## Bailey, Sipes, Williamson & Runyan, Inc.

CONSULTING ENGINEERS

Successor to LLC&C Engineering, Inc.

ROBERT F. BAILEY, P.E.-PRESIDENT L. D. SIPES, JR., P. E. ROY C. WILLIAMSON, JR., P. E. E. E. RUNYAN, P. E. T. SCOTT HICKMAN, P.E.

November 24, 1969

1100 V & J TOWER MIDLAND, TEXAS 79701 915 683-1841

Mr. Albert Metcalfe Tamarack Petroleum Co., Inc. 910 Building of The Southwest Midland, Texas 79701

Dear Mr. Metcalfe:

Subject: Northeast Pearl Queen Unit
Pearl Queen Field, Lea County, New Mexico

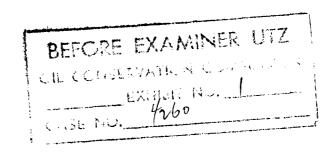
This letter presents supporting data for requesting the conversion of Unit Well No. 18 (Gulf State No. 1) to water injection service.

The subject Unit became effective October 1, 1969. The attached Figure No. 1 shows the outline of the Northeast Pearl Queen Unit. Figures 2, 3 and 4 are net effective pay isopach maps of pay zones designated as IV, V and VII respectively. All figures show current injection wells in blue and proposed injection wells in red within the unit area. Permission to inject into the other wells designated as "proposed" was requested at a hearing dated 9-10-69. This request was granted along with formation of the unit. Also attached is a down hole diagramatic sketch and a log of Unit Well No. 18. The log shows pay designations and current and proposed perforations.

The following described land constitutes the proposed unit area.

<u>T-19-S, R-35-E</u>	Sec. 15	E/2 of $SW/4$ , $W/2$ of $SE/4$ and $SE/4$ of $SE/4$
	Sec. 22	E/2 of NE/4
	Sec. 23	N/2 and $N/2$ of $S/2$
	Sec. 24	W/2 of $NW/4$ , $NE/4$ of $NW/4$ and $NW/4$ of $SW/4$

The following table shows the proposed injection zones and the anticipated injection rates for Unit Well No. 18.



Mr. Albert Metcalfe Tamarack Petroleum Co., Inc. November 24, 1969 Page No. 2

# Proposed Injection Well

Well	Zones	Injection Rates Bbls of Water/Day		
Unit Well No. 18	V & VII	150		

This well is located in Section 23, Unit L.

No cooperative injection program is anticipated with leases lying outside the unit area. There is no development to the north, east or south of the unit and the East Pearl Unit to the west of this proposed unit is already under injection.

If further information is required, please give us a call.

