

CASE No. 5025 Application, Transcripts, Small EKhibts



		PAGE 3
1		MR. NUTTER: Call Case 5025.
2		MR. CARR: Case 5025, application of The Superior
3		Oil Company for down-hole commingling, Lea County, New
4		Mexico.
5	ж. ,	MR. MORRIS: Mr. Examiner, I'm Dick Morris of
6		Montgomery, Federici, Andrews, Hannahs, & Morris, appearing
7		on behalf of the Applicant. We have one witness, Mr.
8	(Terry Clay, and ask that he be sworn, please.
9	1. 	TERRY CLAY,
10	was	called as a witness, and after being duly sworn according
11	to 1	law, testified as follows:
12	•	DIRECT EXAMINATION
13	BY M	IR. MORRIS:
	Q	Mr. Clay, please state your name, where you reside, and
14		by whom you are employed, and in what capacity.
15	A	My name is Terry Clay, and I am employed by Superior Oil
16		Company in Midland as a Petroleum Engineer.
17	Q	Have you previously testified before this Commission or
18		its Examiners and had your qualifications established
19	· ·	and accepted as a matter of record?
20	A	Yes, I have.
21		What does Superior 011 Company seek by its application in
22		Case 5025?
23		
24	A	Case 5025, Superior seeks to commingle the Upper Seven
25		Rivers gas, sometimes referred to as Queen, with the

				PAGE 4
				the seven
			stimes referred	to as Yates beton
	÷ ·		ower Seven Rivers, sometimes referred	
		1		1
			ivers, oil zone in the Eumont Pool. Nould you please refer to Exhibit Numb	per 1, being the
		3 Q V	lould you please refer to hand be location plat, and point out the loca	tion of the subject
		4	location plat, and point out the	
		5	well? The subject well is Superior State ":	12" Number 1 Well
		6 A	The subject well is Superior States which is located in Unit L of Sectio	n 12, Township 21
	SS			
	associates	7	which is located in only - South, Range 35 East, in the Eumont C	il and Gas Foor
	o o o	8	South, Range St.	
	SS		located in Lea County, New Mexico.	e cuperior's
		9	located in Lea County, New Hende And does this plat also show the lo	cation of Super-
	ଷ	10 9	And does this plat also the	
	dearnley, meier	10 2		· · · · · · · · · · · · · · · · · · ·
i.	me	11	other leases in the	comprising the South
	- -		other leases in this areas Yes. The cffset lease to the West	
	je je	12 A		Dy Dupter
	L	57103	Yes. The offset lease to the month half of Section 11 is under lease the East half of the Southwest qua	e which Superior
1 5 5	<u>iei</u>	13 13 14 14	the Southwest qua	rter of whisehold
- 		x 0 14	the East half of the	ng the State "12" Number
 4. ↓. 		2 S X 14	the East half of the Southwest que has a royalty interest in, offsetti	ing
į.			has a loyator	
1				
		⁴ ¹ ² ² ¹ ¹	I not to Ex	hibit Number 2 cm
		ระมา 16 กระมา กระมา กระมา 17	1 Well. Q All right. Would you refer to Ex state the principal elements pert	to the history
			*	alning to end
	* .		state the principal	
		0 4 0 8 4 8 8 4 8 8 4 9 8 4 10 8 10 8 10 8 10 8 100 10	of this well?	andor giving
		z . 19	ot this are a biefory in C	hronological order 3-
		и	of this well? A Exhibit 2 is a well history in C the date that the State "12" Nur	, wall was completed.
	- 1	8 ¥ 20	12" NU	
		× Ø	the date that the bas	or the lower zone in
				8 01 0
		d a 200 200 200 200 200 200 200 20	It was completed in the old July 13, 1954; and it was compl	eted later as a dual
	· · ·	5 Z 0 F	July 13, 1954; and it was comp-	120h 1954.
		า ^อ รูโ 23	1 and 2018 5691	Leumo-
		23 SWM 121	July 13, 1954; and it was completion in the gas zone Sept	data sheet that the
	•	24	completion in the gas zone It also would be noted from the	a uatu
	2000 - 1990 1990 - 1990 1990 - 1990	25	It also would	
		- 20		

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perforated interval as well as the tubular and casing goods, and the treatment of these particular two zones 1 2 are shown on the sheat. Would you refer next to Exhibits 3 and 4, being graphs 3 showing the production history from both the Seven Rivers Q 4 Oil and Seven Rivers Gas Pools? 5 The graph of the Seven Rivers Oil Pool, as would be noted, 6 shows the shut-in well-head pressure and also a calculated A 7 bottom-hole pressure as of 1972. In the lower part of the 8 graph it will be noted that the oil production, the 9 gas-oil ratio, are shown on this graph; and it will also 10 be noted the graph from 1965 to 1972 shows that the 11 produced oil in the Yates Seven Rivers zone had continued 12 • PHONE 243-6691 • ALBUQUERQUE. NEW MEXICO 87103 BHONE 243-6691 • ALBUQUERQUE. NEW MEXICO 87108 BLOG. EAST • ALBUQUERQUE. NEW MEXICO 87108 13 The current producing rate in the oil zone is to decline. 14 approximately 6 barrels of oil a day to 7 barrels of 15 16 All right. Go on to the next exhibit if you are finished water per day. 17 Q 18 The next exhibit shows the Queen gas zone in the Eumont with this one. 19 It shows the shut-in well-head pressures and A 20 4 1092 also a calculated bottom-hole pressure as of 1972. It P001. 80 X SIMMS BLDG. P.O. BO 21 also shows the produced gas from 1965 to 1972 and that is 22 denoted in the column in the upper right-hand corner of the graph. It will be noted from the graph that the gas 23 24 25

