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

209 SIMMS BLDG. . P.O. BOX 1092 . PHONE 243-6691 . ALBUQUERQUE, NEW MEXICO

BEFORE THE

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico EXAMINER HEARING February 24, 1971

IN THE MATTER OF:

Application of Samedan Oil Corporation for special pool rules and pool extension, Lea County, New Mexico.

Case 4502

DEFORE: ELVIS A. UTT, DXAMINTE



TRANSCRIPT OF HEARING

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2 MR. HATCH: Call Case 4502. Application of Samedan 3 Oil Corporation for special pool rules and pool extenstion, Lea County, New Mexico. MR. KELLAHIN: If the Examiner please, Jason 6 Kellahin, Kellahin and Fox, Santa Fe, appearing for the 7 Applicant. 8 We have one witness I would like to have sworn. 9 (Witness sworn) 10 MR. UTZ: Are there other appearances? Have 11 you got some exhibits to mark, or are they all marked? SPECIALIZING IN DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 12 MR. KELLAHIN: They are all marked. Here they NEW MEXICO 87103 87108 13 We put them up on the hoard here. are. 14 MR. UTX: Now is that all of them, both of 243-6691 • ALBUQUERQUE, BUQUERQUE, NEW MEXICO 15 them? Have you got more in here? 16 MR. KELLAHIN: Yes. sir. 17 MR. HATCH: These haven't been stamped. 18 MR. KELLAHIN: Yes, they have. Those you have got 19 have been. 20 JOEL T. BLANKENSHIP 209 SIMMS BLDG. P.O. BOX FIRST NATIONAL BANK BLE 21 having been first duly sworn, testified upon his oath as 22 follows: DIRECT EXAMINATION 23 24 BY MR. KELLAHIN:

Would you state your name, please, sir?

MR. UTZ: Call Case 4502.

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A	My name is Joel T. Blankenship. I am employed as
	a geologist by Samedan Oil Corporation in Midland,
	Texas.
2	Have you ever testified before the Oil Conservation
	Commission?
Α	No, I have not.
Q	For the benefit of the Examiner, would you briefly

I graduated from Virginia Polytechnic Institute in 1960 with a B. S. in geology. I worked as a petroleum geologist for eleven years, and I have worked in New Mexico for the past seven years.

outline your education and experience as a

I was employed by Amarada Petroleum Corporation for five years, and then with Samedan for the last year and a half, two years.

- In connection with your work for Samedan Oil
 Corporation, have you done any work in what has been
 designated as the east Morton Wolfcamp Pool area?
- Mes, I have.

geologist?

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. UTZ: Yes, they are.

2 (Mr. Kellahin continuing) Mr. Dlankenshin, would you state briefly what is proposed by the applicant in

this case?

- Me are proposing field rules be established for the East Morton field with eighty acre well spacing and vertical limits to be designated from 10,302 feet as to 10,645, that is penetrated by the Samedan Tumber 1 Gulf State Well.
- Now, referring to what has been marked as the

 Applicant's Exhibit Humber 1, would you step over

 to the board here and discuss the information shown

 on that exhibit?
- A Exhibit Number 1 is a structure map drawn on top of the lower Wolfcamp Peef Mone, showing the location of the Morton Field, and the lower left-hand side of the map, the Morth Morton Field and the East Morton Area.

All three of these area produced from the lower Wolfcamp Reef, and there appears to be adequate separation between this area and the other two areas by virtue of dry holes drilled in between here and here and here and here.

MR. UTS: Now, what section is this "here and here" in --

- (Mr. Kellahin continuing) Vould you designate those locations; please?
- Mell, there is -- let's see, okay. There is a dry

It is in -- southwest -- northwest of southwest of Section 32, 14 South, 35 East.

There is a dry hole in Section -- northwest of the northeast of Section 7 and 15 south, 35 east.

This well was structurally low and encountered water in the reef zone.

MR. UTZ: You had one more in there, didn't you? One other section?

