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SPECIARIZING INT DEPOSITIONS, HEARINGS, STAIRMENTS, EXPERT TESTIMONY, DAILY

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1120 SIMMS BLDG. . P. O. BOX 1092 . PHONE 243.6691 . ALBUQUERQUE, NEW MEXICO

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico May 14, 1969 REGULAR HEARING IN THE MATTER OF: Southeastern nomenclature) case calling for an order) for the creation, extension,) and abolishment of certain) pools in Lea, Eddy, Chaves) and Roosevelt Counties,) New Mexico.) BEFORE: DAVID A. CARGO, Chairman A. I. PORTER, Junior, Director-Secretary



TRANSCRIPT OF HEARING

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Case 4130

MR. PORTER: Case 4130.

MR. HATCH: Southeastern Nomenclature case calling for an order for the creation, extension and abolishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

DAN NUTTER

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. HATCH:

Will you state your name and position, please, Q sir?

Dan Nutter, Chief Engineer for the Oil Α Conservation Commission.

Are you prepared to make recommendations to Q the Commission concerning the creation, extension and abolishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico?

Yes, I am. A

Are your recommendations prepared in the Q

form of an exhibit?

Yes, they are. This is identified as OCC A

Exhibit No. One in Case 4330.

 Ω Would you refer to Exhibit No. 1 and point out any corrections that need to be made?

3

A Exhibit One is an exhibit **portraying** the extensions, creations and abolishments, and so forth, and it is identical to the creations, extensions and abolishments, and so forth, depicted in the docket, with certain exceptions.

A through C are identical. With respect to Paragraphs B and C, I would like to point out that geological formations and studies by the Staff of the Oil Conservation Commission indicate that the North Indian Hills-Morrow Gas Pool, is, in fact, the Indian Basin-Morrow Gas Pool, and that the North Indian Hills-Morrow should be abolished, and the acreage included therein, extended to the Indian Basin-Morrow Gas Pool. I would also recommend that the proration formula, in effect, for the Indian Gate Basin Gas Pools should apply to the acreage formerly contained in the North Indian Hills-Morrow Gas Pool. Also, that those non-standard gas proration units in the North Indian Hills-Morrow Gas Pool be approved as **a** proration unit with the appropriate acreage factor in the Indian Basin-Morrow Gas Pool. Now, with respect to Paragraph D and E, the abolishment of the Wantz-Abo Pool, and the extension of Drinkard Pool to include that acreage and those vertical limits.

I would recommend, pending further study, that this case be continued for the hearing set for July the 16th, and included in the nomenclature case at that time.

It is identical to that extension of the Middle Allison-Pennsylvanian Pool, shown on the docket, with the following exceptions: there should be an additional extension, being the Southwest quarter of Section 30, Township 8 South, Range 36 East, and the east half of Section 8, Township 9 South, Range 36 East.

Paragraph G, the extension of the North Bagley-Lower Pennsylvanian Pool is as shown on the docket, with the following additional extensions; the northwest quarter of Section 18. Paragraph H, a extension of the North Bagley-Upper Pennsylvanian Pool, is as shown on the docket, with the following additions; from Section 30 of Township 11 South, Range 33 East, and the north half.

5

Paragraph I, J, and K are as shown on the docket. Paragraph L, the Inbe Permo-Pennsylvanian Pool, should be extended as shown on the docket, with the following additions; Section A, also, has the southwest quarter, as well as the northeast quarter.

Paragraphs M and N are as shown on the docket. Paragraph O is as shown on the docket, with the following additional extension; Section 4 in Township 10 South, Range 37 East, the west half of the northwest quarter, and Section 5 of Township 10 South, Range 37 East, the northeast quarter.

Paragraph P, is as shown on the docket, with the following additional extension; Section 16 in the northwest quarter.

Paragraph Q, is as shown on the docket. With those corrections to the docket, the docket is the same as Exhibit One in this case, and I would recommend that the pool extensions and abolishments and creations be shown as on Exhibit One. Q Was Exhibit 1 prepared by you or under your

supervision?

• **A**

Yes, it was.

MR. HATCH: I move the introduction of Exhibit 1 in this case.

MR. PORTER: Exhibit 1 may be entered.

(Thereupon, Commission's Exhibit No. 1 was marked for identification.)

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Before Mr. Nutter is dismissed, we have a request by Mr. Johnson, who is a representative of Shell Oil Company, that he be allowed to make a statement for the record concerning paragraph E which Mr. Nutter recommended be continued.

Mr. Johnson, would you like to make that statement at this time?

MR. ROBERT E. JOHNSON: I'll just read it from here, so we don't lose anything in the translation.

MR. PORTER: All right.

MR. JOHNSON: It says: "Shell Oil Company wishes to make the following comments with reference to the proposed combination of the Drinkard and Wantz Abo formations into a single distinct pool:

While the combining of the Drinkard and Wantz

Abo reservoirs has certain recognizable advantages, Shell's principal concern at this time involves the possible detrimental effect this plan may have on future unitization efforts in the Drinkard zone, which may result in a corresponding delay, or even loss, of secondary reserves. The prevention of waste of these secondary reserves could far outweigh any increased primary recovery which may result from the combination of the Drinkard and Wantz Abo reservoirs.

7

The Drinkard reservoir is currently an established candidate for secondary recovery. In fact, at the present time one portion of this reservoir is already unitized and in the pilot phase of s waterflood project. Also, preliminary data-gathering efforts are underway which may lead to the formation of an additional unit or units for supplemental recovery in this reservoir. To date, there has been no apparent effort directed toward establishment of any secondary recovery projects in the Wantz Abo reservoir. In fact, the rather sporadic development pattern of this horizon suggests a discontinuous distribution of reservoir pay within the recognized producing interval. On this basis alone, the Wantz Abo reservoir should be considered only as a minor secondary recovery candidate, if indeed, a secondary candidate at all.

8

Therefore, the inclusion of the Wantz Abo with the Drinkard as a single reservoir will probably affect future Drinkard unitization by extending unitization negotiations and may lead to non-participation of some tracts causing "windows" in the units. A subsequent loss of flooding efficiency and reserves could result from this situation. Some of the more apparent reasons for the aforementioned statement are as follows:

- a. The establishment of acceptable unitization parameters from both zones,
- b. The possible rejection of certain intervals or areas from the units, which can delay unitization agreement,
- c. The "weighting" by former interval of both measured and interpretive data and a corresponding extended period of negotiation in an attempt to establish equities based on these data.

d. The possible separate ownership of Drinkard and Wantz Abo rights under a common tract.

(This situation is known to exist in at least one instance.)