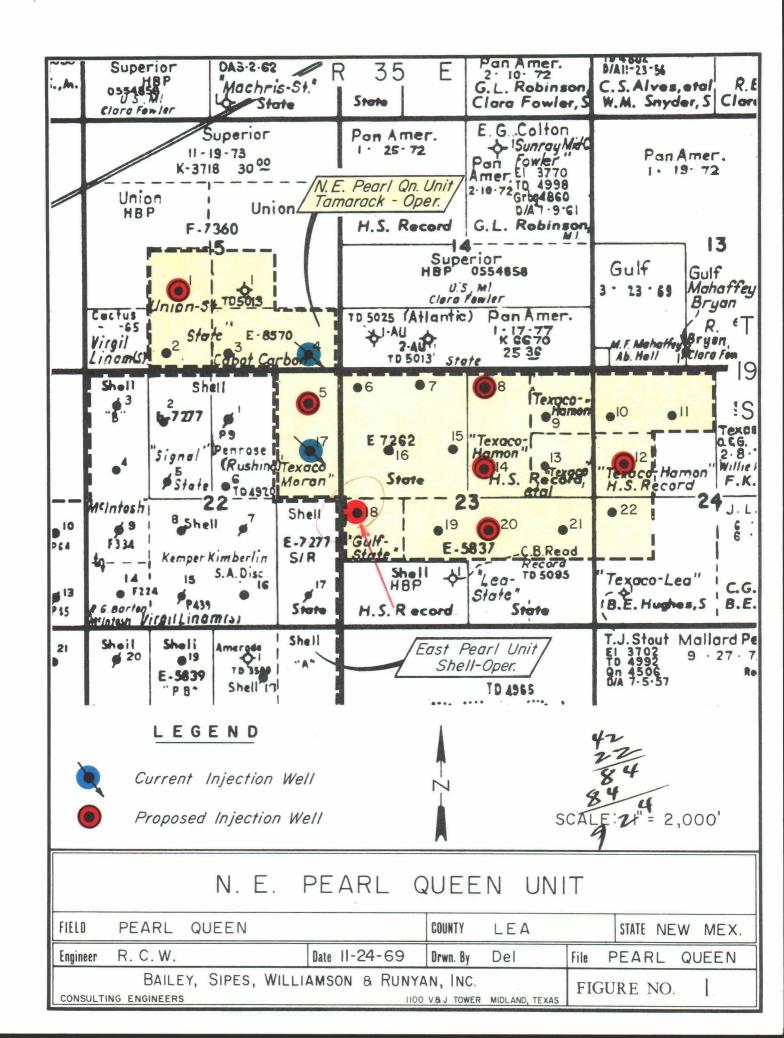
Very truly yours,

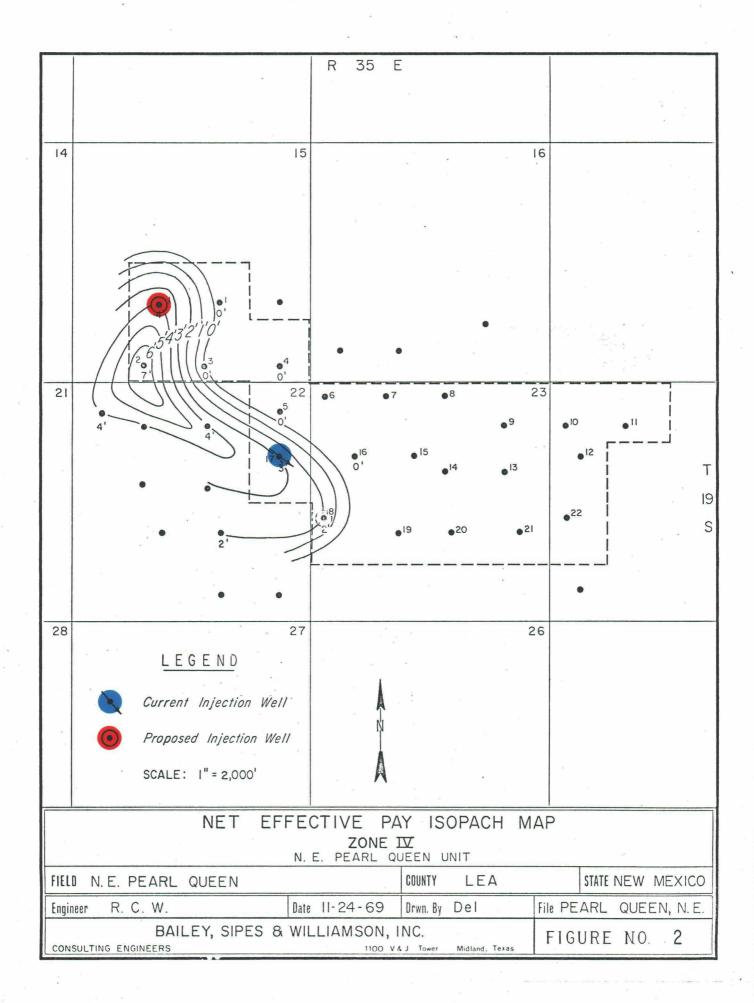
BAILEY, SIPES, WILLIAMSON & RUNYAN, INC.

