

CASE 4108: Application of HUMBLE  
OIL & REFINING CO. FOR THE  
REDEDICATION OF ACREAGE, LEA CO.

Case Number.

4108

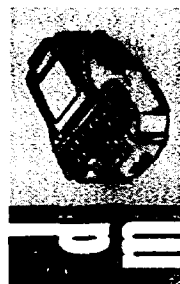
---

Application

Transcripts.

Small Exhibits

ETC.



dearnley-meier reporting service, inc.

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

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6491 • ALBUQUERQUE, NEW MEXICO

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
April 23, 1969

EXAMINER HEARING

-----  
IN THE MATTER OF:

Application of Humble Oil and Refining Company for the rededication of acreage, Lea County, New Mexico. ) Case No. 4108

-----  
BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Case 4108.

MR. HATCH: Case 4108. Application of Humble Oil and Refining Company for the rededication of acreage, Lea County, New Mexico.

MR. HINKLE: Clarence Hinkle, Hinkle, Bondurant and Christy appearing on behalf of Humble. We have one witness and several exhibits.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 5 were marked for identification.)

MR. UTZ: Are there other appearances?

You may proceed.

B. K. BEVILL

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

DIRECT EXAMINATION

BY MR. HINKLE:

Q State your name, your residence and by whom you are employed.

A B. K. Bevill, Humble Oil and Refining Company, Hobbs, New Mexico.

Q What is your position with Humble?

A Senior production engineer.

Q Have you previously testified before the Oil Conservation Commission?

A Yes, I have.

Q Your qualifications as petroleum engineer are a matter of record with the Commission?

A Yes, sir.

Q Are you familiar with the application of Humble in this case?

A Yes, sir.

Q What is Humble seeking to accomplish by this application?

A Humble is requesting 160 acre dedication to two Tubb gas wells to be -- so that either well can be produced in any proportion.

Q In the Tubb pool?

A In the Tubb pool.

Q Have you prepared or has there been prepared under your direction certain exhibits for introduction

in this case?

A Yes, sir.

Q Refer to Exhibit No. 1 and explain what this is and what it shows.

A Exhibit No. 1 is a plat of the area. Humble's New Mexico State V lease is colored in yellow; the two wells in question are encircled in red. The other wells circled in green are other outlined Tubb gas wells.

Q What is the present status of the two wells on the 160 acres?

A New Mexico State "V" 11 is presently a dual Tubb gas Blinbry oil well. The Tubb gas well is marginal. New Mexico State V 5 is presently completed in the wantz-abo pool. At present it is below the economic limit and is shut in.

MR. UTZ: It's a single completion?

THE WITNESS: Yes, sir.

Q (By Mr. Hinkle) Now, refer to Exhibit 2 and explain what this is and what it shows.

A Exhibit 2 is a dedication plat. It shows the two wells in question, well number 11, well number 5 with their distances from lease lines. Outlined in red is the 160 acres that we propose to dedicate to both well number 11 and well number 5. At present, well number 11 has 120 acre dedication which leaves out the southeast quarter of that 160. That is due to a Tubb oil well which has been abandoned in that block. Now, we want that acreage dedicated back to gas.

Q Has that oil well been plugged?

A No, sir, it was recompleted as a Blinebry oil well.

Q Now, refer to Exhibit 3 and explain what this shows.

A Exhibit 3 is a schematic. On the left it shows the present completion of State V 5. Originally, it was completed as a hair producer which was an Ellenburger well. That was plugged back and completed from 6940 to 7206, the wantz-abo where the well is now open. On the right is our proposed completion. We propose to set a cement -- cast iron bridge plug at approximately 6800 feet and place

a cement cap on it, then perforate in the Tubb gas zone from 6170 to approximately 6220 for Tubb gas completion.

Q Now, refer to Exhibit 4 and explain what this shows.

A Exhibit 4 is an electric log of the section.

Q In what well?

A In New Mexico State V number 5. It shows the present completion in the wantz-abo. It gives the abo top; gives the drinkard top and the Tubb top and also the Blinebry top.

Q Refer to Exhibit 5; explain what this shows.

