

NE MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - () ALLOWABLE

New Well

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

FORT WORTH, TEXAS

OCTOBER 22, 1964

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

WATER-FLOOD ASSOCIATES, INC., H.J. LOE FEDERAL, Well No. 2, in SE 1/4 NW 1/4,
(Company or Operator) (Lease)

F, Sec. 30, T. 16S, R. 31E, NMPM., SQUARE LAKE Pool
Unit Letter

EDDY

County. Date Spudded SEPT. 6, 1964 Date Drilling Completed SEPT. 19, 1964

Please indicate location:

D	G	B	A
E	F 02	H	I
L	K	J	I
M	N	O	P

Elevation 3862' DF Total Depth 3300' PBD 3294'

Top Oil/Gas Pay 3081.5' Name of Prod. Form. GRAYBURG-SAN ANDRES

PRODUCING INTERVAL -

Perforations 3082'-85' (4 HOLES) 3129'-34' (5 HOLES) 3259'-62' (4 HOLES)

Open Hole - Depth Casing Shoe 3298' (KBM) Depth Tubing 3140'

OIL WELL TEST -

Natural Prod. Test: N.A. bbls. oil, - bbls water in - hrs, - min. Size -

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 37 bbls. oil, 63 bbls water in 24 hrs, 0 min. Size PUMP

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Tubing, Casing and Cementing Record

Size	Feet	Sax
13-3/8"	29'	3 YARDS READY MIX
8-5/8"	346'	150
5-1/2"	3298'	555

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: MCF/Day; Hours flowed

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 68,800 GALLONS SLICK WATER, 20 500# SAND.

Casing Tubing Date first new Press. 0 0 oil run to tanks OCTOBER 15, 1964

Oil Transporter CONTINENTAL OIL COMPANY

Gas Transporter NO CONNECTION - GAS VOLUME TOO SMALL

Remarks: SEE ATTACHED DATA SHEET ON COMPLETION HISTORY OF WELL.

OCT. 26. 1964

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

O. C. C.
ARTESIA, OFFICE

Approved: OCTOBER 22, OCT 26 1964, 1964

WATER-FLOOD ASSOCIATES, INC.
(Company or Operator)

OIL CONSERVATION COMMISSION

By: C. W. Stumhoff
(Signature)

By: M. L. Armstrong

Title: PETROLEUM ENGINEER
Send Communications regarding well to:

Title: OIL AND GAS INSPECTOR

Name: WATER-FLOOD ASSOCIATES, INC.
2211 CONTINENTAL NATL. BK. BLDG.

Address: FORT WORTH, TEXAS 76102

ON AUGUST 28, 1964, NOTICE OF INTENTION TO DRILL WAS APPROVED FOR THIS WELL. THE WELL WAS SPUDDED ON SEPTEMBER 6, 1964, WHEN 13-3/8" O.D. CONDUCTOR WAS SET AND CEMENTED AT 29'. ROTARY TOOLS DRILLED OUT FROM UNDER THIS CONDUCTOR PIPE ON SEPTEMBER 12, 1964, AND ON SEPTEMBER 13, 1964, 8-5/8" O.D. SURFACE CASING WAS SET AT 346' AND CEMENTED WITH 150 SACKS.

AFTER PRESSURE TESTING PIPE, WELL WAS DRILLED TO A TOTAL DEPTH OF 3300', AND SCHLUMBERGER SONIC LOG-GAMMA RAY INDICATED SIX (6') OF NET PAY IN THE UPPER PREMIER, SEVEN (7') OF NET PAY IN THE LOWER PREMIER, AND SIX (6') OF NET PAY IN THE LOVINGTON. AN OIL STRING OF 5-1/2" O.D. CASING WAS SET AT 3298' (KBM) AND CEMENTED WITH 355 SACKS OF CEMENT ON SEPTEMBER 20, 1964. THIS CEMENT WAS PLACED IN TWO STAGES - 305 SACKS AROUND SHOE AND 50 SACKS AT TOP OF SALT AT 408'. THE CASING WAS PRESSURE TESTED AND FOUND TO BE HOLDING.

ON SEPTEMBER 26, 1964, A WELEX ACOUSTIC CEMENT BOND MICRO-SEISMOGRAM WAS RUN, AND IT WAS FOUND THAT CEMENT JOB OVER PAY ZONES WAS NO GOOD. WELEX HORNET JETS WERE USED TO PERFORATE LOVINGTON ZONE FROM 3259'-63' WITH 3 HOLES. THE WELL IMMEDIATELY STARTED FLOWING WATER WHICH INDICATED THAT A CHANNEL FROM THE OFFSET INJECTION WELL WAS ENCOUNTERED.