THE WITNESS: This was a producer at one time.

It is abandoned. This well in Section 6 here, the Texas

Crude Well was at this time in the reef zone, no verocity.

hole between the North Morton area and the East

- (Mr. Kellahin continuing) Basically the three areas are producing from the same formation?
- A Yes. The same strategraphic interval.
- It is your opinion they are effectively separated?
- A Yes, sir.
- And the well which has been drilled by the applicant in this case has been located in the East Morton Pool; is that correct?
- A The Union Oil Company drilled the Number 1 Owens,

 Section 34, 14 South, 35 East, and it was originally

 designated as the East Morton Pool.

	Samedan?
А	The Number 1 Gulf State in the northeast northeast
	of Section 4, 15 South, 35 East, and also the Number
	l Carter, drilled by Samedan, and southwest of the
	southeast quarter of Section 33, 14 South, 35 East.
Ü	Did the Commission put them into the Fast Morton
	Pool?
Λ	Not as yet.
3	In your opinion, are they a part of the East Morton
	Pool?
A	We feel that they may be. This Union Number One
	Owens is possibly on a separate cumulation by virtue
	of the different chlorides of the water, at least
	in this well, and the water from the two Samedan
	wells.
Ü	And you will give information on those chlorides?
A	Yes, sir. The chlorides that is measured on it
	produced water from the Union well is on the order
	of 12.5 to 13.5 possible different chlorides, sir.
	And the chlorides from the two Samedan wells
	is on the order of thirty-five to forty thousand,
	forty-five thousand.
ð	And that would indicate they are at a separate

source of supply, in your opinion?

And a well which has subsequently been drilled by

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A	It doesn't prove conclusively, but it is a good
	indication.
2	Does Samedan have any objection, however, to being
	included in the East Morton Wolfcamp Pool?

2	It's	not	a	material	point,	as	far	as	Samedan	is

A No, it is not.

concerned?

I don't believe so.

- Q Now, does that complete your testimony with Exhibit 1?
- A Yes.
- Q Mould you turn now to what has been marked as Exhibit Mumber 2, and would you identify that exhibit?
- A Exhibit Number 2 is a cross section from the two wells labeled One and Two, located in the Morton Field.

Wells Three and Four are located in the North Morton Field.

Wells Five and Six are located -- that is -- Five is the Samedan Carter Well.

Six is the Samedan Gulf State Well right here, and Seven, Eight and Nine are located -- Seven is the Union Number 1 Owens.

The well designated as Eight is the side track hole of the Union Number 1 Owens Eight Whipstock

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to the southeast 400 feet.

And Well Number 9 that is labeled on the cross section is the Union Number 2 Owens, 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 Morton 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 6350 subsea.

The Morton is approximately 6420 subsea. The East Morton, the two Samedan wells, it's approximately minus 6526 on the subsea.

And then the Union Number 1 Owens here, it is a minus 6562 on a subsea.

And it appears that going from here in the Morton area to the Morth Morton to the Camedan wells to the Past Morton Union well, your oil water contact, it progressively lowers stenning down to the east, and indicating that you do have some separation between these various producing areas.

Most, earlier you mentioned the vertical limits of the

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proposed new pool or the East Morton Pool as it would be designated here.

That would those limits be?

He are proposing that the vertical limits for the Fast Morton lower Wolfcamp Pool be designated -- refer to Exhibit 3, please. This is a log of the Gulf State Number 1.

We are proposing the vertical limits be set from strategraphic equivalent to .10,302 feet on this well to 10,646 feet.

This well did not penetrate that deep, but the second well did and we were still in the reef at that depth.

- O How, referring to what has been marked as Exhibit
 Mumber 4, would you identify that exhibit?
- A Number A is an electrical log of the Samedan Mumber l Carter Well. It gives dual stem test data.

It has the top of the reef marked, and it also shows the perforations from 10,540 to 544.