A Exhibit 5 is the last test taken on New Mexico State V 11. It is a minimum contract test that was taken by El Paso Natural Gas. You will note down in the lower corner the well was capable of 162,000 cubic feet at a tubing -- flowing tubing pressure of 389 pounds.

Q I believe you testified that the present Tubb gas well number 11 is not capable of making its allowable, if 160 acres is dedicated?

A That is correct.



Q Do you anticipate that by completion of the other well the two wells together will be capable of making the allowable for 160 acres?

A Yes, sir.

Q Is there anything else that you would like to refer to or testify to?

A No, sir, I have nothing further to add.

MR. HINKLE: We would like to offer in evidence Exhibits 1 through 5.

MR. UTZ: Without objection, Exhibits 1 through 5 will be entered into the record of this case.

CROSS EXAMINATION

BY MR. UTZ:

Q The number 11 well is present time a marginal well, I presume?

A It is a marginal well and it's a dual completion, which makes it very difficult.

Q Producing Blinbry oil through tubing?

A Both zones are producing through tubing, two strings of 2 and 1/16 inch tubing.

Q It's my understanding that the southeast of the southwest quarter you will have a Blinebry oil well?

A That is a Blinebry oil well already on that. It originally was a Tubb oil well which became marginal and we recompleted in the Blinebry oil.

Q Now, I notice another well or a location up in the northwest part of this quarter section. What's that well?

A Number 12?

Q That's right.

A That is a Blinebry oil well.

Q We discussed all the wells in this quarter section, then?

A This is an extremely multiple --

Q Eleven and 5 we have discussed them and then you have a Blinebry oil well and the other two off-setting 40 acres --

A Yes, sir.

Q -- is that all?

A That's correct.

Q This isn't productive of Blinebry gas at all then?

A Yes, sir. We don't have any Blinebry gas wells on there right now, due to all of them being Blinebry oil wells, but it is productive.

Q But, you are not producing it?

A No, sir.

Q You have no idea what kind of a well you are going to get on this recompletion?

A No, sir. We hope to get a good one, though.

MR. UTZ: Any other questions of the witness?

He will be excused.

Statements in this case? The case will be taken under advisement.

I N D E XWITNESSPAGE

B. K. BEVILL

Direct Examination by Mr. Hinkle

2

Cross Examination by Mr. Utz

7

EXHIBITMARKEDOFFERED AND  
ADMITTEDApplicant's 1  
through 5

2

7

Witness my Hand and Seal this 2nd day of May, 1969.

*Glenda Burks*  
NOTARY PUBLIC

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 4103 heard by me on April 23, 1969.

[Signature] Examiner  
New Mexico Oil Conservation Commission



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. 4108  
Order No. R-3742

APPLICATION OF HUMBLE OIL & REFINING  
COMPANY FOR THE REDEDICATION OF ACREAGE,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 23, 1969,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 28th day of April, 1969, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

- (1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.
- (2) That the applicant, Humble Oil & Refining Company, is  
the operator of the New Mexico "V" State Wells Nos. 5 and 11,  
located, respectively, in Units M and K of Section 10, Township  
21 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That a non-standard gas proration unit in the Tubb Gas  
Pool comprising the N/2 SW/4 and the SW/4 SW/4 of said Section 10  
is presently dedicated to said Well No. 11, a marginal well.
- (4) That said Well No. 5 has been recently recompleted as  
a Tubb gas producer and is presently shut-in.
- (5) That the SE/4 SW/4 of said Section 10 was formerly  
dedicated to a well producing from the Tubb Oil Pool, but said  
well has been abandoned in the Tubb zone.

-2-

CASE No. 4108

Order No. R-3742

(6) That the applicant seeks to form a standard 160-acre gas proration unit in the Tubb Gas Pool comprising the SW/4 of said Section 10, said unit to be simultaneously dedicated to its aforesaid New Mexico "V" State Wells Nos. 5 and 11.

(7) That the applicant further seeks authority to produce the allowable assigned to the unit from either of the aforesaid wells in any proportion.

(8) That the proposed standard gas proration unit can be efficiently and economically drained and developed by said Wells Nos. 5 and 11.

