		The data given shows the actual value that we
21		have received for the oil, three dollars and twenty
22		cents per barrel, after production taxes, the net
23		interest of the average working interest lease in the
24		area, the production tax. the estimated lifting cost
25		and the well investments.

¢.

dearnley-meier section

والمتحدث والمتحدث والمراجع

			PAGE 21
	1		Tell investments that to list here is the average
	2		of the two rells which we have crilled and comipped
	3		so far, with an estimate of 210 parts to replace the
	4		voll on artifical lift.
	5	- ġ	Now, based on the information shown on this cubibit,
	6		would you recommend the development of this pool on
	7	-	a forty acre spacing?
	8	λ	No, sir, I would not.
	9	Ú	Yould it be profitable to do so?
	10	л	No. Placing the wells on forty acre spacing would
	11		result in a dollar loss for the operator.
7103	12		The three columns are calculated as the field
NEW MEXICO 87103 87108	13		is presently developed. In the first column were only
1 E W ME 7 1 0 8	14		two producing wells and one dry hele, or one hole that
JQUERQUE. № IEW MEXICO 3	15		was low and non productive in the reef zone, showing
COCER NEW ME	16		the recoverable oil based upon the information that
1●ALB RQUE.1	17		we have at present, and showing the profit to
Р.О. ВОХ 1092 €РНОМЕ 243-4691 € АLBU ЗАМК ВLDG. EAST ●ALBUQUERQUE, NI	13		investment ratio under the present situation where
°HONE ST●AL	19		we have two wells in the field.
1092 • F DG. EA	20		The second column is based upon a yell spacing
O, BOX NK BL	21	-	of eighty acres, showing a profit to investment
00.0 P. NAL ⊎A	22		ratio of . the us one.
209 SIMMS BLDG.0 P.O. BOX 10920PHONE 243-66910AL FIRST NATIONAL 3ANK BLDG. EASTOALBUQUERQUE.	23		le third column, of course, shows the economics
209 SH FIRST	24		for a forty correlation which results in a loss.
	25	2	a no beref are refined columns are based or a

4

dearnley-meier second

.

SPECIALIZING INI DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1 . ., and set is ···· · ? 2 Muthe correct. 3 ".encas, com finat octa a la considerat ac pora 4 vello would be drilled? 5 That's true. 6 Now, referring to the post two exhibits together, ? 7 Exhibit 1º and "xhibit 11, yould you discuss the 8 information that is shown on those two exhibits? 9 Yes, sir. Te have shown that to develop the field Α 10 on any less than eighty acre spacings would result 11 in a dollar loss, so the cuestion arises, can we 12 adequately drain eighty acre tracts with one well. The Exhibit Number 1º shows the distance between 13 14 the Carter Well Humber 1 and the Gulf State Well 15 Number 1. 16 I believe that in order to show that one well 17 will drain 100 acres, it is necessary to show 18 pressure communication for a distance of 1320 feet 19 or so, and this plat is to illustrate that there is a distance of 1600 feet between the Carter Number 1 and 20 `_ 21 the Gulf State Vell Humber 1. Nov, why did you put the Sanedan Amarada State Number 22 \odot 1 on that exhibit? That is the significance of that? 23 Since there were three wells in the area of interest, 24 25 in case anyone should be interested, we went ahead

PAGE

c. . .

3.50 dearnley-meier regenter SPECIALIZING IN. DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS BOX 1092.0 PHONE 243-0691.0 ALBUQUERQUE. № EW MEXICO 87103 K BLDG. EAST•ALBUQUERQUE, NEW MEXICO 87108 209 SIMMS BLDG. P.O. E FIRST NATIONAL BANK

¢

•

			PAGE 0.3
	1		and put it on for
	2	n.	Just to show the distance?
	3	*	Yee.
	4	0	Actually, the well was not produced; is that correct?
1	5	А	That is correct. It was nonproductive in the reef
	6		zone.
	7	0	So it would have no effect on the other two wells?
	8	λ	That's correct.
•	9	Ð	Now you have shown the distance between the two wells
	10		as being 1600 feet.
IVENTIONS 87103	11		Did you run a pressure survey, then, on those
	12		two wells?
COPY, CONVI Mexico 87	13	А.	Yec.
AILY COP NEW ME 87108	14	Q	That is shown on Txhibit Number 11?
STIMONY, DA	15	λ	That's correct. Number 11 is a graph of the results
	16		of an interference test which we conducted on the
EXPERT			two wells.
TEMENTS, EXPE 243-6691 • AL BUQUERQUE			Both wells, the Gulf State Well Number 1 and the
STAT STAT	19		Carter Well Number 1 were shut in and allowed to
S, HEARINGS, X 1092 • PHO LDG. EAST	20		stabalize.
SITIONS, O. BOX			The Gulf State Mell Humber 1 was produced with
	22		a bottom hole pressure, hombed on bottom, and the
SPECIALIZING IN: DEPOSITIO 209 Simms BLDJ 7.0, B First national IJANK	23 23 24 24		Carter Well Number 1 was left shut in with a bottom
SPECIAL 209 SIN FIRST			bole pressure both at the bottom of the well, and
	25		after four hours, the graph illustrates that the bottom

