CASE Mo. 5069

Application,

Transcripts,

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO October 3, 1973

EXAMINER HEARING

IN THE MATTER OF:

)

Case No. 5069

Application of Sun Oil Company for a dual completion, Lea County, New Mexico.

BEFORE:

RICHARD L. STAMETS, Examiner.

TRANSCRIPT OF HEARING

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dearnley, meier & associates

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-DG.+P.O. BOX :092+PHONE 243-6641+ALBUQUERQUE, NEW MEXICO 87103 57 NATIONAL BANK BLDG. EAST+ALBUQUERQUE, NEW MEXICO 87108

MR. STAMETS: Call next case 5069. MR. DERRYBERRY: Case 5069, Application of Sun Oil Company for a dual completion, Lea County, New Mexico. MR. STAMETS: Call for appearances in Case 5069. MR. KELLAHIN: Tom Kellahin, Kellahin & Fox, Santa Fe, New Mexico, appearing on behalf of the applicant, Sun Oil Company; and I have one witness to be sworn. MR. STAMETS: Are there any other appearances in this case? The witness may stand and be sworn. $\mathcal{A}_{\mathcal{C}}(\mathcal{A})(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A}_{\mathcal{C}}(\mathcal{A})))))))))))))))))))))))))))))$ GEORGE J. HOWARD, was called as a witness, and after being duly sworn, testified as follows: DIRECT EXAMINATION BY MR. KELLAHIN: Q Will you please state your name, by whom you are employed, and in what capacity? George J. Howard, I'm employed by Sun Oil Company in Dallas;

and I'm a Production Geologist.

Q Mr. Howard, have you previously testified before this Commission or one of its hearing examiners and had your qualifications as an expert witness accepted and made a matter of record?

24 Q Are you familiar with the facts surrounding this particular application by Sun Oil Company?

MR. KELLAHIN: Are the witness! qualifications

dearnley, meier & associates

Yes, I am.

SIMMS BLDG. P.O. BOX 1092 PHONE 243-6691 PALBUQUERQUE, NEW MEXICO 67103 [2] 6 FIRST NATIONAL BANK BLDG. EAST FALBUDIER OFF NEW MEXICO 57.05

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	3	acceptable?
	4	MR. STAMETS: They are.
	5 0	Mr. Howard, will you please state briefly what Sun Oil Company
	6	is seeking by this application?
	7 A	Sun Oil Company is seeking permission to dually complete the
	8	No. 1 Annie Christmas Well as an oil well from the Granite Wash
	9	Section and a gas well from the Abo Section.
1	ΙΟ Ω	Will you please refer to what has been marked as Applicant's
1	1	Exhibit 1, identify it for us and explain what information it contains?
1	2 A	Exhibit 1 is a Sun Oil Neutron-Formation Density Porosity Log
1	3	used as a correlation log and has the tops of the recognized
1	.4	formations and producing zones marked on the log.
1	5 Q	Will you locate for us the perforations that are of interest for
1	ნ	this application?
1	7 A	Yes. Initial perforations were at 7278 to 96 in this section which
1	8	is the Granite Wash. This zone was potentialed for 194 barrels
19	9	of oil.
20	0 Ω	Will you please refer to what has been designated the Abo
2:	î	Formation; is it?
2	2 A	Yes.
2	3 Q	What perforations are in that?
24	4 A	The Abo was perforated in three porosity intervals some 6833 to
2	5	6927. This interval was potentialed for 5.27 million cubic feet of

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PAGE 5 gas per day. Is there anything further that regards that exhibit? Q A No. Will you please refer to what has been marked as Applicant's Q Exhibit 2 and identify it for us? Exhibit 2 is a Producing Zone Index map. It's been constructed Α on a scale of one inch equals 1000 feet or each square is equal to itself. The red arrow is the Sun Oil Christmas Well located in the southeast of the southwest of Section 1. This map shows all of the offset operators and all wells which have penetrated the Drinkard formation. A lot of the shallower wells have been excluded from the map in order to simplify it. The producing zones have been color-coded, and you will note at the bottom that some of the wells that by colorcoding appear to be dual are producing from two zones. The letter C beneath them says they are not dual but a commingled.

In relation to this exhibit, Mr. Howard, will you please refer to Exhibit 3? Would you identify this exhibit and explain what information it contains?

Exhibit 3 is a Structured Contour map contoured on top of the Granite Wash Section which we noted on the Type Log. This again is constructed on a one inch equals 1000 feet. The red arrow again denotes the Sun No. 1 Annie Christmas. You will please note on the Type Log to the right that the red-line area is the mapped horizon.

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S BLDC. • P.O. BOX 1002 • PHONE 243-6691 • ALIUQUERQUE. NEW MEXICO 87103 First national bank eldg. East • Albuquerque, new mexico 87108 It is contoured on one inch equals 100 feet. The red dots on the map indicate those wells which are producing from the Wantz-Granite Wash Field. There are four, two in Section 2 and two to the south part of Section 12. These are all oil wells. Would you please refer to Exhibit 4, Mr. Howard, and explain what information it contains?

