

Mobil Oil Corporation

WEX 289
J. B. Stitt
P.O. BOX 633
MIDLAND, TEXAS 79701

April 26, 1968

Mr. A. L. Porter, Jr., Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

ADMINISTRATIVE APPROVAL TO EXPAND
WATER INJECTION OPERATIONS IN THE
VACUUM (GRAYBURG-SAN ANDRES) FIELD
LEA COUNTY, NEW MEXICO

APR 30 1968

Gentlemen:

Mobil Oil Corporation respectfully requests administrative authority to expand water injection operations to include the Santa Fe Well No. 10 as a WIW in the Vacuum, Grayburg-San Andres pool of Lea County, New Mexico. This authority is requested under Order No. R-1244 and Rule No. 701.E.5. Injection is to be into the Grayburg-San Andres interval, found at approximately 4700'.

The subject well, which has recently been purchased by Mobil Oil Corporation from Phillips Petroleum Company, is situated in Unit C, Section 24, T-17-S, R-34-E. The well is a Southwest diagonal offset to the Texaco State "W" Lease and is offset by Mobil acreage in all other directions. Mobil's Bridges State Well No. 9 offsets the Santa Fe Well No. 10 to the North and Bridges State No. 19 offsets the well to the West. Both of these producers have experienced substantial response to the waterflood program as evidenced by well tests set out on the attached Form C-116. The subject well is expected to take water at rates from 500 to 1000 barrels per day. Co-op waterflood agreements between Mobil and Texaco are in the process of being executed.

The well will be converted and injection initiated through cement lined tubing set on a packer approximately 50' above the casing shoe. Adequate tests of all casing strings will be made to insure there are no leaks and all surface waters and other formations will be protected.

Attachments in support of this application include a plat showing the location of the Santa Fe Well No. 10 and other Grayburg-San Andres producers and injectors in the waterflood area, the Commission Form C-116 showing well tests before and after response on producers offsetting the Santa Fe Well No. 10, a log of Bridges State Well No. 107 which is a nearby well on which a log is available, and a diagrammatic sketch showing existing and proposed condition of the Santa Fe Well No. 10 wellbore. A copy of this application is being transmitted to the State Engineer and the offset operator, Texaco.

Very truly yours,



I. B. Stitt, Jr.
Division Operations Engineer
Midland Division

PWKelly/jc
Attach.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County										
Mobil Oil Corporation		Vacuum Grayburg San Andres		Lea										
Address		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐		Special ☒								
P. O. Box 633, Midland, Texas 79701														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKES SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
<u>BEFORE WATERFLOOD RESPONSE</u>														
Bridges State	9	N	13	17	34	5-15-67	P 2 1/2"	-	5	24	5	34	11	TSTM -
Bridges State	19	D	24	17	34	5-15-67	P 2 1/2"	-	1	24	0	34	3	26 8667

<u>AFTER WATERFLOOD RESPONSE</u>														
Bridges State	9	N	13	17	34	12-9-67	P 2 1/2"	-	51	24	8	34	51	TSTM -
Bridges State	19	D	24	17	34	2-7-68	P 2 1/2"	-	20	24	0	34	22	30 1364

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° F. Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.
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 hereby certify that the above information is true and complete to the best of my knowledge and belief.

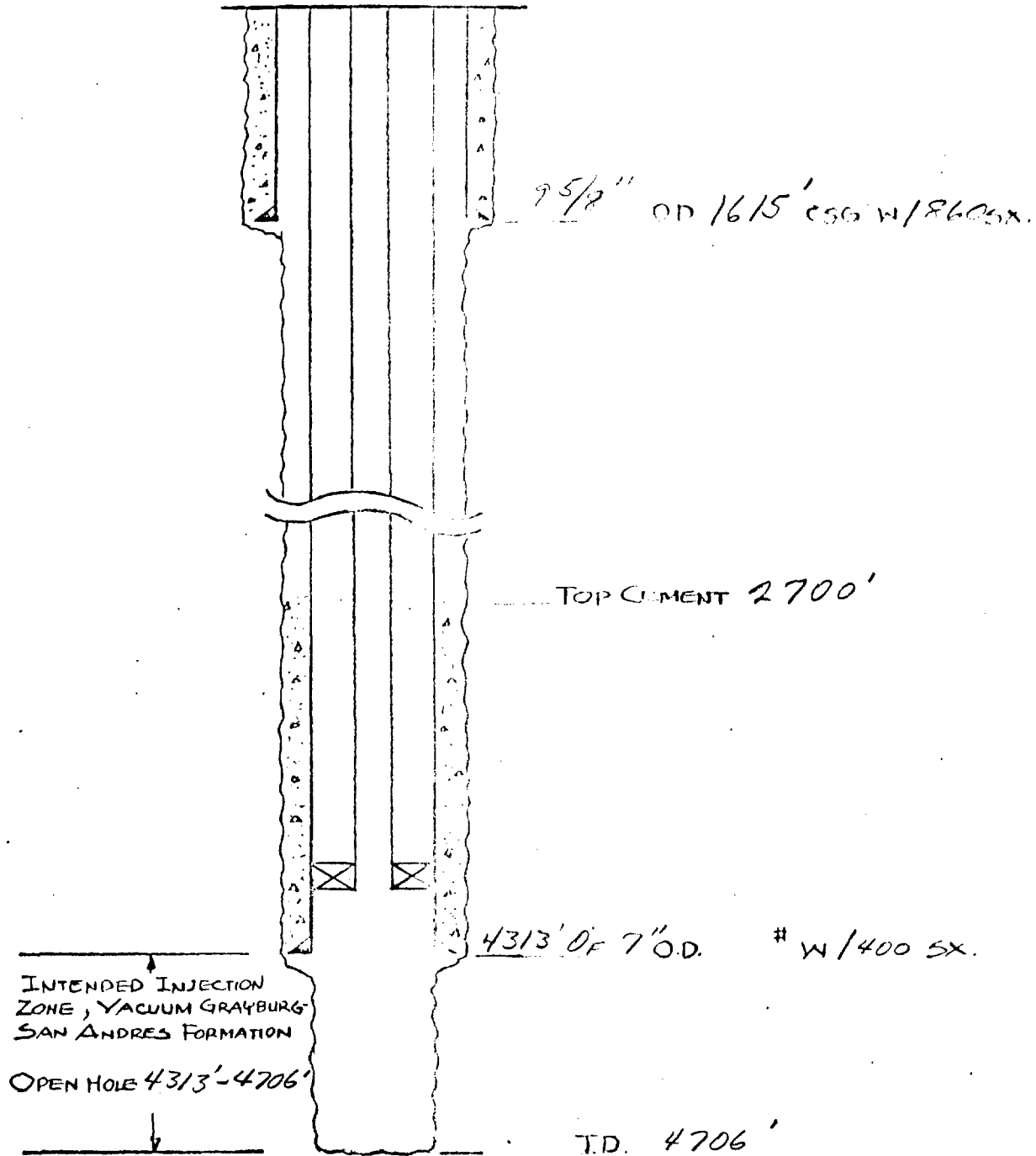
Da B. [Signature]
Division Operations Eng.
4/29/68
(Date)

R-35-E



DATE 4-1-68
DRAWN BY BJE
CHECKED
APPROVED f m
REVISED

D.F. ELEVATION 4028



NO.	DATE	BY	AUT. DATE
Proposed by: [Signature] SANTA FE VACUUM GRUBB, L.L.C. (V.G.)			
DRAWN	SCALE	Dwg. NO.	
CHECKED	DATE	A	