And the two wells, the Number 1 Carter and the Number 1 Gulf State are producing from the same zone.

- Now, in general, what is the nature of this formation you are producing from?
- A In our area, in our two wells, the pay zone is a medium to coarse lead crystum and dolonite.

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2	Λ	We cored above the pay, right above the pay zone,
3		in this Carter Well, and it was highly fractured.
4	9	All right. Just from the geological point of
5		view, Mr. Blankenship, is there any reason that you
6		know of that one well would not adequately drain in
7		excess of eighty acres?
8	A	No, sir. It appears to have very good porosity and
9		permeability.
10	9	From the geological point of view, in your opinion,
11		does it make any difference how the wells are
12		located in this area?
13		Should you have flexible or fixed well locations?
14	A	Well, we would, I believe, prefer flexible locations.
15	Õ	Is it the nature of this Molfcamp formation in this
16		area to be rather small?
17	Α	Yes, sir, it is. I think they
18	Ô	That is indicated by the other pools?
19	A	The Morton and Morth Morton Pools are an example of
20		that.
21	Q	And do you anticipate, say, from that information,
22		that the East Morton would also be quite small?
23	Α	Yes, we do.
24	3	Does that complete your discussion of the exhibit?

Yes, sir, that completes my discussion.

Is it somewhat fractured or has cores in it?

your supervision?

your supervision:
A Yes, they were.
MP. KELLAHIN: At this time I would like to
offer in evidence Exhibits 1 through 4, inclusive.
MR. UTZ: Without objection, Exhibits 1 through
4 will be entered into the record.
MR. KELLAHIU: That completes the direct
examination of the witness.
CROSS EXAMINATION
EV MP. UTZ:
O Mr. Blankenship. you are requesting here an
extension to the East Morton Pool; is that correct?
A That is correct, sir.
Q Now, the pool as it is now constitutes well, I
can't read my own hieroglyphics here.
Is it three-quarters of Section 4, or all of
Section 4, one or the other?
A Let's see
Ω Is that as it originally
A You're talking about the original
Q I think it is all of Section 4. Do you remember?
A This well right here was originally designated as
East Morton.

MR. KELLAHIM: What well are you pointing to?

Mere Exhibits 1 through 4 prepared by you or under

The Owens, the Union Owens.

THE MITNESS:

	,
\\ \?	(Mr. Utz continuing) You are asking for 15 South,
	35 Hast and northwest quarter of Three, south half of
	the northwest quarter of Four.
	So the pool limits I looked at was only the
	northeast quarter of Four. Does that jibe with
	then in Section 34, which is the section directly
	above Section 3, you are asking for the northwest
	guarter?
	MR. KFLLAHIN: Southwest quarter
	THE WITNESS: Northwest.
	MR. KELLAHIN: Northwest? Oh, yes.
2	(Mr. Utz continuing) And that leaves a gap. Do you
	follow me?
7	Are you asking me a question?
Ü	Yes. I'm asking you
A	I'm sorry.
0	what it is that you are asking to be put into
	the Hast Morton Pool.
7.	It's on the -
0.	Then I sketched these out I didn't come out too good,
	50
<u>م</u>	"ell, let's see. "e're asking the southeast quarter
	of Section 33, Township 14 South, 35 East.

33 Southeast, 33, that would be this in here?

70	Okay. The southwest quarter of Section 34, 14
	South, 35 Fast, all of Section 4 except the
	southwest quarter of 15 South, 35 East.
~	Drough the gouthwest 2

- 2 Except the southwest?
- Except the southwest quarter. The northwest quarter of Section 33, 15, 35.
- 9 Well, then, this advertisement is wrong.

MP. HATCH: No. I think some of this that you read is already in the pool; correct?

MR. KELLAHIN: Correct.

THE HITHESS: Yes.

MR. HATCH: And the part that is advertised here,
I think would be the part you are asking to be put into the
pool that is not presently in the pool; is that correct?

THE WITNESS: Yes, sir.