(9) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the Tubb Gas Pool, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That, effective May 1, 1969, a 160-acre standard gas proration unit in the Tubb Gas Pool comprising the SW/4 of Section 10, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, is hereby established and simultaneously dedicated to the Humble Oil & Refining Company "V" State Wells Nos. 5 and 11, located, respectively, in Units M and K of said Section 10.

(2) That the allowable assigned to the above-described gas proration unit shall be based upon the unit size of 160 acres and that the operator may produce the allowable assigned to the unit from the subject wells in any proportion.

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

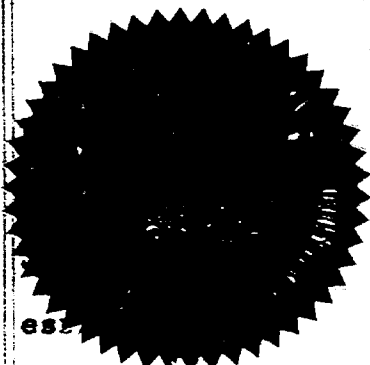
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

DAVID E. CARGO, Chairman

ALEX J. ARMILLO, Member

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





Case 4108

Heard 4-23-69

Sec. 4-24-69

Grant Humble a 160 Ac  
2 well Subt production  
unit consisting of the SW 1/4  
sec. 10 - 21-37 E. The following  
wells shall be the unit wells.

(a)  
Humble - G. Mer. 'V' Lt. #5

11-10-21-37

Humble - G. Mer. 'V' Lt. #11

11-10-21-37.

This well is a Heavy Oil.  
Subt-Har. Blenchy Oil.

Thos. A. [Signature]

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 23, 1969

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

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 4079: (Continued from the March 26, 1969, Examiner Hearing)  
Application of Robert B. Holt for the creation of a new pool, assignment of a discovery allowable, and the promulgation of special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Middle Pennsylvanian oil pool for his Aztec State Well No. 2 located in Unit A of Section 26, Township 13 South, Range 32 East, Lea County, New Mexico, and for the assignment of an oil discovery allowable in the amount of approximately 48,715 barrels to said well. Applicant further seeks the promulgation of special pool rules for said pool, including a provision for 160-acre proration units and the assignment of 80-acre allowables.
- CASE 4106: Application of Southland Royalty Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Permo-Pennsylvanian formation in the perforated interval from approximately 9485 feet to 9713 feet in its Guye Well No. 4 located in Unit F of Section 12, Township 11 South, Range 33 East, Inbe Permo-Pennsylvanian Pool, Lea County, New Mexico.
- CASE 4107: Application of Coastal States Gas Producing Company for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the West Sawyer-San Andres Pool, Lea County, New Mexico, including a provision for 80-acre spacing and proration units.
- CASE 4108: Application of Humble Oil & Refining Company for the rededication of acreage, Lea County, New Mexico. Applicant, in the above-styled cause, seeks to recomplete its New Mexico "V" State Well No. 5, a non-commercial Wantz-Abo oil producer, to a Tubb gas producer and to consolidate the 40 acres presently dedicated to said well with the 120 acres presently dedicated to its New Mexico "V" State Well No. 11, a Tubb gas producer, to form a standard 160-acre proration unit comprising the SW/4 of Section 10, Township 21 South, Range 37 East, Tubb Gas Pool, Lea County, New Mexico. Applicant further seeks authority to produce the allowable assigned to said unit from either of said wells in any proportion.
- CASE 4109: Application of Humble Oil & Refining Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the South Lea Unit Area comprising 8,324.16 acres, more or less, of State, Federal, and Fee lands in Township 26 South, Range 36 East, Lea County, New Mexico.