dearnley-meier tegethes

PAGE DA

	_		
	1		bole pressure on the Carter Well Musher 1, which was
	2		shut in, becas to Cooline, as the Culf State Voll
	3		Turber 1 was produced, thus showing direct communica-
	4		tion between the two wells.
	5	Ò	Over what period of time did you run this test, then?
	6	А	This test was run over a seventy hour period. However,
	7		we picked up communication, pressure communication,
	8		within four bours.
	9	Ő	And what pressure drop was ultimately achieved on it?
	10	Α	Well, the Gulf State Well Number 1 was produced.
	11		The bottom hole pressure on the Carter Vell Number 1
2010	12		dropped to a total of eleven bounds.
XICO 83	13	Ũ	And does that to you, as an engineer, indicate
NEW MEXICO - 87108	14		there was adequate communication indicating that one
QUE.	15	1	well would drain in excess of eighty acres?
NEW ME	16	Α	That is correct.
а С Е	17	Ù	Sould it be Samedan's position that eighty acre
243-665 BUQUE	18		spacing should be instituted in this pool?
rron⊏ ∖s⊺•AL	19	Ą	^v es.
1042 • 06. EA	20	Q	Nould you possibly want to come back at a later
3ANK BLD	21		date, based on further information, and apply for even
	22		wider spacing, possibly?
SIMMS BLDG.	23	2	Yes, we possibly would.
209 SI	24	Û.	That would be a possibility? So you don't mart to
	25		foreclose that; is that correct?

لانتر الملاطات

ſ		
1	λ	What's correct.
2	0	Now, in the application filed with the Commission,
3		it was proposed that bool rules be adopted.
4		Does Samedan have a recommendation on those
5		pool rules?
6	Α.	They recommend
7	Ù	They recommend pool rules similar to those in the
8		North Morton, or the Morton pool, rather?
9	А	Well, we recommend that we be granted eighty acre
10		spacings with the option to drill on either end of
11		the eighty acre tract.
12	0	Pould you limit the direction in which the eighty
13		acres would lie? Would they run north, south, east
14		or west, or in any direction?
15	λ	At this time we are asking for flexibility.
16	Ù	Flexibility both as to the direction of the unit and
17		the well location?
18	Λ	That is correct.
19	Ū	And drill to either end of the eighty?
20	Δ	Yes.
21	Q	And that is similar to the rules adopted in the
22		Norton poel?
23	ð.	Yes.
24		MR. WHILI WITH IS the Trainer please, we have
25	d.na	on up some recenteriers which are substantially

dearnley-meier rager ind and and

PAGE O.C.

		PAGE
	1	similar to the Nexter Declamber, findents don't need to,
¢	2	T believe, offer as an exhibit. However, we would like to
	3	leave there with you.
	4	("Ir. Vellahin continuing) Do you have arything to add,
	5	"Ir. Cene?
N 2000 2007 2007 2007	6	A No, sir, I do nor.
)	7	MP. WHIGHIN: If the Examiner please, were
dearn'ey-meier	8	Exhibits 5 through 11 prepared by you or under your
liey.	9	supervision?
earn	10	TUD FIRTIPS: Yes, they were.
	11	MR. CULANU: At this time we would like to
CONVENTIONS COB7103	12	offer in evidence Exhibits 5 through 11.
	13	MR. UP3: Mithout objection, Exhibits 5 through
DAILY COPY , NEW MEX	14	11 will be entered into the record of this case.
TESTIMONY, D GUERQUE.	15	MP. RELLAMIN: If the Examiner please, we do
	16	have letters here from offset operators, the Perry P. Bass,
.TEMENTS, EXPERT 5 43-6601 € A L B U = B U Q U E R Q U E, N	17	N. A. Moncrief, and the Ralph Lowe Estate. Copies of some
ATEMENT E 243-66	18	of these may already be in the Commissioner's files, but these
KG, STA ■ P H O N I	19	state positions in support of the application of Samedan Oil
IONS, HEARINGS, STA] BOX, 1092, PI4ON E € BLDG, EAST+AL	20	Corporation, and we would like to leave then with the
9.0.00 0.0.00 0.0.00	21	Commission.
46.IN± DEPOSITIC BLDG.+P.O. B TIONAL BANK	22	And that completes our direct testimony.
SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT 209 SIMMS BLDG.0 P.O. BOX 10920PHONE 249-0010ALBL	23	"o correct uv statement, Perry Tass and Monorief
5 6 6 5 0 9 5 7 1 1 2 0 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24	are joint comens with Garedan.
	25	

PAGE 0.7

1	COOSE PRANENT OF
2	NA 15, 905.
3	O Mr. Cove, referring to your Pxhibit Mumber 11, let's
4	see if I understand this correctly. Mas the Gulf
5	State stabilized at the time you turned it on and
6	started flowing it?
7	A Yes, sir. Poth the Gulf State and the Carter were
8	stabilized at the time we opened the Gulf State up.
9	Q Now, how much time had the Gulf State been shut in?
10	A Let me - Gulf State had been shut in for fifty-five
11	ninutes.
12	Q And that is time enough to stabilize the well in
13	this pool?
14	A Yes, sir, it is. This pool has excellent permeability,
15	and the well stabilized within approximately ten
16	uinutes at that pressure.
17	MR. MATTHEWS: It might be of interest to you,
18	just as we lost circulation in this reef zone in all
19	three wells, and what we would say a very bad loss
20	circulation condition in this reef zone in each well.
21	It was, as a matter of interest the bid actually
22	dropped three feet in the Gulf State, dropped or drilled
23	without weight for fourteen feet in the Amarada State,
24	and three different occasions it drilled less than balf a
25	minute a foot for several feet through the Parter Number 1.

