CASE 6672: COQUINA OIL CORPORATION FOR AN EXCEPTION TO RULE 303C, LEA COUNTY, NEW MEXICO

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CASE NO.

6672

APPlication, Transcripts, Small Exhibits,

ETC.

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	7 8 9	IN THE MATTER OF: Application of Coquin for an exception to 1 County, New Mexico.		CASE 6672
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	16 17 18	For the Oil Conservation Division:	Ernest L. Padilla, Legal Counsel for State Land Office I Santa Fe, New Mexic	the D ivisio Bldg.
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	20 21 22	For the Applicant:	W. Thomas Kellahin KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexic	8
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MR. NUTTER: Call next Case Number 6672.

MR. PADILLA: Application of Coquina Oil,

Incorporated, for an exception to Rule 303C, Lea County, New Mexico.

MR. KELLAHIN: I'm Tom Kellahin, appearing on behalf of the applicant, and I have one witness.

(Witness sworn.)

RONNIE GILBREATH

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN;

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Q. Would you please state your name and by whom you're employed?

A My full name is Ronnie R. Gilbreath. I'm employed by Coquina Oil Corporation in the capacity of Production Manager.

Q And, Mr. Gilbreath, have you previously testified before the Oil Conservation Division?

No, sir, I have not.

Q. Would you explain to the Examiner when and where you obtained your degree?

I obtained a Bachelor of Science degree Α. 2 from -- in chemical engineering from Texas College of Ores 3 and Industries. It's now been renamed Texas A&I University. In 1966. 5 ۵ Subsequent to graduation in 1966 where 6 have you been employed and in what capacity? 7 A. For twelve years I was employed by Cities 8 Service Oil Company in various petroleum related jobs, both 9 production engineering and reservoir engineering. 10 And at that time, then, I switched to 11 Coquina. I have been in that capacity for about a year and 12 a half. 13 Have you made a study of and are you 14 familiar with the facts surrounding this particular appli-15 cation? 16 Yes, I have. A. 17 MR. KELLAHIN: We tender Mr. Gilbreath as 18 an expert witness. 19 MR. NUTTER: Mr. Gilbreath is qualified. 20 Would you spell your last name, please? 21 G-I-L-B-R-E-A-T-H. Pronounced Gilbreath. A. 22 Would you please refer to Exhibit Number ۵ 23 One, Mr. Gilbreath, and identify that exhibit for us? 24 Basically Exhibit Number One is simply A. 25 a land plat identifying the applied well, the Coquina Vivian

LY WALTON BOYD THE BHORTHAND REPORTER MAR BHURL (111-2413 LA PA, NEW LATION 111-2413 Page _____

No. 1. It's just really to relate and show that this is in a rather mature producing area with other wells in the vicinity.

Q Would you give us a little hackground on this Vivian Well No. 1, Mr. Gilbreath?

A Yes, sir. The Vivian No. 1 was originally dualed in both the Drinkard and the Granite Wash formations. In August of 1978 the Commission Administrative Order DHC 255 authorized downhole commingling of the Drinkard and Granite Wash in this well.

That was in August of '78?

A Yes, sir, it was. And then in November of '78 we had a subsequent hearing on this well and out of that came Order No. R-5845, which granted a special commingled casinghead gas allowable increase.

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Q Is this a copy of that order, Mr. Gilbreath? A. Yes, sir, it is.

MR. KELLAHIN: If the Examiner please, we won't introduce this as an exhibit. I'll simply give it to you as part of the Commission records on this particular well.

Q (Mr. Kellahin continuing.) Subsequent to November of '78 after obtaining the order to increase the casinghead gas allowable, Coquina has continued to produce this well as a commingled well.

LY WALTON BOYI TED SHOATHAND REPORT ALS BARDA (645) 411-24 A P4, New Mation 31191 _____

A Yes, sir, that is correct. At the time of commingling the well was flowing from both --- capable of flowing from both zones. Since that time it has remained flowing from the two zones or from the commingled stream and in approximately July of this year both flowing pressures and fluid production had dropped somewhat, so it was necessary for us to install artificial lift on the well.

0. Do you now pump both zones?

A. We pump but we pump the commingled stream, yes, sir. And soon after we started pumping the well it became evident that the well was capable of producing in excess of 50 barrels a day.

I had -- did contact Mr. Nutter of the Commission and he requested that the well be tested for awhile and to try to determine whether or not this was of a temporary nature or maybe have some duration to it.

Q Would you describe for the record what the 50-barrel limit is?

A. The 50-barrel limit is set up by the Division rule -- statewide rule 303C. It's a statewide rule based on the depth bracket, limiting the well to 50 barrels a day.

Q And what is Coquina's proposal with regards to that limitation?

Coquina proposes that if approved that the

LLY WALTON BOYD TIFED SHORTHAND REPORTER Place (195) 411-3445 8

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allowable on this particular well be increased to that of the Drinkard formation, which is the shallower of the two. This is in excess of the highest production obtained at our well since that time, but it would give us some ease and flexibility of handling this increased production.

