## Gulf Oil Corporation

EXPLORATION AND PRODUCTION DEPARTMENT-U. S. OPERATIONS ROSWELL DISTRICT

W. B. Hopkins DISTRICT MANAGER M. I. Taylor DISTRICT PRODUCTION MANAGER

MANAGER F. O. Mortlock DISTRICT EXPLORATION MANAGER

H. A. Rankin DISTRICT SERVICES MANAGER

> Secretary Director New Mexico Oil Conservation Commission Post Office Box 2088 Santa Fe, New Mexico 87501

October 20, 1967

P. O. Drawer 1938 Roswell, New Mexico 88201

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Re: Application of Gulf Oil Corporation for the Approval of the Stuart Langlie Mattix Unit Agreement and Secondary Recovery Project in a Portion of the Langlie Mattix Pool, Lea County, New Mexico

Dear Sir:

Gulf Oil Corporation, as Unit Operator, seeks the Commission's approval of the Stuart Langlie Mattix Unit Agreement and Secondary Recovery Project on the basis that the proposed unit plan for waterflooding certain wells in the Langlie Mattix Pool will promote the conservation of oil and gas and prevent waste. Information supporting this application is as follows:

(1) The Unit Area shall include

Township 25 South, Range 37 East Section 2: Lot 4, S/2 NW/4 and SW/4 Section 3: E/2 E/2 Section 10: N/2 and N/2 S/2 Section 11: NW/4 NE/4 and NW/4 containing 1120.36 acres, more or less, as shown on the attached plat (Figure I).

- (2) Average daily oil production for the 24 qualifying wells in the proposed waterflood project has declined to approximately two (2) barrels per day per well as shown by the attached plot of performance history (Figure II) and these wells "have reached an advanced state of depletion" as described in Rule 701 (E)(1). Also attached is a plat (Figure III) showing the recommended waterflood pattern and the unqualified tract in the Unit.
- (3) Applicant proposes to convert twelve (12) wells to water injection wells. The attached diagrammatic sketch (Figure IV) shows the details of a typical proposed injection well, while the accompanying tabulation (Table I) provides the summarized details of all twelve (12) proposed injection wells.
- (4) Applicant plans to inject up to 500 barrels per day of salt water into each injection well. Injection will be into the Seven Rivers (lower 100') and Queen formations in the approximate depth interval 3100' to 3500'. Copies of logs (Logs No. 1 and 2) of the only two Langlie Mattix wells logged within the Unit Area are attached. (The two particular wells logged will be producing wells.)



Secretary Director New Mexico Oil Conservation Commission -2-

October 20, 1967

- (5) Source of the injection water will be from a recompleted abandoned well, Gulf's J. A. Stuart No. 9, located in the NE/4 Unit A, Section 10, T-25S, R-37E (located on attached Unit plat, Figure I). Saline water will be produced from the San Andres formation at depths ranging from 3762' to 4943' below the surface. A copy of the log (Log No. 3) of this well is attached. Gulf's application to appropriate ground water from this source has been properly advertised and affidavit of publication filed with the State Engineer.
- (6) Prior to any expansion of the Unit, applicant will request that the expansion be authorized by administrative approval. Unit Operator will file with the Commission an executed original or an executed counterpart of the Stuart Langlie Mattix Unit Agreement within thirty (30) days after the effective date of the approved Unit and/or after the effective date of any approved expansion.
- (7) The order of the Commission should become effective upon the final approval of the Unit Agreement by the Commissioner of Public Lands of the State of New Mexico, Working Interest Owners and the United States Geological Survey, and terminate ipso facto upon termination of the Unit Agreement.

Gulf Oil Corporation has obtained preliminary approval of the Unit Agreement from both the U.S.G.S. and the Commissioner of Public Lands, and a copy of this application, complete with all attachments, has been sent to the State Engineer Office, Santa Fe, New Mexico.

It is requested that this matter be set for hearing before an examiner.

Respectfully submitted,

GULF OIL CORPORATION

M. I. Taylor

Attachments LCS:sz

cc: United States Department of the Interior Geological Survey Post Office Box 1857 Roswell, New Mexico 88201

> Commissioner of Public Lands State of New Mexico Post Office Box 1148 Santa Fe, New Mexico 87501

State Engineer Office Post Office Box 1079 Santa Fe, New Mexico 87501

New Mexico Oil Conservation Commission Post Office Box 1980 Hobbs, New Mexico 88240

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## FIGURE NO. III

RECOMMENDED WATERFLOOD PATTERN PROPOSED STUART LANGLIE MATTIX UNIT LEA COUNTY, NEW MEXICO

- LEGEND -
- Proposed Unit Boundary
  - Unqualifying Tract
  - Langlie Mattix Pool Well
- 🕺 🛛 Jalmat Pool Gas Well
- 🗶 🛛 Langlie Mattix Jalmat Gas Dual
- 风山 Justis Pool Gas Well
- Injection Well
- Well to be drilled for Injection

GULF OIL CORPORATION ROSWELL DISTRICT (REVISED SEPTEMBER, 1967)

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TABLE I

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SCTION WELL DETAIL JUART LANGLIE MATTIX UNIT JOUNTY, NEW MEXICO

#Tubing & Packer	Set @	3214' 3385' 3180'	3265° 3240°	 3268' 3092'	31 87 °	3217' 3236' 3224' 3278'
TERVALS Perf Or OH	Btm	3431 ° 3435 ° 3420 °	3424 . 3424 .	 3378' 3461 °	3423'	3444 3430 3432 3432
TINJ.IN Gross PRODUCTION CASING And/	Top	3264 ' 3324 ' 3220 '	3315' 3291'	 3318' 3142'	3237*	3267° 3286° 3274° 3328°
	Cmt. Top	1665°** 524°** Surface**	Unknown Unknown	Unknown Unknown Unknown	930'**	Surface Unknown Unknown Unknown
	Cement	200 sx 350 sx 350 sx	125 sx 125 sx	<b>215 sx</b> 75 sx 200 sx	252 sx	300 FX 300 FX 615 F 500 FX
	Depth	3264 ° 3224 3220	3315' 3291'	2850 3404 ° 3142 °	3237 *	3267° 3286° 3274° 3328°
	Size	7" 7" 5-1./2"	*~~~	" " "	58	88 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
IATE CASING	Cmt. Top	∦ 1 î ≫ 1 1	Unknown Unknown	730' © 2794 ' ) Unknown	** "171	Surface Unknown Unknown Unknown
	Cement	600 sx	100 SX 100 SX	75 sx ner (Top 200 sx	100 sx	500 sx 500 sx 260 sx 250 sx
NTERMED	Depth	2473°	1348° 1202°	1295' L1 1308'	1289°	1130° 538° 1445°
н	Size	9-5/8" 	8-1/4" 8-5/8"	8-1/4" 8-5/8"	8-5/8"	9-5/8" 9-5/8" 9-5/8"

i "A" (or equivalent) Tension Type Packers

Care 3683