PAGE 2.2

		1	and all of the line of the set of the bar degraph repres
		2	
C ·		3	
- 		4	In. Hymnight with Cliff Matthews with Samedar.
ر ج میڈ		5) (Ur. Fits continuing) This communication test has run,
na Norra Calif Allana		6	then, for a little over five bours?
5363 X		7	3) total of seventy hours.
meie		8	9 Seventy hours? Okay.
ley-I		9	A The wolls would stabilize before to could get the
dearnley-meier		10	botton hale pressure bottom to top to shut then dom.
de		11	To checked both wells for thirty minutes to
INTIONS	87:03	12	assure that the vells bed stabilized.
C. CONV	110 87	13	O You're not asking for a temporary order on this.
EXPERT TESTIMONY, DAILY COPY, CONVENTIONS	NEW MEXICO 8 87108	14	You're asking for a permanent order?
ONY. DAI	ALCO 8	15	A "hat's correct.
T TESTIM	●▲LBUQUERQUE, QUE, NEW MEXICO	16	MR. KULLANIN: That's correct. He feel that
	~~~~	17	the evidence is sufficient to support a permanent order.
E E E E E E E E E E E E E E E E E E E	243-669 BUQUEF	18	Any additional information, we feel, would
65. STAT	PHONE ST.AL	19	probably support wider spacing.
N N N N	1092 • F	20	MP. MAMCU: Do you want this temporarily, then,
SPECIALITING IN. DEPOSITIONS HEARINGS STATEMENTS.	209 SIMMS BLDG. • J.O. BOX 1092 • PHONE	21	til you come back?
N, DF30	DG. 2.	22	IP. UTT: "il "ou come hach to show us? Are there
1 <b>5 M ( 1</b> )	MMS BL NATIO	23	other questions of the mitness? Witness hav be excused.
SPECLA	209 SI FIRST	24	Chaborents?
		25	Let's take a coffee break.

1 т<u>ирих</u> 2 CIMMES PAGE JOTH N. PLANDINGULP 3 4 Direct Examination by Mr. Kellahin 2 Ł  $\odot$ 5 Cross Examination by Mr. Utz dearnley-meier topoth 11 б 7 GLENN COPE 8 Direct Examination by Mr. Kellahin 14 9 Cross Examination by Mr. Uta 27 10 11 SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 12 209 SIMMS ALDG...P.O. BOX 1092.PHONE 243-6691.ALBUQUERQUE. NEW MEXICO 87103 First national Jank BLDG. EAST.ALBUQUERQUE, NEW MEXICO 87108 Applicant's Exhibits 1 through 11 13 -14 15 16 17 18 19 20 21 22 23 24 25

PAGE 20

PAGE 20 STATE OF MELIPETCO 20. COUNTRY OF DURIDARTINO ) 1, LIVEA MALOW, Court Perorter is and for the County of Bernalillo, State of New Nexico, do hereby certify that the foregoing and attached Transcript of Hearing before the dearnley-meier regra New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability. 6.2. 2 COURT REPORTUR SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEXENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 209 SIMMS RLDG., P.O. BOX 1092.6PHONE 243-6601.4LBUQUERQUE. NEW MEXICO 87103 First national Bank Bldg. East.albuquerque, new Mexico 87108 Y32.7 1933 3 10 



# **OIL CONSERVATION COMMISSION**

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

GOVERNOR **BRUCE KING** CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

March 2, 1971

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

4502 Re: Case No.____ Order No. R-4111

Applicant:

Samedan Oil Corporation

Dear Sir:

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

Very truly yours, a.d. ( torter Co

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC X Artesia OCC

Aztec OCC

Other

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE No. 4502 Order No. R-4111

APPLICATION OF SAMEDAN OIL CORPORATION FOR SPECIAL POOL RULES AND POOL EXTEN-SION, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. On February 24, 1971, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this <u>2nd</u> day of March, 1971, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

## FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Samedan Oil Corporation, seeks the extension of the horizontal limits of the East Morton-Wolfcamp Pool, Lea County, New Mexico, to include the following-described area:

> TOWNSHIP 14 SOUTH, RANGE 35 EAST, NMPM Section 34: NW/4

TOWNSHIP 15 SOUTH, RANGE 35 EAST, NMPM Section 3: NW/4 Section 4: S/2 and NW/4

(3) That the horizontal limits of the East Morton-Wolfcamp Pool should not be extended to include the above-described area as said area has not been developed. -2-CASE No. 4502 Order No. R-4111

(4) That the applicant further seeks the promulgation of special rules and regulations governing the East Morton-Wolfcamp Pool, including a provision for 80-acre spacing and proration units.

(5) That the applicant has established that one well in the East Morton-Wolfcamp Pool can efficiently and economically drain and develop 80 acres.

(6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, special rules and regulations providing for 80-acre spacing units should be promulgated for the East Morton-Wolfcamp Pool.

(7) That the special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

## IT IS THEREPORE ORDERED:

That Special Rules and Regulations for the East Morton-Welfcamp Pool, Lea County, New Mexico, are hereby promulgated as follows:

> SPECIAL RULES AND REGULATIONS FOR THE EAST MORTON-WOLFCAMP POOL

<u>RULE 1</u>. Each well completed or recompleted in the East Morton-Wolfcamp Fool or in the Wolfcamp formation within one mile thereof, and not nearer to or within the limits of another designated Wolfcamp oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

<u>RULE 2</u>. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit. -3-CASE No. 4502 Order No. R-4111

<u>RULE 3.</u> The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the nonstandard unit within 30 days after the Secretary-Director has received the application.

RULE 4. Each well shall be located within 150 feet of the center of a governmental guarter-guarter section or lot.

<u>RULE 5.</u> The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

<u>RULE 6</u>. A standard proration unit (79 through 81 acres) shall be assigned an 80-acre proportional factor of 5.67 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

## IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the East Morton-Wolfcamp Pool or in the Wolfcamp
-4-CASE No. 4502 Order No. R-4111

formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before April 1, 1971.

(2) That, pursuant to Paragraph A. of Section 65-3-14.5, MMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the East Morton-Wolfcamp Pool shall have dedicated thereto 80 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 80 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the effective date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the East Morton-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

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

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

11

Brue King

OIL CONSERVATION COMMISSION

11.1

STATE OF NEW MEXICO

BRUCZ-KING, Chairman

ALEX J. ARMIJO, Member

Villa



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

Cure 7502 Leard 2-24-71 Rec. 2-25-7/ Arant Samedan 80 Ac por rules for the E. Morton - Wolfcand Leane Horizontal Limitarce they are as this includes all completed wells. The Morton - Hower Nol - Rula Forthis Pool. Arast. Perm. order. reste

## CONTRACT OF AN AND A STATEMENT OF A

# <u>inado Parte e tente</u>

# Laweite Dire Law Call, Park Lawie

> Township 14 South, Range 35 East, N.M.F.M. Section 33 - 38/4 Section 34 - 38/4

> Township 15 South, Range 35 East, N.M.P.M. Section 4 - All - Except SW/4 Section 3 - NM/4

(3) That said separate concern source of supply has previously been designated as an extension to the East Morton Pool. A new pool should be created as set out above and designated the _______ Lower Welfermy Pool as set out above.
(4) That in order to prevent the economic loss caused by the drilling of unnessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporally special index and regulations for 80-acre spacing units about be proculgated for the _______ Inter Velferup Pool.

(5) The diverse provide the control of the control of the set of the diversity of the little? (5) The diverse is entered of the diversity of the diversity of the performance of the diversity of the diversity

(6) The division of a set of the content of the state is a divised of the state of the set of th

(8) That a new pool in Lea County, New Mexico, classified as an oil peol for Lower Welfeamp production is hereby created and designated the Lower Welfeamp Fool, with vertical limits competizing the zone encountered between 10,302 and 10,546 feet in the Samedan Oil Corporation Gulf State No. 1 Well, located in Unit "A", Section 4, Township 15 South, Range 36 East, N.M.P.M., Lea County, New Mexico and horizontal limits comprising the following lands:

> Township 14 South, Range 35 Bast, N.M.P.M. Section 33 - 38/4 Bection 34 - 38/4

> Township 15 South, Range 35 Mast, N.M.P.M. Section 4 - All Section 3 - NM/4

> SPECIAL RULES AND REGULATIONS FOR THE MOLFCAMP FOCL

RULE 1. Each well completed or recompleted in the _____ Lower Wolfcamp Pool or in the Lower Wolfcamp Connection within one sile thereof, and not nearer to or within the limits of another designated Lower Wolfcamp Pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

HULE 2. Such well shall be located on a simpler built commining for acres, more to leas, consisting of the H/O, C/O, M/O or t/O of a control which quester sociality provisos, how wer, host control entered because and the exclusion control of a control of a control of control of the contro

3.7.1.3. The lower requestment of the gravitation and executive to form the measure office of the control of the edition of the edition of the edition of the box 20.6.1 The constant of the control of the edition of the edition of the edited of the box 20.6.2 The constant of the control of the edition of the control of the constant of the edited of the 20.6.2 The constant of the control of the edition of the control of the constant of the edited of the 20.6.2 The constant of the control of the control of the control of the control of the edited of the 20.6.2 The constant of the control of the edited and the formation of the control of the formation of the control control of the formation of the control of the formation of the control control of the formation of the control control of the formation of the control control of the formation of the control of the con

and the second second

a 2000 de la companya da 10 deste en el secondo secondo de la companya da 1993 de la companya de la companya de Anoma de la companya d

Which is the second particles of approximation exaction of the second dependent of the backbox of the second contraction of the second test of the second test of the second test of the second test of the second contraction of the second test of the second test of a wall previsually billed to entries between ADD operators of setting the proposed uncerthodex location shall be notified of the application by explored or continue and the application shall state that such action has been furnished. The Secretary-Director any approve the application upon receipt of written writers from all offset operators or if no offset operator has entered an objection to the uporthodex location within 20 days after the Secretary-Directr has received the application.

RULE 6. A standard proration unit (79 through 81 acros) shall be assigned an 80-acro proportional factor of 5.67 for allowable purposes, and in the event there is more than one well on an 80-acre provation unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard provation unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

IT IS FURTHER ORDERED:



.....

# THE SUPERIOR OIL COMPANY

P. O. BOX 1900 MIDLAND, TEXAS 79701

February 19, 1971

Mr. D. S. Nutter State Land Office Chief Engineer NMOCC P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: East Morton-Wolfcamp Pool Pool Extension and Pool Rules (Case 4502) Lea County, New Mexico

Dear Sir:

The Superior Oil Company is lessee of certain lands located in Sections 33 and 34, T14S, R35E, and Section 3, T15S, R35E, Lea County, New Mexico, and we support Samedan Oil Corporation's application to develop the Wolfcamp Zone on 80 acre` spacing with wells to be located in center of any quarter quarter section with the standard unit consisting of N/2, S/2, E/2, or W/2 of a governmental quarter section.

Yours very truly,

THE SUPERIOR OIL COMPANY

Terry Clay

TDC/es

SAMEDAN OIL CORPORATION 2207 WILCO LUILDING MIDLAND, TEXAS 79701

January 27, 1971

Superior Oil Company Attention: Raymond Parker P. O. Box 1900 Midland, Texas 79701

Union Oil Company of California Attention: C. W. Carry 300 Security Mational Rank Building Roswell, New Mexico 88201

RE: East Morton Wolfcamp Pool

[: ]e

JAN 2.8

THE SUPERIOR OIL CO.

MIDLAND LAND DEPT

63

#### Gentleman:

The New Mexico Oil Conservation Commission has set February 24 as the hearing date for rules and regulations pertaining to the East Morton Wolfcamp Pool. Samadan will be represented by Jason W. Kellahin of the Kellahin and Fox Law Firm in Santa Fe, New Mexico.

I have indicated earlier that it is our intention to request rules similar to the rules and regulations for the Morton Lower Wolfcamp Pool. If you concur with our recommendation, we would very much appreciate your informing the Commission either by having a representative present or by letter, stating your position to the Commission.

If any additional information is needed, please inform this office.

Very truly yours,

SAMEDAN OIL CORPORATION

Division Manager

CMM/tg

XO: D.H. Cellins Jr. C. U.S. Martin DIL PRODUCER

And a state of the state of the

W. A. MONCRIEF, JR. B17 MIDLAND TOWER BUILDING MIDLAND, TEXAS 79701 February 18, 1971

TELEPHONE 682-1762

Cus' .....

F

39 212 212

5

PIL FE3

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

> Re: East Morton Wolfcamp Pool Lea County, New Mexico

#### Gentlemen:

By this letter you are hereby informed that the W. A. Monorief Oil Interest accepts and concurs in the temporary field rules request to be presented by the Samedan Oil Corporation involving the Samedan Oil Corporation #1 Gulf-State located in Section 4, Township 15 South, Range 35 East, Lea County, New Mexico, and other producing or drilling wells in the immediate area.

Very truly yours,

W. A. MONCRIEF

Kuhard Q. Mendenhall By: Richard A. Mendenhall Manager

RAM:bjg

'Examiner Hearing - February 24, 1971 -2Docket No. 5-71

- 3. A 480-acre non-standard gas proration unit comprising the W/2 and the NE/4 of Section 13, Township 23 South, Range 36 East, to be dedicated to Texas Pacific State "A" Account 1 Wells Nos. 20,21, and 22.
- 4. A standard 640-acre gas proration unit comprising all of Section 11, Township 22 South, Range 36 East, to be dedicated to Texas Pacific State "A" Account 2 Wells Nos. 14, 36, and 42.
- 5. A 480-acre non-standard gas proration unit comprising the E/2 of Section 8, and the SW/4 of Section 9, Township 22 South, Range 36 East, to be dedicated to Texas Pacific State "A" Account 2 Wells Nos. 38, 43 and 56.
- CASE 4504: Application of Humble Oil & Refining Company for the reinstatement of cancelled underproduction, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the general rules and regulations for prorated gas pools of Southeastern New Mexico promulgated by Order No. R-1670, as amended, to permit the reinstatement of underproduction accumulated by its Greenwood Well No. 11 located in Unit I of Section 9 and its Penrose Well No. 1 located in Unit B of Section 13, Township 22 South, Range 37 East, Blinebry Gas Pool, Lea County, New Mexico, and cancelled January 1, 1971.
- CASE 4505: Application of Atlantic Richfield Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formation in the perforated interval from 2978 feet to 3350 feet in its Federal Well No. 2 located in Unit N of Section 9, Township 20 South, Range 33 East, West Teas Yates-Seven Rivers Pool, Lea County, New Mexico.