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			PAGE 6
	1		production in the Queen Gas Pool has shown an increase
 	2		up until 1972. However, the first three producing months
	3		of 1973, the gas zone has loaded up with fluid and the
	4 		gas production has dropped down to below an economical
	5		limit.
1 1 1	б С	Q	Please refer to Exhibit 5, the diagrammatic sketch,
accoriatec	5 7		and describe how the well has been equipped as a dual
1000	8		completion, and also describe how the well would be
			equipped and operated if this application is approved.
doarnlav maiar o	10	A	It will be noted from the schematic drawing of the
8			wellbore that the upper perforations, the gas zone, and
r n le			the lower perforations, the oil zone, have in the past
· · · ·	~ . .		been separated by a packer located at 3943. The lower
-	₩ 00 ₩ 14 ₩ ₩ ₩ ₩ ₩		zone which is the oil zone has been pumped by means of
· ·	2 2 		a Beam Pumping Unit.
	ม มาว 16 อาชมาว		The upper gas zone has produced by a flowing through
			the annulus; and as mentioned previously, it was doing
	E 243-0091		fairly good until the first part of this year when it
	ษ พ. 	:	lcaded up with fluid and at the present time is producing
	2001 x 20		very little gas as a result of the flood covering the
	° √ 21		perforations in the upper zone.
. 4		Q	Now, how would this be operated if the packer is removed
	d + Y 22 31 MWS BLDC 21 1310 L 21 23 23		and the two zones commingled and the commingled production
	5 24		produced?
	25	A	We would simply pull the tubing and the packer that

separates the gas zone from the oil zone, running the tubing back in with a plunger lift installation in the tubing and a standing value.

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E 243-6691 • ALBUQUERQUE, NEW MEXICO 871 East • Albuquerque, New Mexico 87198:

SIMMS BLDC. P.O. BOX 1002-PHONE 1216 FIRST NATIONAL BANK BLDC. E

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We would use the gas pressure from both zones to lift the plunger in the tubing and lift it up to the surface to recover produced fluids and what gas is needed to operate the plunger.

This oil and gas that is produced through the tubing would go to the low-pressure system, the purchaser being Philips Petroleum, and the low pressure being approximately 25 pounds.

By utilizing this method, we would be able to keep the wellbore free of fluids that are coming in from the formation. The gas zone would be produced up the annulus and go to the higher pressure system, too, which is approximately a 90-pound pressure line, and the purchaser being El Paso.

Q Is there pressure differential between the oil and gas zones?

Yes, there is. From the shut-in tubing pressures, even though we haven't measured bottom-hole pressure, in the shut-in tubing pressures it is indicated that as denoted on the graph that the pressure in the lower zone is 475 pounds do compared to the pressure in the upper zone of 206 pounds.

	PAGE 8
1	What we plan to do and propose to do is to flow the
2	annulus, the gas from the annulus at a pressure less than
3	the 200 pound pressure exhibited in the upper zone; and
4	we believe by the plunger lift operation of keeping the
5	wellbore free of fluids and also the lowering the annulus
5	pressure down below this 200 pounds that we can increase
7	the gas production from this well and continue to maintain
8	the oil production that is currently existing.
9	Q Will approval of this installation affect the total
10	quantity of gas that can be produced from the commingled
11	zones?
12	A In my opinion, it will. In 1972, this well had a revenue
ි 13	over expenses of approximately \$1500. In 1973, the first
14	three producing months of 1973, it had an expense exceeding
15	revenue from the oil and gas of some \$500. And to continu
16	the well producing it as a dual completion and gas zone
17	loading up, and we have no way of technically at the
18	present time keeping the gas zone unloaded.
19	We are looking at a situation where we are losing
20	money, and we believe that in order to turn the profit
21	picture around in this well that the plunger lift operation
22	is a means of doing it. It will also reduce operating
23	costs, and we believe it will also increase the gas
24	production and consequently increase the revenue from this
25	well and consequently increase the life of the well.

Mr. Clay, in connection with the economics that you have 0 1 just mentioned, I take it that you believe the increased 2 gas production from the upper zone will be sufficient 3 to offset the lower gas price that would be received by the production into the low-pressure system? 5 Yes, that's correct. The gas is being sold from the Α 6 tubing that is going through the separator into this 7 low-pressure system and is receiving or demanding about 8 a nickel less per Mcf as compared to the annulus-produced 9 gas that is going into this higher pressure system, and 10 it is my belief that with this plunger lift system that 11 we can maintain the oil production and at the same time 12 pull the pressure down in the annulus and consequently 13 increase the producing volumes from the high-pressure 14 zone that is going to the higher price and the higher 15 pressure of the two systems. 16 Now, have you at this point in time prepared and submitted Q 17 an application for commingling authority to the State 18 Land Office? 19 We have submitted a request to the New Mexico Commission. Α 20 I'm not talking about the application to the Oil Commission. Q 21 Let me put the question another way. Do you intend to 22 prepare and submit an application for commingling to the 23 Commissioner of Public Lands? Yes, we do.

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6691+ ALBUQUERQUE, NEW MEXICO 87103 • ALBUQUERQUE, NEW MEXICO 87108 BLDG. NATIONAL BANK SIMMS BLDG. 209

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And with that submission, will you submit an economic analysis of the gas production to demonstrate All right. Q 1 the effect upon revenues to the Commissioner of Public 2 Lands as a result of this commingling should it be 3 approved by both the OCC and the State Land Office? Yes. We would be very happy to; and again it's my opinion 4 that, of course, we know what the revenue is now with the 5 A dearnley, meier & associates dual completion, and it is my opinion that we can increase 6 7 this production; and we would be very happy to submit average production assuming a favorable ruling by the 8 9 10 Will you furnish to this Commission a copy of the Commission. 11 economic analysis that you make and furnish to the Q 12 •• PHONE 243-6691• ALBUQUERQUE. NEW MEXICO 87103 •• PHONE 243-6691• ALBUQUERQUE. NEW MEXICO 87108 веос. East• Albuquerque. New Mexico 87108 Commissioner of Public Lands? 13 We would be very happy to. MR. MORRIS: Mr. Examiner, we don't have that 14 Yes. А economic analysis available at this time; but we would 15 ask permission to submit that data to the Commission and 16 would request that no action be taken on this application 17 until we have had time to prepare and submit that analysis. 18 BOX 1092 . PHONE 243-0 MR. NUTTER: We will hold the case open until then. 19 Mr. Clay, were these Exhibits 1 through 20 BANK (By Mr. Morris) SIMMS BLDG. P.O. BO 21 5 prepared by you or under your supervision? Q 22 Yes, they were prepared under my supervision. MR. MORRIS: Wa offer Exhibits 1 through 5 into 23 A 24 8 25

		PAGE 11
	1	evidence.
	2	MR.NUTTER: Superior Exhibit's 1 through 5 will be
1 1 1	3	admitted into evidence.
	4	MR. MORRIS: That's all I have on Direct, Mr. Examiner.
	5	CROSS-EXAMINATION
S	6	BY MR. NUTTER:
dearnley, meier & associates	7	Q Mr. Clay, referring to your Exhibit Number 5, first of all
SOC	8	these upper perforations are identified as Queen gas
s as	9	perforations. They are actually in the Seven Rivers;
	10	aren't they, or in the Yates?
, me	11	A We have for log purposes called them Seven Rivers as well
nley	12	as the lower perforations. And that terminology of
	13	Queen is simply in conformance with the production as
IEXICO 8	14	recorded by the Commission and recognized by the
₩ 2 Σ 	15	Commission and being in the Eumont Queen Field.
20 20 20 20 20 20 20 20 20 20 20 20 20 2	16	Q However, inasmuch as the Queen formation is below the
● A C L B C C C C	17	Yates and the Seven Rivers formation, they couldn't be
6691 • A L	18	Queen perforations above the Yates Seven Rivers?
	19	A Right.
ВОХ 1092 ФРНОИЯ Ас валк вгрс. 6	20	Q But actually, everything is probably producing in the
. 80 X NAL 84	21	Yates Seven Rivers; isn't it?
IS BLDG. • P.O. BO FIRST NATIONAL	22	A Yes. That's what we call it is the Seven Rivers.
AS BLD	23	Q Now, you do have seven-inch casing in this well and your
209 SIMMS	24	big problem seems to be that your upper gas perforations
	25	are loading up with liquids. Have you even considered the

installation of a string of tubing so the well could unload its liquid through the tubing rather than up the 1 2 annulus? Yes, we have; and there again, we have got a situation 3 here where the Commission, as we can see it right now, A 4 we are talking about a dual head, dual tree; and we are 5 talking about an additional string of tubing. So we are 6 talking about approximately \$4,000 just in investment. 7 You are not talking about a lot of money for intangibles; 8 Q 9 ara you? It's all intangible, this is correct. So this would 10 A 11 certainly be a possibility. I suspect that when Superior got authority to dually 12 2016. NEW MEXICO 87103 NEW MEXICO 87108 complete this well pursuant to Order Number DC-142 that Q 13 they indicated that they could produce the well without 14 waste in the manner that they proposed at that time? 15 BUQUERQUE. 16 Yes, that's correct. And while it was producing liquid-free production, I'm A 17 Q sure the annular flow wasn't inefficient? It may be 2.000 1243-6001 4 BLDG. EAST AL 18 19 inefficient at this point. 20 Right. Now, you don't propose actually the gas lift with this Α SIMMS BLDG. P.O. BOX 1216 FIRST NATIONAL 21 upper perforation gas. It won't be gas lift going in Q 22 through gas lift valve and lifting in the fluid in the 23 tubing. You'd be operating a plunger lift; is this correct? 24 203