Q What then would be the maximum oil production?

A Currently the Drinkard is assigned 142 barrels a day.

Q. What effect, if any, is that going to have on gas production?

A. The gas production at this well when we started pumping it has increased back up but it has not increased up to the point where it's, you know, in danger of going over the current allowable, so we feel at this time that the present allowable on the commingled stream is -is equitable, and we request that it remain the same.

Q Would this, the advantage of obtaining an exception to the 50-barrel limitation, give Coquina any advantage over offsetting operators?

A In our -- in my opinion it would not. I feel like primarily the increase in production is due to us installing the artificial lift rather than -- than any new ability of each reservoir to produce more. The pressures between the two zones at the time of commingling were very

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similar, in the 6- to 750 pounds range. I don't feel like 2 we've --- we have not done anything and nobody else in the area has done anything to increase the bottom hole pressure. Therefore you would expect a normal decline, and it has been evidenced by the flowing ability of the well, declining to a point where we felt like it was best to install our artificial lift.

Is it a common practice of offset operators Q. to pump both the Drinkard and Granite Wash?

A. Yes, sir, it is. In my study of the area I've done, I feel like Coquina probably had one of the few wells left in the area that was capable of flowing, and most of the commingling requests that we way I've seen come across my desk have been to artificial lift the commingled zones.

Q. In your opinion, Mr. Gilbreath, can this Vivian Well be returned to dual completion status?

A. It could be returned to it, yes, sir; however, we feel like from an economic standpoint the cost would be extremely high and burdensome on this well. In order to accomplish this we would have to go back to -- more than likely since we're pumping the individual -- the commingled zones now, either at the initiation or soon afterwards, we would have to pump both individual zones. And to do this would require two strings of tubing and with two -- two pumping units on it.

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Would you refer to Exhibit Number Two and

identify that?

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Q.

A Yes, sir. Exhibit Number Two is simply a diagrammatic sketch of the present commingled completion on this Vivian No. 1, indicating the Drinkard producing interval and the Granite Wash producing interval.

We're currently pumping it from a depth

of 7245 feet.

Three?

Q. And would you identify Exhibit Number

A. Exhibit Number Three is an attempt to indicate the flowing -- the flowing capacity of the well prior to us initiating the artificial lift situation. About halfway down on the first page, on July the 18th is when we actually installed -- started installing the pump. It was flowing, and on the 27th we actually started -- July the 27th we actually started pumping the well. At that time production began to increase.

The test prior to this indicated that the well was down in the range of, oh, 350 to 400 Mcf a day, and it has since that time increased back up to approximately 680 to 690 Mcf a day with varying amounts of oil.

Currently the later tests indicate that

the well is in the 65 to 75 barrel a day range in oil.

In your opinion, Mr. Gilbreath, will ap-

SALLY WALTON BOYD CENTIFED SHORTHAND REPORTER 3026Phara Blanca (801) 471-3402 Baria Po, New Mexico 37161 proval of this application be in the best interests of conservation, prevention of waste, and the protection of correlative rights?

A In my opindon, yes, sir, it will be.
 Q And were Exhibits One, Two, and Three pre pared by you or compiled under your direction and super vision?

A Yes, they were.

9 MR. KELLAHIN: We move the introduction
10 of Exhibits One, Two, and Three.

MR. NUTTER: Exhibits One through Three will be admitted in evidence.

CROSS EXAMINATION BY MR. NUTTER:

Q Mr. Gilbreath, on this Exhibit Number Three you've got the choke size on the casing. Is this the gas that's venting out of the casing?

A. Since the time of pumping, yes, sir, it is. We're basically pumping the fluid and the gas is coming out of the casing.

Q I see. And is that stream commingled, the
 gas and the oil commingled and sent through a separator?
 A Yes, sir, they are. They are, you know,
 they are commingled downhole but the gas --

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No, I mean it's again commingled on the

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Yes, sir, they are.

And sent through the separator?

A Yes, sir, that's correct.

And the well has maintained its producing

Yes, sir, it has.

Q Pretty well for at least a month and a half since you put the pump on it.

A Yes, sir, that's correct. It has decreased a small amount since the time we put it on pump, indicating that this may be temporary in nature but for how long a duration it's going to be, right now I don't think I could predict it. I feel like it's going to be a long enough period of time to justify an increased allowable.

And prior to installation of the pump it had fallen down to where it was producing less than a barrel a day, or these are daily figures?

A. Yes, sir.

Q Producing 20 barrels a day.

A. Yes, sir, 20 barrels. When the commingled production, at the request of the Commission, we had some tests prior to commingling it, and the commingled stream at that time was 32 barrels a day.

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			1			MR. NUTT	ER: Ar	e there any	y further	question
and the second s			2 of	Mr. Gi	lbreath?	He may	be exc	used.		
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			4			MR. KELL				
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REPORTER'S CERTIFICATE

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I, SALLY W. BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a consider surved of the proceedings in the frammer hearing of Case No. 6672 heard by me on 9 Examiner

OII Conservation Division



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

BRUCE KING LARRY KEHOE

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING BANTA FE, NEW MEXICO 87501 15051 827-2434

October 15, 1979

Mr. Thomas Kellahin Kellahin & Kellahin Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico 87501

R-6140 ORDER NO.