- CASE 4506: Application of Atlantic Richfield Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Pennsylvanian formation in the perforated interval from 10,278 feet to 10,442 feet in its Eidson "C" WN Well No. 3 located in Unit F of Section 26, Township 16 South, Range 35 East, Shoe Bar-Pennsylvanian Pool, Lea County, New Mexico.

CASE 4507:

D7: Application of Atlantic Richfield Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the perforated interval from 13,690 feet to 13,726 feet in its Lea State 396 Well No. 3 located in Unit G of Section 35, Township 15 South, Range 36 Fast, Dean-Devonian Pool, Lea County, New Mexico.

CASE 4502:

2: Application of Samedan Oil Corporation for special pool rules and pool extension, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks the promulgation of special pool rules for the East Morton-Wolfcamp-Pool, Lea County, New Mexico, including a provision for 80-acre spacing and proration units. Applicant further seeks extension of the horizontal boundaries of said pool to include the following: Examiner Hearing - February 24, 1971 -3-

(Case 4502 continued)

TOWNSHIP 14 SOUTH, RANGE 35 EAST SECTION 34: NW/4

TOWNSHIP 15 SOUTH, RANGE 35 EAST Section 3: NW/4 Section 4: S/2 and NW/4

- CASE 4503: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Penroc Oil Corporation and all other interested persons to appear and show cause why the intentional deviation of Penroc Oil Corporation State Well No. 2, having a surface location 360 feet from the South line and 330 feet from the East line of Section 28, Township 17 South, Range 28 East, Empire-Abo Pool, Eddy County, New Mexico, to a bottom hole location 123 feet from the South line and 149 feet from the East line of said Section 28 should be approved and why the allowable assigned to said well should not be reduced to offset any advantage gained by said bottom-hole location over other producers.
- CASE 4508: Application of Continental Oil Company for the assignment of discovery allowable and promulgation of special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the assignment of an oil discovery allowable to its SEMU Well No. 10 located in Unit F of Section 29, Township 20 South, Range 38 East, Warren-Devonian Pool, Lea County, New Mexico. Applicant further seeks the promulation of special rules for said pool, including provisions for 80-acre spacing units.
- CASE 4509: Application of Continental Oil Company for an amendment of Order No. R-2015, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-2016 to permit the commingling of Paddock oil production from its Mitchell A and B leases in Sections 17, 18, 19 and 20, Township 17 South, Range 32 East, Maljamar-Paddock Pool, Lea County, New Mexico, without first separately metering the production from said leases.
- <u>CASE 4510</u>: Application of Amerada Hess Corporation for amendment of special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-510, which order established special pool rules for the Bronco Siluro-Devonian Pool, Lea County, New Mexico, to permit the assignment of allowable to wells in said pool on the basis of the statewide oil allowable rules and to no longer require the taking of bottom-hole pressure tests.

PERRY R. BASS DIVISION LAND & GEOLOGICAL OFFICE POST OFFICE BOX 171 MIDLAND, TEXAS 79701

February 22, 1971

Re: East Morton Wolfcamp Area Lea County, New Mexico

Commissioner of Public Lands State of New Mexico Santa Fe, New Mexico 87501

Dear Sir:

This letter is to advise you Perry R. Bass concurs with Samedan Oil Corp. in their request of temporary field rules setting forth 80-acre spacing covering the above area.

Generally, we favor similar temporary field rules governing the Morton Lower Wolfcamp Pool.

Yours very truly, Liee Section Bill Seltzer

BS/sb

cc: Mr. Pat Duncan New Maximo Oil Conservation Commission 2. O. Box 2088 Santa Fe, New Mexico 87501

> Ro: Last Morton Wolfcamp Pool Lea County, New Mexico

#### Gentlemen:

By this letter you are hereby informed that the W. A. Monorief Oil Interest accepts and concurs in the temporary field rules request to be presented by the Samedan Oil Corporation involving the Samedan Oil Corporation #1 Gulf-State located in Section 4, Tourship 15 South, Range 35 East, Lea County, New Mexico, and other producing or drilling wells in the immediate area.

Very truly yours,

W. A. MONCRIEF

By: Hichard A. Mendenhall Manager

RAN:bjg

.

Ralph Lowe Estate

Phone 684-7441

Box 832 Midland, Dexas 79701 February 19, 1971

Samedan Oil Corporation 2207 Wilco Building Midland, Texas 79701

Attention of Mr. Clifford W. Matthews

Field Rules Hearing East Morton Wolfcamp Pool Lea County, New Mexico

#### Gentlemen:

The Ralph Lowe Estate would go along with the field rules that Samedan Oil Corporation would favor for the above-mentioned pool.

Very truly yours,

RALPH LOWE ESTATE

that the Charles L. Morgan, Jr.

CLM:jl

## EAST MORTON WOLFCAMP FIELD Lea County, New Mexico

# VOLUMETRIC OIL RESERVE ESTIMATES

# BASIC DATA:

Porosity	12 %
Net Pay	25
Water Saturation	<u>)</u> 44
Initial F.V.F.	1.24
Recovery Factor	16 🐔

# CALCULATIONS:

Ultimate Oil Recovery = 
$$\frac{7758(\phi)(1-Sw)(R.F.)}{Boi}$$
  
=  $\frac{7758(.12)(1-.44)(.16)}{1.24}$   
= 67.27 BBL/ACRE-FT.

For a Net Pay Thickness of 25'

**Ultimate** Oil Recovery = (67.27 Bbl./Ac.-Ft.)(25') = 1681.75

= 1681.75 BELS/ACRE

BEFORE	EXAMINER	UTZ