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PAGE

dearnley, meier & associates

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1 A That's correct. The plunger lift is on	an intermittent
2 time cycle depending on the setting, 12	to 24 times a
3 day; and when the pressure on the annulu	s builds up to
4 sufficient, it pushes the fluid up into	the tubing
5 through the standing valve; and the pres	sure on the
6 annulus is used to push this plunger whe	en it opens at
7 the surface. It would push that plunger	up to the
8 surface carrying the fluids and what lit	tle gas is:
g required to do that, push the plunger up	the tubing string
19 and then unload into the flow line. The	intermitter
11 closes and the plunger drops back to the	e standing valve.
12 Q To repeat the cycle then?	
A That's correct. So it's not a gasalift	operation and
A That's correct. So it's not a gas-lift not similar to one where you are cycling	g gas through a
gas-lift valve at either pressure or a t	ime stage.
Q Now, with the plunger-type operation, th	nere is no means
of determining how much gas is actually	coming from the
of determining how much gas is actually upper perforations and utilized in lifti	ing the plunger
in the tubing; is there?	
	ing down-hole.
However, we have got a measurement of the or the gas flow rate in the dual complete	
· z 22	tion status, the
gas and oil; and it would be a matter of	f deduction or
subtraction of what gas you would be pro	oducing in a
25 commingled state versus what you were pr	roducing before;

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			£ 	PAGE 14
		1		and I think it could be reasonable to assume that the
-		2		predominant difference in that gas would be coming from
		3		the gas zone.
		4	2 Q	If you start lifting more fluid in the lower Morrow zone,
		. 5	en gebruch	certainly the GOR would change. You'd think the
SS		6	1 1,3 - 40 1,7 - 1	production of gas would change.
ciati		7	A	The best that we have to go on now is that our GOR, we
SSO		8		would have to use a GOR similar to what we have seen in
dearnlev, meier & associates	I	9		the last year or two producing zones isolated and use
eier		10	· · ·	that.
۲, m	•	11	Q	I thought I understood you to mention in your testimony
rnle	103	13		that your oil zone was producing about 6 barrels a day.
dea	XICO 87 87108	13	n La San Ka	However, 1972's rate appears to be 710 for the year;
	EX KE	14	÷	is that right?
	2 X 4 W 7 C	15	A	1972, and I think that graph there, that would be for the
	100 100 100 100 100 100 100 100 100 100	16		year of 1972.
	1 ● A L B U (- B U Q U E I	17	Q	So it's actually making less than two barrels of oil
	243-6621 AST • AL	18		per day?
. .	PHONE BLDG. E	19	_ A -	That's correct.
	1092 •	20	Q	And it's on a Beam Pump at this time?
	_ ø	21	A	And the well has been actually shut-in the oil zones
	DG.● P.O. 80) T NATIONAL	22		since October or November of last year.
	SIMMS BLD 1216 FIRST	23	Q	So this 710 doesn't represent a full year's production,
	209 SIM	24		then?
		25	A	That's correct.

		PAGE AU
1	Q	Now, when did the well start declining in the gas
2		production as far as the upper set of perforations?
3	A	Well, the gas production really started declining the
4		first part of this year. Well, actually looking at
5		December of last year, it was producing 170 Mcf a day.
6		And so at that time as compared to November last year
7		of producing 410 Mcf a day and as of April of this year
8		150 Mcf a day, it's been in the last months of last
9		year and the early months of this year that the gas
10		production has been gradually going down.
11	Û.	Was it loading up with hydrocarbon liquid or water?
12	A	We are really not sure since we haven't unloaded it. We
13		think there is a possibility of water in the Queen in
14		the gas zone in the Seven Rivers.
15	Q	Now, you mentioned that the annular gas goes to the
16		El Paso line which operates at 90 pounds. What's the
17		price paid to Superior for that gas?
18	A	I don't have the contract with me; and without directly
19		referring to it, it's only an estimate of between 12 and
20		14 cents.
21		MR. MORRIS: Can you indicate that on your economic
22		analysis that you will furnish later?
23		THE WITNESS: Yes.
24	Q	(By Mr. Nuttor) But the gas from the tubing goes to the
25		Philips low-pressure system, and it's something like

dearnley, meier & associates

4 209 SIMMS BLDG. P.O. BOX 1092 . PHONE 243-009

\$5 less per Mcf?

A Yes.

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> SIMMS BLDG.8 P.O. BOX 1092 8 PHONE 243-669 1216 FIRST NATIONAL BANK BLDG. EAST 4

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MR. NUTTER: Are there any further questions of Mr. Clay? He may be excused. At what date do you think we could have this analysis of the economics of this thing and the method that you propose for allocation of gas and so forth submitted, Mr. Clay?

THE WITNESS: I would think within a three-month period that we could have sufficient producing data, sufficient productive data on the dual completion situation that we could submit it after this. At least a two-month producing period, I would like to have.

MR. MORRIS: Mr. Clay, I don't think Mr. Nutter is referring to an analysis based on actual production; but he is talking about that you are going to have to make an application to the State Land Office before you can go ahead with this.

THE WITNESS: I see.

MR. MORRIS: They will have to approve it, and the Commission will have to approve it. What they need to have now is an analysis based on projected performance and an allocation of projected performance based on available data; and I think they will need this within a week or ten days.

THE WITNESS: I could submit that in a very short

period of time, which would be a projected estimate, production and the income in a commingled state versus a dual completion situation.

MR. NUTTER: If there are no further questions, the witness may be excused. Do you have anything further, Mr. Morris?

MR. MORRIS: No, sir, I don't.

MR. NUTTER: Does anyone have anything they wish to offer in Case 5025.

MR. GRAHAM: Ray Graham, Director of Oil and Gas Division, New Mexico State Land Office. On behalf of the Land Office, we would like to oppose the approval of this commingling installation until such time as it has been assured the Commission of Public Lands that our royalty will not be decreased in any manner from the gas production from the upper zone.

The assurance may either be in the form of an agreement to continue paying royalty based on the high pressure gas or some other confirmation that our royalty will not be decreased; and when we have that assurance, I am sure that we would consider removing our objection to the approval of this installation. That's all. MR. NUTTER: Thank you, Mr. Graham. Does anyone have anything for Case 5025? We will take the case under advisement. We will recess until 1:30.

dearnley, meier & associates

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SIMMS BLDG.P.O. BOX 1002.0PHONE 243-6691.0ALBUQUERQUE, NEW MEXICO 87103 1216 FIR3T NATIONAL BANK BLDG. EAST-ALBUQUERQUE, NEW MEXICO 87108

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PAGE 17

PAGE 18 (Whereupon, the Hearing was in recess until 1:30.) 1 2 STATE OF NEW MEXICO 3 98. ١ COUNTY OF BERNALILLO) 4 I, JANET RUSSELL, a Certified Shorthand Reporter, in 5 and for the County of Bernalillo, State of New Mexico, do dearnley, meier & associates 6 hereby certify that the foregoing and attached Transcript of 7 Hearing before the New Mexico Oil Conservation Commission was 8 reported by me; and that the same is a true and correct 9 record of the said proceedings to the best of my knowledge, 10 skill and ability. 11 ٠, 12 Y MEXICO 87103 SHORTHAND REPORTER CERTIFIED 13 14 M M M Z 15 • ALBUQUERQUE. 16 17 18 EAST 209 SIMMS BLDG. P.O. BOX 1092 PPHONE 1216 FIRST NATIONAL BANK BLDG. E 19 20 21 I do heraby contify that the foregoing is a complete record of the presidentings in Onno No. 5025. 22 the Examiner heaving g1 19.73 heard by กอ on 23 🚬 Examiner . A and 011 Conservation Commission 24 25

PAGE 19 INDEX PAGE WITNESS TERRY CLAY Direct Examination by Mr. Morris Cross-Examination by Mr. Nutter dearnley, meier & associates EXHIBITS ADMITTED OFFERED Applicant's Exhibit #1 Applicant's Exhibit #2 Applicant's Exhibit #3 200 SIMMS BLDG. P.O. BOX 1092 PHONE 243-0691 ALBUQUERQUE. NEW MEXICO 87108 1210 FIRST NATIONAL BANK BLDG. EASTAALBUQUERQUE. NEW MEXICO 87108 Applicant's Exhibit #4 Applicant's Exhibit #5



OIL CONSERVATION COMMISSION

I. R. TRUJILLO CHAIRMAN

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

August 14, 1973

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

Re:

Mr. Richard S. Morris Montgomery, Federici, Andrews, Hannahs & Morris Attorneys at Law Post Office Box 2307 Santa Fe, New Mexico

5025 CASE NO. R-4607 ORDER NO.

Applicant:

Superior Oil Company

Dear Sir:

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

Very truly yours,

L. Vorter R.

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC	×
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. 5025 Order No. R-4607

APPLICATION OF THE SUPERIOR OIL COMPANY FOR DOWN-HOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 11, 1973, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 13th day of August, 1973, the Commission, a quorum being present, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

SEAL

dr/

That the applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED:

That Case No. 5025 is hereby dismissed.

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



Chairman

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

THE SUPERIOR OIL COM

P. O. BOX 1900 MIDLAND, TEXAS 79701

July 31, 1973

Mr. D. S. Nutter, Chief Engineer NEW MEXICO OIL CONSERVATION COMMISSION P. O. Box 2088 Santa Fe, New Mexico 87501 Aqui

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CONSERVATION COMM Senta Fo

UG.

Re: Case No. 5025 Downhole Commingling Superior Oil Company State 12 No. 1 Section 12, T-21-S, R-35-E Eumont (Oil and Gas) Pool

Dear Sir:

Relative to Superior Oil Company Application of July 11, 1973, to commingle downhole the Seven Rivers gas and Lower Seven Rivers oil in the well bore of the State "12" No. 1 Well, we ask that consideration of this application be cancelled. Upon further testing of the lower zone perforations at 3961-72' on July 20, 1973, it was determined that this interval produced 100 percent water. We have therefore set a bridge plug above the lower perforations and plan to produce this well from the upper gas zone perforations 3674'-3690' as a single zone completion.

In view of the non-commercial test from the lower oil zone, we believe that we can produce a higher volume of gas as a single completed gas well from the upper zone by using the plunger lift described at the hearing. This gas will be sold to the higher pressure system and is higher in price than gas sold into lower pressure system.

Yours very truly,

THE SUPERIOR OIL COMPANY

T. D. Clay Petroleum Engineer

TDC/jf

cc: Mr. Ray Graham Mr. Richard Morris

Docket No. 19-73

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 11, 1973

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

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

ALLOWABLE: (1)

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

CASE 4749:

: (Reopened) (Continued from the June 6, 1973, Examiner Hearing)

In the matter of Case No. 4749 being reopened pursuant to the provisions of Order No. R-4338, which order established special rules and regulations for the Humble City-Strawn Pool, Lea County, New Mexico, including a provision for 80-acre proration units. All interested parties may appear and show cause why said pool should be developed on other than 40-acre units.

CASE 5019:

Application of Cities Service Oil Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the S/2 of Section 14, Township 20 South, Range 28 East, Eddy County, New Mexico, to be dedicated to a well to be drilled in an undesignated Morrow gas pool at a standard location in Unit K of said Section 14. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and up to 200 percent charge for risk involved in drilling said well.

CASE 5020:

Application of Belco Petroleum Corporation for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the South Salt Lake-Morrow Gas Pool, including a provision for 320-acre drilling and proration units. In the absence of objection, this pool will be placed on 320-acre spacing rather than the present 160-acre spacing.

CASE 5021:

Application of Mobil Oil Corporation for an unorthodox oil well location and special pool allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its proposed New Mexico "B" Well No. 9 at an unorthodox location 940 feet from the North line and 1510 feet from the East line of Section 27, Township 10 South, Range 32 East, Mescalero-Devonian Pool,

Docket No. 19-73 -2-

Examiner Hearing - Wednesday - July 11, 1973

CASE 5022:

Lea County, New Mexico. Applicant further seeks the assignment of

(Case 5021 continued from page 1)

oil per day.

Lea county, New Mexico. Applicant Lutiner Seeks the assignment of a special depth bracket allowable for said pool of 604 barrels of Application of Skelly Oil Company for an exception to Rule 104, Lea Application of okerly off company for an exception to Rule 104, Le County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Pule 104 authority to produce the Mexico III county, New Mexico. Applicant, in the appresized cause, seeks as an exception to Rule 104, authority to produce its Mexico "L" uplice Nee 1 and 22 located loca than 230 feet from each other as an exception to rule 104, authority to produce its mexico b Wells Nos. 1 and 23 located less than 330 feet from each other in Weits Nof Section 5. Toumban 25 couth page 20 pact and the WELLS NOS. 1 and 23 LOCALED LESS LUAN DOU LEEL From each other Unit A of Section 5, Township 25 South, Range 38 East, and its Mories Will Wells Nee 2 and 22 located less then 200 fort UNIT A OF Section 2, Foundary 23 South, Kange 30 East, and 115 Mexico "J" Wells Nos. 2 and 23 located less than 330 feet from each athen to Weith 0 to Contine 22 memorite 24 couth parce 20 Foot Mexico J Wells Nos. 4 and 45 located less than 550 leet from each other in Unit O in Section 32, Township 24 South, Range 38 East, and its Morton Will Dolla Noe 4 and 17 located loca than 330 feet from o other in Unit 0 in Section 32, Townsnip 24 South, Kange 30 East, and its Mexico "j" Wells Nos. 4 and 17 located less than 330 feet from each other in Unit N of said Section 32, all in the Dollarhide-Fusselman other in Unit N OF Salo Section 34, all in the Dollarnice-russelman Pool, Lea County, New Mexico, each 40-acre unit being limited to one

Application of Skelly Oil Company for a waterflood project, Roosevelt Application of okelly off company for a waterflood project, Rouse County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot waterflood project by the injection top unit allowable. county, New MEXICO. Applicant, in the above-styled cause, seeks authority to institute a pilot waterflood project by the injection of water into the Honer and Lower Can Andrea formations through an authority to institute a pilot waterriood project by the injection of water into the Upper and Lower San Andres formations through per-formations in the intervals from 4007 foot to 4410 foot and from 4007 of water into the upper and Lower San Andres formations through per-forations in the intervals from 4207 feet to 4418 feet and from 4676 to 4849 feet in its Hobbs "IT" Well No. 11 located in Unit P of South Range 33 Fact Chaveron-San Andres Pool

to 4849 feet in its HODDS I Well NO. If focated in Unit r of Section 33, Township 7 South, Range 33 East, Chaveroo-San Andres Pool, Received to County, New Mordeo Application of Midwest Oil Corporation for a unit agreement, Eddy Roosevelt County, New Mexico. Application of minwest off corporation for a unit agreement, Eury County, New Mexico. Applicant, in the above-styled cause, seeks county, New Mexico. Applicant, in the above-bryled cause, beens approval of the Cottonwood Spring Unit Area comprising 3838 acres,

approval of the Contonwood Spring Unit Area comprising 3030 acres, more or less, of federal and fee lands in Township 25 South, Range 26 Application of The Superior Oil Company for down-hole commingling, application of the Superior Ull Company for down-note comminging; Lea County, New Mexico. Applicant, in the above-styled cause, seeks East, Eddy County, New Mexico. Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Upper Seven Rivers gas and Lower Seven Rivers at to the million of the State Upper Viell No. 1 located to Unit T authority to commingie upper Seven Kivers gas and Lower Seven Kivers oil in the Wellbore of its State "12" Well No. 1 located in Unit L of State 12 "Merselide 21 Courts Page 25 Fact Finant Pool Los Courts ULL III UNE WEILDURE OF ITS DEALE 14 WEIL NO. 1 LOCATED IN UNIT & OF Section 12, Township 21 South, Range 35 East, Eumont Pool, Lea County, New Merico Satid Mell Mar authorized of a second dual completion in New Mexico. Said well was authorized as a gas-oil dual completion in

Application of The Superior Oil Company for compulsory pocling, Eddy the Eumont Pool by Commission Order DC-142. Application of the Superior ULL Company for computsory pooling, Eady County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interacts in the Morrow Atoba Strawn and

county, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow, Atoka, Strawn and Conver formations underlying the N/2 of Section 7 strawn by 22 south order pooling all mineral interests in the notion, ALUNA, BLIAWH and Canyon formations underlying the N/2 of Section 7, Township 23 South, Dense 07 Parts for the Contabed Piola Pidar Country New Mories, Alex Canyon formations underlying the N/2 of Section 1, fownship 25 south Range 27 East, South Carlsbad Field, Eddy County, New Mexico. Also to be considered will be the cost of drilling and completing eaid to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating welt and the attocation of such costs, as well as actual operation costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a 150 percent charge for risk involved in drilling said well.

CASE 5023:

CASE 5024:

ASE 5025:

CASE 5026:

Docket No. 19-73 -3-

Examiner Hearing - Wednesday - July 11, 1973

CASE 5027:

Application of Dalport Oil Corporation for the amendment of Order No. R-4553, Chaves County, New Mexico. Applicant, in the abovestyled cause, seeks the amendment of Order No. R-4553 to provide that the well to be drilled on the proration unit pooled by said order shall be located in Unit G of Section 17, Township 12 South, Range 31 East, Chaves County, New Mexico, rather than Unit J of said Section 17. In the absence of objection, Order No. R-4553 will be amended as above.

CASE 5015:

(Continued and Readvertised)

Application of Michael P. Grace II and Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests down to and including the Pennsylvanian formation underlying Section 16, Township 24 South, Range 26 East, adjacent to the White City-Pennsylvanian Gas Pool, Eddy County, New Mexico, to form a standard 640-acre unit for said pool, to be dedicated to a well to be drilled at an orthodox location for said unit. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and up to 200 percent charge for risk involved in drilling said

CASE 5010:

well.

(Continued from the June 27, 1973, Examiner Hearing)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down to and including the Pennsylvanian formation underlying the N/2 of Section 18, Township 18 South, Range 26 East adjacent to the West Atoka Morrow Gas Pool, Eddy County, New Mexico, to be dedicated to a well to be drilled 1650 feet from the North line and 660 feet from the West line of said Section 18, the unorthodox location of which was previously approved by Commission Order No. R-4508. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and up to 200 percent charge for risk involved in drilling said well.

CASE 5012:

(Continued from the June 27, 1973, Examiner Hearing)

Application of Gandy Construction for an oil treating plant permit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at a site in the SE/4 of Section 11, or the SW/4 of Section 12, Township 10 South, Range 35 East, Lea County, New Mexico.



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Field;	1980' FSL & 990' FWLSection 12, T-21-S, R-Eumont (Oil & Gas)Lea County, New Mexico
KB: 3593	DF: 3591 GL: 3583 TD: 4211 PBTD: 4175 TLD: 9'
Spudded:	6-8-54 Completed: 0il Zone - 7-13-54 Gas Zone - 9-12-54
Pay Zone:	Seven Rivers - 011 & Gas Log Top - 3622' (-29)
Perfs:	011 - 3961-72 w/8 Jets/ft Gas - 3674-90 w/8 Jets ft
-	
Casing:	9-5/8" 32# @ 312' w/250 sax 7" @ 4211' w/300 sax (top of cmt outside 7" csg @ 2895) 135 Jts 20# J-55, R-2, ST&C 4226.60
Tubing:	2-1/2" J-55 EUE 8rd (128 jts) w/tail @ 3993'.
Packers:	Lane-Wells 7" x 2-1/2" BOCL set @ 3943'
•	
Pmpg Equip:	E-11 National Unit Pumper w/57 DP Fairbanks Morse Gas Engine
Remarks:	Otis Type "A" sliding side door choke @ 3906' 2" FP Mech SN w/out G.A. @ 3983' w/FP HD dbl vlv standing in SN.
	 2-1/2" x 1-1/4" x 12' pump set on 2-1/2" FP mech pump anc @ 3892' 863/4" rods swinging. NOTE: Fish in hole-Pump, 655/8" rods, fishing tool & btm half hyd jars set on FP pump anchor.
7-13-54	TREATMENT: Seven Rivers Perfs 3961-72 (Western Co.) Acidized perfs w/250 GMA. Washed 4 BA over perfs, 1 BA @ 10 min. intervals. Squeezed 2 BA into fmtn. Max press 1900/900 psi, FP 1400/900 psi.
7-13-54	TREATMENT: Seven Rivers Perfs 3961-72 (Western Co.) Treated w/3000 gals green oil & 4500# sand, followed w/90 BLO. Max press 3600/2000 psi. FP 2600/1000 psi. Avg inj rate 6.5 BPM.
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9-8-54	WORKOVER: To Dually Complete Perforated from 3674-90 w/8 Jets/ft.
9-8-54 9-8-54	WORKOVER: To Dually Complete Perforated from 3674-90 w/8 Jets/ft. TREATMENT: Seven Rivers Perfs 3674-90 (Western Co.)
Ng Le	WORKOVER: To Dually Complete Perforated from 3674-90 w/8 Jets/ft.

appl Ex2 Br 5025

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any 1 THE SUPERIOR OIL COMPANY P. O. BOX 1900 MIDLAND, TEXAS 79701 May 31, 1973

New Mexico Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico 88240

Car 5025 Re: Request for Exception to Rule 303A Superior's State "12" No. 1 Unit L, 1980' FSL & 990' FWL Section 12, T-21S, R-35E Eumont (Oil & Gas) Field Lea County, New Mexico

RVATION COMM

Sento F.