Applicant:

CASE NO.

Coquina Oil Corporation

6672

Dear Sir:

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

Re:

Pours very truly, KMNEN JOE D. RAMEY Director

JDR/fd

Copy of order also sent to:

Hobbs OCD	x
Artesia OCD	x
Aztec OCD	

Other

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6672 Order No. R-6140

APPLICATION OF COQUINA OIL CORPORATION FOR AN EXCEPTION TO RULE 303C, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 19, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>12th</u> day of October, 1979, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Coquina Oil Corporation, seeks an exception to the Division's Rule 303C to permit its Vivian Well No. 1 located in Unit F of Section 30, Township 22 South, Range 38 East, in which Drinkard and Wantz-Granite Wash production is commingled in the wellbore pursuant to the provisions of Order No. DHC-255, to produce in excess of the 50-barrel limit imposed by said rule.

(3) That said well has experienced an increase in productivity since being placed on pump.

(4) That the mechanical condition of the well renders it impracticable at this time to install dual completion equipment and produce the two zones in the well on a separate basis.

(5) That the top unit allowable for a well in the Drinkard zone is 142 barrels per day and the top unit allowable for a well in the Granite Wash zone is 187 barrels per day. -2-Case No. 6672 Order No. R-6140

(6) That a special casinghead gas allowable for said well of 984 MCF per day has been previously approved by Division Order No. R-5845.

(7) That a top allowable of 100 barrels of oil per day and 984 MCF of gas per day for the subject well will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED:

(1) That the Coquina Oil Corporation Vivian Well No. 1, located in Unit F of Section 30, Township 22 South, Range 38 East, NMPM, Lea County, New Mexico, is hereby authorized a combined oil allowable for the Drinkard and Wantz-Granite Wash Pools of 100 barrels per day and a combined casinghead gas allowable of 984 MCF per day.

(2) That Division Order No. R-5845 is hereby rescinded.

(3) That any provisions of Division Order No. DHC-255 dated August 14, 1978, not in conflict herewith are hereby continued in full force and effect.

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

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION Unles JOE D. RAMEY Director

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MR. NUTTER: Call next Case Number 6672. 2 MR. PADILLA: Application of Coquina Oil, 3 Incorporated, for an exception to Rule 303C, Lea County, New Mexico. MR. KELLAHIN: I'm Tom Kellahin, appearing 6 on behalf of the applicant, and I have one witness. 7 (Witness sworn.) 9 10 RONNIE GILBREATH 11 being called as a witness and having been duly sworn upon 12 his oath, testified as follows, to-wit: 13 14 DIRECT EXAMINATION 15 BY MR. KELLAHIN: 16 Q. Would you please state your name and by 17 whom you're employed? 18 My full name is Ronnie R. Gilbreath. A, 19 I'm employed by Coquina Oil Corporation in the capacity of 20 Production Manager. 21 And, Mr. Gilbreath, have you previously Q. 22 testified before the Oil Conservation Division? 23 No, sir, I have not. A. 24 Q. Would you explain to the Examiner when 25 and where you obtained your degree?

WALTON BOYD SHORTHAND NEPONTER L Binners (5.55) 471-3422 Pe, New MoxLoo 271542

I obtained a Bachelor of Science degree 1 A. from -- in chemical engineering from Texas College of Ores 2 and Industries. It's now been renamed Texas A&I University. 3 In 1966. 5 Subsequent to graduation in 1966 where Q, 6 have you been employed and in what capacity? 7 À. For twelve years I was employed by Cities 8 Service Oil Company in various petroleum related jobs, both 9 production engineering and reservoir engineering. 10 And at that time, then, I switched to 11 Coquina. I have been in that capacity for about a year and 12 a half. 13 Have you made a study of and are you Q. 14 familiar with the facts surrounding this particular appli-15 cation? 16 Yes, I have. À. 17 MR. KELLAHIN: We tender Mr. Gilbreath as 18 an expert witness. 19 MR. NUTTER: Mr. Gilbreath is qualified. 20 Would you spell your last name, please? 21 G-I-L-B-R-E-A-T-H. Pronounced Gilbreath. A. 22 Would you please refer to Exhibit Number a 23 One, Mr. Gilbreath, and identify that exhibit for us? 24 Basically Exhibit Number One is simply A. a land plat identifying the applied well, the Coquina Vivian

SALLY WALTON BOYD CERTIFIED SHOATHAND REPORTER 1012 Plaza Blinga (666) 471-445 Banta Pe, New Meridoo 87301

No. 1. It's just really to relate and show that this is in a rather mature producing area with other wells in the 2 vicinity. 3 Would you give us a little background on Q. this Vivian Well No. 1, Mr. Gilbreath? 5 Yes, sir. The Vivian No. 1 was originally A, 6 dualed in both the Drinkard and the Granite Wash formations. 7 In August of 1978 the Commission Administrative Order DHC 255 8 authorized downhole commingling of the Drinkard and Granite 9 Wash in this well. 10 11 That was in August of '78? Q. 12 Yes, sir, it was. And then in November of A. 13 '78 we had a subsequent hearing on this well and out of that 14 came Order No. R-5845, which granted a special commingled 15 casinghead gas allowable increase. 16 Is this a copy of that order, Mr. Gilbreath? Q. 17 Yes, sir, it is. A. 18

MR. KELLAHIN: If the Examiner please, we won't introduce this as an exhibit. I'll simply give it to you as part of the Commission records on this particular well.