OIL CON-		
Acadedes	- : •	5
CASE NO	4562	

## EAST MORTON WOLFCAMP FIELD Lea County, New Mexico Individual Well Data

	GULF-STATE #1	CARTER #1
Elev.	4015 K.B.	4024 K.B.
T. D.	10,546'	10,838'
P.B.T.D.	10,546'	10,774 '
Casing	5 ¹ "@ 10,510' w/450 sx.	5½" @ 10,824' ₩/450 sx.
Prod. Interval	Open Hole 10,490-546'	10,540' - 10,544'*
Treatment	Natural	250 Gal. 15% Acid
Date	~~	1-20-71
Init. Pote.	309 B.O. & 50 B.W. GOR=427:1 18/64"A.C. F.T.P.=310 P.S.I.G. Gravity-45.3°	389 B.O. & 74 B.W. GOR=23:1 18/64"A.C. F.T.P.=270 Gravity-42.2° API
1-71 Prod.	11,993	1922 B.O. & 869 B.W.
Cum. Prod. 2-1-71	36,928	1922

TOTAL FIELD CUMULATIVE 2-1-71: 37,850 Barrels Oil

* 10,574 - 578' - Rec. 823 B.W. & No. 011

Squeezed Perfs w/100 sx.

BEFORE	EXAMIN	IER UTZ
OIL CONTRA	-	NON SON
CASE NO.		

# EAST MORTON FIELD LEA COUNTY, NEW MEXICO

# Bottom Hole Pressure Data

WELL	DATE	measured bhp @ -6550 datum	CALCULATED RESERVOIR BHP
Gulf State No. 1	9-16-70 DST No. 2 Gauge	4041 PSIG @ 10,476'	4,073
	2-13-71	4000 PSIG	4,039
Carter No. 1	2-11-71	3986 PSIG	4,041

BEFORE	EXAMINER	1177
OIL CORE		MON .
CASE NU.		

BEFORE EXAMINER LITZ
OIL CONSERVATION AND A DATA
Sanedo-EXistofi in. 7
CASE NO. 4502

## EAST MORTON WOLFCAMP FIELD LEA COUNTY, NEW MEXICO

# Comparison of Reservoir Properties

	MORTON FIELD	N. MORTON FIELD	E. MORTON FIELD
Depth to Top of Pay	10,364'	10,435'	10,408'
Net Pay, Ft.	40 <b>'</b>	12'	25'
Porosity, %	9.6	10.7	12
Water Saturation, %	21%	30 <b>%</b>	44%
Permeability, Mo.	34	41.7	N.A.
Original Reservoir Pressure, PSIG	4,054' <b>(-</b> 6290')	4,044'(-6400')	4 <b>,07</b> 3' <b>(-</b> 6550')
Saturation Pressure, PSIG	2,552	858	N.A.
Original Solution GOR SCF/STB	1,555	377	N.A.
Initial Formation Volume Factor, Bbl./Bbl.	1.899	1.236	N.A.
Stock Tank Oil Gravity, API @ 60 ⁰ F.	45.1	44.8	եր
Gas Specific Gravity	•976	0.78	N.A.
Reservoir Temperature, F.	154	157	157
Initial Reservoir Oil Viscosity, CP	0.253	0.709	N.A.

BEFORE EXAMINER UTZ OIL CONSERVICE Samida EXHILI 8 CASE NO. 420-2

G

## EAST MORTON WOLFCAMP FIELD LEA COUNTY, NEW MEXICO

Economics for Various Spacing Patterns

DATA

Net Oil Value After Production Taxes - \$3.20 per barrel Net Interest After Royalty - 76.7% Production Taxes - .07087

Lifting Costs - \$6,000 per year - Well flowing \$9,600 per year - Well artificial lift

Well Investment - \$201,790 - Drill and Equip <u>10,000</u> - Artificial Lift Equipment \$211,790

\$105,000 - Dry Hole Cost

ECONOMICS	Present	WELL SPACING 80 Acre	40 Acre
1. Recoverable Oil (Barrels)	379,431	126,476	63,238
2. Net Oil Revenue (2.45)	\$929,606	\$309 <b>,86</b> 6	<b>\$</b> 154 <b>,</b> 933
3. Operating Costs	\$ 67,200	\$ 48,000	\$ 38,400
4. Net Operating Revenue, After Taxes and Royalty	\$862,406	\$305,066	<b>\$116,</b> 533
5. Investment	\$211,790	\$211,790	\$211,790
6. Profit or Loss	<b>\$</b> 650 <b>,61</b> 6	\$ 93 <b>,276</b>	(\$ 95,257)
7. Profit to Investment Ratio	3.07	0.44:1	(Loss)

BEFORE EXAMINER UTZ
OIL CONSERVED DE DE DE
Samthankhander . 9
CASE NO. 4502



j)

JASON W. KELLAHIN ROBERT E. FOX KELLAHIN AND FOX ATTORNEYS AT LAW 54% EAST SAN FRANCISCO STREET POST OFFICE BOX 1769 SANTA FE, NEW MEXICO B7501

TELEPHONE 982-4315 Area Code 505

January 21, 1971

.

6604302

37 3 114

. ;

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

#### Gentlemen:

Enclosed is the application of Samedan Oil Corporation for adoption of pool rules for the East Morton pool, Lea County, New Mexico.

It is requested that this application be set before the Commission's examiner at the next available examiner hearing.

Yours very truly,

ason W. Kellahin Jason W. Kellahin

jwk;ls

# DOCKET MALEO

Data 2-11-71

BEFORE THE

## OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF SAMEDAN OIL CORPORATION FOR ADOPTION OF POOL RULES, EAST MORTON-WOLFCAMP POOL, LEA COUNTY, NEW MEXICO

14

(Jac 4502

ာ ၂

.

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

Comes now Samedan Oil Corporation and applies to the Oil Conservation Commission for and order adopting pool rules for the operation of the East Morton-Wolfcamp Pool, Lea County, New Mexico, with a provision for 80-acre spacing and proration units, and in support thereof would show the Commission:

1. Applicant has completed its Gulf State Well located 660 feet from the North and East lines of Section 4, Township 15 South, Range 35 East, N.M.P.M., and is currently completing a well located 510 feet from the South line, and 1830 feet from the East line of Section 33, Township 14 South, Range 35 East, for production from the East Morton-Wolfcamp formation.

2. Applicant proposes the adoption of pool rules for the development and operation of the East Morton-Wolfcamp Pool, such rules to include a provision for 80-acre spacing and proration units with the assignment of an 80-acre proportional factor for the assignment of allowables, with each well to be located on a standard unit consisting of the N/2, S/2, E/2 or W/2 of a governmental quarter section, wells to be located within 150 feet of the center of a governmental quarter-quarter section or lot, provided that the drilling of a well on each of the quarter-quarter sections in the unit should not be prohibited. Any wells drilled or drilling that will not comply with the well location requirements should be granted an exception to the requirements of the well location rule.