Exhibit 4 is a Structure map which is contoured on top of the Abo Dolomite as you will denote on the Type Log to the right.

This again is on the scale of one inch equals 1000 feet. The red arrow denotes the Sun No. I Annie Christmas.

The dashed line denotes the 160-acre proposed gas proration unit. The blue dots indicate those wells which are productive from portions of the Abo Formation which is primarily composed of Dolomite with various thin porosity stringers throughout the section.

- Q Your Sun Oil Company well in this formation is a gas well; isn't it?
- 17 | A Yes, it is.
- 18 Q The offsetting wells on your plat here, are these Abo oil wells?
- 19 A Yes, they are.
 - Q What distinction, if any, do you draw between your well and the other Abo wells?
 - A Sun Oil Company perforated their well in three selective porosity zones. The offset wells have perforated all indicated hydrocarbon bearing zones within the Abo and many within the Drinkard Formation.

The pressures which were recorded in the Sun No, 1

NEW MEXICO 87103	MEX:CO 87108
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	PAUE
	Annie Christmas had mid-pressure on the Abo which is 2716 pounds
	and indicated that the reservoir in this well has not been depleted
	by offset production and is probably separate.
Q	Is there any evidence of communication between the Sun Oil well
	and the other Abo wells?
A	No, there isn't.
Q	How does the production in this well compare with production of
	other wells in the area?
Α	The other wells in the area produce high ratio oil on the average
	of thirty - to forty-thousand to one GOR at this time; and the
	oil is 42 gravity. Sun Oil Company's well, as I said, potentialed
	for 5.726 million and 110 barrels of condensate per billion. Gravity
	of the condensate is 77.9 degrees at 60 degrees.
Q	Mr. Howard, do you have any opinion as to whether this Sun Oil
	Company well as to the Abo Formation now is located in a gas pool
	or an oil pool?
Α	Yes. In my opinion it is located in a gas pool.
Q	What is your opinion based upon, Mr. Howard?
Α	My opinion is based upon the near-virgin pressures that were
	found in the pressure analysis and the high degree of the gravity
ě	of the condensate and in the large amount of gas that is being
	produced and high tubing pressures, 2,000 pound shut-in tubing
	pressure in this well.
Q	Do you draw any correlation between the Sun Oil Company well

and the Sohio well in the area? Is there any structural difference to

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1		these wells?
2	A	The Sun well is by structure high to the majority of the wells to
3		the southeast that are denoted as Abo producing wells. However,
4		it is four feet structurally low to the Sohio #13 Hinton which is
5		located in Location L, Section 12. This is classified as a gas
6		well, excuse me, as an oil well.
7	Ω	What conclusion do you draw from that?
8	A	That we have a separate reservoir.
9	Q	Will you please refer to what has been marked as Applicant's
10		Exhibit 5, explain what information it contains?
11	A	Exhibit 5 is the analyses of the pressure data which was run on
12		the No. 1 Annie Christmas well indicating the maximum
13		bottom-hole pressure of 2716 pounds. That's the center of the
14		perforations.
15	Q	What, Mr. Howard, is the pressure differential between the two
16		zones?
17	Α	Between the Abo and the Granite Wash?
18	Q	Yes, sir,
19	A	Approximately 300 pounds.
20	Q	Will you please refer to Exhibit 6 and identify it?
21	Α	Exhibit 6 is just a Diagrammatic Sketch of the completion method
22		for the dual completion.
23	Q	It shows completion through two sets of tubing; does it?
24	A	Yes.
25	Q	To produce the different formations. Is this a conventional type of

	4	Ω	You don't know? All right. In your opinion, Mr. Howard, will					
	5		this manner of completion adequately protect the separation					
	6		between the two formations?					
	7	A	Yes, it will.					
	8	Ω	In your opinion, Mr. Howard, in conclusion will the approval					
	9		of this application prevent waste and protect the correlative rights					
	10		of others?					
	11	A	Yes, it will,					
2	12	Q	Were Exhibits 1 through 6 either prepared by you or under your					
87108	13		direction and supervision?					
BANK BLOG. EAST AL BUQUERQUE, NEW MEXICO 87108	14	Α	Yes, they were.					
. ¥ . ₩	15		MR. KELLAHIN: Mr. Examiner, we move for					
A OCE	16		introduction of Exhibits 1 through 6.					
2000	17		MR. STAMETS: Without objection, these Exhibits					
AST • AL	18		will be admitted into evidence.					
COG. E	19		MR. KELLAHIN: That concludes our Direct Examination.					
B X X A	20		***********					
د	21		CROSS-EXAMINATION					
1216 FIRST NATIONA	22		BY MR. STAMETS:					
16 FIRS	23	Q	Mr. Howard, there is no doubt in your mind that this is the Abo					
12	24		Formation?					
	25	Α	No, sir.					

dual completion that has been previously approved by the Oil

Conservation Commission?

I don't get into that. I'm sorry.