Q (Mr. Kellahin continuing.) Subsequent to November of '78 after obtaining the order to increase the casinghead gas allowable, Coquina has continued to produce this well as a commingled well.

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A. The gas production at this well when we started pumping it has increased back up but it has not increased up to the point where it's, you know, in danger of going over the current allowable, so we feel at this time that the present allowable on the commingled stream is -is equitable, and we request that it remain the same.

Q. Would this, the advantage of obtaining an exception to the 50-barrel limitation, give Coquina any advantage over offsetting operators?

A. In our -- in my opinion it would not. I feel like primarily the increase in production is due to us installing the artificial lift rather than -- than any new ability of each reservoir to produce more. The pressures between the two zones at the time of commingling were very

LY WALTON BOYD TE SHORTHAND REPORTER

similar, in the 6- to 750 pounds range. I don't feel like we've -- we have not done anything and nobody else in the area 2 has done anything to increase the bottom hole pressure. 3 Therefore you would expect a normal decline, and it has been evidenced by the flowing ability of the well, declining to a point where we felt like it was best to install our artificial lift.

Is it a common practice of offset operators Q. to pump both the Drinkard and Granite Wash?

A. Yes, sir, it is. In my study of the area I've done, I feel like Coquina probably had one of the few wells left in the area that was capable of flowing, and most of the commingling requests that we -- I've seen come across my desk have been to artificial lift the commingled zones.

In your opinion, Mr. Gilbreath, can this 0. Vivian Well be returned to dual completion status?

A. It could be returned to it, yes, sir; however, we feel like from an economic standpoint the cost would be extremely high and burdensome on this well. In order to accomplish this we would have to go back to -- more than likely since we're pumping the individual -- the commingled zones now, either at the initiation or soon afterwards, we would have to pump both individual zones. And to do this would require two strings of tubing and with two -- two pumping units on it.

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Would you refer to Exhibit Number Two and

identify that?

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A. Yes, sir. Exhibit Number Two is simply a diagrammatic sketch of the present commingled completion on this Vivian No. 1, indicating the Drinkard producing interval and the Granite Wash producing interval.

We're currently pumping it from a depth of 7245 feet.

And would you identify Exhibit Number

Three?

A. Exhibit Number Three is an attempt to indicate the flowing -- the flowing capacity of the well prior to us initiating the artificial lift situation. About halfway down on the first page, on July the 18th is when we actually installed -- started installing the pump. It was flowing, and on the 27th we actually started -- July the 27th we actually started pumping the well. At that time production began to increase.

The test prior to this indicated that the well was down in the range of, oh, 350 to 400 Mcf a day, and it has since that time increased back up to approximatel 680 to 690 Mcf a day with varying amounts of oil.

Currently the later tests indicate that the well is in the 65 to 75 barrel a day range in oil. Q. In your opinion, Mr. Gilbreath, will ap-

WALTON BOY SHORTHAND REPORT BADGA (501) 471-5; Pe, New Marido 575

	1	proval of this application be in the best interests of con-
	2	servation, prevention of waste, and the protection of corre-
	3	lative rights?
·	4	A In my opinion, yes, sir, it will be.
	5	Q. And were Exhibits One, Two, and Three pre-
۲ ۵ ,	6	pared by you or compiled under your direction and super-
	7	vision?
	8	A. Yes, they were.
	9	MR. KELLAHIN: We move the introduction
	10	of Exhibits One, Two, and Three.
N B(11	MR, NUTTER: Exhibits One through Three
	12	will be admitted in evidence.
	13	
SAI CENT LOER	14	CROSS EXAMINATION
	15	BY MR. NUTTER:
	16	Q. Mr. Gilbreath, on this Exhibit Number
	17	Three you've got the choke size on the casing. Is this the
	18	gas that's venting out of the casing?
	19	A. Since the time of pumping, yes, sir, it
ан 1977 - Салан Алан Алан Алан Алан Алан Алан Алан	20	is. We're basically pumping the fluid and the gas is coming
	21	out of the casing.
	22	Q. I see. And is that stream commingled, the
	23	gas and the oil commingled and sent through a separator?
	24	A. Yes, sir, they are. They are, you know,
	25	they are commingled downhole but the gas
		they are committing ted downmore but the gas