MR. KELLAHIN: That is correct. That's correct. I would qualify this based on the witness' testimony. We are not really concerned whether this is put in the Fast Morton Pool or in a new pool composed of the acreage outlined by the witness as — created as a new pool. Che or the other.

But we're not concerned, really, how you do it.

MR. UTZ: Well, then, I looked at the wrong nomenclature book. But if it's all contingous, why, it's all right with me.

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record?

MR. HATCH: I would say the application is not as it is here, so if we are wrong here, I'll have to take it, but I think this would cover --MR. KELLAHIN: I think it would. MR. HATCH: -- the area. MR. UTZ: Other questions? Mitness may be excused. MR. KELLAHIN: I would like to call the next witness, Mr. Glenn Cope. (Witness sworn) GLENN COPE having been first duly sworn, testified upon his oath as follows: DIRECT EXAMINATION BY MR. KELLAHIN: Mould you state your name, please? Glenn Cope. By whom are you employed and in what position, Mr. Cope? I am employed by Samedan Oil Corporation as an engineer in the Mest Texas-New Mexico division.

Have you ever testified before the Oil Conservation

Commission and made your qualifications a matter of

Are there other questions?

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Yes, I have. Λ

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MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. UTZ: Yes, they are. I don't have his name. We were both gabbing here.

THE WITNESS: I'm Glenn Cope, G-1-e-n-n C-o-p e.

(Mr. Kellahin continuing) How, Mr. Cope, you are familiar with the application of Samedan Oil Corporation in the case before the Commission at this time. I refer you first to Exhibit Number 1, which has already been introduced.

Do you have any discussion of that exhibit? Exhibit 1 is a map of the area of interest, showing the location of the Morton, the North Morton, and the area which we are discussing today, the East Morton Field, in which we have drilled and completed two wells.

- Do you have any information on the net feet of pay on the two wells, the Number 1 Gulf State and the Mumber 1 Carter?
- Yes, sir, I do. I would like to offer our Exhibit Mumber 5, the porosity net pay and calculations based upon the perimeters as we think they are at this time.
- Hould you discuss the information that is shown on

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Exhibit Humber 5?

The information shown on Exhibit Humber 5 is data which we have acquired to analysis of logs on the wells that -- Gulf State Humber 1 and the Carter Well Number 1.

This shows an average porosity of approximately twelve percent, net pay estimate of twenty-five feet, water saturation from log calculations of 44 percent.

Worton Field to the Morthwest and estimated a recovery factor of sixteen percent.

Our calculations using these above perimeters indicate that we should recover in the order of 67.27 barrels per acre feet primary oil, and that for a net pay thickness of 25 feet, our ultimate primary oil recovery will be in the order of 1691.75 barrels per acre.

- Now, referring to what has been marked as Exhibit
 Tumber 6, would you identify that exhibit?
- Mell data from the two wells which Samedan Oil

 Corporation has drilled in the East Morton Wolfcamp

 area, the Gulf State Well Number 1 and the Carter Well

NEW MEXICO 87103 NEW MEXICO 209 SIMMS BLDG. # P.O. BOX 1092 # PHONE 243-6691 # ALBUQUERQUE. FIRST NATIONAL BANK BLDG. EAST # ALBUQUERQUE. NEW MEXICO Number 1.

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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 10,540 feet to 10,544 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 Wolfcamo area.

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

of minus 6550, which indicated a bottom hole pressure at that depth of 4073 pounds.

On February the 13th, 1971, the two wells, the Gulf State Well Number 1 and the Carter Well Number 1, were both shut in, the bottom hole pressures allowed to stabalize, and the bottom hole measured at the pressures indicated, and corrected to a datum, showed a bottom hole pressure of 4039 pounds on the Gulf State Well Mumber 1 and 4,041 pounds on the Carter Number 1, which has a weighted bottom hole average, indicated a pressure drop of twenty-three pounds in the reservoir.

