OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

April 6, 1966

Tesoro Petroleum Corporation 533 Busby Drive San Antonio, Texas 78209

Attention: Mr. G. M. Andreen

Gentlemen:

Reference is made to your letter of March 17, 1966, concerning the maximum allowable which your Hospah Unit Waterflood Project will be eligible to receive under the provisions of Rule 701-E.

The maximum allowable, assuming eight injection tracts, 14 producing tracts, and 21 extra producing wells, would be 2030 barrels. No credit, other than a standard 40-acre allowable of 70 barrels, can be given to the six wells in Unit N of Section 36, inasmuch as these wells technically are not in the waterflood project area because this 40-acre tract does not directly nor diagonally offset a 40 with an injection well on it. (These wells will be shown in the lower portion of your monthly Form C-120.) Nor can credit be given the three shut-in wells until such time as they are restored to production.

Requests for allowable and allowable changes, subject to the above maximum, may be made whenever necessary by letter to Aztec office.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE. NEW MEXICO

-2-

April 6, 1966

Tesoro Petroleum Corporation San Antonio, Texas

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behaves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/DSN/esr

cc: Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico TESORO PETROLEUM CORPORATION

533 Busby Drive

512-TAYLOR 4-0261

SAN ANTONIO, TEXAS 78209

MR L. M 9 43

March 17, 1966

State of New Mexico
Oil Conservation Commission
State Land Office Building
Santa Fe, New Mexico



Attention Mr. A. L. Porter, Jr., Secretary-Director

Re: Waterflood Allowable, Hospah Sand Unit, Hospah Field, McKinley County, New Mexico

Gentlemen:

By Oil Conservation Commission Order No. R-2807, dated November 24, 1964, Tésoro Petroleum Corporation was granted permission to install a waterflood on approximately 1,400 unitized acres in the Hospah Field. By Order No. R-3040, dated February 9, 1965, Order No. R-2807 was modified insofar as the location of certain new injection and producing wells were concerned. Insofar as is known, all of the necessary approvals have been obtained for waterflooding the Hospah Sand Unit, and it is now possible to reclassify the Hospah Sand Unit from a prorated to a waterflood status and to establish the allowable for the waterflood project.

By letter dated December 1, 1964, from your office to Mr. Richard S. Morris, of Seth, Montgomery, Federici & Andrews, in Santa Fe, New Mexico, Tesoro was advised that the Conservation Commission calculated the maximum allowable for the Hospah Sand Unit at 1,938 barrels per day. In the last part of 1964 during the development phase of creating the facilities necessary to waterflood the project area, three new producing wells and eight new injection wells were drilled. As of January 1, 1966 there were 44 wells capable of production (three of which were shut in), eight water-injection wells and one water-supply well in the Hospah Sand Unit. Enclosed is a list of the locations of all the producing and injection wells.

We are not quite sure how Rule No. 701-E is to be applied to the Hospah Sand Unit for the purpose of calculating the maximum Waterflood Project allowable. In our opinion there are three ways the maximum daily allowable could be calculated. These are as follows:

a. There are thirty-five 40-acre units within the unitized area known as the Hospah Sand Unit. Using this figure, the 70-barrel-a-day allowable factor and taking no credit for the injection wells, the maximum project daily allowable is calculated as follows:

	No.	Area Allow- able Factor Bbls/Day	Daily Allowable Bbls/Day
Number of 40-acre units in unitized project area	35	70	2,450
Number of pro- ducing wells	44		
Number of pro- ducing wells in excess of 4/40- acre tract	<u>3 (</u> s	see attached list)
Net producing wells	41		
Less: Number of 40-acre units	-35		
Excess wells entitled to allow-able	7	23.33	<u>163</u>
	Total d	laily allowable	2,613

b. Of the thirty-five 40-acre units within the unitized area, 23 units contain either producing and/or injection wells. Using 23 as the number of participating units and the 70-barrel-a-day allowable factor, the maximum daily project allowable is calculated as follows:

	No.	Area Allow- able Factor Bbls/Day	Daily Allowable Bbls/Day
Number of 40-acre units in unitized project area	23	70	1,610
Number of pro- ducing wells	44		
Number of pro- ducing wells in excess of 4/40- acre tract	3 (s	ee attached lis	t)
Net producing wells	41		
Less: Number of 40-acre units	-23		
Excess wells entitled to al- lowable	18	23.33	420
	Total da	ily allowable	2,030

c. Of the thirty-five 40-acre units within the unitized area, 15 contain wells which are currently productive. Using 15 as the number of 40-acre units and the 70-barrel-a-day allowable factor, the maximum daily project allowable is calculated as follows:

	No.	Area Allow- able Factor Bbls/Day	Daily Allowable Bbls/Day
Number of 40-acre units in unitized project area	15	70	1,050
Number of pro- ducing wells	44		
Number of pro- ducing wells in excess of 4/40- acre tract	3 (se	ee attached list)
Net producing wells	41		
Less: Number of 40-acre units	<u>-15</u>		
Excess wells entitled to al-			
lowable	26	23.33	607
	Total dail	ly allowable	1,657

It is our understanding that the calculated total daily project allowable represents the maximum which the project will be allowed to produce, unless special permission is obtained. In order to keep the current assigned allowable in line with the ability of the project to produce, it is assumed that increases in allowable can be approved administratively upon request until such time as the calculated daily allowable rate is reached. It appears that a note on the Operators Monthly Report C-115 would serve as the means for requesting an increase in allowable. If such procedure is satisfactory, it is thought that the allowable for March would be requested on the C-115 covering the operations for January. As an example, there is enclosed a C-115 covering the operations for both January and February which includes all the new wells, incorporates the change in status from a prorated field to a waterflood project and shows the requested allowable.

State of New Mexico

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Oil Conservation Commission -5-

March 17, 1966

We would appreciate knowing what the correct procedure is for calculating the maximum project allowable and also whether the enclosed Forms C-115 and the method for handling requests for allowable increases are acceptable. Should the C-115's be in order, please accept them as the official filings (the one for January will be a corrected copy), and the official date of waterflood status for the Hospah Sand Unit will become January 1, 1966.

Also enclosed are monthly injection forms C-120 covering the Hospah Sand Unit for the months of January and February. If these forms are not in order, please advise.

To help expedite the change from a prorated to a waterflood status, there is also enclosed a sample proration schedule which incorporates all changes in new wells. We have also made the following corrections to the proration schedule for January, 1966: (1) Well No. 53, located O 36-18-9, was converted from a producer to a watersupply well and should have been removed from the schedule; (2) Well No. 23, located I 36-18-9, should be Well No. 32; and (3) Wells Nos. 24 and 52, located G 36-18-9, should be carried as being located in G 1-17-9.

If we can supply additional information, please advise.

Very truly yours,

GMA:nbd Attachment Gilbert M. Andreen

1 4/ Chilina

cc: District I Office, Hobbs, New Mexico District III Office, Aztec, New Mexico

Form C -120 (Revised 5-1-60)

NEW MEXICO OIL CONSERVATION COMMISSION MONTHLY INJECTION REPORT

Submit this report in triplicate to the District Office, Oil Conservation Commission.

Company Tesor	Pet	roleu	ım	Coı	por	ation			Pool _	Hospah	Sar	d Unit		·
County <u>McKinle</u>	У				·	-,	•		Month_	/Jan	uar	y, 1966		·
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Hospah Sand Unit Hospah Field McKinley County, New Mexico

Producing and Injection Wells

Well No.	Location	Status	Well No.	Location	Status
1	A 1-17-9	S	30-A	Н 36-18-9	S
49	A 1-17-9	S	64	H 36-18-9	I
66	A 1-17-9	1			
			32	I 36-18-9	P
12	B 1-17-9	P	37	I 36-18-9	P
14	B 1-17-9	P			
20	B 1-17-9	P	28	J 36-18-9	P
23	B 1-17-9	P	33	J 36-18-9	P
51	B 1-17-9	P	34	J 36-18-9	P
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5	C 1-17-9	P	35	K 36-18-9	P
6	C 1-17-9	P			
22	C 1-17-9	P	62	L 36-18-9	P
61	E 1-17-9	I	3	N 36-18-9	Р
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11	F 1-17-9	P	15	N 36-18-9	P
21	F 1-17-9	P	17	N 36-18-9	$\dot{\mathbf{P}}$
38	F 1-17-9	P	71	N 36-18-9	P
24	G 1-17-9	P	16	0 36-18-9	P
52	G 1-17-9	P	19	0 36-18-9	P
			25	0 36-18-9	P
67	H 1-17-9	I	48	0 36-18-9	P
9	Ј 1-17-9	P	27	P 36-18-9	P
			50	P 36-18-9	P
8	K 1-17-9	P	65	P 36-18-9	I
13	K 1-17-9	P		•	•
39	K 1-17-9	P	54	L 31-18-8	P
60	L 1-17-9	I			
68	В 36-18-9	i	-	es sent to Distri at Aztec, 1 copy	
69	E 36-18-9	I	Distric	et I office at Hol fice at Santa Fe	obs and
63	F 36-18-9	P	infor m		
29	G 36-18-9	P.			

Form C-120 (Revised 5-1-60)

NEW MEXICO OIL CONSERVATION COMMISSION MONTHLY INJECTION REPORT

Submit this report in triplicate to the District Office, Oil Conservation Commission.

Company Tesor	o Pet	rolev	ım	Coı	rpo:	rati	ion		. Pool	Hosp	ah S	and Unit		
County <u>McKinle</u>	ev			:				· ·	. Mont	T 1.		ry, 1966		
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Hospah Sand Unit Hospah Field McKinley County, New Mexico

Producing and Injection Wells

Well No.	Location	Status	Well No.	Location	Status
1	A 1-17-9	S	30-A	Н 36-18-9	S
49	A 1-17-9	S	64	H 36-18-9	I
66	A 1-17-9	I		·	
	,	_	32	I 36-18-9	P
12	B 1-17-9	P	37	I 36-18-9	P
14	B 1-17-9	P			
20	B 1-17-9	P	28	Ј 36-18-9	P
23	B 1-17-9	P	33	J 36-18-9	P
51	B 1-17-9	P	34	J 36-18-9	P
			36	J 36-18-9	P
4	C 1-17-9	P ·			
5	C 1-17-9	P	35	K 36-18-9	P
6	C 1-17-9	P			
22	C 1-17-9	P	62	L 36-18-9	P
4.1	E`1-17-9	I	3	N 36-18-9	P
61	E 1-17-9	1	7	N 36-18-9	P
2	F 1-17-9	P	10	N 36-18-9	P
11	F 1-17-9	P	15	N 36-18-9	P
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Hospah Sand Unit Hospah Field McKinley County, New Mexico *

Proration Schedule

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Company Total

^{*} This schedule is for January, 1966 with corrections.

NEW MEXICO OIL CONSERVATION COMMISSION BOX 2088 SANTA FE, NEW MEXICO

OPER ATOR'S MONTHLY REPORT

STATEFIDE FORM C-115 REV. 19-1-81 SUBMIT: ORIGINAL TO DCC SANTA FE OME COPY TO DCC DIST. OFFH OME COPY TO TRANSPORTER

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<u>-</u> ۲ NEW MEXICO OIL CONSERVATION COMMISSION

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Operation Petroleum Corporation 533 Busby Dr., San Antonio, Texas FOR MONTH January, 1966

BOX 2088 SANTA FE, NEW MEXICO
OPERATOR'S MONTHLY REPORT 2.4

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NEW MEXICO OIL CONSERVATION COMMISSION BOX 2088 SANTA FE, NEW MEXICO

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OPERATOR'S MONTHLY REPORT

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OPERATOR'S MONTHLY REPORT

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OPERATOR'S MONTHLY REPORT

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BOX 2088 SANTA FE, NEW MEXICO
OPERATOR'S MONTHLY REPORT

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OPERATOR'S MONTHLY REPORT

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GOVERNOR JACK M. CAMPBELL CHAIRMAN

State of New Mexico

Bil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MEMBER

Other



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

P.O.BOX 2088 SANTA FE

February 9, 1966

Res Mr. Richard S. Morris Seth, Montgomery, Federici & Andrews Attorneys at Law Post Office Box 2307 Santa Fe, New Mexico	Case No. 3353 Order No. R-3040 Applicant: Tesoro Petroleum Corp.
Dear Sir:	
Enclosed herewith is a copy of the above-referenced Commission order recently entered in the subject case. Letter pertaining to conditions of approval and maximum allowable to follow. Very truly yours, A. L. PORTER, Jr. Secretary-Director	
ALP/ir	
Carbon copy of order also sent to:	
Hobbs OCC X Artesia OCC X Aztec OCC X	

Mr. James C. Vandiver, 1801 Chaco Avenue, Farmington, N.M.

Mr. Philip A. Hogan, Tidewater Oil Company, Box 1960, Durango, Colo.



February 24, 1966

Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico

Attention: Ida Rodrigues

Gentlemen:

I am returning your copy of the transcript in Case No. 3353 (Tesoro Petroleum Corporation) that you sent to me February 11, 1966.

You have been most helpful and we thank you again for your cooperation.

Very truly yours,

TIDEWATER OIL COMPANY

Austa & Fest

Harold G. Vest

HGV:csw

Enclosure



January 13, 1966

Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico

Attention: Ida Rodrigues, Secretary to Director

Gentlemen:

Please send a copy of the transcribed proceedings of Case #3353 (Tesoro Amendment to Waterflood Order No. R-2807), which was presented at the January 5, 1966 Examiner Hearing in Santa Fe. Upon receipt we will make a print and return your copy to you immediately.

For your convenience we are enclosing a self-addressed stamped envelope.

Thank you for your sincere cooperation.

Very truly yours,

TIDEWATER OIL COMPANY

Harold G. Vest

Theret A. West

HGV:csw

Enclosure

Send transcripts when they come in.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE. NEW MEXICO

December 29, 1965

Mr. Philip A. Hogan Tidewater Oil Company Post Office Box 1960 Durango, Colorado

Dear Sir:

With reference to your letter of December 28, 1965, please be advised that Case No. 3353 (Tesoro Petroleum Corporation Waterflood) is scheduled to be heard at the January 5, 1966 examiner hearing. If there should be a change in this schedule, we will notify you.

I am enclosing a copy of the docket for the above-mentioned hearing.

Very truly yours,

J. M. DURRETT, Jr. Attorney

JMD/ir Enclosure



December 28, 1965

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

ATT: Mr. A. L. Porter

Gentlemen:

Regarding Case #3353 (Tesoro Petroleum Corp. Waterflood of Hospah Field), which was continued from the scheduled date of December 14, 1965 to January 5, 1966, Tidewater Oil Company is planning to have representatives attend this hearing from the Durango Exploration Office and our Midland, Texas Production Office.

Please notify the following if any change from the scheduled date of January 5th is planned:

Tidewater Oil Company P. O. Box 1960 Durango, Colorado ATT: Mr. Philip A. Hogan

Tidewater Oil Company P. O. Box 1231 Midland, Texas ATT: Mr. Harold Vest

Very truly yours,

TIDEWATER OIL COMPANY

Philipa Noga.

Philip A. Hogan

District Geologist

PAH:dp



STATE ENGINEER OFFICE

S. E. REYNOLDS STATE ENGINEER

November 15, 1965

ADDRESS CORRESPONDENCE TO: STATE CAPITOL SANTA FE, NEW MEXICO 87501

Car 3353

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Tesoro Petro. Corp. which seeks an amendment to Order R-2807 by adding two new injection wells Nos. 68 and 69. Applicant also seeks authorization for two unorthodox locations for producing wells which is no concern of this office. Applicant also seeks permission to produce from Well No. 63 and requests the authorization to inject water into a well located 1600' from the south line and 1640' from the west line of Sec. 36, T. 18 N., R. 9 W. be rescinded.

This office offers no objection to the granting of the application provided the well construction and equipment specifications for the injection wells are equal to, or are better than, those in the original plan.

FEI/ma cc-Mr. Richard S. Morris

Yours truly,

S. E. Reynolds State Engineer

Frank E. Irby

Chief

Water Rights Div.

J. O. SETH (1883-1963)
A. K. MONTGOMERY
WM. FEDERICI
FRANK ANDREWS
FRED C. HANNAHS
RICHARD S. MORRIS
JOHN G. JASPER
SUMNER G. BUELL

SETH D. MONTGOMERY

SETH, MONTGOMERY, FEDERICI & ANDREWS

ATTORNEYS AND COUNSELORS AT LAW 350 EAST PALACE AVENUE SANTA FE. NEW MEXICO 87501

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POST OFFICE BOX 2307
AREA CODE 505
TELEPHONE 982-3876

November 8, 1965

3 35 3

Mr. Frank Irby Chief, Water Rights Division Office of the State Engineer Capitol Building Santa Fe, New Mexico

> Re: Tesoro Petroleum Corporation application to N.M.O.C.C. for an amendment of Order No. R-2807, Hospah unit area, McKinley County, New Mexico

Dear Mr. Irby:

Enclosed is a copy of Tesoro Petroleum Corporation's application for an amendment to Order No. R-2807 entered in Case No. 3132 on November 24, 1964 which order approved a waterflood project in the Hospah unit area, McKinley County, New Mexico.

Since Order No. R-2807 was entered it has become necessary to convert several wells which were intended to be injection wells into producing wells and to drill additional injection wells as replacements. This application seeks approval for these changes but does not seek to alter the method of operation of the waterflood project in any substantial sense.

If you need additional information concerning Tesoro's plans for this area please advise and I will do my best to get the information for you.