Q. No, I mean it's again commingled on the surface? 2 λ. Yes, sir, they are. 3 Q. And sent through the separator? Yes, sir, that's correct. A. 5 And the well has maintained its producing Q. rate. 7 Yes, sir, it has. A. 8 Pretty well for at least a month and a Q. 9 10 half since you put the pump on it. A. Yes, sir, that's correct. It has decreased 11 a small amount since the time we put it on pump, indicating 12 13 that this may be temporary in nature but for how long a 14 duration it's going to be, right now I don't think I could 15 predict it. I feel like it's going to be a long enough period of time to justify an increased allowable. 16 17 Q. And prior to installation of the pump it 18 had fallen down to where it was producing less than a barrel 19 a day, or these are daily figures? 20 Yes, sir. A. 21 Producing 20 barrels a day. 0, 22 Yes, sir, 20 barrels. When the commingled A. 23 production, at the request of the Commission, we had some 24 tests prior to commingling it, and the commingled stream at that time was 32 barrels a day.

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			4		1	MR. KELL	AHIN: N	o, sir.		•	
		<i>,</i>	5		1	MR, NUTTI	ER: Doe	s anyon	e have	anything	
			6	they wish t	o offer	in Case	Number	6672?			
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REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability from my notes taken at the time of the hearing.

Sally W. Boyd C.S.R. Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing Is d complete record of the proceedings in The Examinar hearing of Case No. 427 heard by me on Examiner Oil Conservation Division

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		Franki U.S., Milwo Franki U.S., Milwo Franki Stran Martine Taka I. Cone	U.S., MI Evelyn Linebery , S	U.S., MI Evolyn Linoberg S Aztric 8 LG	Everyn Eineberg, S	U.S., 410-20 0	Stote Continental		
	<u>_</u> .	G30186	a Londer Ann 2 : The straig	NBP I dice	Humble H.B.F. B-934	Continental HitliP B-2057	H.B.P. 4 8-265	S No - a linear	
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Vivian # 1 Production Data