- Mow, based on that information, is that caused by cumulative production?
- A Yes.
- Yould that indicate this is a rather small reservoir?
- A Yes. This would indicate that the reservoir probably would not cover a large areal extent.
- Now, referring to what has been marked as Exhibit

 Number 8, would you identify that, please?
- Exhibit Number ? is a comparison of reservoir properties in the Morton field, the Worth Morton field, and the East Morton field, which we are concerned with, showing the depth to the top of the pay zone, average net feet of pay, the average porosity,

the average water saturation, the average permeability
in millidarcies, the original reservoir pressure, the
saturation pressure as measured from bottom hole sample
analyses, the original solution gas oil ratio, the
initial formation volume factor, et cetera.

The data was assembled to show the similarity between the fields in the area.

We feel like that our area of interest will more closely proximate the recoveries experienced in the North Morton fields, due to the similarity between the unsaturated nature of the crude and the gas oil ratio.

- The gravity of the crude is substantially the same in all three, is it not?
- A That is true.
- Mow, you show that the permeability is not available for the East Morton field.

Mould you anticipate it would be substantially the same as the North Morton?

- Me feel that the permeability in the East Morton area will probably be higher than that average in the North Morton field, due to the performance of the wells.
- The present history of the reservoir to date would indicate a higher permeability; is that correct?
- A That is correct.

Û	And is that permeability, in your opinion without
	regard to any other factors, would one well adequately
	drain eighty acres just on the permeability?
A	I feel that one well would adequately drain in excess

- A I feel that one well would adequately drain in excess of eighty acres.
- Now, what is the producing mechanism in this pool?

 Is it a solution gas drive?
- Well, in all of the fields of this nature in the area we find that all of the fields have produced by a solution gas drive mechanism, and that most of these fields are closed systems, and produced by this solution gas drive.

And this is the recovery mechanism which we anticipate in the East Morton Wolfcamp Pool.

- Now, referring to what has been marked as Exhibit
 Number 9, would you identify that exhibit?
- A Exhibit Number 9 is a comparison of the economics for various well spacing patterns, which the field could be developed on.

The data given shows the actual value that we have received for the oil, three dollars and twenty cents per barrel, after production taxes, the net interest of the average working interest lease in the area, the production tax. the estimated lifting cost and the well investments.

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Well investments that we list here is the average of the two wells which we have drilled and equipped so far, with an estimate of \$10,000 to replace the well on artifical lift.

Now, based on the information shown on this exhibit,

- Now, based on the information shown on this exhibit, would you recommend the development of this pool on a forty acre spacing?
- A No, sir, I would not.
- 9 Would it be profitable to do so?
- No. Placing the wells on forty acre spacing would result in a dollar loss for the operator.

The three columns are calculated as the field is presently developed. In the first column were only two producing wells and one dry hole, or one bole that was low and non productive in the reef zone, showing the recoverable oil based upon the information that we have at present, and showing the profit to investment ratio under the present situation where we have two wells in the field.

The second column is based upon a well spacing of eighty acres, showing a profit to investment ratio of .44 to one.

The third column, of course, shows the economics for a forty acre location which results in a loss.

And your second and third columns are based on a

calculation of full development of the pool?

- A That's correct.
- Thereas, your first column is considered no more wells would be drilled?
- That's true.
- 1 How, referring to the next two exhibits together,
 Exhibit 10 and Exhibit 11, would you discuss the
 information that is shown on those two exhibits?
- A Yes, sir. We have shown that to develop the field on any less than eighty acre spacings would result in a dollar loss, so the question arises, can we adequately drain eighty acre tracts with one well.

The Exhibit Number 10 shows the distance between the Carter Well Number 1 and the Gulf State Well Number 1.

I believe that in order to show that one well will drain 160 acres, it is necessary to show pressure communication for a distance of 1320 feet or so, and this plat is to illustrate that there is a distance of 1600 feet between the Carter Number 1 and the Gulf State Well Number 1.