Very truly yours,

RSM: LHS Encl.

cc: New Mexico Oil Conservation Commission

Mr. G. M. Andreen Tesoro Petroleum Corporation O P Y J. O. SETH (1883-1963)

A. K. MONTGOMERY

FRANK ANDREWS FRED C. HANNAHS

JOHN G. JASPER SUMNER G. BUELL SETH D. MONTGOMERY

RICHARD S. MORRIS

WM. FEDERICI

SETH, MONTGOMERY, FEDERICI & ANDREWS OCC ATTORNEYS AND COUNSELOR MAIN OFFICE OCC

350 EAST PALACE AVENUE

SANTA FE, NEW MEXICO 8750 N 18 M 7:52 POST OFFICE BOX 2307

and the second of the second o

January 17, 1966

TELEPHONE 982-3876

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico

Attention: Mr. Daniel S. Nutter

Application of Tesoro Petroleum Corporation, Case No. 3353, January 5, 1966, Hospah Sand Unit, Hospah Field, McKinley County, New Mexico

Gentlemen:

In accordance with examiner Nutter's request for additional information at the hearing of the subject case, we hand you herewith Mr. Andreen's letter dated January 14, 1966, to which is attached his summary of each well drilled in the Hospah Sand Unit and a structure map showing the locations of all wells and the original and present oil-water contact.

Also enclosed are copies of letters written to Tidewater Oil Company and Whigham Drilling Company in compliance with the requests made by representatives of those companies at the hearing on the subject case.

Based upon this additional information we request that the Commission enter its order approving the locations of all wells and approving the injection of water to all wells presently designated as injection wells.

> Very truly yours hichard S. Morris

RSM: LHS Encls.

Tesoro Petroleum Corporation cc: 533 Busby Drive San Antonio, Texas 78209

TESORO PETROLEUM CORPORATION

533 BUSBY DRIVE

512-TAYLOR 4-0261

SAN ANTONIO, TEXAS 78209

January 14, 1966

MAIN STELL OLL

JAN 18 AH 7 53

Whigham Drilling Company
Petroleum Plaza Building
Farmington, New Mexico 87401

Re: Oil Conservation Commission Case No. 3353, Hospah Sand Unit, Hospah Field, McKinley County, New Mexico

Gentlemen:

At the referenced hearing held January 5, 1966 at Santa Fe, New Mexico your representative requested some additional information on injection wells Nos. 60 and 61 of the Hospah Sand Unit.

The Hospah Sand Unit well No. 60 was drilled in Unit L, 2310 feet from the South line and 1060 feet from the West line of Section 1, Township 17 North, Range 9 West. The well was spudded August 12, 1965 and 4 1/2-inch casing run on August 17, 1965. The well was cored, and a copy of the analysis is attached for your information. The well was perforated from 1559-70, 1570-90 and 1600-01 and tested six days with a 1 1/2-inch pump, 36-inch stroke, 14 strokes per minute. Final test was 110 barrels per day of water with a rainbow of oil. The well was considered noncommercial and equipped as an injection well.

Hospah Sand Unit well No. 61 was drilled in Unit E, 3650 feet from the South line and 1000 feet from the West line of Section 1, Township 17 North, Range 9 West. This well was spudded August 12, 1965 and 4 1/2-inch casing was run August 17, 1965. The sand section was cored, and a copy of the core analysis is attached for your information. The well was perforated from 1632-34, 1636-38 and 1640-56 and tested six days with a 1 1/2-inch pump, 36-inch stroke, 10 strokes per minute. The final test was 75 barrels a day of water with a trace of oil. The well was considered noncommercial and equipped as an injection well.

At the secondary-recovery hearing on the Hospah Field (Case No. 3132) held October 28, 1964, a structure map on top of the Hospah Sand was prepared

by the Engineering and Consulting Department of Core Laboratories, Inc. and was submitted in evidence. A copy of this structure map is attached, and reference to it will show that the original oil-water contact on the southwest portion of the Unit area was thought to be at 5350 feet above sea level. The drilling of wells Nos. 60 and 61 did very little to alter the geological concepts insofar as this portion of the field is concerned. From the new development in the Hospah Sand Unit area there is evidence that the original oil-water contact has moved upstructure at least 5 feet and that its present position is approximately 5355 feet above sea level.

Attached is a structure map of the Hospah Sand Unit area which incorporates all of the new data obtained from the recent drilling, and it is evident from this map and the production tests on Nos. 60 and 61 that there is no commercially-productive Hospah Sand contiguous with that underlying the Hospah Sand Unit lying outside the Unit boundaries.

If there is any additional information we can supply, please advise.

Very truly yours,

Gilbert M. Andrean

GMA:nbd Attachment

cc: New Mexico Oil Conservation Commission