9

Because of these, and other presently unforeseen reasons, Shell feels that the combination of the Drinkard and Wantz Abo reservoirs cannot possibly help and will probably hinder future unitization efforts and secondary recovery operations in the present Drinkard and Wantz Abo as separate reservoirs in order to expedite unitization for secondary recovery purposes.

In summary, Shell agrees that the proposed plan will not adversely affect and, in fact, may increase the remaining recoverable primary reserves from both horizons, by permitting production into a common well bore. However, this could also be accomplished by requests on an individual well basis for commingling in the well bore whenever the desirability and necessity for such commingling can be demonstrated. Shell therefore suggests that the Commission consider the possible adverse effects that the comining of two reservoirs, which were previously recognized as separate, may have on future secondary recovery."

MR. PORTER: Thank you very much, Mr. Johnson. Now, I believe Mr. Hatch has something further.

MR. HATCH: I have a letter from Atlantic Richfield Company and Pan American Petroleum Corporation; they are very short, and I believe that I will read them into the record. The one from the Atlantic Richfield Company is dated May 9, 1969, and is addressed to Mr. Porter. With reference to subject Case, 4130, "Please be advised that Atlantic Richfield Company concurs in the proposal to abolish the Wantz-Abo Pool, extend the vertical limits of the Drinkard Pool to include the Abo formation, and the redesignation of same as the Drinkard-Abo Pool. As you are aware, the proposed changes will result in a number of proration unit having two wells completed in the new pool. To cover such cases, it is respectfully requested that the Order establishing the new pool, provide that the operator be permitted to produce prorated unit allowable from either or both wells. Atlantic Richfield Company, by R. E. Powers."

And the letter from the Pan American Petroleum Corporation, with reference to the abolishment of Wantz-Abo Pool and extension of vertical limits of vertical pool -- "We understand that under your

Nomenclature Hearing on May 14, 1969, you will consider the abolishment of the Wantz-Abo Pool, extension of vertical limits of the Drinkard Pool to include the Abo formation, redesignation of this combined pool as Drinkard Drinkard-Abo Pool, an extension of the horizontal limits of the Drinkard Drinkard-Abo Pool. Pan American Petroleum Corporation hereby indicate its support of this proposed pool combination." And that's signed by "D. L. Ray."

MR. PORTER: Thank you, Mr. Hatch. For those of you who are interested in this Case, Mr. Joe Ramey, our District Supervisor in Hobbs, will notify all the producers in these two pools that are involved, of any meeting to be held; the date is, as yet to be announced, in the Conference Room at the Hobbs office, to discuss this matter thoroughly. In the meantime, our District Geologists will make a further study, and may have some recommendations to make at the meeting -- I don't know about that. But in the meantime, the Commission will continue this paragraph with the Nomenclature Case to the Regular Hearing in July -- July the sixteenth, and take the balance of the case under advisement.

> (Thereupon, Commission's Exhibit No. 1 was admitted in evidence.)

INDEX

WITNESS DAN NUTTER Direct Examination by Mr. Hatch 2

EXHIBITMARKEDADMITTED IN
EVIDENCECommission's Exhibit
No. 1611

.

STATE OF NEW MEXICO)) ss. COUNTY OF BERNALILLO)

I, CA FENLEY, 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.

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Page 1 NEW MEXICO OIL CONSERVATION COMMISSION REGULAR HEARING SANTA FE NEW MEXICO Hearing Date MAY 14, 1969 TIME: 9 A.M. NAME REPRESENTING LOCATION Dillo Los Queles HElind Okhumanna hell R. H. Burie Alell ail Co RE Johnson Nima P. Dublarine RWTSipam Santa De DENNEN PAN AM 4.5 HARMONY Houdon Shell SPage 6402 England Auce Jant miller millord Jefaco Im. 2. J. Javage Dulla mabil Oil Corr A.R. Wall f The Permian Corp. Jarminton W P. Claptre . midland Cities Service Oil Arch Booker El Paso Dallas El Paro Walual Good Most And Borp Harved miller J.W. Slanden midland LLL ofter E. C. amer occ Cark Sendrick occ. mon

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. 4130 Order No. R-3758

THE APPLICATION OF THE OIL CONSERVATION COMMISSION UPON ITS OWN MOTION FOR AN ORDER CREATING, ABOLISHING, AND EXTENDING VERTICAL AND HORIZONTAL LIMITS OF CERTAIN POOLS IN CHAVES, EDDY, LEA, AND ROOSEVELT COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 14, 1969, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 20th day of May, 1969, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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 there is need for the creation of a new gas pool in Eddy County, New Mexico, for the production of gas from the Morrow formation, said pool to bear the designation of Logan Draw-Morrow Gas Pool. Said Logan Draw-Morrow Gas Pool was discovered by the Pan American Petroleum Corporation Trigg Federal Gas Com Well No. 1, located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. It was completed in the Morrow formation on January 21, 1969. The top of the perforations is at 9626 feet. -2-CASE No. 4130 Order No. R-3758

(3) That there is need for the consolidation of the North Indian Hills-Morrow Gas Pool and the Indian Basin-Morrow Gas Pool inasmuch as both pools produce from the same common source of supply. Said consolidation to be accomplished by the abolishment of the North Indian Hills-Morrow Gas Pool and the extension of the Indian Basin-Morrow Gas Pool.

(4) That the proposed consolidation of the Wantz-Abo Pool and the Drinkard Pool, Lea County, New Mexico, should be continued to the July 16, 1969, hearing pending further study.

(5) That the proposed extension of the vertical limits of the Drinkard Pool, Les County, New Mexico, to include the entire Abo formation and to redesignate said pool as the Drinkard Drinkard-Abo Pool should be continued to the July 16, 1969, hearing pending further study.

(6) That there is need for certain extensions to the Siete-San Andres Pool in Chaves County, New Mexico, the Middle Allison-Pennsylvanian Pool, the North Bagley-Lower Pennsylvanian Pool, the North Bagley-Upper Pennsylvanian Pool, the Mid Bell Lake-Devonian Gas Pool, the Cerca-Upper Pennsylvanian Pool, the South Eunice Seven Rivers-Queen Pool, the Inbe Permo-Pennsylvanian Pool, the South McCormack-Silurian Pool, the Osudo-Atoka Gas Pool, and the West Sawyer-San Andres Pool, all in Lea County, New Mexico, the Middle Allison-Pennsylvanian Pool and the Todd-Lower San Andres Pool, both in Roosevelt County, New Mexico. Further, that the proposed extension to the Drinkard Drinkard-Abo Pcol, Lea County, New Mexico, should be continued to the July 16, 1969, hearing pending further study.