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209 SIMMS BLDG P.O.	1216 FIRST NATION

1	Ω	Mr. Howard, you have indicated that this gas zone is separated
2		from the Wantz-Abo oil zone. You indicated that one of the
3		factors was the 2700 plus pounds of pressure you found in this
4		well. What's the current pressure in the Wantz-Abo reservoir?
5	A	I'm not aware of a current pressure in the Wantz-Abo. We have
6		no pressure data on any of the offset Abo wells.
7	Ω	Could they be 2700 pounds too?
8	A	In my opinion, no.
9	Q	But you don't have any evidence to indicate that they are not?
10	A	No, sir.
11	Ω	What's the current gas-liquid ratio of the Annie Christmas well?
12	A	Approximately 10,000 to 1 from the Abo.
13	Q	Which is less than the gas-oil ratio from the offsetting Wantz-Abo
14		oil wells; is that correct?
15	Α	Yes, sir.
16	Q	Even though there is a difference in the description of the liquids?
17	A	Yes, sir.
18	Q	This Wantz-Abo Pool is a rather large pool. What we see on
19		your exhibits is rather a small section of it, l'd guess maybe
20		5 percent of the total field. Do you know of any other situations
21		in this large pool where gas wells such as this have been found?
22	A	No, sir.
23	Q	Do you know if they have not been found in this larger area?
24	Α	No, sir. I have not examined the entire Abo-Wantz area. It's
25		of such magnitude.

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The situation could exist in the Pool? Were you aware that this well is located within the horizontal limits of the Wantz-Abo Oil Pool? Yes, sir, Now, you stated that there was a 300-pound pressure differential between the Abo and the Granite Wash. Which has the higher pressure? The Abo. Α Q The Abo has the higher pressure of the upper zone? I notice from Exhibit 6 that the tubing and the packer on the upper zone is set at 4829; is that correct? Α Yes, sir. Okay. No problem there. Do you know if the wells in Section 11 Q penetrated the Abo Formation and found it to be dry? No, sir. I have not found any wells in Section 11 that penetrated Α the Abo Formation. There is a well in the southeast of the northwest which penetrated the top of the formation, but that's all. Mr. Howard, at this stage with the analyses of what we have here, you have described very adequately the situation that you have that you don't know if this is a unique situation. You don't know if the pressures are the same or different from other wells in the Wantz-Abo Pool. You have a gas-liquid ratio that's actually less than the gas-oil ratio in the Wantz-Abo Oil Pool. Does that pretty well summarize it?

Well, as I previously stated, the thing the Abo section is composed

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Wantz-Abo wells, the Exxon wells in Section 2, do not correlate in the same well we have in the No. 1 Annie Christmas well. So I don't understand what the pressures or any wells would have to do with separate reservoirs. Would it be possible that in the next, let's say, the southwest quarter of the southwest quarter of Section 1, 22, 37, that a well drilled in that area could penetrate both this gas and an oil zone in the Abo Reservoir? It's possible.

And if separate pools were established, that would necessitate the dual completion in order to produce the Abo?

of is predominately Dolomite with various porosity stringers in

it which are separate reservoir among themselves. The nearby

Yes, sir.

And this would be an additional expense to an operator in that case?

Yes, sir.

MR. STAMETS: Are there any other questions of this witness? Mr. Kellahin, do you have anything further? MR. KELLAHIN: If the Examiner please.

REDIRECT EXAMINATION

BY MR. KELLAHIN:

Mr. Howard, how do you account for the difference in the fluids in these wells? Do you have a cross-section that might be of some

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benefit to us in explaining this? Yes, I do. Well, why don't you get that for me. MR. KELLAHIN: If the Examiner please, we have an additional exhibit. Exhibit 7 is a cross-section of different Abo wells in this area and may be of some benefit in reaching a conclusion about the status of the Sun Oil Well. Mr. Howard, explain what we have here and what conclusions you have reached by your Exhibit. This is a cross-section beginning to the left with the two Exxon wells in Section 2. MR. STAMETS: I believe the Examiner will just walk down and look at that one. This is a structure cross-section from the top of the Paddock which is one of the oil producing zones in the area. You have to speak up. And it starts over to the left with the two Exxon wells in Section 2. It shows our completion, their completion in porosity intervals within the Abo Formation and their completion within the Granite Wash interval. The cross-section then goes to the No. 4 Lynch Well

The cross-section then goes to the No. 4 Lynch Well which is the Tubb-Blinebry Gas Well located at this location. That well penetrated the Abo, had no Granite Wash, and went into the pre-Cambry and Granite. There were no tests run on the Abo.

The cross-section then proceeds over to the Sun No. 1

45 BLDG. # P.O. BOX 1092 #PHONE 243-6891 # ALBUQUERQUE. NEW MEXICO 87103 First national bank bldg. East # Albuquerjue, new mexico 87108 Annie Christmas which illustrates our perforations in the Abo

Formation. They do not correlate to the Exxon perforated intervals

and our oil zone in the Granite Wash well. The cross-section then

continues to the Hendrix #1-A as a total well which is perforated

in the Drinkard limestone and in the Abo dolomite, in all hydrocarbon

bearing zones. This is one completion.

