

Mobil Oil Corporation

April 25, 1967

P.O. BOX 633
MIDLAND, TEXAS 79701

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

ADMINISTRATIVE APPROVAL FOR
CONVERSION OF STATE BRIDGES
WELL NO. 107 TO WATER INJECTION
VACUUM GRAYBURG SAN ANDRES FLOOD
VACUUM POOL, LEA COUNTY, NEW MEXICO

Dear Sir:

Under the provisions of Order No. R-1244 and Rule 701.E.5, Mobil Oil Corporation requests your administrative approval for conversion of State Bridges Well No. 107 to water injection into the Grayburg San Andres formation.

The subject well was completed on April 3, 1967, with an allowable of 8 barrels of oil per day. Conversion to water injection service is now considered necessary in order to complete the five-spot injection pattern in the waterflood expansion area. Permission for the expansion of the pilot waterflood project was granted by your Administration Order No. WFX-257, issued on March 24, 1967.

Attached is a plat of waterflood area, Form C-116, diagrammatic sketch and a sonic-gamma-ray log of the proposed injection well. These are submitted in compliance with Rule 701.E.5.

Conversion work on the proposed injection well will consist essentially of the removal of existing production equipment and tubing with subsequent installation of cement-lined tubing and packers. Adequate tests of all casing strings will be made to insure that all surface waters and other formations will not be exposed to injection water in the event of tubing or packer leaks.

Mobil holds the water right to 1200 acre-feet per year of fresh water from the Ogallala zone. Three water supply wells were drilled with a total capacity of approximately 22,000 BPD. The produced water is being re-injected into the formation and will do the same in the expansion area. Average injection rate for the proposed injection well is estimated to be 780 BPD per well.

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-2-

Since there are no direct offset operators related to the proposed conversion, it is believed that all conditions prerequisite to administrative approval have been satisfied. Your earliest possible handling of our request will be sincerely appreciated.

Very truly yours,

A handwritten signature in cursive script, reading "I. B. Stitt, Jr.", with a small flourish at the end.

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

GCWang/jc
Attachments

cc:
Oil Conservation Comm.- Hobbs
Oil & Gas Engr. Comm. - Hobbs
State Engineer - Santa Fe

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 P.O. Box 635, Midland, Texas 79701				Type of Test - (X) TEST - (X)												
				For administrative approval of field expansion Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE 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.	GAS M.C.F.	
State - Bridges	107	E	13	175	34E	4-3-67				8	24	32	36.2	8		1600
State - Bridges	45	D	13	175	34E	8-2-64	(Occ Pot Test)				24	5	37.4	7		
		(North offset +0 #107)				9-66					"	43	35.5	10		
State - Bridges	59	L	13	175	34E	12-1-63					24	84	37.4	6		
		(South offset +0 #107)				4-13-65					"	82	37.4	19		
State - Bridges	60	H	14	175	34E	6-59					24	0	-	2		
		(East offset +10 #107)				7-61					"	18	-	50		

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.

(Signature)

(Title)

(Date)

K. B. 4029'
G. L. 4020.65'

8 5/8" CSG 24#/FT
J-55, ST&C W/
700 SK. CIR.

1615'

PROPOSED - 2 3/8" CD CEMENT LINED
TUBING ON TENSION PACKER
@ 4550'

INTENDED INJECTION ZONE
VACUUM (GRAYBURG - SAN ANTONIO)
PERFORATIONS: 4609', 10, 18
21, 26, 27, 32 & 33 W/2JSPF
TOTAL 16 HOLES

PBTD 4692'

5 1/2" CSG, 14# & 15.5#/FT
J-55, ST&C W/1339 SK.
CIR.

T.D. 4750'

NO.		DATE		BY	ALTERATION	
PROPOSED INJECTION WELL STATE BRIDGES NO. 107 DIAGRAMMATIC SKETCH						
MOBIL OIL CORP.						
DRAWN		SCALE		DWG. NO.		
CHECKED		DATE		A		



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

**S. E. REYNOLDS
STATE ENGINEER**

May 8, 1967

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

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

Dear Mr. Porter:

Reference is made to the application of Mobil Oil Corporation which seeks to convert their State Bridges Well No. 107 to water injection into the Grayburg-San Andres formation.

The well is shown as being in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 13, T. 17 S., R. 34 E., on the plat designated a drawing No. D-110-R & R.

The construction and method of injection appears good.

Yours truly,

S. E. Reynolds
State Engineer

By:

Frank E. Irby

Frank E. Irby
Chief

Water Rights Division

FEI:bg

cc: I. B. Stitt, Jr.
Division Operations Engineer
Midland Division
Box 633
Midland, Texas
cc: F. H. Hennighausen

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE