301 BOOKER BLDG.
ARTESIA. NEW MEXICO

P. O. BOX 376

OCTOBER 5, 1961

PHONE SH 6-6032

WEX- 92

The first at 24

New Mexico Oil Conservation Commission Post Office Box 87I Santa Fe, New Mexico

ATTENTION: Mr. JIM KAPTEINA

DEAR MR. KAPTEINA:

ORDER NO. R-1538 AUTHORIZED AT WATER FLOOD PROJECT IN THE MALJAMAR FIELD (FORMERLY ROBERTS), LEA COUNTY, NEW MEXICO WITH CERTAIN WELLS DESIGNATED AS WATER INPUT WELLS AS SHOWN ON THE ATTACHED PLAT AND IN THE ORDER. THE PROJECT IS SUBJECT TO RULE 701.

Leonard Nichols-Lexco No. 2 SE/4 SE/4 Section 2, T[7S, R32E was a plugged and abandoned well. The $5\frac{1}{2}$ " casing was knocked off at 2230 feet with a collar-baster. A clean thread was recovered when the well was plugged. Permission was granted to re-enter this well. The well was re-entered by cable tools and cleaned out down inside the $5\frac{1}{2}$ " casing. $5\frac{1}{2}$ " casing was then re-run and the collar was screwed into. The well was then cleaned out to bottom.

Application is hereby made to complete this well as a water injection well. A schematic drawing of the intended completion of this well is attached. 8 5/8" surface casing is set at [303] and cemented back to the surface, thus providing ample and adequate protection of any shallow water zones. The $5\frac{1}{2}$ " casing is set at 4098° and cemented back to 2396°. It is planned to inject through a string of 2" EUE tubing with a tension-type packer set below 2600°. Adminstrative approval is requested for the conversion of this well to water input.

A COPY OF THIS APPLICATION IS BEING SENT TO PHILLIPS PETROLEUM COMPANY AND KENNEDY OIL COMPANY, THE OFFSET OPERATORS, AND TO MR. FRANK IRBY, THE CHIEF OF WATER RIGHTS DIVISION, STATE ENGINEERS OFFICE. SANTA FE.

OIL CONSERVATION COMMISSION

OCTOBER 5, 1961

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THE SUBJECT WELL IS LOCATED ON THE ESTABLISHED WATER FLOOD PATTERN AND CONVERSION OF THIS WELL TO WATER INJECTION IS NECESSARY TO AN EFFECTIVE SWEEP OF OIL IN THIS AREA. TWO OFFSET WELLS HAVE RESPONDED TO WATER FLOOD. FORM C-II6 IS ATTACHED SHOWING WELL TESTS ON THESE OFFSET WELLS.

Your attention to this application at your earliest convenience will be appreciated.

VERY TRULY YOURS,

H. C. Porter,

ENGINEER

HCP/kH

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR	eonard Nichols	POOL	MALJAMAR		
	Box 376, Artesia, New Mex.				
SCHEDULED TEST	COMPLETION TEST	*****	SPECIAL TEST	XXX	(Check Onc)
	(Sec Instructions	on Reverse Side)			

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR
							Water Bbls.	Oil Bbls.	Gas MCF	Cu. Ft. Per Bbl.
TRIMBLE	Į.	1/9/60	Р		24		-0-	7	T STM	TSTM
		1/9/6 1 3/5/61 5/1/61 8/6/61 10/1/6	Ρ .		"		-0-	23	fr	11
		5/1/61	Р		31		-0-	30	11	11
		8/6/61	Р		11		-0-	43	11	ft.
		10/1/6	[P		11		-0-	51	11	11
				,						

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

LEONARD NICHOLS

By

ENGINEER

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR POOL M	1AL JAMAR	
ADDRESS P. O. BOX 376, ARTESIA, NEW MEXICO MONTH OF	(SEE BELOW)	, 19
SCHEDULED TEST COMPLETION TEST S	SPECIAL TESTXX	(X (Check One)
(See Instructions on Reverse Side)		