It then proceeds on to the Sohio #11 Hinton which is perforated in the Abo Formation in all hydrocarbon bearing zones and down in the Granite Wash. This is a dual well. It proceeds to the Sohio #12 Hinton which is again perforated in the Drinkard limestone, Abo dolomite, and is one producing interval.

It proceeds to the south to the #3-B. This is Hendrix #3-B Cossatot well which is perforated in the Drinkard, Abo, and Granite Wash, Granite Wash being a separate producing zone.

I felt our proximity to the Hendrix development and the Sohio development related our well differently than to the only two Abo producers in the Wantz Field which are in the vicinity of our well.

- Mr. Howard, can you tell from this exhibit where the fluids are coming from in the Sohio and the Hendrix wells?
- A No, sir. I cannot.
- Q Mr. Howard, could the Drinkard production account for the differences in gravity in production?
- A It could. It has been an oil producer in the area for years and is indicated on my Production Index map as so, and could be distributing

		oil. Various zones could be distributing gas or oil. We have no
	1	way of identifying the fluids coming out of the different zones.
	2	Then on this basis, Mr. Howard, is it still your opinion and
	3 Q	Then on this dasts, says conclusion that you have a separate gas reservoir?
	4	
1944	5 A	Yes, it is. MR. KELLAHIN: Nothing further, Mr. Examiner.
S	6	MR. KELLAHIN: Nothing to the
iate	7	
associates	8	RECROSS-EXAMINATION
as	9	BY MR. STAMETS:
<u>8</u>	10 Q	Mr. Howard, this cross-section covers two or three sections; is
dearnley, meier &	11	that correct?
nley,	12 A	Yes, sir.
deari	13 Q	And the Wantz-Abo Field is seven or eight miles long and four
X O	14	or five miles wide with a fairly large number of wells in it. Would
JE. NEW MEXIC	15	that be correct?
0 ER 20 C	16 A	Yes, sir.
A LBUG	17 Q	So your cross-section is not intended to be illustrative of every
PHONE 2/3-66910 ALBI BLDG. EASTOALBUQU	18	well in the field or the various possibilities that could exist in
NE 243	19	another area of the field?
.092 & PHONE ANK BLDG. E	20 A	True. It would be stretching the point to try to correlate our
30 X 00	21	porosity zones to several miles away because they are just not
P.O. E	22	continuous.
209 SIMMS BLDG. • P.O. BOX :0924	23	MR. STAMETS: Are there any other questions of
SIMMS	23	Asic witness?
508		MR. KELLAHIN: Nothing further. I offer Exhibit 7 as
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an additional Exhibit.

MR. STAMETS: Without objection, it will be admitted into evidence. I believe we have some communications on this particular case. Mr. Derryberry, if you would read that into the record.

MR. DERRYBERRY: We have a letter from John H.

Hendrix to the Oil Conservation Commission dated September 27,

1973. Do you want me to read the whole thing?

MR. STAMETS: I don't think it would be necessary to read the whole thing. Just read the sense of the letter in and it will be in the case file.

MR. DERRYBERRY: Mr. Hendrix opposes the dual completion into the Abo as an undesignated gas pool stating that it should be classified as a gas production from the oil well or oil field, excuse me. He feels that the completion as a separate undesignated gas pool would harm the correlative rights of the offsetting operators.

MR. STAMETS: Anything further in this case?

MR. KELLAHIN: Nothing further.

MR. STAMETS: We will take the case under advisement.

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CERTIFICATE

1, JANET RUSSELL, a 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 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.

I do hereby couldfy that the foregoing is a complete record at the proceedings in the Exercise the ing of Case to 5069 heard by no on Cologer 3, 1973.

209 SIMMS BLDG. P.O. BOX 1092 PHONE 249-6691 ALBUQUERQUE, NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. EAST . ALBUQUERQUE, NEW MEXICO 87108	

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Other

OIL CONSERVATION COMMISSION

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

November 16, 1973

GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

Mr. Mom 17-11-1	Res	Case No	5069
Mr. Tom Kellahin Kellahin & Fox		Order No.	R-4656
Attorneys at Law Post Office Box 1769		Applicant:	A A CAN THE STREET, ST
Santa Fe, New Mexico		SUN OIL CO	MPANY
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Dear Sir:	•		
Enclosed harawith and			
Enclosed herewith are to Commission order recent	wo copies of the	f the above-re	eferenced
			case.
	Very tru	ly yours,	
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Aztec OCC			

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. 5069 Order No. R-4656

APPLICATION OF SUN OIL COMPANY FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 3, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 16th day of November, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Sun Oil Company, seeks authority to complete its Annie Christmas Well No. 1, located in Unit N of Section 1, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Abo Gas Pool and oil from the Wantz-Granite Wash Pool through parallel strings of 2 3/8-inch tubing set in packers at approximately 4829 and 7254 feet, respectively,
- (3) Applicant contends that the gas production from the upper zone of the dual completion originates from an undesignated Abo Gas Pool.
- (4) That the evidence indicates that the upper zone of the subject well should more properly be considered to be within the vertical and horizontal limits of the Drinkard (Oil) Pool; as presently defined.
- (5) That applicant has failed to prove that the gas production is from a source of supply separate from the Wantz-Abo Pool or the Drinkard Pool.
- (6) That the completion of said well as a Drinkard and Wantz-Granite Wash dual completion including the mechanics of such proposed dual completion is feasible and in accord with good conservation practices.

-2-CASE NO. 5069 Order No. R-4656

(7) That approval of said dual completion will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Sun Oil Company, is hereby authorized to complete its Annie Christmas Well No. 1, located in Unit N of Section 1, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce gas and oil from the Drinkard Pool and oil from the Wantz-Granite Wash Pool through parallel strings of 2 3/8-inch tubing set in packers at approximately 4829 feet and 7254 feet, respectively.

PROVIDED HOWEVER, that the applicant shall complete, operate and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Wantz-Granite Wash Pool.

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

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member

. L. FORTER. JP Member & Secretary

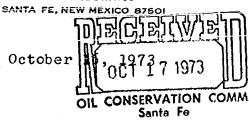
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Wa: +2 A60

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ownship	Range	Township		
Township	Range	Form 104—(Four on Township)	38	
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		13-1-1	1	+
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19			26	25
-	+++++	29-	28 27	
	1-1-1-1-27	26 25 30		
30-1-2	28		35	-36
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KELLAHIN AND FOX ATTORNEYS AT LAW 500 DON GASPAR AVENUE POST OFFICE BOX 1769

JASON W. KELLAHIN ROBERT E. FOX W. THOMAS KELLAHIN



TELEPHONE 982-4315 AREA CODE 505

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

Re: OCC Case #5069

Dear Mr. Stamets:

In accordance with your request at the Examiner's hearing on case 5069 for additional data on the Wantz Abo field in Lea County, New Mexico, the enclosed information is provided.

Very truly yours,

W. Thomas Kellahin

WTK:ks

Enclosure

A Colonial C

CASE # 5069 EXHIBIT #

WANTZ ABO FIELD LEA COUNTY, NEW MEXICO

Discovery Data: June 1950; Moran #2 Owen, Loc. 'D' Section 14, T21S-R37E

Type of Trap: Anticline, with porosity and permeability controlling

accumulation.

Top Allowable: 187 BOPD

2000 GOR Limit:

Top Casinghead Gas Limit: 374 MCF

Initial Field Pressure: 2924 PSI @ -3750'

Gravity of Oil: 410 API

Avg. Field Pressure: Last reported 1969, avg. 10 wells, 777 psi

Pressures in the Two Exxon Wells in Section 2, T22S-R37E (one mile west of Sun #1 Annie Christmas)

N.M. State 'S' #24 N.M. State 'S' #25 1716# 912#

Total Wells in Field = 85

Pumping = 41Flowing = 22 Gas Lift = 1 TA & SI = 21

Production data from the N.M. Oll Conservation Commission's Monthly Statistical Report indicates that there are no wells in the Wantz Abo Field which produce gas and condensate.

CASE # 5069

EXHIBIT #

WANTZ ABO FIELD LEA COUNTY, NEW MEXICO

Discovery Data: June 1950; Moran #2 Owen, Loc. 'D' Section 14, T21S-R37E

Type of Trap: Anticline, with porosity and permeability controlling

accumulation.

Top Allowable: 187 BOPD

GOR Limit: 2000

Top Casinghead Gas Limit: 374 MCF

Initial Field Pressure: 2924 PSI @ -3750'

Gravity of Oil: 41° API

Avg. Field Pressure: Last reported 1969, avg. 10 wells, 777 psi

Pressures in the Two Exxon Wells in Section 2, T22S-R37E (one mile west of Sun #1 Annie Christmas)

Last Reported 1969

N.M. State 'S' #24 1716# N.M. State 'S' #25 912#

Total Wells in Field = 85

Pumping = 41
Flowing = 22
Gas Lift = 1
TA & SI = 21

Production data from the N.M. Oil Conservation Commission's Monthly Statistical Report Indicates that there are no wells in the Wantz Abo Field which produce gas and condensate.

CASE # 5069 EXHIBIT #

WANTZ ABO FIELD LEA COUNTY, NEW MEXICO

Discovery Data: June 1950; Moran #2 Owen, Loc. 'D' Section 14, T21S-R37E

Type of Trap: Anticline, with porosity and permeability controlling

accumulation.

Top Allowable: 187 BOPD

GOR Limit: 2

2000

Top Casinghead Gas Limit: 374 MCF

Initial Field Pressure: 2924 PSI @ -3750'

Gravity of Oil: 410 API

Avg. Field Pressure: Last reported 1969, avg. 10 wells, 777 psi

Pressures in the Two Exxon Wells in Section 2, T22S-R37E (one mile west of Sun #1 Annie Christmas)

Last Reported 1969 N.M. State 'S' #24 1716# N.M. State 'S' #25 912#

Total Wells in Field = 85

Pumping = 41 Flowing = 22 Gas Lift = 1 TA & SI = 21

Production data from the N.M. 011 Conservation Commission's Monthly Statistical Report indicates that there are no wells in the Wantz Abo Field which produce gas and condensate.

DOCKET: E (AMINER HEARING - WEDNESDAY - OCTOBER 3, 1973

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

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

- ALLOWABLE: (1) Consideration of the allowable production of gas for November, 1973, from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
 - (2) Consideration of the allowable production of gas from nine provated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for November, 1973.

CASE 5044: (Continued from the August 9, 1973, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Sycor Newton, Peru Milling Company, R. E. Deming and Aetna Life and Casualty Company and all other interested parties to appear and show cause why the State L 6350 Well No. 1 located in Unit M of Section 10, Township 23 South, Range 11 West, Luna County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

- CASE 5069:
- Application of Sun Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Annie Christmas Well No. I located in Unit N of Section 1, Township 22 South, Range 37 East, Lea County, New Mexico, to produce gas from an undesignated Abo gas pool and oil from the Wantz-Granite Wash Pool through parallel strings of tubing.
- CASE 5070: Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Bubbling Spring Unit Area comprising 3078 acres, more or less, of Federal and Fee lands in Township 20 South, Range 26 East, Eddy County, New Mexico.
- CASE 5071: Application of Texas West Oil & Gas Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State "2" Well No. 2 located in Unit K of Section 2, Township 24 South, Range 34 East, Antelope Ridge Field Area, Lea County, New Mexico, to produce gas from the Atoka and Morrow formations through parallel strings of tubing.
- CASE 5072: Application of Northern Minerals, Inc. for a waterflood project, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks

A & A ENGINEERING SERVICE

P.O. BOX 3323

Midland, Texas 79701

BOTTOM HOLE PRESSURE REPORT

Operator Sun 011 Company	Leas	e <u>Annie Chr</u>	istmas We	_ Well No1 _ Datum	
Field	Rese	rvoir	Dat		
Test Date August 23, 1973	Well	Status Shut	In Hours St	nut In	
Tubing 2 3/8" Depth	End	Packer_	<u>6730'</u> S.	N. 67291	
Casing Depth	Perf68	33-6927'	Total De	oth	
	Depth	Press. Lbs/Sq. In.	Δ. Press.	Gradient Lbs/Ft,	
Tubing Press. Casing Press. Top of Fluid. None Top of Water. None Temp. @ F. Elev. KB Last Test Date Press. Last Test Change Per Day Inst. No. 10786-N Cal. 73-2 Tested By. Leon Arne tt Calcu. By. L. Arnett Prod. Index Bbls/day/ib	Surface 2000 4000 6300 6500 6700 + 180 6880	2006 2184 2405 2649 2672 2695 +21 2716	178 221 244 23 23 Ctr. of Perf.	.089 .111 .106 .115 .115	
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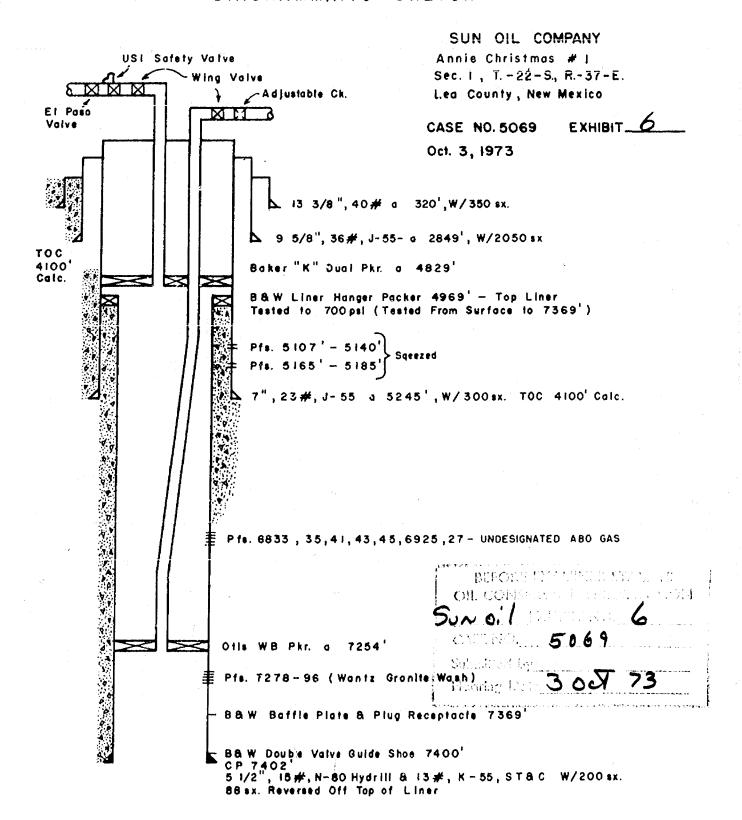
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Case # 5069

Exhibit #5

DIAGRAMMATIC SKETCH



KELLAHIN AND FOX
ATTORNEYS AT LAW
500 DON GASPAR AVENUE
POST OFFICE BOX 1769
SANTA FE, NEW MEXICO 87801

JASON W. KELLAHIN ROBERT E. FOX W. THOMAS KELLAHIN

TELEPHONE 982-4315 AREA CODE 505

January 14, 1974

X

Mr. A. L. Porter New Mexico Oil Conservation Commission P. O. Box 2008 Santa Fe, New Mexico 87501

> Re: Commission Case No. 5069 Order No. R-4656

Dear Mr. Porter:

In behalf of Sun Oil Company, I would like to withdraw their application for a hearing de novo in the above referenced Commission Case.

Very truly yours,

W. Thomas Kellahin

WTK:ks

cc: Sun Oil Company

KELLAHIN AND FOX ATTORNEYS AT LAW 500 DON GASPAR AVENUE POST OFFICE BOX 1769

JASON W. KELLAHIN ROBERT E. FOX W.THOMAS KELLAHIN SANTA FE, NEW MEXICO 87501

TELEPHONE 982-4315 AREA CODE 505

December 10, 1973

Mr. A. L. Porter New Mexico Oil Conservation Commission P. O. Box 2008 Santa Fe, New Mexico 87501

Commission Case No. 5069 Order No. R-4656

Dear Mr. Porter:

In behalf of Sun Oil Company, please find an original and three copies of an application for a Hearing De Novo in the above referenced Commission Case.

W. Thomas Kellahin

WTK:ks

Enclosure

Sun Oil Company

BEFORE THE

OIL CONSERVATION COMMISSION 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. 5069 Order No. R-4656

APPLICATION OF SUN GIL COMPANY FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO

APPLICATION FOR HEARING DE NOVO

COMES NOW, SUN OIL COMPANY, an interested party adversely affected by the order entered in the above captioned case, and pursuant to the provisions of Rule 1220 of the Rules and Regulations of the New Mexico Oil Conservation Commission applies to the Oil Conservation Commission of New Mexico for a Hearing De Novo of the above captioned Case No. 5069, and Order No. R-4656 issued pursuant thereto.

Respectfully submitted,

SUN OIL COMPANY

RELLAHIN & FOX P. O. Box 1769

Santa Fe, New Moxico 87501



JOHN H. HENDRIX

OIL PRODUCERS
403 WALL TOWERS WEST
MIDLAND, TEXAS 79701

September 27, 1973

OUT - 1 1973
OIL CONSERVATION COMM.
Santa Fo

New Mexico 0il Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

> Ref: Sun Oil Company's Application for Multiple Completion SE-1/4 SW-1/4 Section 1, T-22-S, R-37-E Lea County, New Mexico

Gentlemen:

On September 14, 1973 I received notice from Sun Oil Company concerning their application for multiple completion of their Annie Christmas No. 1 as a dual in the Wantz Granite Wash pool and in an undesignated gas field. I am strongly opposed to the completion interval 6833'-6927' being placed "Classified as an Undesignated Gas pool." This interval should be placed in either the Drinkard pool or the Wantz Abo pool and simply classified as a gas well in an oil field.

It is my understanding from Sun that they intend to produce this well at the rate of 2 1/2 to 3 million cubic feet per day as a non-prorated gas field. This will seriously affect the correlative right of offsetting operators in the Drinkard and/or Granite Wash pools.

Should the New Mexico Oil Conservation Commission proceed to consider granting administrative approval of this matter, I request that it be set for examiner hearing.

John H. Hendrix

JHH;mc

NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Form C-107 5-1-61

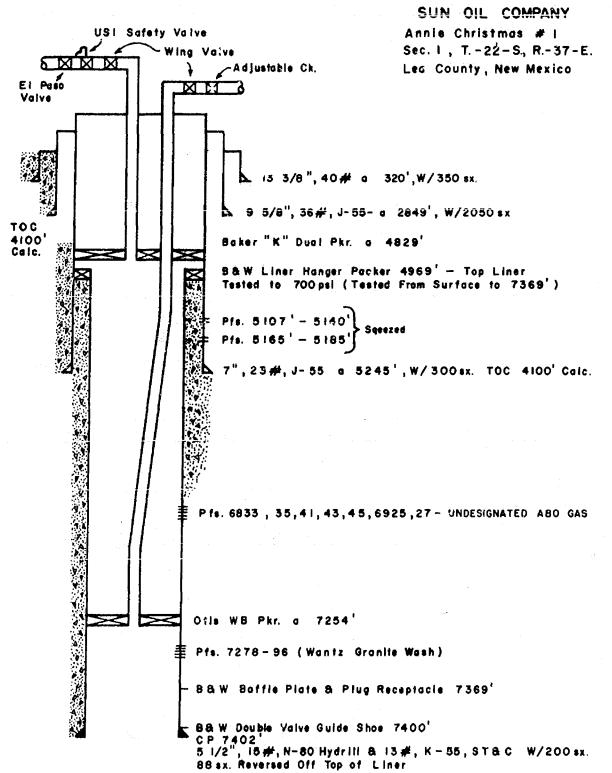
Operator		County		Date (1907) CO.
Sun Oil Company		Lea		September 5, 1973
Address		Lease		Well No.
12850 Hillcrest Road, Da	111as, Texas 75	230 Ann	ie Christmas	1
Location Unit Se	ction	Township		Range
of Well N	1	22 So	uth	37 East
I. Has the New Mexico Oil Conservation	on Commission heretof	ore authorized	the multiple completion of	a well in these same pools or in the sam
zones within one mile of the subject	well? YES	NO_X		
2. If answer is yes, identify one such i	nstance: Order No.		•	d Well No.:
				