IT IS THEREFORE OPDERED:

(a) That a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production, is hereby created and designated as the Logan Draw-Morrow Gas Pool, consisting of the following-described area:

> TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM Section 34: W/2

(b) That the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, consisting of the following-described area: -3-CASE No. 4130 Order No. R-3758

TOWNSHIP	21	SOUTH,	RANGE	24	EAST,	NMPM
Section	4:	A11	· · · · ·			
Section	5:	A11				
Section	8:	A11				-
Section	91	A11				
Section	16:	A11	· -	·		
Section	17:	A 11				

is hereby abolished.

(c) That the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP	21	SOUTH,	RANGE	24 1	EAST .	NMPM
Section	4:	A11			• • •	
Section	5:	A11	÷			
Section	8:	A11		. i		
Section	9:	A11				
Section 1	L6:	A11				
Section 1	L71-	A11		· · · -		
Section	201	A11				-

(d) That the proposed abolishment of the Wantz-Abo Pool in Lea County, New Mexico, consisting of the following-described area:

-4-CASE No. 4130 Order No. R-3758

> TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMFM Section 19: N/2

> TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 2: All Section 4: E/2 and NM/4

is hereby continued to July 16, 1969.

(e) That the proposed extension of the vertical limits and redesignation of the Drinkard Pool, Lea County, New Mexico, and the proposed extension of the horizontal limits of said pool to include therein:

TOWNSHIP 21	SOUTE, RANGE	37 BAST, NMPM
Section 1:		
Section 4:	Lots 13, 15	, and 16
Section 12:		
Section 24:	E/2	
Section 25:	E/2	

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM Section 6: SW/4 Section 18: NW/4 Section 19: N/2

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM Section 6: SE/4 Section 7: NE/4

is hereby continued to July 16, 1969.

(f) That the Middle Allison-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM Section 30: SW/4

> TOWNSHIP 9 SOUTH, RANGE 35 EAST, NAPM Section 1: NW/4

> TOWNSHIP 9 SOUTH, RANGE 36 EAST, NMPM Section 8: E/2

-5-CASE No. 4130 Order No. R-3758

(g) That the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM Section 18: NW/4 Section 19: NE/4 Section 31: N/2

(h) That the North Bagley-Upper Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM Section 19: SE/4 Section 20: S/2 Section 21: S/2 Section 30: N/2

(i) That the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM Section 19: SW/4

(j) That the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 14 SOUTH, RANGE 34 BAST, NMPM Section 5: SE/4

(k) That the South Eunice Seven Rivers-Queen Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM Section 11: N/2

(1) That the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 11 SOUTH, RANGE 34 EAST, NMPM Section 8: NE/4 and SW/4

-6-CASE No. 4130 Order No. R-3758

(m) That the South McCormack-Silurian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 16: SE/4

(n) That the Osudo-Atoka Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM Section 25: NW/4

(o) That the West Sawyer-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM Section 33: NW/4 and NW/4 SW/4

TOWNSHIP 10 SOUTH, RANGE 37 EAST, NMPM Section 4: W/2 NW/4 Section 5: NE/4

(p) That the Siete-San Andres Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM Section 16: NW/4 Section 20: SE/4 Section 29: NE/4

(q) That the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM Section 32: NE/4

IT IS FURTHER ORDERED:

That the effective date of this order and all creations, abolishments, and extensions of vertical and horizontal limits included herein shall be June 1, 1969. -7-CASE No. 4130 Order No. R-3758

esr/

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

(in DAVID F. CARGO, Chairman

L. PORTEK, Jr., A .

r., Member & Secretary

DOCKET NO. 14-69

DOCKET: REGULAR HEARING ~ WEDNESDAY - MAY 14, 1969

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

ALLOWABLE:	(1)	Consideration of the oil allowable for June, 1969;
	(2)	Consideration of the allowable production of gas for June, 1969, from fourteen prorated pools in Lea,
		Eddy, Roosevelt and Chaves Counties, New Mexico; also presentation of purchaser's nominations for said pools for the six-month period beginning July 1, 1969;
	د د به سیر د رژ	consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for June, 1969.

CASE 4057: (De Novo)

Application of Charles B. Read for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Quail-Queen Pool, Lea County, New Mexico, including a provision for 80acre spacing and proration units. Upon application of said Charles B. Read, this case will be heard <u>De Novo</u> under the provisions of Rule 1220.

CASE 4017: (De Novo)

Application of Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled in the SE/4 of said Section 8. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well. Upon application of David Fasken, this case will be heard <u>De Novo</u> under the provisions of Rule 1220.

CASE 4043: (De Novo)

Application of David Fasken for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County, Regular Hearing - May 14, 1969 -2-

CASE 4130:

Docket No. 14-69

(Case 4043 continued)

New Mexico. Said acreage to be dedicated to a well to be drilled 1980 feet from the North line and 2105 feet from the East line of said Section 8. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well. Upon application of David Fasken, this case will be heard <u>De Novo</u> under the provisions of Rule 1220.

Southeastern nomenclature case calling for an order for the creation, extension and abolishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Logan Draw-Morrow Gas Pool. The discovery well is Pan American Petroleum Corporation's Trigg Federal Gas Com No.
1 located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. Said pool described as:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM SECTION 34: W/2

(b) Abolish the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, described as:

TOWNSHIP 21	SOUTH,	RANGE	24	EAST,	NMPM
SECTION 4:	A11			-	
SECTION 5:	A11				
SECTION 8:	A11				
SECTION 9:	A11				
SECTION 16:	A11				
SECTION 17:	A11				

(c) Extend the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21	SOUTH,	RANGE	24	EAST,	NMPM
SECTION 4:	A11				
SECTION 5:	A11				
SECTION 8:	A11				
SECTION 9:	All				
SECTION 16:	A11				
SECTION 17:	A11				
SECTION 20:	A11				

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(d) Abolish the Wantz-Abo Pool in Lea County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

Lots 11, 12, 13, 14 and S/2

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Court this Juin, 14

TOWNSHIP21SOUTH, RANGESECTION2:Lots11, 12,SECTION3:S/2SECTION4:Lots15 and 1SECTIONS10 and 11:A11SECTION12:W/2SECTION13:NE/4 and W/2SECTIONS14 and 15:A11SECTIONS14 and 15:A11 Lots 15 and 16 and S/2NE/4 and W/2SECTION 16: SECTION 21: SE/4 NE/4 and S/2SECTIONS 22 23, and 24: All SECTION 25: NW/4 SECTIONS 26, 27 and 28: All SECTION 29: E/2 NE/4 SECTION 33: A11 SECTION 35: W/2 and NE/4 SECTION 36: NW/4

> TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM SECTION 19: N/2

> TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM SECTION 2: All SECTION 4: E/2 and NW/4

(e) Extend the vertical limits of the Drinkard Pool in Lea County, New Mexico, to include the Abo formation and redesignate said pool as Drinkard Drinkard-Abo Pool. Also extend the horizontal limits of said Drinkard Drinkard-Abo Pool to include therein:

	TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMI	۶M
	SECTION 1: S/2	
Allestere 2.4	SECTION 4: Lots 13, 15 and 16	57 14 100 100
	SECTION 12: SW/4	
	SECTION 24: E/2	
	SECTION 25: E/2	
	TOWNSHIP 21 SOUTH, RANGE 38 EAST, NME	<u>M</u>

SECTION 6: SW/4 SECTION 18: NW/4 SECTION 19: N/2

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM SECTION 6: $\frac{1}{2}$

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Regular Hearing - May 14, 1969

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Docket No. 14-69

(m) Extend the South McCormack-Silurian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM SECTION 16: SE/4

(n) Extend the Osudo-Atoka Gas Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM SECTION 25: NW/4

(o) Extend the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM SECTION 33: NW/4 and NW/4 SW/4T/05R37E Sec 4 W/2 NW/4 Sec 5 NE/4 (p) Extend the Siete-San Andres Pool in Chaves County, New Mexico, to include therein:

> TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM SECTION 20: SE/4 SECTION 29: NE/4

Sec 16: NW/4

(g) Extend the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM SECTION 32: NE/4

PAN AMERICAN PETROLEUM CORPORATION

P: O. BOX 1410 OIL AND GAS BUILDING FORT WORTH, TEXAS-7610E

L. RAY DIVISION ENGINEER

D.

May 9, 1969 File: Subject: Abolishment of Wantz-Abo Pool and Extension of Vertical Limits of Drinkard Pool, Creation of Drinkard Drinkard-Abo Pool Lea County, New Mexico

New Mexico Oil Conservation Commission Post Office Box 871 Santa Fe, New Mexico 87501

Gentlemen:

We understand that under your Nomenclature Hearing on We understand that under your Nomenciature nearing on May 14, 1969, you will consider abolishment of the Wantz-Abo Pool, extension of vertical limits of the Drinkard Pool to include the Abo formation, redesignation of this combined pool as Drinkard Delicities the Bool continuity of the benicontal limits of the Drinkard-Abo Pool, and extension of the horizontal limits of the Drinkard Drinkard-Abo Pool.

Pan American Petroleum Corporation hereby indicates its support of this proposed pool combination.

Yours very truly, St. L. Ray

WCW:jn

Sınclaır

သ ATLANTIC RICHFIELD COMPANY -NORTH AMERICAN PRODUCING DIVISTON SINCLAIR OIL CORPORATION 21 P. O. Box 1470 MAY MIDLAND, TEXAS 79701 MAN

SOUTHERN REGION (WEST TEXAS) DOMESTIC OIL & GAS DIVISION

May 9, 1969

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, 1969 Cone 4180 Momenclature Case

The New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attention Mr. A. L. Porter, Jr.

Docket 14-19, May, 1969 Case No. 4130 (d) & (e) **REFERENCE:**

Gentlemen:

Reférence subject case, please be advised that Atlantic Richfield Company concurs in the proposals to abolish the Wantz-Abo Pool, extend the vertical limits of the Drinkard Pool to include the Abo formation, and the redesignation of same as the Drinkard Drinkard-Abo Pool.

As you are aware, the proposed changes will result in a number of proration units having two wells completed in the new pool To cover such cases, it is respectfully requested that the order establishing the new pool, provide that the operator be permitted to produce prorated unit allowable from either or both wells.

Yours very truly,

ATLANTIC RICHFIELD COMPANY

R. E. Powers

Region Engineer

REP/FMS/oc

cc: Mr. S. L. Smith Atlantic Richfield Company

File

nomencletine Case 4130

Shell Oil Company wishes to make the following comments with reference to the proposed combination of the Drinkard and Wantz Abo formations into a single distinct pool:

STATEMENT

While the combining of the Drinkard and Wantz Abo reservoirs has certain recognizable advantages, Shell's principal concern at this time involves the possible detrimental effect this plan may have on future unitization efforts in the Drinkard zone, which may result in a corresponding delay, or even loss, of secondary reserves. The prevention of waste of these secondary reserves could far outweigh any increased primary recovery which may result from the combination of the Drinkard and Wantz Abo reservoirs.

The Drinkard reservoir is currently an established candidate for secondary recovery. In fact, at the present time one portion of this reservoir is already unitized and in the pilot phase of a waterflood project. Also, preliminary data-gathering efforts are underway which may lead to the formation of an additional unit or units for supplemental recovery in this reservoir. To date, there has been no apparent effort directed toward establishment of any secondary recovery projects in the Wantz Abo reservoir. In fact, the rather sporadic development pattern of this horizon suggests a discontinuous distribution of reservoir pay within the recognized producing interval. On this basis alone, the Wantz Abo reservoir should be considered only as a minor secondary recovery candidate, if indeed a secondary candidate at all.

Therefore, the inclusion of the Wantz Abo with the Drinkard as a single reservoir will probably affect future Drinkard unitization by extending unitization negotiations and may lead to non-participation of some tracts causing "windows" in the units. A subsequent loss of flooding efficiency and reserves could result from this situation. Some of the more apparent reasons for the aforementioned statement are as follows:

- a. The establishment of acceptable unitization parameters from both zones,
- b. The possible rejection of certain intervals or areas from the units, which can delay unitization agreement,
- c. The "weighting" by former interval of both measured and interpretive data and a corresponding extended period of negotiation in an attempt to establish equities based on these data.

d. The possible separate ownership of Drinkard and Wantz Abo rights under a common tract. (This situation is known to exist in at least one instance.)

Because of these, and other presently unforeseen reasons, Shell feels that the combination of the Drinkard and Wantz Abo reservoirs cannot possibly help and will probably hinder future unitization efforts and secondary recovery operations in the present Drinkard pool. In view of the aforementioned possible complications to unitization caused by the proposed combination plus the difference in potential floodability of the two zones, it appears likely that the Commission in the future will be faced with requests to again recognize the Drinkard and Wantz Abo as separate reservoirs in order to expedite unitization for secondary recovery purposes.

In summary, Shell agrees that the proposed plan will not adversely affect and, in fact, may increase the remaining recoverable primary reserves from both horizons, by permitting production into a common well bore. However, this could also be accomplished by requests on an individual well basis for commingling in the well bore whenever the desirability and necessity for such commingling can be demonstrated. Shell therefore suggests that the Commission consider the possible adverse effects that the combining of two reservoirs, which were previously recognized as separate, may have on future secondary recovery.

REJ:PFN

made by Bot Johnson

NOMENCLATURE ADVERTISEMENT FOR MAY, 1969 CASE 4/3.4

In the matter of the application of the Ott Conservation Commission of New Mexico upon its own motion for an order for the creation of a new pool in Eddy County, New Mexico, the abolighment of existing pools in Eddy and Lea Counties, New Mexico, the change in vertical limits of an existing pool in Lea County, New Mexico, and the extension of vertical and horizontal limits of certain existing pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico, and giving notice to all persons and parties interested in the subject matter thereof to appear and show cause why such creations, abolishments, and extensions of vertical and horizontal limits should not be made.

a) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the <u>Malco Morrow</u> Gas Pool. The discovery well is Pan American PetroLeum Corporation's Trigg Federal Gas Com No. 1 located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. Said pool described as:

> TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM SECTION 34: W/2

b) ABOLISH the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM SECTION 4: A11 SECTION 5: A11 SECTION 8: A11 SECTION 8: A11 SECTION 9: A11 SECTION 16: A11 SECTION 17: A11

c) EXTEND the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

> TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM SECTION 4: All SECTION 5: All SECTION 8: All SECTION 9: All SECTION 16: All SECTION 17: All SECTION 20: All

d) ABOLISH the Wantz-Abo Pool in Lea County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM SECTION 2: Lots 11, 12, 13, 14 and S/2 SECTION 3: S/2 SECTION 4: Lots 15 and 16 and S/2 SECTION 10 AND 11: All SECTION 12: W/2 SECTION 13: NE/4 and W/2 SECTIONS 14 AND 15: All SECTION 16: SE/4 SECTION 21: NE/4 and S/2 SECTIONS 22, 23, AND 24: All SECTION 25: NW/4 SECTIONS 26, 27, AND 28: All -2-May, 1969 Nomenclature

d) Abolishment of Wantz-Abo Pool Continued:

	monte of water hos foot Continued.
	TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM (Continued) - SECTION 29: E/2 NE/4 - SECTION 33: All - SECTION 35: W/2 and NE/4 - SECTION 36: NW/4
	TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM SECTION 19: N/2
	TOWNSHIP 22 SOUTH, RANCE 37 EAST, NMPM SECTION 2: All SECTION 4: E/2 and NW/4
to_include	the vertical limits of the Drinkard Pool in Lea County, Néw Mexico, the Abo formation and redesignate said pool as Drinkard, Drinkard Also, extend, said Drinkard, Drinkard-Abo Pool to include therein:
	the horizontal limits of TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM SECTION 1: S/2
	- SECTION 4: Lots 13, 15, and 16 - SECTION 12: SW/4 - SECTION 24: E/2 - SECTION 25: HIGH and E/2
	TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM SECTION 6: SW/4 SECTION 18: NW/4 SECTION 19: N/2
0 . 0)	TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM SECTION 6: SE/4
bit DSN in Lea Coun	SECTION 6: SE/4 the pool designation of the North Anderson Ranch-Wolfcamp Pool ty, New Mexico, to the North Anderson Ranch-Pennsylvanian Pool the Middle Allison-Pennsylvanian Pool in Lea County New Mexico.
(f) e) EXTEND to include	therein:
	TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM SECTION 1: NW/4
to include	
	TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 19: NE/4 SECTION 31: N/2
(h) at) EXTEND to include	
	TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 19: SE/4 SECTION 20: S/2 SECTION 21: S/2

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May, 1969 Nomenclature

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j) EXTEND the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM SECTION 19: SW/4

k) EXTEND the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM SECTION 5: SE/4

(*) EXTEND the South Eunice Seven Rivers-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM SECTION 11: N/2

(m) EXTEND the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 11 SOUTH, RANGE 34 EAST, NMPM SECTION 8: NE/4

n) EXTEND the South McCormack-Silurian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM SECTION 16: SE/4

Description:
Description:
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Description:
Description:

TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM SECTION 25: NW/4

(p) EXTEND the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM SECTION 33: NW/4 and NW/4 SW/4

q) EXTEND the Siete-San Andres Pool in Chaves County, New Mexico, to include therein:

 TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM

 SECTION 20: SE/4

 SECTION 29: NE/4

r) EXTEND the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, to include therein:

> TOWNSHIP 7 SOUTH, RANCE 36 EAST, NMPM SECTION 32: NE/4

CASE 4130:

Southeastern nomenclature case calling for an order for the creation, extension and abblishment of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Logan Draw-Morrow Gas Pool. The discovery well is Pan American Petroleum Corporation's Trigg Federal Gas Com No.
1 located in Unit F of Section 34, Township 17 South, Range 27 East, NMPM. Said pool described as:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM SECTION 34: W/2

(b) Abolish the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

SECTION 4: All SECTION 5: All SECTION 8: All SECTION 9: All SECTION 16: All SECTION 17: All

(c) Extend the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

	TOWNSHIF	> 21	SOUTH,	RANGE	24	EAST,	NMPM
	SECTION	4:	A11				
	SECTION	5:	A11	÷			
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	SECTION	9:	A11				
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	SECTION	17:	A11				
	SECTION	20:	A11				
nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for June, 1969.

CASE 4057: (De Novo)

Application of Charles B. Read for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Quail-Queen Pool, Lea County, New Mexico, including a provision for 80acre spacing and proration units. Upon application of said Charles B. Read, this case will be heard <u>De Novo</u> under the provisions of Rule 1220.

CASE 4017: (De Novo)

Application of Corinne Grace for compulsory pooling. Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled in the SE/4 of said Section 8. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well. Upon application of David Fasken, this case will be heard <u>De Novo</u> under the provisions of Rule 1220.

CASE 4043: (De Novc)

Application of David Fasken for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County,

NEW POOLS

It is recommended that a new gas pool be created and designated as the a)) LOGAN DRAW-MORROW GAS Pool.

Vertical limits to be the <u>Morrow</u> formation and the horizontal limits should be as follows: As shown in Paragraph (a), Exhibit I

Discovery well was Pan American Petroleum Corporation - Trigg Federal Gas Com #1 located in Unit P Section34 Township 17 Range 27 and was completed on perforations is at 9626 feet.

It is recommended that a new____pool be created and designated as the ____Pool .

Vertical limits to be the ______formation and the horizontal limits should be as follows:_____

Discovery well was_____ located in Unit____Section__Township___Range___and was completed on _____with an initial potential of ______BOPD/MCFGPD. Top of perforations is at _____feet.