- CASE 4110: Application of Atlantic-Richfield Company for a waterflood project and unorthodox injection well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot waterflood project by the injection of water into the Queen formation through one well to be drilled at an unorthodox location 100 feet from the North and West lines of Section 23, Township 18 South, Range 31 East, Shugart Pool, Eddy County, New Mexico.
- CASE 4111: Application of Tenneco Oil Company for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Morton Federal Well No. 1, located in Unit A of Section 12, Township 9 South, Range 35 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Vada-Pennsylvanian Pool and the disposal of produced salt water through the intermediate casing-production casing annulus into the San Andres, Abo and possibly other formations in the open-hole interval from approximately 4050 feet to 8120 feet.
- CASE 4112: Application of P-M Drilling Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware formation in the perforated interval from approximately 5062 feet to 5100 feet in its James Federal Well No. 1 located in Unit A of Section 35, Township 23 South, Range 32 East, Triste Draw-Delaware Pool, Lea County, New Mexico.
- CASE 4113: Application of Texas Pacific Oil Company for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks to substitute its State "D" A/c-1 Well No. 1 located in Unit A of Section 2, Township 12 South, Range 33 East, in lieu of its State "C" A/c-1 Well No. 1 located in Unit B of said Section 2 as the producing well for the proration unit comprising the N/2 NE/4 of said Section 2, Bagley-Siluro-Devonian Pool, Lea County, New Mexico.
- CASE 4114: Application of Gulf Oil Corporation for two unorthodox oil well locations and amendment to Order No. R-2729, Lea County, New Mexico. Applicant in the above-styled cause, seeks authority to drill two producing oil wells at unorthodox locations in Township 19 South, Range 35 East, as infill wells in the West Pearl Queen Unit Waterflood Project, Pearl Queen Pool, Lea County, New Mexico, said wells to be located as follows:

West Pearl Queen Unit Well No. 164 to be located 1325 feet from the North line and 2635 feet from the West line of Section 32;

West Pearl Queen Unit Waterflood Well No. 165 to be located 1420 feet from the South line and 1325 feet from the West line of Section 29;

(Case 4114 continued)

Applicant also seeks the amendment of Order No. R-2729, which order authorized the aforesaid waterflood project, to establish a procedure whereby additional injection wells and producing wells at unorthodox infill locations, as may be necessary to complete an efficient injection and producing pattern, may be approved administratively.

CASE 4115: Application of Southern Union Production Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 16, Township 29 North, Range 9 West, Basin-Dakota Pool, San Juan County, New Mexico. Said acreage to be dedicated to a well to be drilled at a standard location in the W/2 of said Section 16. 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.

CASE 4116: Application of Tesoro Petroleum Corporation for the amendment of Order No. R-2797 and for the extension of the South Hospah-Upper Sand Pool, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-2797, which order approved the Hospah Unit Agreement, to delete from said unit agreement 233.87 acres in the Southeast portion of Section 1, Township 17 North, Range 9 West, McKinley County, New Mexico. Applicant also seeks the extension of the South Hospah-Upper Sand Pool to include a portion of the Southeast quarter of said Section 1.

CASE 4117: Application of Eastern Petroleum Company for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Rattlesnake-Dakota Pool, San Juan County, New Mexico, permitting the drilling of wells on 2½-acre spacing provided that no well be located nearer than 50 feet to the outer boundary of the quarter-quarter section and no nearer than 165 feet to another well producing from the same pool, and provided further, that a 40-acre proration unit would be subject to a 40-acre allowable regardless of the number of wells on the unit.

CASE 4118: Application of Dugan Production Corporation for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle gas production from undesignated Fruitland and Pictured Cliffs gas pools in the well-bore of its Federal "I" Well No. 4, located in the NE/4 NW/4 of Section 1, Township 29 North, Range 14 West, San Juan County, New Mexico.