			Tbg Press	Cag Press	Hoo	oil Prud	23/64 cx	MEFD
	•	6/24/79	/00	275	1	28		377
	⁻	6/25/79	100	275	· · ·	30		410
		,	100	275	1	30		410
		6/20/79				30	• •	410
		6/27/79	100	275	1	1	11	
	· · · · · · · · · · · · · · · · · · · ·	6/28/79	100	275	1	30	· · · ·	410
		6/29/79	100	275	1	30	- 17	410
		6/30/79	100	275		30	• 1	410
•	_	7/1/75	100	275	†	28	3 •	410
			90	275	1	30	<i>i</i> t	410
		7/3/79	. 90	275	1	30	· · · · · · · · · · · · · · · · · · ·	410
	1977 - 1979 - 19700 - 19700 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 -	7/4/29	90	275		28	• 1	410
		7/5/79	90	275	1	31	• .	410
		7/6/79	90	275	. 1	28		410
		7/7/79	90	275	1	28) •	-110
		זר/אר	90	275	0	32	n n	410
		7/9/79	90	275	0	30	· · · · · · · · · · · · · · · · · · ·	410
	· ····	7/10/29	90	275	0	28		410
		7/11/79	90	275	0	30		410
	and and a second se	7/12/79	90	275	0	30	· · · · · · · · · · · · · · · · · · ·	418
		7/13/79	- 90	275	0	28	*1	410
		7/14/79	90	275	0	28	,,	410
		7/15/79	90	275	1.	30	/ 1	395
	• • •	7/16/79	90	275	1	33	11	395
		ףר/רו/ד	90	275	1	22		395_
		7/18/79	110	290	1	14	22/64	385
		¥,	Well SI For	well hea	d hook u	p + flow	line change over c	etting
			put well on			•		
		7/19/79	110	290	1	22	22/64	360
		7/20/21	120	29 0	1.	19	22/64	356
	· .	7/21/79		290	1	19	· · · · · · · · · · · · · · · · · · ·	3 56
							Exhibit 3	
		•					Case 662	6
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			· · · · · ·		n na t		(25g)	Ì
			The Press	Cog Puss	H2.0 Prod	Pind	ck. size	MCFD
		7/22/79	120	290	0	19		360
. 1	7/24/79	7/23/71	110	270)	19		360
	1. A. S. S. P. S. M.	7/24/79	100	2.90	0	17		340
	Hot oil there well	7/25/79	0	55	0	33	-	375
	• - 	7/21./79	0	55	0	0		385
		7/27/79	0	100	0	0	-	3.75
		Nell back	on 7/27	/79 pum	ped up	3:30 pm.		
					1	:	d the tubing with	
		plus 2.0	3 Bbbs. 15	t 24 his.	35.98 Bb	ls.	· · · · · · · · ·	
		7/28/79	85	100	0	2		447
		7/21/79	85	100	Ø	34	30/64	448
	· · · · · · · · · · · · · · · · · · ·	7/30/79	85	120	0	28	30/64	507
		7/31/79	120	120	16	. 46	32/64	585
	đ j. Na 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	8/1/79	125	120		43	32/64	614
		8/2/79	140	160	15	55	32/61	636
	··· · · •	8/3/79	140	160	5	74	N	669
	• • • • • • •	8/4/79	135	155	6	72	f 1	669
	2 2 	8/5/79	130	145	0	86	11	636
	· · · · · · ·	8/4/79	130	145	0	78	4)	636
	••••• • • • • • • • • • •	87/19	130	145	0	66		636
		8/8/79	130	145	0	68	/ 1	636
		8/7/79	130	145	0	77	1)	636
		8/10/29	130	145	5	77	,,	636
	n a statistica a st	8/11/79	130	145	5	77	· · · · · · · · · · · · · · · · · · ·	636
	A	8/17/79	130	145	5-	69	1	681
		8/13/79	130	145	٥	75	n n	681
	• • • • • • • • • • • • • • • •	8/14/79	130	150	0	72	/	681
		8/15/77	130	150	0	74	2.11	691
	,	8/16/79	130	150	0	66	34/104	681
		8/17/79	130	150	0	72	34/64	681
		8/12/29	130	150	ο	69	• •	681
		2/19/79	130	150	0	69	. > 1	681
		8/20/75	130	150	0	73	1.1	681
ala an		8/2: 179	135	145	0	75	f /	680
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		-	The	Error	H29 Prove	Prod	Che Dage	MCFD
8 8		8/2.2/79	135	145	0	72	34/04"	680
	i	צדןבכן ש	135	145	0	72	1)	681
		8/24/79	135	145	0	72	71	680
	-	8/25/79	135	145	0	68		620
		8/20/79	130	115	0	66	مر م	680
		87/179	130	145	0	63	*	680
		8/28/79	130	145	ŧ	66	ж.	680
		8/29/79	130	145	Ø	63	ж 	680
		8/30/29	130	145	0	61		680
		8/31/79	130	145	0	61		680
		9/1/79	130	145	0	61		680
		9/2/70	40	80	0	31	34/64"	632
		9/5/79	50	90	0	72	• • • •	680
		1/4/79	50	90	6	72	11	690
		9/5/75	50	90	د _	72	/1	680
		9/6/79	50	90	5	66	<u>.</u>	680
	····	9/7/79	50	90	0	66	e i	680
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KELL Variation of the second state in the seco	22 23 24 Jones	1 1.Les . 51 . B. 1167 & Conora	F. F. Fost Col un 6 rebeily	C.G Compbell, etor, March	C.S. Contraction of the second	3556-51	
2 Secting AS	KELLY SECTION IN THE SECTION	Suffer Ameroda	U ISAMedon opera		austaniatia ch. CGCampbell	Vorst c.f 4-1 2A-1570-1 7-1-421	3202
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in in the second	a a conse	invink © Tenneco Fill "Fed-Clime"		Gui Forrell 3-2 P3 1703	GJ Forrull 3-1 R3 ridia I N Brunson R-amach I carbia		
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	7/1/79	100	275	1	22	1 1	410
1 1	7/2/79	90	275	1	30	<i>//</i>	410
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4	7/4/79	90	275	1.	28	· · · · · · · · · · · · · · · · · · ·	410
	7/5/79	90	275	1.	31	• • • •	410
·····	7/6/79	90	275	I	28	4	410
	7/7/79	90	2.75	l	28	,,	+10
	1/8/71	90	275	0	32	R.	410
	7/9/79	90	275-	0	30	••	410
	7/10/29	90	275	0	28	· · · · · · · · · · · · · · · · · · ·	410
	7/11/79	90	275	0	30	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	410
	7/12/79	90	275	0	30		410
	7/13/79	• 90	275	0	28	11	410
с 1997 —	7/14/79	90	275	0	28		410
**	7/15/79	90	275	1	30	11	395
×	7/16/29	90	275	I.	33	/1	395
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Exhibit 3 Case 6672

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benere in well	7/25/79	0	55	0	33		375
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	7/27/79	Ø	100	0	0		375
	Well back	c on 7/27	1/79 pum	ped up	3:30 pm.		
	We have	our oil	back that	t we l	had oile	I the tubing with	n - ¹ - 1
	plus 2.0	3 Bble. 13	+ 24 his.	35.98 Bb	ls	and a start of the	
	7/28/79	85	100	0	2		447
	7/29/79	85	100	D	34	30/4.1	448
	7/30/79	85	120	0	28	30/64	507
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8 . H	8/1/79	125	120	11	43	32/64	614
	8/2/79	140	160	15	55	32/61	636
	8/3/79	140	160	5	74	11	669
	8/4/79	135	155	6	72	11	669
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and the second	8/14/79	130	150	0	72	11	681
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	8/21/79	135	115	0	72	11	680
	8/25/19	135	145	0	68	(1	680
	8/20/79	130	115	0	: 66		680
	8/17/79	130	145	0	63		680
	8/28/79	130	145	ð	66		680
	8/29/79	130	145	σ	63		680
	8/30/29	130	145	0	61		680
	8/31/79	130	145	0	61		680
	9/1/79	130	145	0	61		680
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	9/3/75	50	90	0	72		680
	9/4/79	50	90	6	72	11	690
	9/5/75	50	90	L	72	<u></u>	680
	9/6/79	50	90	5	66	41	630
	9/7/79	50	90	0	46	61	680
	9/8/79	50	90	5	64	<i> </i>	680
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Page 3 Examiner Hearing - Wednesday - September 19, 1979

