NEW MEXICO OIL AND GAS COMMISSION WATERFLOOD APPLICATION DATA

FIELD P	EARSA_L		COUNTY	LEA		
OPERATOR_	AMBASSADOR OIL CO	DRPORATION		Marine and the second seco	_DATE_	2-11-64
LEASE	PEARSALL	QUEEN SAND UNIT		4	que.	
RESERVOIR	QUEEN		· · · · · · · · · · · · · · · · · · ·	DISCOVERY	DATE	JANUARY, 19
. RESERV	OIR AND FLUID CHARA	ACTERISTICS				
Α.	INFORMATION ON ENT	TIRE RESERVOIR				
В.	1. NAME OF FORMATI 2. ESTIMATED PRODU 3. COMPOSITION (SA 4. TYPE OF STRUCTO 5. TYPE DRIVE DURI 6. ORIGINAL RESERV 7. WAS GAS CAP PRE INFORMATION ON PRO (INCLUDE PLAT OF INJECTION WELLS, 1. NUMBER OF PRODU 2. AVERAGE DEPTH 3. AVERAGE EFFECT 4. AVERAGE HORIZON 5. AVERAGE HORIZON	JCT: VE AREA OF ENAND, LIMESTONE, DE STRATIGRA (INC.) ING PRIMARY PRODUCTION PRESSURE EST ESENT ORIGINALL? DPOSED PROJECT ARE AND OFFSET WELLS JCTIVE ACRES IN LETTER OF PAY (FEILL PAY THICKNESSITY (%) II	OLOMITE, ETPHIC LUDE CROSS- CTION SOLU IMATED 850 NO EA LOODED, SHO). EASE (S) TO ET) 3,650 (FEET)	SANGESECTION AND JITION GAS PSI AT PRESENT DWING PRODUCTOR D BE FLOODED 15	NO ING WELL 960	_S, PROPOSED
	6. CONNATE WATER OF OIL			VISCOSITY	UNKNOV	٧N
II. PRIMA	RY PRODUCTION HISTO	DRY				
	1. DATE FIRST WELL 2. OIL, GAS, WATER WELL AS IN TABL 3. STAGE OF DEPLE 4. NUMBER OF PROPO 5. AVERAGE DAILY O 6. CUMULATIVE OIL	R PRODUCTION BY MODULAR FORM.) TION OF PROJECT A DICING WELLS ON EACH DIL PRODUCTION PE	ONTHS SINCE REA CH LEASE IN R WELL AT F	STRIPPER N PROJECT ARE PRESENT TIME	(GRAPH) EA 12	
III. RESU	LTS - EXPECTED					
	I. ESTIMATED ORIG 2. ESTIMATEDOIL SA 3. ESTIMATED RESID 4. ESTIMATED ULTIM RESULT OF INJECTION	ATURATION AT PRES Dual oil Saturati Mate additional o	ENT TIME (9 ON AT ABANG	OF PORE SPOONMENT L BE RECOVER	33	
	EXAMINER NU	1				

IV. INJECTION

	Source of INJECTED WATER	(FORMATION)	DEPTHS) COMMERCIAL WATER COMPANY
2.	FRESH OR SALT WATER	FRESH		,

3. FLOOD PATTERN AND SPACING 5 SPOT - 80 ACRES
4. INITIAL INJECTION PRESSURE TO BE USED (PSI) 700
5. ESTIMATED INITIAL PER WELL RATE OF INJECTION (BBLS.) 500
6. LIST COMPLETE INJECTION WELL DATA ON REVERSE SIDE OF THIS SHEET.

INJECTION WELL DATA

	WELL No.	! ~ 2	3-1	4-2	4A-1	9-1
Sur, csg,	SIZE LENGTH Sxs. CEMENT	8 5/8" 1,051 50	8 5/8" 1,119 75	8 5/8" 1,015 100	8 5/8" 1,116 75	8 5/8" 73 100
PROD, CSG,	Size Length Sxs. Cement	7" 3,650 100	7" 3,500 ±	7" 3,470 200	7" 3,500 100	5½" 3,789 250
TUBING	Length Packer Depth	3,650 3,630	3,470 3,470	3,450 3,450	3,470 3,470	3,730 3,730
° O Z	DEPTH THRU CSG. OR TUBING?	3,700 TUBING	3,650 тиві NG	3,670 TUBING	3,750 TUBI NG	3,760 TUBING

BEFORE THE OIL CONSERVATION COMMISSION 3

IN THE MATTER OF THE APPLICATION OF AMBASSADOR OIL CORPORATION FOR THE APPROVAL OF THE PEARSALL QUEEN SAND UNIT AND WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO

NO. 3005

APPLICATION FOR APPROVAL OF

PEARSALL QUEEN SAND UNIT AND MATERFLOOD PROJECT

Comes now the applicant, Ambassador Oil Corporation, whose address is Box 9338, Fort Worth, Texas, and files herewith three copies of the proposed Unit Agreement for the development and operation of the Unit Area of the Pearsall Queen Sand Unit and hereby makes application for approval of said Unit as provided by law and for further approval of a Waterflood Project pursuant to Rule 701 of the Rules and Regulations of the Commission and in support thereof states:

 That the Unit Area covers the following described land in Lea County, New Mexico, to-wit:

Township 17 South, Range 32 East, N.M.P.M.

Section 32: SE's, Plant

Township 18 South, Range 32 East, N.M.P.M.

Section 4: Signet, NWhitele, NWh Section 5: NEW, Elphon, Elphon, Wisele, NEWSEL

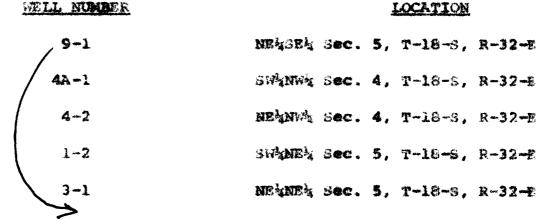
containing 960 acres, more or less.

2 That all of the lands subraned in the trate have a

17 south, Range 32 East, containing 240 acres, which is State land.

- 3. That the applicant, Ambassador Gil Corporation, is designated as Unit Operator in the Unit Agreement and, as such, is given the authority under the terms thereof to carry on the operations for the discovery, development and production of the unitized substances.
- 4. That the Unit Agreement is in substantially the same form as Unit Agreements heretofore approved by the Commissioner of Public Lands of the State of New Mexico, the New Mexico Oil Conservation Commission and the United States Geological Survey. It is believed that the secondary recovery operations can be more economically and efficiently carried on under the terms of said Agreement to the end that the maximum recovery will be obtained and that the Unit Agreement is in the interest of conservation of oil and gas and the prevention of waste as contemplated by the statutes of the State of New Mexico.
- 5. That application is being made to the Commissioner of Public Lands and the United States Geological Survey for the approval of the Unit Agreement.
- 6. That in excess of 80% of the working interest owners have heretofore executed the Unit Agreement and the Agreement provides that any party owning rights in the unitized substance who does not commit such rights to the Unit Agreement before the effective date thereof may thereafter become a party by subscrib-

- 7. That the proposed Unit will lead to a more efficient and orderly development and operation of the Waterflood Project proposed by the applicant in the Unit Area and is necessary to allow the applicant to completely develop and operate the Water-flood Project.
- 8. That within 30 days after the effective date of the Pearsall Queen Sand Unit Agreement, the applicant will file with the Commission an executed or original counterpart of the Agreement, and in the event of a subsequent joinder of any party or expansion or contraction of the Unit Agreement, as provided by the terms thereof, the Unit Operator will file with the Commission within 30 days thereafter counterparts of the Unit Agreement reflecting the subscription of those interests having joined or ratified.
- 9. Applicant desires to initiate a Waterflood Project to inject fresh water into existing wells on the following described tract within the Unit Area:



10. That all of the wells in the Unit Area have reached an advanced stage of depletion and are stripper wells.

- 12. That in support of said Application and in accordance with the provisions of Rule 701, applicant submits herewith the following exhibits:
 - Exhibit A a plat showing the location of the proposed injection wells and the location of all other wells and lesses within a two mile radius
 - Exhibit B a plat showing proposed injection wells, Unit Area, proposed Pilot Area, injection well locations and development program
 - Exhibit C Injection Well Casing Program
- 13. Applicant proposes to inject fresh water into the Queen Sand at an approximate depth of 3650 feet and to inject approximately 500 barrels per well per day of water to be developed at the location or purchased from a public utility, which water will be commingled with produced water.

WHEREFORE, applicant requests the Commission set this down for hearing before an examiner at an early date, publish the notice required by law and, after hearing, issue its Order:

- 1. Approving the Pearsall Queen Sand Unit Agreement.
- 2. Authorizing the Waterflood Project covering the lands embraced in the Unit Agreement.
- 3. Establishing rules for the operation of the flood within the area and for administrative expansion and of conversion of additional wells to water injection wells.

Respectfully submitted,
AMBASSADOR OIL CORPORATION