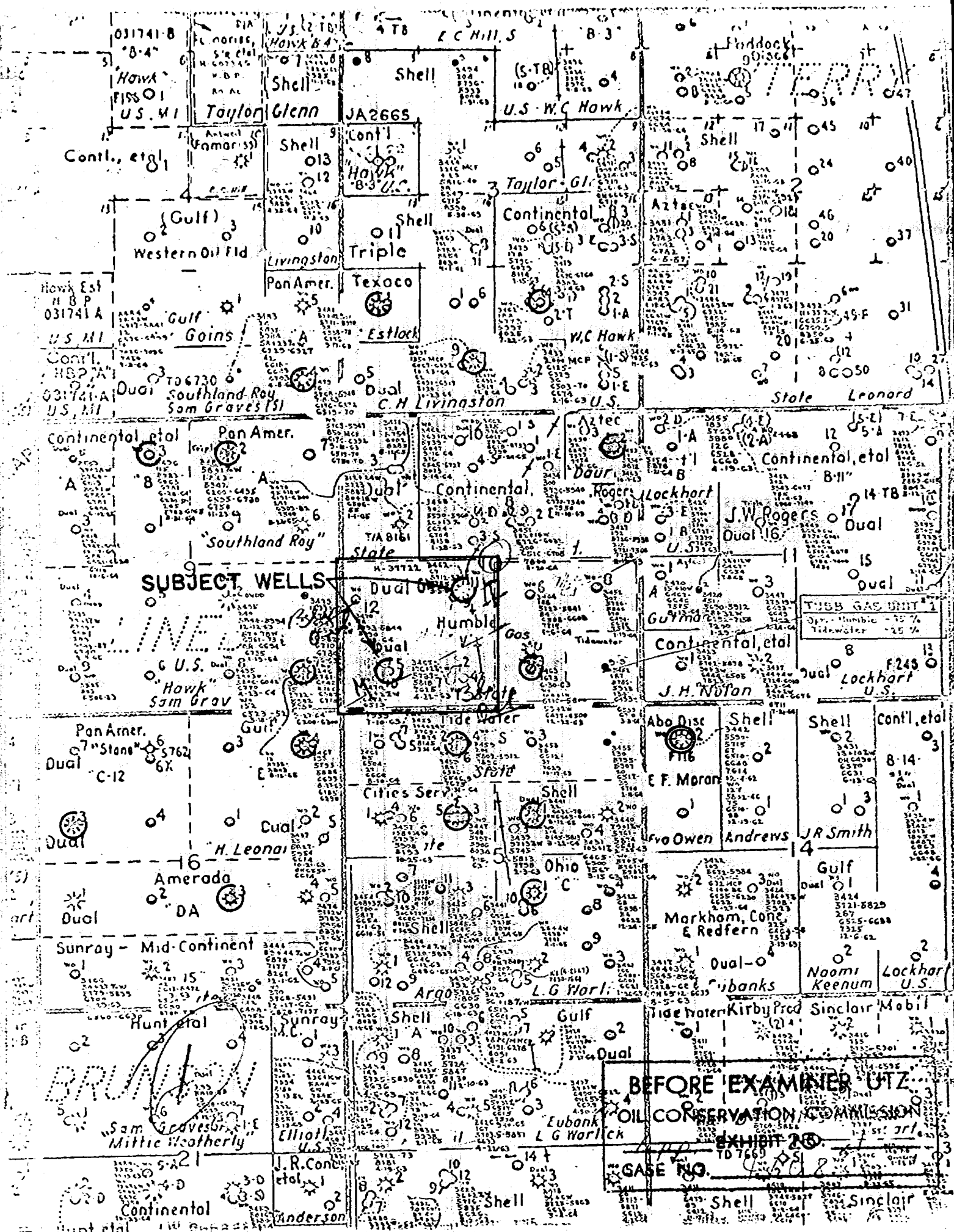
CASE 4096: (Continued from the April 3, 1969, Examiner Hearing)

Application of Kersey & Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority

to institute a waterflood project by the injection of water into the Seven Rivers formation through four wells located in Units C, D, and F of Section 25, Township 17 South, Range 28 East, Aird (Yates-Seven Rivers) Pool, Eddy County, New Mexico.

CASE 4078: (Continued from the April 9, 1969, Examiner Hearing)

Application of J. Gregory Merrion for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Devils Fork-Gallup Pool and an undesignated Mesaverde oil pool in the well-bore of his NCRA State Well No. 3 located in Unit L of Section 16, Township 24 North, Range 6 West, Rio Arriba County, New Mexico.



**MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-4-65

All distances must be from the outer boundaries of the Section.