3. Applicant proposes that the East Morton-Wolfcamp Pool consist of the following lands:

Township 14 South, Range 35 East, N.M.P.M.

Section 33 - SE/4 Section 34 - N/2, SW/4 Township 15 South, Range 35 East, N.M.P.M. Section 4 - All Section 3 - NW/4

and such other lands heretofore included in the Pool.

4. The evidence available indicates that one well will efficiently and economically drain and develop not less than 80 acres in the East Morton-Wolfcamp Pool.

5. To prevent the loss caused by the drilling of unnecessary wells, to prevent waste, and protect correlative rights, special rules and regulations providing for 80-acre spacing and proration units should be adopted for the East Morton-Wolfcamp Pool.

Wherefore, applicant prays that this application be set for hearing before the Commission or before the Commission's duly appointed examiner, and that after notice and hearing as required by law, the Commission enter its order adopting pool rules for the East Morton-Wolfcamp Pool, as prayed for.

Respectfully submitted, SAMEDAN OIL CORPORATION

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

## DRAFT

GMH/esr

#### 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. 4502 Order No. R- 4/11

RECORDS CENTER

TION

APPLICATION OF SAMEDAN OIL CORPORATION FOR SPECIAL POOL RULES AND POOL EXTENSION, LEA COUNTY, NEW MEXICO.

# ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 24, 1971, at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this _____ day of _____, 1971, the Commission, a guorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Samedan Oil Corporation, seeks the extension of the horizontal limits of the East Morton-Wolfcamp Pool, Lea County, New Mexico, to include the following-described area:

rca.

TOWNSHIP 14 SOUTH, RANGE 35 EAST, NMPM Section 34: NW/4

TOWNSHIP 15 SCUTH, RANGE 35 EAST, NM[^]M Section 3: NW/4 Section 4: S/2 and NW/4

(3) That the horizontal limits of the East Morton-Wolfcamp

Pool should be extended to include the above-described area as said area has not been deneloped. Litte

-2-CASE No. 4502

(4) That the applicant further seeks the promulgation of special rules and regulations governing the East Morton-Wolfcamp Pool, including a provision for 80-acre spacing and proration units.

() That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the East Morton-Wolfcamp Pool.

(7) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(7) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one webl.

(8) That this case should be reopened at an examiner hearing in March; 1972, at which time the operators in the subject pool should be prepared to appear and show cause why the Bas's Morton Wolfcamp Pool should not be developed on 40-acre spacing units.

## IT IS THEREFORE OKDERED:

Pool in Lee County, New Mexico, are hereby extended to include the following-described area: <u>TOWNSNIP 14 SOUTH, RANGE 35 BAST, NMPM</u> Section 34: NW/4 -3-CASE No. 4502

5 SOUTH, NANGE 35 EAST, NMPM OWNSHIP ction 3: S/2 and NW/4 Section 4:



That temporary Special Rules and Regulations for the

East Morton-Wolfcamp Pool, Lea County, New Mexico, are hereby

promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE EAST MORTON-WOLFCAMP POOL

<u>RULE 1.</u> Each well completed or recompleted in the <u>East</u> <u>Morton-Wolfcamp</u> Pool or in the <u>Wolfcamp</u> formation within one mile thereof, and not nearer to or within the limits of another designated <u>Wolfcamp</u> oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

<u>RULE 2.</u> Each well shall be located on a standard unit ` containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

<u>RULE 3</u>. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the nonstandard unit within 30 days after the Secretary-Director has received the application.

<u>RULE 4.</u> Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

<u>RULE 6</u>. A standard proration unit (79 through 81 acres) shall be assigned an 80-acre proportional factor of **S.67** for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres. -4-CASE No. 4502

#### IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the <u>East Morton-Wolfcamp</u> Pool or in the Wolfcamp formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before <u>Office</u>, 1971.

(2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the <u>East Morton-Wolfcamp</u> Pool shall have dedicated thereto 80 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 80 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the effective date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the <u>East Morton-Wolfcamp</u> Pool or in the <u>Wolfcamp</u> formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

(3) That this case shall be reopened at an examiner hearing in <u>March</u>, 1972, at which time the operators in the subject pool may appear und show cause why the <u>East Morton-Wolfcamp</u> Pool should not be developed on 40-acre spacing units.

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

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

SEAL

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

esr/

CASE 4503: SHOW CAUSE HEARING, PENROC DIRECTIONAL DRILLING, EDDY COUNTY, N.M.

De hours Hearing in 6-16-11