Docket No. 36-79

- <u>CASE 6668</u>: Application of Delta Drilling Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Bone Spring production for its SCB Unit Well No. 3 in Unit G of Section 23, Township 23 South, Range 28 East, and special rules therefor, including 80-acre spacing.
- <u>CASE 6669</u>: Application of Mesa Petroleum Company for the amendment of Order No. R-6078, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-6078 to cover the Wolfcamp and Pennsylvanian formations in the compulsory pooling of the E/2 of Section 10, Township 16 South, Range 27 East, rather than the Morrow formation only.

CASE 6644: (Continued from September 5, 1979, Examiner Hearing)

Application of Tenneco Oil Corporation for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Pictured Cliffs production in the wellbores of its State K Com Well No. 12 located in Unit E of Section 16, Township 30 North, Range 9 West, and its Plorence Well No. 60R in Unit L of Section 1, Township 29 North, Range 9 West.

CASE 6670: Application of BTA Oil Producers for pool creation and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Devonian gas pool for its 7811 JV-P Rojo Well No. 1 located in Unit D of Section 27, Township 25 South, Range 33 East, and special rules therefor, including 640-acre gas well spacing.

CASE 6671: Application of Chapman and Schneider for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Seven Rivers Reef formation in the open-hole interval from 3422 feet to 3504 feet in its I. B. Ogg "A" Well No. 3 located in Unit E of Section 35, Township 24 South, Range 36 East, Jalmat Pool.

CASE 6672:

2: Application of Coquina Oil Corporation for an exception to Rule 303C, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the Division's Rule 303C to permit its Vivian Well No. 1 located in Unit F of Section 30. Township 22 South, Range 38 East, in which Drinkard and Granite Wash production is commingled in the wellbore, to produce in excess of the 50-barrel limit imposed by said rule.

CASE 6673: Application of Conoco Inc. for a non-standard proration unit, unorthodox well locations, and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 440-acre non-standard gas proration unit comprising the SW/4 and S/2 NW/4 of Section 17 and the N/2 NE/4, SE/4 NE/4, and N/2 SE/4 of Section 18, all in Township 21 South, Range 36 East, Eumont Pool, to be simultaneously dedicated to the following wells at unorthodox locations: Meyer A-1 Wells Nos. 11 in Unit K of Section 17 and 6 and 14 in Units B and J of Section 18.

CASE 6580: (Continued from August 22, 1979, Examiner Hearing)

Application of Continental Oil Company for a carbon dioxide injection project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to initiate a pilot carbon dioxide injection project in the Grayburg-San Andres formation in Units H and I of Section 20, Township 17 South, Range 32 East, Maljamar Pool, for tertiary recovery purposes. STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6318 Order No. R-5845

APPLICATION OF COQUINA OIL CORPORATION FOR AN INCREASE IN CASINGHEAD GAS ALLOWABLE, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 13, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 14th day of November, 1978, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Coquina Oil Corporation, seeks an exception to Rule 303-C-4 to increase the casinghead gas allowable for its Vivian Well No. 1, located in Unit F of Section 30, Township 22 South, Range 38 East, Lea County, New Mexico, the Drinkard and Granite Wash zones in said well being commingled pursuant to Order No. DHC-255 and subject to the GOR limit for the Wantz-Granite Wash Pool.

(3) That the daily casinghead allowables for said Drinkard and Granite Wash zones are 852 MCF and 374 MCF, respectively.

(4) That the applicant proposes a casinghead allowable for the subject well of 984 MCF of gas per day, based upon an allowable of 374 MCF per day for the Granite Wash zone and 610 MCF per day for the Drinkard zone. -2-Case No. 6318 Order No. R-5845

(5) That based upon the division of gas production set out in Order No. DHC-255 the proposed special casinghead gas allowable of 984 MCF per day can be produced by said Vivian Well No. 1 without causing over production of casinghead gas from either the Drinkard zone or the Granite Wash zone.

(6) That the assignment of such special casinghead gas allowable will better permit the applicant to recover its share of the oil and gas production in each of said zones, will not cause waste, and will not violate correlative rights.

(7) That the application should be approved.

IT IS THEREFORE ORDERED:

(1) That Coquina Oil Corporation is hereby granted a special commingled casinghead gas allowable of 984 MCF per day (610 MCF for the Drinkard zone and 374 MCF for the Granite Wash zone) for its Vivian Well No. 1 located in Unit F of Section 30, Township 22 South, Range 38 East, Lea County, New Mexico.