Operator <b>Humble Oil &amp; Refining Company</b>			Lease <b>New Mexico "V" State</b>		Well No. <b>5</b>
Unit Letter <b>M</b>	Section <b>10</b>	Township <b>21-S</b>	Range <b>37-E</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>660</b> feet from the <b>South</b> line and <b>810</b> feet from the <b>West</b> line					
Ground Level Elev. <b>3458</b>	Producing Formation <b>Abo</b>		Pool <b>Wantz Abo</b>		Dedicated Acreage <b>40</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

	<b>CERTIFICATION</b>	
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
	Name _____	
	Position _____	
<div align="center"> <b>BEFORE EXAMINER UTZ</b>  <b>OIL CONSERVATION COMMISSION</b>  <i>App.</i> EXHIBIT NO. <b>2</b>  CASE NO. <b>14108</b> </div>	Company _____	
	Date _____	
	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.	
	Date Surveyed _____	
Registered Professional Engineer and/or Land Surveyor		Certificate No. _____
0 320 640 960 1280 1600 1920 2240 2560 2880 3200 3520 3840 4160 4480 4800 5120 5440 5760 6080 6400		

HUMBLE OIL & REFINING COMPANY  
NEW MEXICO "V" STATE 5

Present  
Completion

Proposed  
Completion

8-5/8" @ 3100'

6170' - 6220'  
Tubb Gas

6800' C.I. Plug W/Cmt. Cap

6940' - 7206'  
Wantz Abo

Top Cmt. Plug - 7700'  
8102' - 8123'  
Hare, *Edinburgh*

T.D. 8403' - 5-1/2" Csg.

BEFORE EXAMINING  
OIL CONSERVATION CO.  
*App.* EXHIBIT NO. 3  
CASE NO. 4108

3



MINIMUM CONTRACT TEST  
Form 15-20 (10-67)

Company <b>Humble Oil and Refining Company</b>					Lease <b>N. H. State V No. 11 (Tubb)</b>		
Sec. <b>K</b>	Twp. <b>10</b>	Rge. <b>21</b>	County <b>Lea</b>	Pool <b>Tubb</b>			
Type Well <b>G. G. Dual</b>		Producing Thru <b>X</b>		Casing <b>X</b>	Top of Pay <b>6108</b>	Bar. Pressure <b>13.2</b>	Compressor <b>On</b>
Date of Previous Minimum Contract Test <b>7-5-68</b>		n <sub>1</sub> of Previous Back Pressure Test <b>1.000</b>		Gravity <b>.690</b>	Meter Sta. No. <b>61-068</b>	Acre Factor <b>.75</b>	

FLOW DATA					FLOWING PRESSURES, PSIA		DURATION OF FLOW HOURS
Prover Line Size	X Choke Orifice Size	Static Pressure Psig.	Diff. h <sub>w</sub>	Temp. °F	Tubing	Casing	
		299			389.2		24

VOLUME CALCULATIONS

Coefficient (24 - Hour)	$\sqrt{h_w P_m}$	Pressure Psia.	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Super Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15,025 Psia.
						1.19

VOLUME INTEGRATED BY MAIN OFFICE

$$D_1 = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_t^2} \right]^{n_1}$$

P <sub>t</sub>	Temp. R	T <sub>r</sub>	Z

SHUT-IN DATA, PSIA

DURATION	TUBING	CASING
24 Hour	695.2	
48 Hour	718.2	
72 Hour	725.2	

ITEM	SOURCE	113.2	263.2	613.2	863.2
1	P <sub>c</sub> <sup>2</sup>	525.3			
2	P <sub>d</sub> <sup>2</sup>	12.8			
3	P <sub>t</sub> <sup>2</sup>	151.5			
4	P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	513.1			
5	P <sub>c</sub> <sup>2</sup> - P <sub>t</sub> <sup>2</sup>	374.4			
6	B	1.370			
7	Log 6				
8	n <sub>1</sub>	1.000			
9		7 x 8			
10	B <sup>n<sub>1</sub></sup>	Antilog 9	1.370		
11	Q-MCF/D		1.19		
12	D <sub>1</sub>	10 x 11	163		

BEFORE EXAMINER UTZ  
OIL CONSERVATION COMMISSION

App. EXHIBIT NO. 5  
CASE NO. 4108

Witnessed By: (Name)

Company:

Tested By:

J. B. Murray

Calculated By:

J. B. Murray

- n<sub>1</sub> = Slope of Wellhead Deliverability Curve (P<sub>c</sub><sup>2</sup> - P<sub>t</sub><sup>2</sup> vs Q)  
Q = Actual flow @ end of Flow Period at Wellhead Press., P<sub>t</sub>  
P<sub>c</sub> = Maximum Shut-in Pressure, Psia Observed in a 72 Hour Period  
P<sub>t</sub> = Flowing Wellhead Pressure (tubing if flowing thru tubing and vice versa), Psia  
P<sub>d</sub> = Deliverability Pressure, Psia  
D<sub>1</sub> = Wellhead Deliverability @ Deliverability Pressure (P<sub>d</sub>), MCF/Day

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 28, 1969

*Case 4108*

Humble Oil & Refining Company  
Post Office Box 1600  
Midland, Texas 79701

**DOCKET NUMBER**

**4-10-69**

Attention: Mr. L. H. Boyd

Re: Conversion of Humble "V" State  
Well No. 5, Section 10, Town-  
ship 21 South, Range 37 East,  
Lea County, New Mexico, to a  
Tubb gas well

Gentlemen:

As the proposed unit is to have two gas wells  
and the allowable to be produced from the wells in  
any proportion, it will be necessary for the matter  
to be set for hearing. Unless objection is received,  
it will be set for the last examiner hearing in  
April.

Very truly yours,

GEORGE M. HATCH  
Attorney

GMH/esr

C  
O  
P  
Y

One well has a  
new standard location  
to set for hearing -

# HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS 79701

March 20, 1969

PRODUCTION DEPARTMENT

SOUTHWESTERN DIVISION

L. H. BYRD  
MANAGER

POST OFFICE BOX 1600

*Case 4108*

New Mexico "V" State 5  
Conversion to Tubb Gas Well

*mg*

Mr. A. L. Porter, Jr., Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Sir:

Humble Oil & Refining Company respectfully requests administrative approval to convert New Mexico "V" State 5, a noncommercial Wantz Abo oil producer, to a Tubb gas producer. It is requested that the 160-acre unit comprising the SW/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico, be allocated to wells New Mexico "V" State 5 and 11 with permission to produce either well in any proportion. Presently, New Mexico "V" State 11, a Tubb gas well, has a 120-acre allocation comprising the N/2 of the SW/4 and the SW/4 of the SW/4 of Section 10. Since the 40 acres comprising the SE/4 of the SW/4 of Section 10 no longer has Tubb oil allocation, it is eligible for Tubb gas allocation.