Lease	747 11	Date of Test	Producing Cl Method S	G	Test Hours	Daily Allowable Bbls.	Production During Test			GOR
	Well No.			Choke Size			Water Bbls.	Oil Bbls.	Gas MCF	Cu. Ft. Per Bbl.
Lexco	I	5/20/6	P I		24		-0-	11	TSTM	TSTM
		7/9/6	P		24		-0-	21	11	11
		7/9/6 8/7/6	I P		24		-0-	22	11	tt
		10/1/0	9 I		24		-0-	. 26	11	11
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one conv of this report to the district office of the New

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

301 BOOKER BLDG.
ARTESIA, NEW MEXICO

P. O. BOX 376

PHONE SH 6-6032

OCTOBER 5, 1961

STATE ENGINEER
P. O. BOX 1079
SANTA FE, NEW MEXICO

ILLEGIBLE

ATTENTION: MR. FRANK E. IRBY

DEAR MR. IRBY!

I AM EMELOSING A COPY OF THE APPLICATION TO CONVERT LEONARD NICHOLS-LENCO WELL NO. 2 TO WATER INPUT. THE WELL IS LOCATED IN SE/4 SE/4, SECTION 2, T178, R32E, LEA COUNTY, NEW MEXICO, AS SHOWN ON THE PLAT.

DETAILS OF THE WELL COMPLETION ARE SHOWN ON THE ATTACHED SCHEMATIC DRAWING AND IN MY LETTER TO MR. KAPTEINA. THE SHALLOW WATER IS PROTECTED BY SURFACE CASING WHICH IS CENERTED TO THE SURFACE. (LSG, IN THIS WELL, WE INTEND TO INJECT SELOW A PACKER SET ON TUBING DOWN INSIDE THE 52" CASING. THE WELL WAS SKILLED IN 1346 BY PHILLIPS PETROLEUM COMPANY. THE SURFACE HOLE WAS 122" AND THE REMAINDER OF THE MOLE WAS 7 7/8". ALL CASING WAS NEV.

I THUST THAT ALL INFORMATION RECOVERS BY YOUR OFFICE IS CONTAINED IN THE APPEIGNTION; HOWEVER, IF ADDITIONAL INFORMATION IS RECESSARY, I WOULD APPRECIATE YOUR CALLING HE COLLECT AT \$11.6-6032, ARTESIA, IN ORDER TO EXPEDITE APPROVAL BY THE COMMISSION.

VERY TEULY YOURS.

H. C. POSTER,

301 BOOKER BLDG.

ARTESIA, NEW MEXICO

P. O. BOX 376

PHONE SH 6-6032

KENNEDY OIL COMPANY 1402 WASHINGTON AVE. ARTESIA, NEW MEXICO ILLEGIBLE

ATTENTIONS ROBERT KENNEDY

DEAR MA. KENNEDY:

I AM ENCLOSING A COPY OF OUR APPLICATION TO THE NEW MEXICO OIL COMBERVATION COMMISSION FOR APPROVAL TO CONVERT LEGIAND HICHOLS -- LEKCO WELL NO. 2 TO WATER INJECTION. THIS WELL IS LOCATED IN SE/4 SE/4 SECTION 2, TI75, R32E, MALJAMAR FIELD, LEA COUNTY, HEW MEXICO.

VERY TRULY YOURS,

H. C. PURTER

ENGINEER

HCP/KM

CCI OIL CONSERVATION COMMISSION

301 BOOKER BLDG.
ARTESIA. NEW MEXICO

P. O. BOX 376

OCTOBER 5, 1961

PHONE SH 6-6032

ILLEGIBLE

PHILLIPS PETROLEUM CO.
PRODUCTION DEPARTMENT
JRD FLOOR PERMIAN BLDG.
MIDLAND, TEXAS

STRUTION: DIVISION ENGINEER

GENTLEMEN !

I AM ENCLOSING A COPY OF OUR APPLICATION TO THE NEW MEXICO OIL CONSERVATION COMMISSION FOR APPROVAL TO CONVERT LEGISLED MICHOLO-LENCO WELL NO. 2 TO WATER INJECTION. THIS WELL IS LOCATED IN SELA SECTION 2, TITS, RISE, MALJAMAR FIELD, LEA COUNTY, NEW MEXICO.

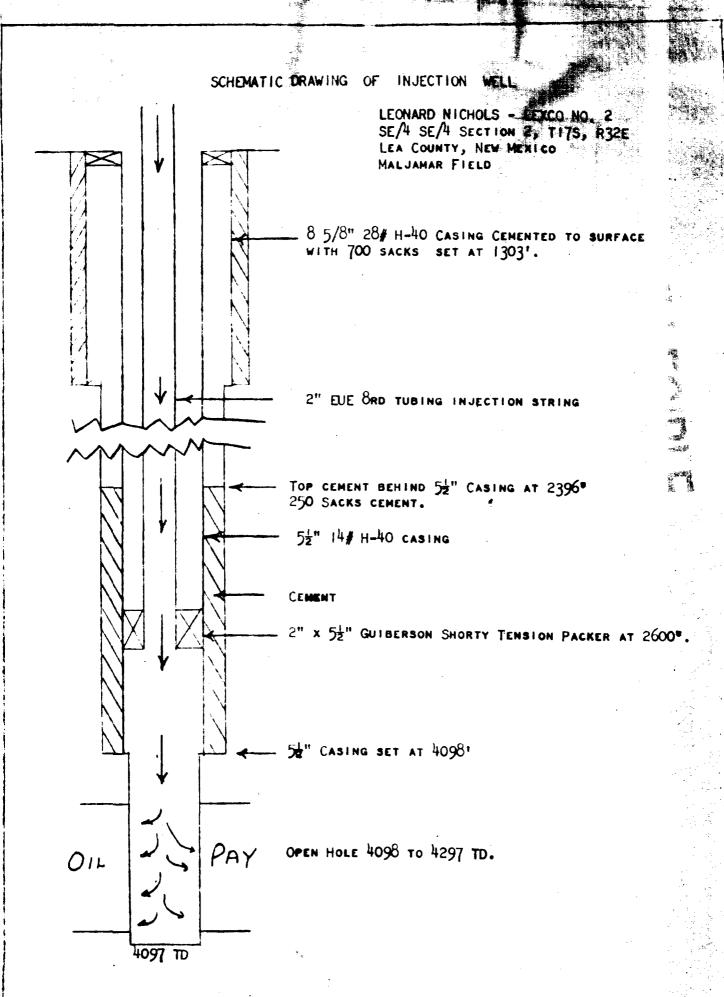
YERY TRULY YOURD,

H. C. PORTER,

ENGINEER

HCP/NH

CC: OIL COMBERVATION COMMISSION



301 BOOKER BLDG. ARTESIA, NEW MEXICO

P. O. BOX 376

OCTOBER 5, 1961

PHONE SH 6-6032

KENNEDY OIL COMPANY 1402 WASHINGTON AVE. ARTESIA, NEW MEXICO

ILLEGIBLE

ATTENTION. MORCAT KENNEDY

DEAR MR. KENNIOT:

I AM ENCLOSING A COPY OF OUR APPLICATION TO THE NEW MEXICO OIL CONSERVATION CONSISSION FOR APPROVAL TO CONVERT LEGNARS HICHOLS -LEXCO WELL NO. 2 TO WATER INJECTION. THIS WELL IS LOCATED IN SE/4 SE/4 SECTION 2, TI75, REZE, MALJAMAR FIELD, LEA COURTY, NEW MEXICO.

VERY TRULY YOURS.

HCP/KM

CCI OIL CONSERVATION COMMISSION

301 BOOKER BLDG.

ARTESIA. NEW MEXICO

P. O. BOX 376 OCTOBER 5, 1961

PHONE SH 6-6032

PHILLIPS PETROLEUM CO. PRODUCTION DEPARTMENT 3RD FLOOR PERMIAN BLDG. MIDLAND, TEXAS



ATTENTION: DIVIDION ENGINEER

GENTLEMEN:

I AM ENCLOSING A COPY OF OUR APPLICATION TO THE NEW MEXICO OIL CONSERVATION COMMISSION FOR APPROVAL TO CONVERT LEGHARD MICHOLS-LEXCO WELL NO. 2 TO VATER INJECTION. THIS WELL IS LOCATED IN SE/A SE/A SECTION 2, TI75, R32E, MALJAMAR FIELD, LEA COUNTY, NEW MEXICO.

VERY TRULY YOURS,

H. C. PORTER,

ENGINEER

HCP/KK

CC: OIL COMBERVATION COMMISSION

301 BOOKER BLDG.
ARTESIA. NEW MEXICO

P. O. BOX 376

OCTOBER 5. 1961

PHONE SH 6-6032

STATE ENGINEER
P. O. BOX 1079
SANTA FE. NEW MEXICO

ILLEGIBLE

ATTENTION: MR. FRANK E. INSY

DEAS MR. IRBY:

I AM ENCLOSING A COPY OF THE APPLICATION TO CONVERT LEGNARD NICHOLS-LENCO WELL NO. 2 TO WATER INPUT. THE WELL IS LOCATED IN SE/4 SE/4, SECTION 2, T175, R32E, LEA COUNTY, NEW MEXICO, AS SHOWN ON THE PLAT.

DETAILS OF THE WELL COMPLETION ARE SHOWN ON THE ATTACHED SCHEMATIC DRAWING AND IN MY LETTER TO MR. KAPTEINA. THE SHALLOW WATER IS PROTECTED BY SURFACE CASING WHICH IS CEMENTED TO THE SURFACE. ALSO, IN THIS WELL, WE INTEND TO INJECT SELOW A PACKER SET ON TUBING DOWN INSIDE THE 5½" CASING. THE WELL WAS BRILLED IN 1346 BY PHILLIPS PETROLEUM COMPANY. THE SURFACE HOLE WAS 12½" AND THE REMAINDER OF THE HOLE WAS 7 7/2". ALL CASING WAS NEW.

I TRUST THAT ALL INFORMATION REQUIRED BY YOUR OFFICE IS CONTAINED IN THE APPLICATION; HOWEVER, IF ADDITIONAL INFORMATION IS NECESSARY, I WOULD APPRECIATE YOUR CALLING ME COLLECT AT SH 6-6032, ARTESIA, IN ORDER TO EXPEDITE APPROVAL BY THE COMMISSION.

VERY TRULY YOURS,

H. C. PORTER

Enginees

October 9, 1961

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

Dear Mr. Porter:

Reference is made to the application of Water Flood Associates, Inc., dated October 5, 1961 which seeks administrative approval to convert the Leonard Nichols-Lexco Well No. 2 located in the SEISEI, Section 2, Township 17 South, Range 32 East, bea County, New Mexico to water injection.

The diagrammatic sketch accompanying the copy of the application received in this office which shows the casing and cementing program also shows that the well will be equipped with tubing and packer through which the water will be injected. It is planned that the packer will be set at 2600' which is well below the top of the cement outside the 5½" casing, and it appears that if this plan is followed, there will be no threat of contamination to the fresh waters which may exist in the area. Therefore, this office offers no objection to the granting of this application, provided the plan is followed.

Yours truly,

8. R. Reynolds State Engineer

FEI/ma

cc-H. C. Porter

F. H. Hennighausen

By:

Frank E. Irby Chief Water Rights Division

OIL CONSERVATION COMMISSION

BOX 2945

HOBBS, NEW MEXICO

	DATE_	Oct. 20, 1961
OIL CONSERVATION COMMISSION BOX 371	Re:	Proposed NSP
SANTA FE, NEW MEXICO		Proposed NSL
		Proposed NFC
		Proposed DC
Gentlemen:		WFX 92
I have examined the application dated		
for the Leonard Nichols Lexco #2 2-17-32		
Operator Lease and Well No.		S-T-R
and my recommendations are as follows:		
O.KE.F.E.		
O.KJ.W.R.		

Yours very truly,

OIL CONSERVATION COMMISSION

of the officer