- 1 on that exhibit? What is the significance of that?
- A Since there were three wells in the area of interest,

in case anyone should be interested, we went ahead

		8	A	That's corre
		9	ð	Now you have
		10		as being 160
		11		Did you
Z OKS	103	12		two wells?
CONVE	NEW MEXICO 87103 87108	13	7 5.	Yes.
SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTION	EW MEX 108	14	O	That is show
	XICO 8	15	A	That's corre
	JOUER	16		of an interf
	.43-6691⊕ ALBI UQUERQUE, N	17		two wells.
		18		Both we
	HONE	19		Carter Well
	209 SIMMS BLDG. # P.O. BOX 1092 & PHONE 243-6691 # ALBUQUERQUE. NEW PIRST NATIONAL BANK BLDG. EAST # ALBUQUERQUE, NEW MEXICO 97108	20		stabalize.
		21		The Gul
	DG. P.	22		a bottom hol
	MMS BL	23		Carter Tell
SPECIA	209 SI	24		hole pressur

Just to show the distance?

and put it on for --

Ves.

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- Actually, the well was not produced; is that correct?
- That is correct. It was nonproductive in the reef zone.
- So it would have no effect on the other two wells?
- ect.
- e shown the distance between the two wells nn feet.

u rum a pressure survey, then, on those

- wn on Exhibit Mumber 11?
- Number 11 is a graph of the results ference test which we conducted on the

ells, the Gulf State Well Number 1 and the Number 1 were shut in and allowed to

1f State Well Number 1 was produced with le pressure, hombed on hottom, and the Number 1 was left shut in with a bottom re bomb at the bottom of the well, and after four hours, the graph illustrates that the bottom

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	3		Number 1 was produced, thus showing direct communica-
	4		tion between the two wells.
	5	Ü	Over what period of time did you run this test, then?
	6	A	This test was run over a seventy hour period. However,
	7		we picked up communication, pressure communication,
	8		within four hours.
	9	ð	And what pressure drop was ultimately achieved on it?
	10	A	Well, the Gulf State Well Number 1 was produced.
	11		The bottom hole pressure on the Carter Well Number 1
2	12		dropped to a total of eleven pounds.
	13	Ö	And does that to you, as an engineer, indicate
7108	14		there was adequate communication indicating that one
NEW MEXICO 87108	15		well would drain in excess of eighty acres?
	16	Α	That is correct.
RQUE.	17	Ü	Would it be Samedan's position that eighty acre
BUQUERQUE,	18		spacing should be instituted in this pool?
STORE	19	Α	Yes.
DG. EA	20	Ü	Would you possibly want to come back at a later
AZK B	21		date, based on further information, and apply for even
NAL B	22		wider spacing, possibly?
FIRST NATIONAL BANK BLDG. EAST ON	23	Δ	Yes, we possibly would.
FIRST	24	Õ	That would be a possibility? So you don't want to
	25		foreclose that; is that correct?

hole pressure on the Carter Well Number 1, which was

shut in, began to decline, as the Gulf State Well

SPECIALIZING IN. DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 209 SIMMS BLDG. P.O. BOX 1092 PHONE 243-6691 ALBUQUERQUE. NEW MEXICO 87103 FIRST NATIONAL BANK BLDG. EAST PALBUQUERQUE. NEW MEXICO 87108		
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	Δ	That's correct.
	Ω	Now, in the application filed with the Commission,
		it was proposed that pool rules be adopted.
		Does Samedan have a recommendation on those
		pool rules?
	A.,	They recommend
	Ü	They recommend pool rules similar to those in the
		North Morton, or the Morton pool, rather?
	<i>]</i> A.	Mell, we recommend that we be granted eighty acre
		spacings with the option to drill on either end of
		the eighty acre tract.
	C	™ould you limit the direction in which the eighty
		acres would lie? Would they run north, south, east
		or west, or in any direction?
	A	At this time we are asking for flexibility.
•	ű	Flexibility both as to the direction of the unit and
		the well location?
	Λ	That is correct.
	2	And drill to either end of the eighty?
	7\	Yes.
	Ω	And that is similar to the rules adopted in the
		Norton pool?
	A	₹es.