3. The following facts are submitted:	Upper		Intermediate	Lower
	Zone		Zone	Zоле — — — — — — — — — — — — — — — — — — —
a. Name of Pool and Formation	Undesignated	Abo		Wantz Granite Wash
b. Top and Bottom of	68331			7278'
Pay Section	6927'			7296'
(Perforations)]	1		
c. Type of production (Oil or Gas)	Gas			0i1
d. Method of Production				
(Flowing or Artificial Lift)	Flowing			Flowing
1. The following are attached. (Please				
Van I Na				
Yes No	(1, 4, 1, 1, 1, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			
a. Diagrammatic Sketch	of the Multiple Comp	letion, snowing of quantities i	all casing strings, includ	ing diameters and setting depths, central forated intervals, tabing strings, including
diameters and setting	depth, location and t	ype of packers	and side door chokes, and s	uch other information as may be pertinent
				set leases, and the names and addresses
of operators of all lea	ases offsetting applica	nt's lease.		•
X c. Waivers consenting t	o such multiple compl	letion from eac	h offset operator, or in lies	u thereof, evidence that said offset opera-
tors have been furnis	shed copies of the app	plication.*		
X d. Electrical log of the	well or other accepta	ble log with to	ops and bottoms of produci	ing zones and intervals of perforation in
dicated thereon. (If s	uch log is not availabl	le at the time a	pplication is filed it shall	be submitted as provided by Rule 112-A.
5. List all offset operators to the lease	on which this well is	located togeth	er with their correct mailin	ig address.
See attached list.				
			·	
				·
	. 			••
			this application? YES_	X NO
date of such notification Septen	ber 11, 1973			
CERTIFICATE: I, the undersigned,	state that I am the Re	g <u>ional M</u> gr	of Consy, of the	e Sun Oil Company
(c)	KAKAKAKIV), and that I ar	n authorized by	said company to make this	s report; and that this report was prepared
inder my supervision and direction and t	hat the facts stated th	erein are true,	correct and complete to the	e best of my knowledge.
			~ 100	DOCKET MAILED
				Allegan
			1/Y.K.	YULL (1.21/13
		н.	R. Huey	Signatury Date
				1/

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

OTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DIAGRAMMATIC SKETCH

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Chan 5069

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WELL LOCATION

PROPOSED LYNCH - CHRISTMAS GAS PRORATION UNIT - 160 AC.

SUN OIL COMPANY DALLAS PRODUCTION REGION UNDESIGNATED ABO GAS

LEA COUNTY

Y NEW MEXICO

Can 5069

OFFSET OPERATORS
Annie Christmas No. 1
Undesignated Abo Gas Field
Lea County, New Mexico

Exxon Corporation Box 1600 Midland, Texas 79701

Marathon Corporation Box 2409 Hobbs, New Mexico 88240

Penrose Production Company 1605 Commerce Building Fort Worth, Texas 76102

Gulf 011 Company - U.S. P. O. Box 1150 Midland, Texas 79701

Sohio Petroleum Company P. O. Box 3167 Midland, Texas 79701

John H. Hendrix 316 Central Building Midland, Texas 79701

TWD/dr

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.

Order No. R- 4656

APPLICATION OF SUN OIL COMPANY FOR A DUAL COMPLETION, LEA

COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 3 at Santa Fe, New Mexico, before Examiner Richard L. Stamets

, 1973, the Commission, NOW, on this day of a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- That the applicant, Sun Oil Company, seeks authority to complete its Annie Christmas Well No. 1, located in Unit N of Section 1, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Abo Gas Pool and oil from the Wantz-Granite Wash Pool through parallel strings of 2 3/8-inch tubing set in packers at approximately 4829 and 7254 feet, respectively.

-2-Case No. 5069 Order No. R-

(3) Applicant contends that the Abo gas production originates
from an undesignated Abo Gas Pool.

(4) That the evidence indicates that the subject well is more properly be considered to be a completed within the vertical and horizontal limits of the Drinkard.

Wantz-Abo (Oil) Pool, as presently defined.

- (5) That applicant has failed to prove that the Abo gas production is from a source of supply separate from the Wantz-Abo Pool on the Drinkard Pool,
- (6) That the completion of said well as a Wantz-Abo and Wantz-Granite Wash dual completion including the mechanics of such proposed dual completion is feasible and in accord with good conservation practices.
- (7) That approval of said dual completion will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Sun Oil Company, is hereby authorized to complete its Annie Christmas Well No. 1, located in Unit N of Section 1, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce gas Drinkard and oil from the Wantz-Abo Pool and oil from the Wantz-Granite Wash Pool through parallel strings of 2 3/8-inch tubing set in packers at approximately 4829 feet and 7254 feet, respectively.

PROVIDED HOWEVER, that the applicant shall complete, operate and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Wantz-Granite Wash Pool.

(2) That jurisdiction of this cause is hereby 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.