(2) That any provisions of the Division's Order No. DHC-255 dated August 14, 1978, not in conflict herewith are hereby continued in full force and effect.

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

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION TOE D. RAMEY Director

SEAL

dr/



COQUINA OIL CORPORATION P. O. DRAWER 2960 MIDLAND, TEXAS 79702

August 22, 1979

CEVINSD. (915) 682-6271 OIL CONSERVATION DIVISION SANTA FE

Cuse lele?2

Department of Energy and Minerals Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

> RE: Request for Hearing to Consider Increase in Oil Allowable Vivian #1 Sec 30, T22S, R38E Lea County, New Mexico

Gentlemen:

Coquina Oil Corporation respectively requests that consideration be given to raising the oil allowable on the Vivian No. 1.

By letter of August 14, 1978, your Administrative Order No. DHC-255 authorized downhole commingling of the Drinkard and Granite Wash zones in the subject well. This order further established that oil production should not exceed 50 bbls per day. On November 14, 1978, by Order No. R-5845 the Division granted a special commingled casinghead gas allowable of 984 MCF per day as a result of information brought forth in a hearing held on September 13, 1978.

During July of 1979, it became necessary to install artificial lift on the well due to its declining flowing pressure and producing rates. It is now evident that this has created a situation in which the well is capable of producing in excess of its 50 BOPD allowable without exceeding the gas limit. The following tests have been recorded.

> 8/4/79 P. 75 BO, 5 BW, gas rate 640 MCFPD 8/5/79 P. 71 BO, 6 BW, gas rate 640 MCFPD 8/6/79 P. 85 BO, -O- BW, gas rate 630 MCFPD 8/7/79 P. 77 BO, -O- BW, gas rate 640 MCFPD 8/8/79 P. 66 BO, -O- BW, gas rate 630 MCFPD 8/14/79 P. 74 BO, -O- BW, gas rate 616 MCFPD 8/16/79 P. 77 BO, -O- BW, gas rate 710 MCFPD 8/18/79 P. 72 BO, -O- BW, gas rate 710 MCFPD 8/20/79 P. 74 BO, -O- BW, gas rate 714 MCFPD

Therefore, it is respectively requested that Coquina Oil Corporation be granted a hearing to hear evidence to support our request for an oil allowable increase on this well. The top production test which has occurred since the start of the test period has been 85 80PD. It is requested that consideration be given to the present allowable which is set on the Drinkard Pool. This is the shallower of the two commingled zones. Page 2

The 142 BOPD top allowable currently assigned to the Drinkard Pool would allow Coquina to produce its well in the most efficient manner and will not create excessive overproduction situations. A favorable review of this request will better permit Coquina to recover its share of oil and will not violate correlative rights.

It is further stipulated that the current gas limit of 984 MCF per day is adequate and reasonable. Therefore it is requested that this limit remain as previously set.

Yours truly,

COQUINA OIL CORPORATION

Pon Ailbreat

Ron Gilbreath Production Manager

RG/srj

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6672 Order No. <u>R-6140</u>

APPLICATION OF COQUINA OIL CORPORATION FOR AN EXCEPTION TO RULE 303C, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on <u>September 19</u> 19 79 , at Santa Fe, New Mexico, before Examiner <u>Daniel S. Nutter</u> NOW, on this <u>day of</u> <u>19 79</u>, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Coquina Oil Corporation, seeks an
exception to the Division's Rule 303C to permit its Vivian Well No. 1
located in Unit F of Section 30, Township 22 South, Range 38 East, Wentyin which Drinkard and Granite Wash production is commingled in the pursuant to the provisions of Creler No. DHC-255, wellbore, to produce in excess of the 50-barrel limit imposed by
said rule.

(3) That said will have apperienced an increase in productivity since being placed on pump. (4) That the mechanical condition of the well renders it improcticable at this time to install have completion equipment and produce the bual completion equipment and produce the first zones in the latter on a separate basis is zones in the latter on a separate basis (5) Theat the top mich secondates for the (5) Theat the top mich secondates for the prinkard zone is 142 barries per tay and the top with allowace for a wree in the too prink and zone is 187 basels per day.

(6) That a special casinghead gas accowance for said well of 984 MCF on day has been previously approved lay Division Queler no. R-5845. (7) That a top ellowaace of 100 barrels of oil per day and 984 MCF of you per day for the subject well will not cause wate nor impair corrulation sights and shauld be approved. IT IS THEREFORE ORDERED: (1) That the Cognina Oil Corporation Union lince no. 1, located in Unit For Section 30, Township 22 South, Kunge 38 East, NMPM, Rea County, her pressico, which were is hereby authorized a formbined ail allowage for the Drinkard and Wanty . Granite Wash Pools of 100 harrils per day and a combined Casinghead you addreader of 984 MCF per (2) That Division Order To. R-5845 in hereby rescinded . (3) That any provision of Dicticion Order ND. DHC-255 david august 14, 1978, ush in conflict herewith are hereby continued in jull force and affect (4) Juriskedion Done of