It is recommended that a new____pool be created and designated as the ____Pool.

Vertical limits to be the ______formation and the horizontal

limits should be as follows:_____

Discovery well was____ located in Unit____Section__Township___Range___and was completed on

with an initial potential of _____BOPD/MCFGPD. Top of

perforations is at_____feet.

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CASE 4130: (a) CREATION OF A NEW GAS POOL

COUNTY POOL North Indian Hills-Morrow Gas Eddy NMPM RANGE TOWNSHIP 24E 21S 6 3 -11 7 10-12 -15-- 14 -18 13 1 20 -- 21 -19-22 23 24 . łł - 27 - 26 30 29-28 25 -36 - 35 34 - 31-32 33 Purpose: Abolish the North Indian Hills Morrow Gas Pool, at the request of the operator, and place all acreage formerly therein in the Indian Basin Morrow Gas Pool. Pool to be abolished colored in blue. section 4,5,8,9, 16 & 17 All

CASE 4130: (b) ABOLISHMENT OF AN EXISTING GAS POOL

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المريدة

CASE 41.30: (c) EXTENSION OF AN EXISTING GAS POOL COUNTY Eddy POOL Indian Basin-Morrow Gas TOWNSHIP NMPM 21S RANGE 24E 6 5 3. 4 2 1.1 8 10 -9 - 11 12 1.13 -18-17 -16 -- 15 -14 -13-Т -19 20 21-22 23-24-. . 29 -30 28 -27-26-- 25 ł 31 32 33 34 · 35 · - 36 -Purpose: To take in acreage formerly in the North Indian Hills Morrow Gas Pool plus one intervening section. Pool boundaries colored in red. Proposed extension colored in green. Section 4,5,8,9,16,17 and 20 All.

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CASE 4130: (d) ABOLISHMENT OF AN EXISTING OIL POOL (Continued on next page)

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		PURPOSE: As stated on	preceding page, par	cagraph (d), Exhibit	
		Proposed pool abolish	ent colored in blue.		
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CASE 4130: (e) EXTENSION OF VERTICAL AND HORIZONTAL LIMITS OF AN EXISTING OIL POOL (Continued on next page)

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PURPOSE:	To extend the	e vertical	limits	s of t	ne Drin	nkard Pool to include	
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						N 24: E/2	
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PURPOSE:	As stated or	preced	ing page.	paragraph	(e). Ext	ibit I.	
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3	38. Complet	ed in D	rinkard or	January	9, 1969.	Top of Per	rfora
1	ions 6599'.						<u> </u>
ADDITIONS	SOLAR OIL CO	MPANY -	Sims Fede	eral #2 in	Unit G d	of Section	<u>1-22-</u>
3	38. Complet	ed in A	bo on Febr	uary 4, 19	969. Tor	of Perfora	ation
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PURPOSE:	One complete	ed oil well ca	pable of prod	ucing.	
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### CASE 4130: (f) EXTENSION OF AN EXISTING OIL POOL (Continued on next page)





### CASE 4130: (g) EXTENSION OF AN EXISTING OIL POOL

### COUNTY LEA POOL NORTH BAGLEY-LOWER PENNSYLVANIAN TOWNSHIP 11 South RANGE NMPM 33 East 2. 6 5 10 1h 9 - 12 -17 -16 14 15 --13-20 - 21-20 23 24 1 29 28 27 26 25 **a** 33-- 34 -35 32 -36 PURPOSE: Three completed oil wells capable of producing. STOLTZ & COMPANY - Ann #1 in Unit H of Section 19-11-33, Completed in Lower Pennsylvanian on March 1, 1969. Top of Perforations 10,124'. STOLTZ & COMPANY - Christie #1 in Unit A of Section 19-11-33. Completed in Lower Pennsylvanian on March 26, 1969. Top of Perforations 10,282'. BTA OIL PRODUCERS - L.C.H. 689 Ltd. #1 in Unit F of Section 31-11-33. Completed in Strawn on March 26, 1969. Top of Perforations 10,256'. ADDITION--CHARLES B. READ - Shell State #3 in Unit C of Section 18-11-33. Completed in Strawn on April 23, 1969. Top of Perforations 10,137'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 19: NE/4 SECTION 31: N/2 ADDITION-----SECTI 18: NW/4

### CASE 4130: (h) EXTENSION OF AN EXISTING OIL POOL POOL NORTH BAGLEY-UPPER PENNSYLVANIAN COUNTY LEA NMPM 33 East RANGE TOWNSHIP 11 South 2-3 5 6 1 12 - 11 10 9 8 13-64 - 15 - 16 17 18 Ç: 24 2**β** 22 19 25 26 27 28 29 <del>30</del> 36 35 34. 33 32 31-PURPOSE: One completed oil well capable of producing. STOLTZ & COMPANY - Brenda #1 in Unit I of Section 19-11-33. Completed in Upper Pennsylvanian on March 7, 1969. Top of Perforations 9392'. ADDITION--SAM BOREN - Mathers B #1 in Unit F of Section 30-11-33. Completed in Pennsylvanian on March 11, 1969. Top of Perforations 9405'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 19: SE/4 SECTION 20: S/2 SECTION 21: S/2 ADDITION----SECTION 30; N/2

CASE 4130: (i) EXTENSION OF AN EXISTING GAS POOL <u>COUNTY LEA</u> POOL MID BELL LAKE-DEVONIAN GAS POOL TOWNSHIP 23 South RANGE 34 East NMPM

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PURPOSE: To include all dedicated acreage in the pool.

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Pool boundary colored in red.

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Proposed pool extension colored in green. SECTION 19: SW/4



### CASE 4130: (k) EXTENSION OF AN EXISTING OIL POOL COUNTY LEA POOL SOUTH EUNICE SEVEN RIVERS-QUEEN TOWNSHIP 22 South RANGE <u>36 East</u> NMPM 6 5 4 2 1 7 8 9 10 ц1 12 18 17 16 15 14 13 - interest -19 20 21 22 ł. -23 24 ¥0 29 28 27 26 25 34 32 -33. 34-35 36 PURPOSE: One completed oil well capable of producing. TEXAS PACIFIC OIL COMPANY - State "A" A/c 2 #14 in Unit B of Section 11-22-36. Completed in Seven Rivers-Queen on January 28, 1969. Top of Perforations 3420'. Pool boundary colored in red. Proposed pool extension colored in green. SECTION 11: N/2 .



### CASE 4130: (1) EXTENSION OF AN EXISTING OIL POOL

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### CASE 4130: (m) EXTENSION OF AN EXISTING OIL POOL

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### CASE-4130: (n) EXTENSION OF AN EXISTING GAS POOL

### CASE 4130: (o) EXTENSION OF AN EXISTING OIL POOL (Continued on next page)

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POOL WEST SAWYER-SAN ANDRES

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PURPOSE: One completed oil well capable of producing.

COASTAL STATES GAS PRODUCING COMPANY - Santa Fe #2 in Unit F of Section. 33-9-37. Completed in San Andres on March 10, 1969. Top of Perforations 4904'.

Pool boundary colored in red.

Proposed pool extensions colored in green. SECTION 33: NW/4 and NW/4 SW/4

ADDITIONCOASTAL STATES GAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5, Top of Perforations 4920'.	egyle is in een to the
-6   -3   -4   -3   -2   -1     -7   -8   9   10   -11   12     -18   -17   -16   15   14   -13     -19   -20   -21   -22   -23   -24     -30   -29   -28   -27   -26   -25     -31   -32   -33   -34   -35   -36     PURPOSE:   As stated on preceding page, naragraph (c), Exhibit 1.   ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U   of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.   Pool boundary colored in red.   Proposéd pool extensions colored in green. SECTION 4: W/2 NW/4	
7   -8   9   10   11   12     -18   -17   -16   -15   14   13     -19   -20   -21   -22   -23   -24     -30   -29   -28   -27   -26   -25     -31   -32   -33   -34   -35   -36     PURPOSE: As stated on preceding page, naragraph (c), Exhibit 1.   ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U   of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920".   Pool boundary colored in red.   Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	-+-
7   -8   9   10   -11   12     -18   17   -16   15   14   13     -19   20   21   22   23   24     -30   29   28   27   26   25     -31   32   -33   -34   -35   36     PURPOSE: As stated on preceding page, naragraph (c), Exhibit 1.   ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U   of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.   Pool boundary colored in red.   Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	<u> </u>
7   -8   9   10   -11   12     18   -17   16   15   14   13     -19   -20   21   22   23   24     -30   -29   -28   27   26   25     -31   -32   -33   -34   -35   36     PURPOSE: As stated on preceding page, naragraph (c), Exhibit I.   ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in II   of Section 5-10-37, Completed in San Andres on April 5, Top of Perforations 4920'.     Pool boundary colored in red.   Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
7   -8   9   10   -11   12     18   -17   16   15   14   13     -19   -20   21   22   23   24     -30   -29   -28   27   26   25     -31   -32   -33   -34   -35   36     PURPOSE: As stated on preceding page, naragraph (c), Exhibit I.   ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in II   of Section 5-10-37, Completed in San Andres on April 5, Top of Perforations 4920'.     Pool boundary colored in red.   Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
7   -8   9   10   -11   12     -18   -17   -16   -15   14   13     -19   -20   -21   -22   -23   -24     -30   -29   -28   -27   -26   -25     -31   -32   -33   -34   -35   -36     PURPOSE:   As stated on preceding page, paragraph (c), Exhibit 1.   ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in 10   of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.   Pool boundary colored in red.   Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
7   -8   9   10   -11   12     -18   -17   -16   -15   14   13     -19   -20   -21   -22   -23   -24     -30   -29   -28   -27   -26   -25     -31   -32   -33   -34   -35   -36     PURPOSE:   As stated on preceding page, paragraph (c), Exhibit 1.   ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in 10   of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.   Pool boundary colored in red.   Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
18   17   16   15   14   13     19   20   21   22   23   24     30   29   28   27   26   25     30   29   28   27   26   25     31   32   33   34   35   36     PURPOSE:   As stated on preceding page, paragraph (c), Exhibit I.   ADDITION=COASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U     of Section 5-10-37.   Completed in San Andres on April 5,     Top of Perforations 4920'.   Pool boundary colored in red.     Proposed pool extensions colored in green.   SECTION 4: W/2 NW/4	
19   20   21   22   23   24     30   29   28   27   26   25     31   32   33   34   35   36     9   28   27   26   25     9   28   27   26   25     9   29   28   27   26   25     9   31   32   33   34   35   36     9   9   28   27   26   25     9   10   10   10   10   10     9   10   10   10   10   10   10     9   10   10   10   10   10   10   10   10     9   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10   10 <t< td=""><td>1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.</td></t<>	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
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-30   -29   28   27   26   25     -31   -32   -33   -34   -35   36     PURPOSE: As stated on preceding page, paragraph (o), Exhibit I.     ADDITIONCOASTAL STATES GAS PRODUCING COMPANY - Adlong "5" #1 in U     of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.     Pool boundary colored in red.     Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
31   32   33   34   35   36     PURPOSE: As stated on preceding page, paragraph (o), Exhibit I.     ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U     of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.     Pool boundary colored in red.     Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	i ata
31   32   33   34   35   36     PURPOSE: As stated on preceding page, paragraph (o), Exhibit I.     ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U     of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.     Pool boundary colored in red.     Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	-+-
31   32   33   34   35   36     PURPOSE: As stated on preceding page, paragraph (o), Exhibit I.     ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U     of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.     Pool boundary colored in red.     Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	-+-
31   32   33   34   35   36     PURPOSE: As stated on preceding page, paragraph (o), Exhibit I.     ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U     of Section 5-10-37. Completed in San Andres on April 5.     Top of Perforations 4920'.     Pool boundary colored in red.     Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
PURPOSE: As stated on preceding page, paragraph (o), Exhibit I. ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5. Top of Perforations 4920'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	-
PURPOSE: As stated on preceding page, paragraph (o), Exhibit I. ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5. Top of Perforations 4920'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
PURPOSE: As stated on preceding page, paragraph (o), Exhibit I. ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5. Top of Perforations 4920'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
PURPOSE: As stated on preceding page, paragraph (o), Exhibit I. ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5. Top of Perforations 4920'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	-+
ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5. Top of Perforations 4920'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	,
ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5. Top of Perforations 4920'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
ADDITIONCOASTAL STATES CAS PRODUCING COMPANY - Adlong "5" #1 in U of Section 5-10-37. Completed in San Andres on April 5, Top of Perforations 4920'. Pool boundary colored in red. Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	
Proposed pool extensions colored in green. SECTION 4: W/2 NW/4	Unit
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### CASE 4130: (p) EXTENSION OF AN EXISTING OIL POOL

## COUNTY CHAVES POOL SIETE-SAN ANDRES

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CASE 4130: (q) EXTENSION OF AN EXISTING OIL POOL

### 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. 4130 ORDER NO. R- 3758

THE APPLICATION OF THE OIL CONSERVATION COMMISSION UPON ITS OWN MOTION FOR AN ORDER CREATING, ABOLISHING, AND EXTENDING VERTICAL AND HORIZONTAL LIMITS OF CERTAIN POOLS IN CHAVES, EDDY, LEA, AND ROOSEVELT COUNTIES, NEW MEXICO.

### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

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This cause came on for hearing at 9:00 a.m. on May 14, 1969, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission".

NOW, on this day of May, 1969, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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 there is need for the creation of a new gas pool in Eddy County; New Mexico, for the production of gas from the Morrow formation, said pool to bear the designation of Logan Draw-Morrow Gas Pool. Said Logan Draw-Morrow Gas Pool was discovered by the Pan American Petroleum Corporation Trigg Federal Gas Com Well No. 1, located in Unit P of Section 34, Township 17 South, Range 27 East, NMPM. It was completed in the Morrow formation on January 21, 1969. The top of the perforations is at 9626 feet.

(3) That there is need for the consolidation of the North Indian Hills - Morrow (105 Pool and the Indian Basin - Morrow Cras Pool inspuch as both pools produce from the same common source of supply Said consolidation to be accomplished by the abolishment of the North Indian Hills - Morrow Gas Pool and the extension of the Indian Basin - Morrow Gas Pool

(4) That the proposed consolidation of the Wantz - Abo Pool and the Drinkard Pool Lea County, New Mexico, should be continued to the July 16, 1969 hearing pending further study.

(5) That the proposed extension of the vertical entire Allo County, New Mexico. to include 1rinkar edesignate said pool as hearing pendin Phê 1969 Continueo Study ur ther

IT IS THEREFORE ORDERED: Valy 16, 1969 hearing pending further Study:

(a) That a new pocl in Eddy County, New Mexico, classified as a gas pool for Morrow production, is hereby created and designated as the Logan Draw-Morrow Gas Pool, consisting of the following described area:

> TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM SECTION 34: W/2

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(b) That the North Indian Hills-Morrow Gas Pool in Eddy County, New Mexico, consisting of the following described area:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, MMPM

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SECTION 5:	A11
SECTION 8:	A11
SECTION 9:	A11
SECTION 16:	A11
SECTION 17:	All

is hereby abolished.

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(c) That the Indian Basin-Morrow Gas Pool in Eddý County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM SECTION 4: All SECTION 5: All SECTION 8: All SECTION 8: All SECTION 9: All SECTION 16: All SECTION 17: All SECTION 20: All yroposed abelistment of the

(d) That the Wantz-Abo Pool in Lea County, New Mexico, consisting of the following described prea:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM SECTION 2: Lots 11, 12, 13, 14 and S/2 SECTION 3: \$/2 SECTION 4: Lots 15 and 16 and S/2SECTIONS 10 AND 11: All SECTION 12: W/2SECTION 13: NE/4 and W/2 SECTIONS 14 AND 15: All NE/4 and W/2SE/4 SECTION 16 SECTION 21: NE/4 and S/2SECTIONS 22, 23, AND 24: All SECTION 25: NW/4 SECTIONS 26, 27, AND 28: All SECTION 29: F/2 NE/4 SECTION 33: A11 SECTION 35: W/2 and NE/4SECTION 36: NW/4 TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM SECTION 19: N/2 TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM

SECTION 2: All SECTION 4: E/2 and NW/4

is hereby abolished. continued to July 16, 1969.

(e) That the proposed extension of the vertical limits and redesignation of the Drink and Pool, Lea County, New Mexico, and the proposed extension of the horizontal limits of said pool to include Merein :

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM SECTION 1: S/2 SECTION 4: Lots 13, 15 and 16 SECTION 12: SW/4 SECTION 24: E/2 SECTION 25: E/2

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(e) Extension to Drinkard Drinkard-Abo Pool Continued:

TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM SECTION 6: SW/4 SECTION 18: NW/4 SECTION 19: N/2

TOWNSHIP 22 SOUTH, RANGE 38 EAST, NMPM SECTION 6: SE/4 SECTION 7: NE/4

is hereby continued to July 16, 1969

(f) That the Middle Allison-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM SECTION 30: SW/4

**TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM** SECTION 1: NW/4

TOWNSHIP 9 SOUTH, RANCE 36 EAST, NMPM SECTION 8: E/2

(g) That the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 18: NW/4 SECTION 19: NE/4 SECTION 31: N/2

(h) That the North Bagley-Upper Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

	TOWNSHII	p 11	SOUTH,	RANGE	33	EAST,	NMPM
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	SECTION	20:	S/2				
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(i) That the Mid Bell Lake-Devonian Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM SECTION 19: SW/4

(j) That the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM SECTION 5: SE/4

(k) That the South Eunice Seven Rivers-Queen Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM SECTION 11: N/2

(1) That the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 11 SOUTH, RANGE 34 EAST, NAPM SECTION 8: NE/4 and SW/4

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(m) That the South McCormack-Silurian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

### TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM SECTION 16: SE/4

(n) That the Osudo-Atoka Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

### TOWNSHIP 20 SOUTH, RANGE 35 EAST, NMPM SECTION 25: NW/4

(o) That the West Sawyer-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM SECTION 33: NW/4 and NW/4 SW/4

TOWNSHIP 10 SOUTH, RANGE 37 EAST, NMPM SECTION 4: W/2 NW/4 SECTION 5: NE/4

(p) That the Siete-San Andres Pool in Chaves County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

> TOWNSHIP 8 SOUTH, RANGE 31 EAST, NMPM SECTION 16: NW/4 SECTION 20: SE/4 SECTION 29: NE/4

(q) That the Todd-Lower San Andres Pool in Roosevelt County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

### TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM SECTION 32: NE/4

### IT IS FURTHER ORDERED:

That the effective date of this order and all creations, abolishments, and extensions of vertical and horizontal limits included herein shall be June 1, 1969.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

#### ALEX ARMIJO; Member

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

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addition to paragraph (a) That the discovery well for said pool, Hztec Oil and Gas Company's State "DS" Well Wol, Ibcated in Unit Not Section 24, Township 17 S, Range 36 East, NMPM, is hereby authorized an oil discovery allowable of 24,940 barrels be assigned to said well at the rate of 35 barrels per day. In accordance with Rale 509 of the Commission Rules and Regulations. (b) That the discovery well for said pool, Union Oil Company of California's Tracy Well No. 1, Vocaled in Unit C of Section Township 27 South, Range 27 East; NMPM, is hereby authorized an oil discovery allowable of 17,085 barrels to be assigned to said well at the rate of 24 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations. East, WAIPM south, Range dinanoT AJUNOJ 100J