1 1 - 409

Gulf Oil Company-U.S.

PRODUCTION DEPARTMENT
MIDLAND DISTRICT

W. B. Hopkins
DISTRICT PRODUCTION MANAGER

J. L. Pike
DISTRICT OPERATIONS MANAGER

DISTRICT OPERATIONS MANAGER

M. B. Moseley

January 21, 1974

P. O. Drawer 1150 Midland, Texas 79701 415 - 642 - 7301

M. B. Moseley
DISTRICT SERVICES MANAGER
A. J. EVAINS, Jr.
DISTRICT ENVIRONMENTAL & SAFETY MANAGER
J. C. HOWARD
DISTRICT EMPLOYEE RELATIONS MANAGER

Mr. A. L. Porter, Jr. Oil Conservation Commission P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Sir:

Gulf Oil Corporation respectfully requests your administrative approval to utilize two additional water injection wells within the project area of the Central Drinkard Unit, namely Unit Wells 119 and 160, in Sections 30 and 29, respectively, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

The Central Drinkard Unit Waterflood Project was authorized May 6, 1965 under Order No. R-2904, Case No. 3241 and expanded February 8, 1972 under Order No. R-4256. Case No. 4652. Water injection began into six pilot wells on September 12, 1967. The pilot project succeeded in recovering a significant amount of additional oil thereby proving that successful waterflooding of the Drinkard formation was feasible. The project has been expanded since 1972 to include fifteen additional water injection wells as Phase I of the project. The Phase II portion of the project of the operation was to be initiated after cooperative arrangements were made with offset operators. The conversion to injection of Wells 119 in Unit I of Section 30 and 160 in Unit E of Section 29 of T-21S, R-37E was included in Phase II. Further study in this area has revealed that offset wells have been very poor producers with oil cumulatives of approximately 35,000 barrels per well as compared to recoveries for Unit Wells 160 and 163 of 170,000 to 197,000 barrels. Some offset wells are now completed in other zones while others are marginal producers. Due to the poor pay quality underlying the offset leases in the immediate area of Wells 119 and 160, we do not plan to arrange for cooperative line injection and see no reason to delay conversion of Unit Wells 119 and 160 to injection service.

These proposed conversions will close the pattern for center producer Unit Well No. 160 and provide for a three-way push for Unit Well No. 120. The conversion of these wells will improve sweep efficiency and prevent additional oil from being swept off the unit area.



Mr. A. L. Porter, Jr. January 21, 1974
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In support of this application the following is submitted:

- 1) A plat of the project and surrounding area showing the location of injection and producing wells.
- 2) Logs of Unit Wells No. 119 and 160.
- 3) Diagramatic sketches of the proposed injection wells showing all casing strings, including diameters and setting depths, quantities used and tops of cement, perforated or open-hole intervals, tubing strings, including diameters and setting depths, and the type and location of packers.
- 4) Produced water as well as brackish San Andres water from supply wells on the unit will be injected into the Drinkard formation at a depth of approximately 6500 to 6650 feet. Initial injection volumes will be at an approximate rate of 1,000 barrels and declining after fillup. It is anticipated that water will be injected initially by vacuum and the maximum well head pressures will be in the range of 2000 to 3000 psi.

A copy of this letter, with attachments, is being furnished offset operators Texaco Inc. and MacDonald Oil Corporation. We respectfully request these offset operators, if they have no objection, to execute a letter of waiver and forward to the New Mexico Oil Conservation Commission in Santa Fe. A waiver, with stamped addressed envelope, is attached.

Your early approval of this request will be appreciated.

Yours very truly

L. PIKE

CFK: jm Attachments

cc: Joe D. Ramey, Supervisor
Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Offset Operators - List attached

OFFSET OPERATORS

Texaco Inc.
P. O. Box 3109
Midland, Texas 79701

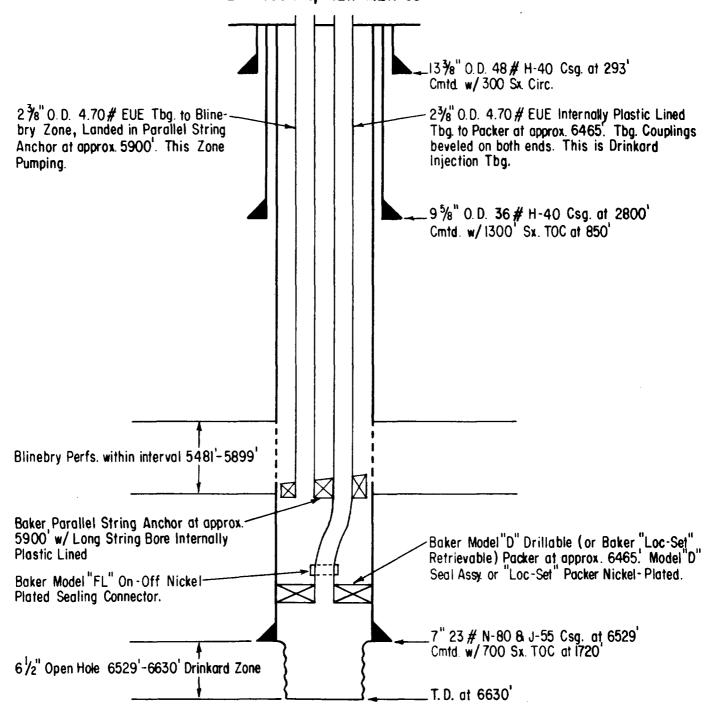
MacDonald Oil Corporation 1210 Western United Life Bldg. Midland, Texas 79701