Yours very truly,

*L. H. Byrd*  
L. H. Byrd

HNR/aw  
Attachment

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

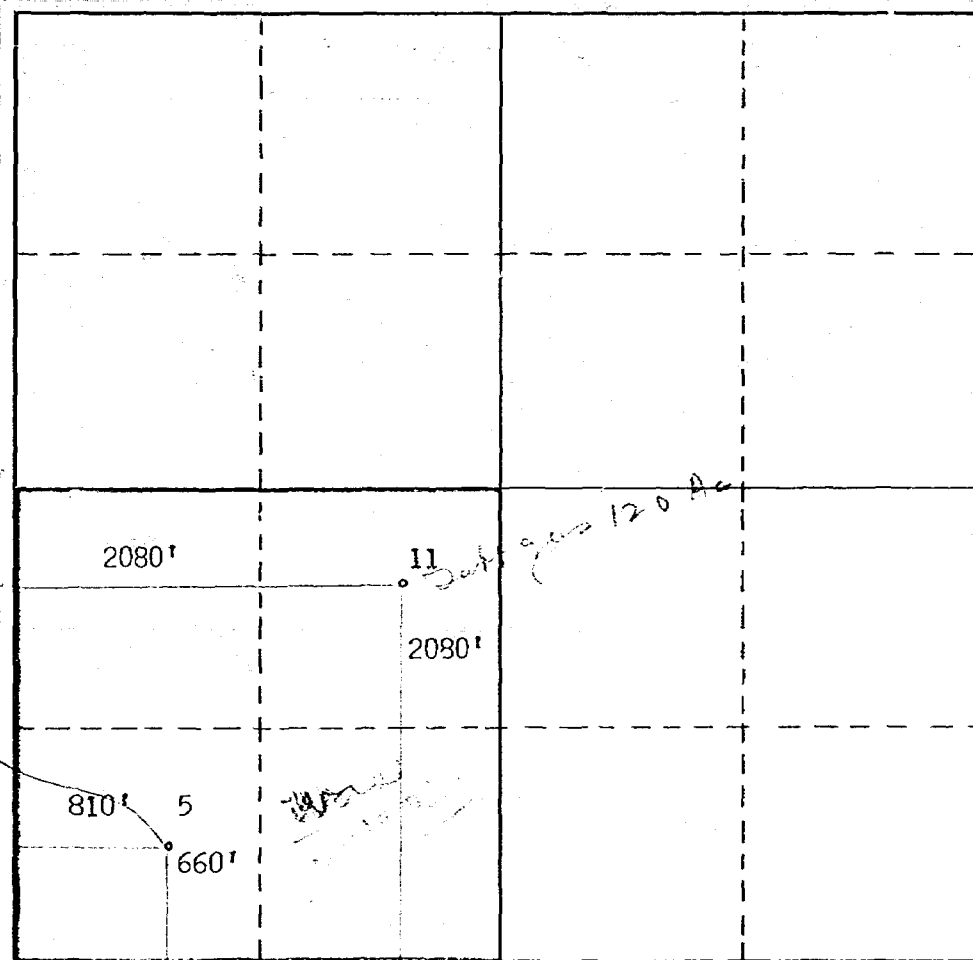
Operator Humble Oil & Refining Company		Lease New Mexico "V" State		Well No. 5
Unit Letter M	Section 10	Township 21-S	Range 37-E	County Lea
Actual Footage Location of Well: 660 feet from the South line and 810 feet from the West line				
Ground Level Elev. 3458	Producing Formation Abo	Pool Wantz Abo	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *J. P. Robertson*  
Position: *Executive Super.*  
Company: *H. O. & L. Co.*  
Date: *3-25-69*

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

Case 4108

DRAFT

GMH/esr  
April 24, 1969

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. 4108

Order No. R-3742

APPLICATION OF HUMBLE OIL & REFINING  
COMPANY FOR THE REDEDICATION OF ACREAGE,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 23, 1969,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this        day of April, 1969, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Humble Oil & Refining Company, is  
the operator of the New Mexico "V" State Wells Nos. 5 and 11,  
located, respectively, in Units <sup>M</sup>~~K~~ and <sup>K</sup>~~M~~ of Section 10, Township  
21 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That a non-standard gas proration unit in the Tubb Gas  
Pool comprising the N/2 SW/4 and the SW/4 SW/4 of said Section 10  
is presently dedicated to said Well No. 11, a marginal well.

(4) That said Well No. 5 has been recently recompleted as  
a Tubb gas producer and is presently shut-in.

(5) That the SE/4 SW/4 of said Section 10 was formerly  
dedicated to a well producing from the Tubb Oil Pool, but said  
well has been abandoned in the Tubb zone.

(6) That the applicant seeks to form a standard 160-acre gas proration unit in the Tubb Gas Pool comprising the SW/4 of said Section 10, said unit to be simultaneously dedicated to its aforesaid New Mexico "V" State Wells Nos. 5 and 11.

(7) That the applicant further seeks authority to produce the allowable assigned to the unit from either of the aforesaid wells in any proportion.

(8) That the proposed standard gas proration unit can be efficiently and economically drained and developed by said Wells Nos. 5 and 11.

(9) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the Tubb Gas Pool, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That, effective May 1, 1969, a 160-acre standard gas proration unit in the Tubb Gas Pool comprising the SW/4 of Section 10, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, is hereby established and simultaneously dedicated to the Humble Oil & Refining Company "V" State Wells Nos. 5 and 11, located, respectively, in Units <sup>M</sup>~~X~~ and <sup>K</sup>~~X~~ of said Section 10.

(2) That the allowable assigned to the above-described gas proration unit shall be based upon the unit size of 160 acres and that the operator may produce the allowable assigned to the unit from the subject wells in any proportion.

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

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