ON SEPTEMBER 28, 1964, THESE PERFORATIONS WERE SQUEEZED WITH 200 SACKS OF CEMENT TO 3000 PSI. RADIOACTIVE MATERIAL WAS ADDED TO THE CEMENT TO DETERMINE LOCATION OF CHANNEL. WELL WAS W.O.C. UNTIL OCTOBER 5, 1964 WHEN CEMENT LEFT IN PIPE WAS DRILLED.

A RADIOACTIVE TRACER LOG INDICATED SQUEEZE CEMENT FROM 3070' TO TOTAL DEPTH. THE WELL WAS THEN PERFORATED AS FOLLOWS:

UPPER PREMIER	3082'-85'	WITH 4 HOLES
LOWER PREMIER	3129'-34'	WITH 5 HOLES
LOVINGTON	3259'-63'	WITH 4 HOLES

USING A BAKER MODEL "R" PACKER SET ON 2" TUBING AND A BAKER MODEL "C" RETRIEVABLE BRIDGE PLUG, EACH ZONE WAS SEPARATELY TREATED AS FOLLOWS:

UPPER PREMIER	3082'-85'	- 250 GALLONS ACID, 6500 POUNDS SAND, SLICK WATER, AND GYPBAN.
LOWER PREMIER	3129'-34'	- 250 GALLONS ACID, 7000 POUNDS SAND, SLICK WATER, AND GYPBAN.
LOVINGTON	3259'-62'	- 250 GALLONS ACID, 7000 POUNDS SAND, SLICK WATER, AND GYPBAN.

THE WELL WAS PLACED ON PRODUCTION ON OCTOBER 9, 1964. AFTER PUMPING LOAD WATER THE WELL IS PRODUCING 37 BOPD AND 63 BWPD.

RECEIVED

OCT 26 1964

O. C. E.
ARTESIA, OFFICE

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DISTRIBUTION

	NO. FURNISHED	
OPERATOR	2	
SANTA FE	1	
PROSPECTING OFFICE	1	
STATE LAND OFFICE		
U. S. G. S.		
TRANSPORTER		
FILE		
BUREAU OF MINES	1-	

NUMBER OF COPIES RECEIVED 5	
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SANTA FE	1
FILE	1
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	1
OIL	
GAS	
PRODUCTION OFFICE	
OPERATOR	2

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

FORM C-110
 (Rev. 7-60)

FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE

Company or Operator WATER-FLOOD ASSOCIATES, INC. ✓				Lease H. J. LOE FEDERAL		Well No. 2	
Unit Letter F		Section 30		Township 16S		Range 31E	
Pool SQUARE LAKE		Kind of Lease (State, Fed, Fee) FEDERAL					
If well produces oil or condensate give location of tanks				Unit Letter K		Section 30	
				Township 16S		Range 31E	
Authorized transporter of oil <input checked="" type="checkbox"/> or condensate <input type="checkbox"/> CONTINENTAL PIPELINE COMPANY				Address (give address to which approved copy of this form is to be sent) Box 410 ARTESIA, NEW MEXICO			

Is Gas Actually Connected? Yes _____ No X

Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input type="checkbox"/>		Date Connected		Address (give address to which approved copy of this form is to be sent)	

If gas is not being sold, give reasons and also explain its present disposition:

TOO SMALL A VALUME FOR PIPELINE CONNECTION. PRESENTLY USED TO OPERATE LEASE EQUIPMENT. IF WELL PRODUCES SUFFICIENT GAS TO JUSTIFY PIPELINE CONNECTION ONE WILL BE OBTAINED.

REASON(S) FOR FILING (please check proper box)

New Well ☒ Change in Ownership ☐
 Change in Transporter (check one) Other (explain below)
 Oil ☐ Dry Gas ☐
 Casing head gas . ☐ Condensate.. ☐

RECEIVED

Remarks	OCT 26 1964 O. C. C ARTESIA, OFFICE
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The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 22ND day of OCTOBER, 19 64.

OIL CONSERVATION COMMISSION		By <i>C. W. Stumhoff</i>	
Approved by <i>M. L. Armstrong</i>		Title PETROLEUM ENGINEER	
Title OIL AND GAS INSPECTOR		Company WATER-FLOOD ASSOCIATES, INC.	
Date OCT 26 1964		Address 2211 CONTINENTAL NATIONAL BK. BLDG. FORT WORTH, TEXAS 76102	