Gulf Oil Corporation P. O. Box 1150 Midland, Texas 79701

- SCHEMATIC DIAGRAM OF PROPOSED COMPLETION ----

CENTRAL DRINKARD UNIT NO. 119-WIW

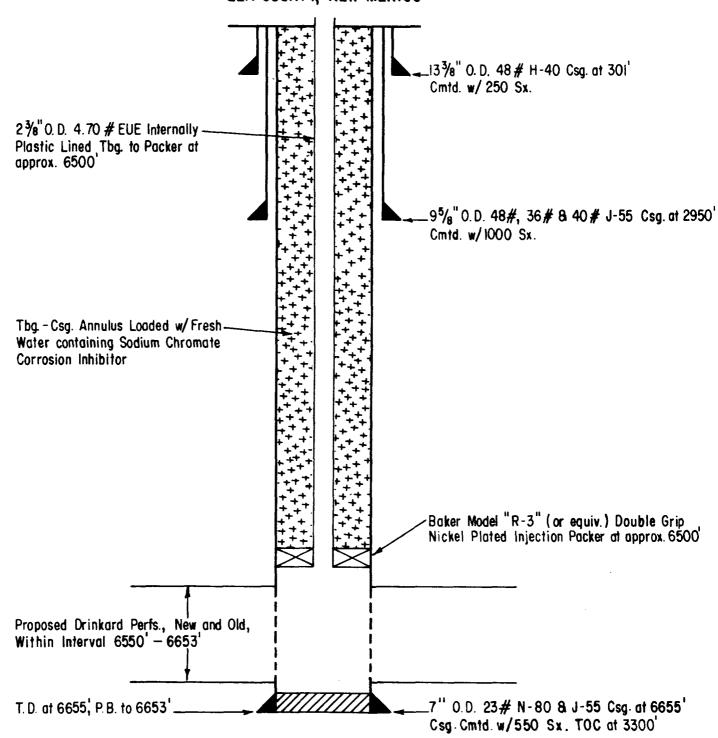
DUALLED w/ GULF'S H.T. MATTERN (NCT-B) NO. 8-BLINEBRY OIL LOCATION: 330' FEL, 2160' FSL, SEC. 30, T-21-S, R-37-E LEA COUNTY, NEW MEXICO



Set for bearing

CENTRAL DRINKARD UNIT NO. 160~WIW

LOCATION: 1980' FNL, 660' FWL, SEC 29, T-21-S, R-37-E LEA COUNTY, NEW MEXICO



Ok for iden dap.

OIL CONSERVATION COMMISSION ____DISTRICT

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OIL CONSERVATION COMMISSION	DATE	Jan. 23, 1974
BOX 871 SANTA FE, NEW MEXICO	Re:	Proposed Triple Proposed NSL Proposed NFO
Gentlemen:		Proposed DC X
I have examined the application dated	1/1	8/74
for theGulf Oil Corp. H. T. Mattern (NCT-B)		30-21-37
Operator Lease and Well	l No.	S-T-R
o.KJ.D.R.	**************************************	
O.KJ.W.R.		
Yours very t	ruly,	

Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

This is to advise that as an offset operator, we have been duly notified of Gulf Oil Corporation's application to inject water into two additional wells in the Central Drinkard Unit Waterflood Project located in Lea County, New Mexico as follows:

Well No.	Location
119	330' FEL & 2160' FSL Unit I, Section 30, T-21S, R-37E
160	660' FWL & 1980' FNL, Unit E, Section 29, T-21S, R-37E

As an authorized representative of the offset operator, you are advised that we hereby waive any objection to approval of water injection into these wells.

Yours very truly,

TEXACO INC.
Offset Operator

Address P. O. Box 3109

City & State Midland, Texas 79701

Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501



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As an authorized representative of the offset operator, you are advised that we hereby waive any objection to approval of water injection into these wells.

Yours very truly,

MACOUNTED (1/ORD)
Offset Operator

B

City & State //4/4/10 Tex.45 7976

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