Gentlemen:

In accordance with the rules and regulations as set forth by The New Mexico Oil Conservation Commission, we respectfully request an exception to Rule 303A to permit the down hole commingling of produced fluids from the Seven Rivers oil pool and Seven Rivers gas pool of the above captioned well.

Attached is the necessary information concerning the request of an exception to Rule 303A.

Very truly yours,

THE SUPERIOR OIL COMPANY

J. C. Willner Jr. Petroleum Engineer

JCW/wc Attachments

cc: Amerada Hess Corporation Gulf Oil Company-US Shell Oil Company

- ALKET MALLED

Date La - J

THE SUPERIOR OIL COMPANY STATE "12" NO. 1 UNIT L, 1980' FSL & 990' FWL SECTION 12, T-21S, R-35E EUMONT OIL AND GAS FIELD LEA COUNTY, NEW MEXICO

Basis for exception to Rule 303A to permit down hole commingling of produced fluids of the Eumont-Seven Rivers oil and gas pools. Dual completion Order No. DC-142.

Santa Fo

Que 5025

Effective September 12, 1954 the State "12" No. 1 was produced as a dual from the Seven Rivers oil (perfs 3961'-72') and Seven Rivers gas (perfs 3674'-90') pools. In August 1972, beam pumping equipment became inoperative and production has since been from the Seven Rivers gas pool.

To obtain commercial depletion of the Seven Rivers oil pool we wish to install plunger lift equipment and utilize remaining BHP and gas reserves of the Seven Rivers gas pool in maintaining such plunger lift operation.

Based on the attached GOR and packer leakage test, conducted in June 1972, total daily production before commingling does not exceed the 80 barrels of oil per day limit as set forth under Rule 303C. Furthermore, neither zone is capable of producing more water than the combined limit of 80 barrels of oil per day.

Produced fluids from the Seven Rivers gas zone is .678 gravity gas and from the Seven Rivers oil zone is 32.9° API gravity oil and .674 gravity gas. As the water cut_from_the_Seven Rivers gas zone is negligible, produced fluids from each zone are believed to be compatible.

The present purchase price for oil shall not be changed as oil production is from only the Seven Rivers oil zone. The present purchase price for gas shall be decreased by \$0.05 to the extent that gas production will be into a low pressure line rather than a high pressure line.

Offset operators shall be notified, as required, by copies of this application.

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

County Operator Pool THE SUPERIOR OIL COMPANY EUMONT (OIL) LEA Address TYPEOF TEST - (X) Scheduled 🔀 P.O. BOX 1900, MIDLAND, TEXAS 79701 Completion Special PROD. DURING TEST LENGTH DAILY GAS - OIL LOCATION WELL DATEOF E CHOKE TBG. 0F LEASE NAME ALLOW-RATIO TEST HOURS GRAV WATER OIL GAS NO. TEST SIZE PRESS Ē s U т R ABLE BBLS. CU.FT/BBI OIL BBL S. M.C.F. 1972 <u>64th</u> \bigcirc Ĺ STATE "12" 21-S 35-E 15 5 24 32.9 5 6 1200 12 6-12 P 7 -STATE "175" 1 I 11 21-S 35-E 6-11 ŧ₽Ĺ 48 30 3 3 0 33.0 3 55 18,333 STATE "334" 1 21-S 5 A 3 35-E 6-21 ₽ 20 3 1 36.0 3 22 7333 2 2 B 3 21-S 35-E 6-22 P 20 3 2 36.8 1 4 4000 3 21-5 Ħ 3 35-E 6-20 P 20 3 3 0 37.9 3 5 1667 *Plunger Life I hereby certify that the above information No well will be assigned an allowable greater than the amount of oil produced on the official test. During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is is true and complete to the best of my knowlocated by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned. Increased allowables when authorized by the Commission, ledge and belief. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base V will be 0.60. Report casing pressure in lieu of tubing pressure for any well producing through caring. 0 Surrege (Bignature) Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 303 and appropriate pool rules. O.V. Sivage N COPY TO: M. U. BROUSSARD PRODUCTION ENGINEER DATE: E. F. DRAMODN (Tille) JUNE 28, 1972 M. L. LEIERER (Date) (2) NMOCC 6-28.72

NEW MEXICO OIL CONSERVATION COMMISSION

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Operator	THE SUPERIO	R OIL COMPANY		Lease	STATE	"12"			eil 0. 1
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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. 5025

Order No. R-<u>4607</u>

APPLICATION OF THE SUPERIOR OIL COMFANY FOR DOWN-HOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on <u>July 11</u>, 1973, at Santa Fe, New Mexico, before Examiner <u>Daniel S. Nutter</u>.

NOW, on this ______day of <u>August</u>, 19<u>73</u>, the Commission, a guorum being present, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

That the applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED:

That Case No. 5025 is hereby dismissed.

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