If the Examiner please, we have

KELLAHIN:

drawn up some recommendations which are substantially

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similar to the Morton Pool rules, which we don't need to,

I believe, offer as an exhibit. However, we would like to

leave them with you.

(Mr. Kellahin continuing) Do you have anything to add, Mr. Cope?

A Ho, sir, I do not.

MR. KULLANIN: If the Examiner please, were Exhibits 5 through 11 prepared by you or under your supervision?

THE HITHES: Yes, they were.

MR. KELLAYIN: At this time we would like to offer in evidence Exhibits 5 through 11.

MR. UTT: Without objection, Exhibits 5 through ll will be entered into the record of this case.

MP. KELLAMIN: If the Examiner please, we do have letters here from offset operators, the Perry P. Bass, W. A. Moncrief, and the Palph Lowe Estate. Copies of some of these may already be in the Commissioner's files, but these state positions in support of the application of Samedan Oil Corporation, and we would like to leave them with the Commission.

And that completes our direct testimony.

To correct my statement, Perry Bass and Moncrief are joint owners with Samedan.

CROSS TYAMINATION

DY MR. UTZ:

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- Mr. Cope, referring to your Exhibit Number 11, let's see if I understand this correctly. Was the Gulf State stabilized at the time you turned it on and started flowing it?
- A Yes, sir. Both the Gulf State and the Carter were stabilized at the time we opened the Gulf State up.
- 2 Now, how much time had the Gulf State been shut in?
- A Let me -- Gulf State had been shut in for fifty-five minutes.
- And that is time enough to stabilize the well in this pool?
- A Yes, sir, it is. This pool has excellent permeability, and the well stabilized within approximately ten minutes at that pressure.

MR. MATTHEWS: It might be of interest to you, just as --- we lost circulation in this reef zone in all three wells, and what we would say a very bad loss circulation condition in this reef zone in each well.

It was, as a matter of interest -- the bid actually dropped three feet in the Gulf State, dropped or drilled without weight for fourteen feet in the Amarada State, and three different occasions it drilled less than half a minute a foot for several feet through the Carter Number 1.

We had a real had loss of circulation zones

MR. UTZ: "ould you give the reporter your name?

Mr. MARRIETS: I'm Cliff Matthews with Samedan.

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through the reef.

5 (Mr. Utz continuing) This communication test was run, then, for a little over five hours? 6 A total of seventy hours. 7 8 Seventy hours? Okay. 9 The wells would stabalize before we could get the bottom hole pressure bottom to top to shut them down. 10 We checked both wells for thirty minutes to 11 SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 12 assure that the wells had stabilized. NEW MEXICO 87103 87108 13 You're not asking for a temporary order on this. You're asking for a permanent order? 14 15 That's correct. MR. KELLAHIN: That's correct. We feel that 16 the evidence is sufficient to support a permanent order. 17 Any additional information, we feel, would 18 209 SIMMS BLDG. P.O. BOX 1092 PHONE FIRST NATIONAL BANK BLDG. EAST ALI 19 probably support wider spacing. MP. HATCH: Do you want this temporarily, then, 20 til vou come back? 21 MR. UTT: Til you come back to show us? 22 other questions of the witness? Witness may be excused. 23 Statements? 24 Let's take a coffee break. 25

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209 SIMMS BLDG. P.O. BOX 1082 PHONE 243-6691 PALBUQUERQUE. NEW MEXICO 87103 FIRST NATIONAL BANK BLDG. EAST PALBUQUERQUE, NEW MEXICO 87108

STATE OF NEW MEXICO SS: COUNTY OF BERNALILLO)

I, LIMDA MALONE, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the Hew 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.

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