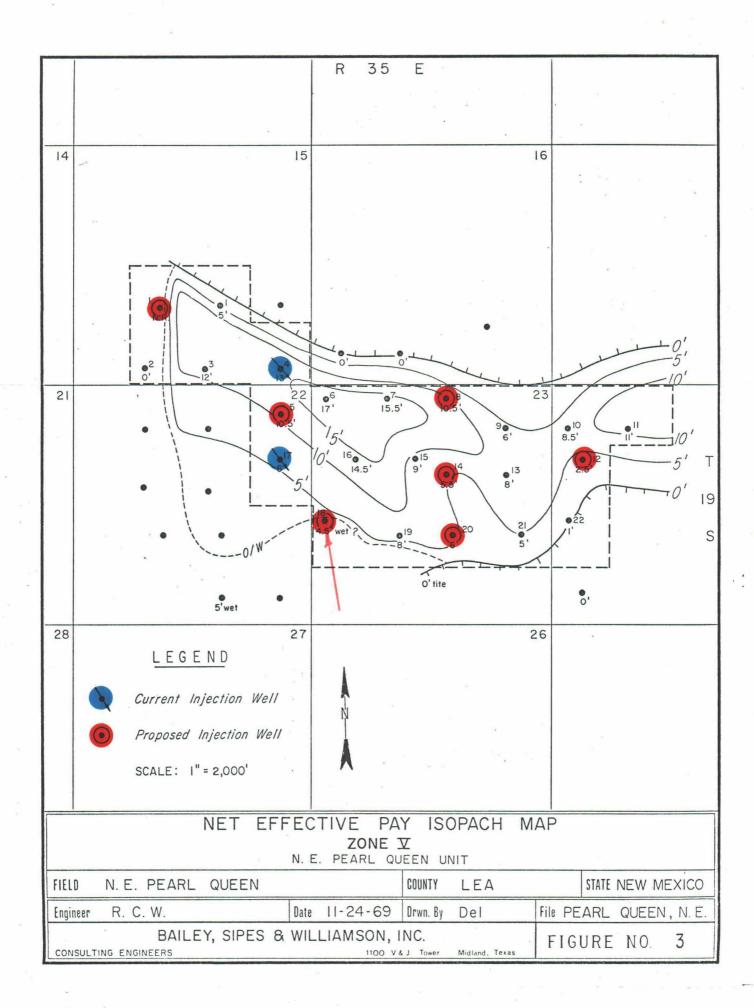
Roy C. Williamson, Jr. P. E

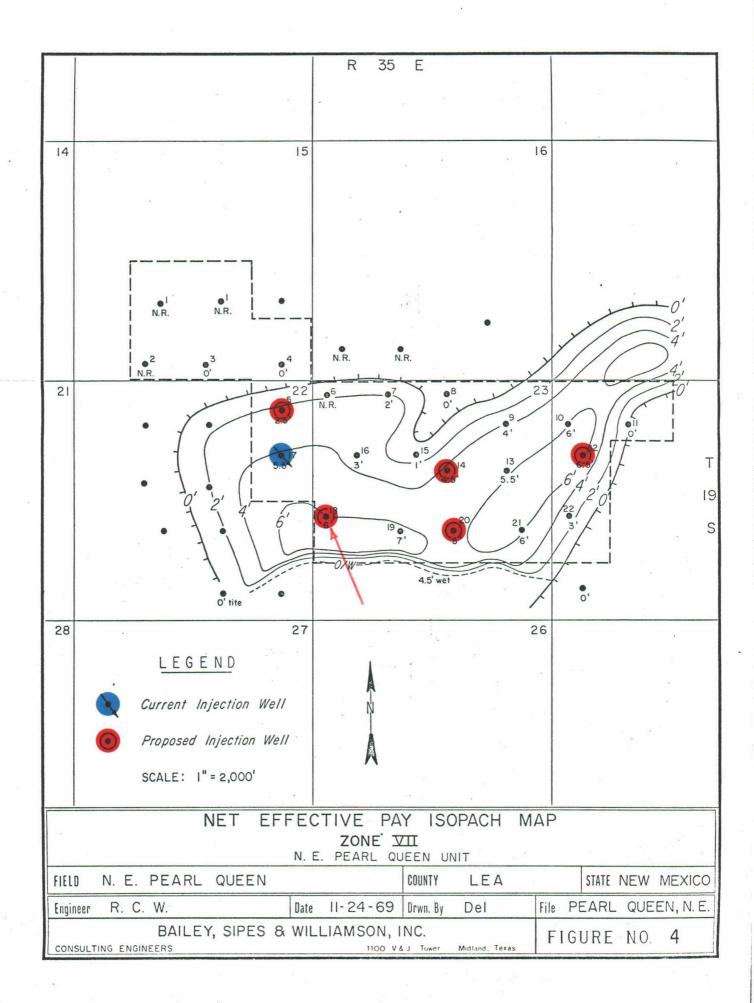
zt

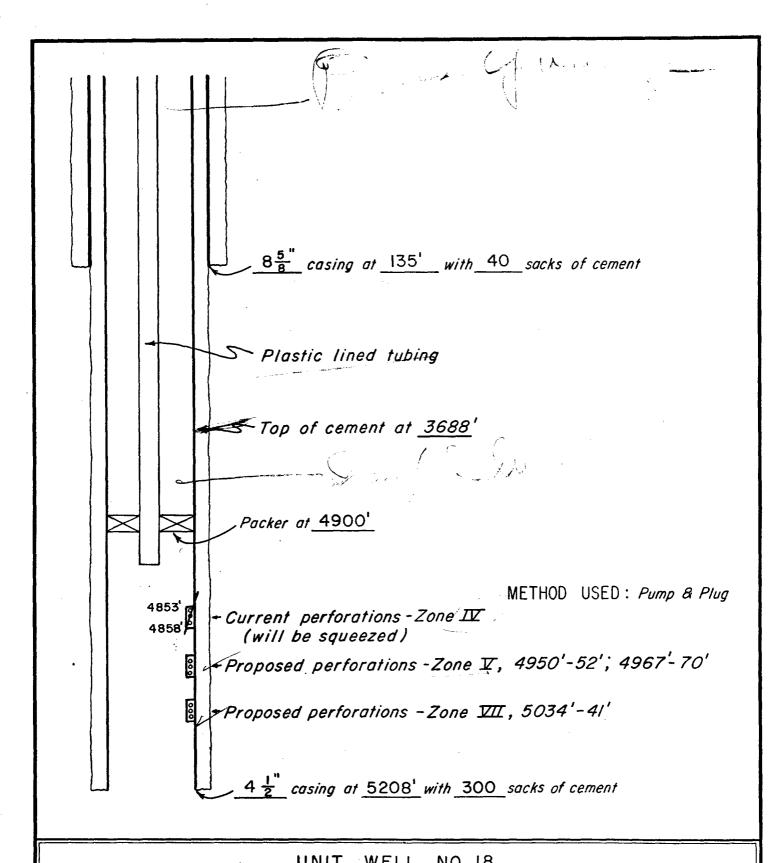
Attachments



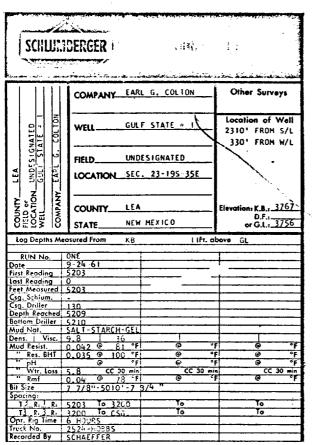








Gulf State No. 1								
FIELD N. E. PEARL QUEEN		COUNTY	LEA		STATE NEW MEX.			
Engineer R. C. W.	Date 11-24-69	Drwn. By	Del	File P	EARL QUEEN, N.E.			
BAILEY, SIPES, WILLIAMSON & RUNYAN, INC.  CONSULTING ENGINEERS  FIGURE NO.								

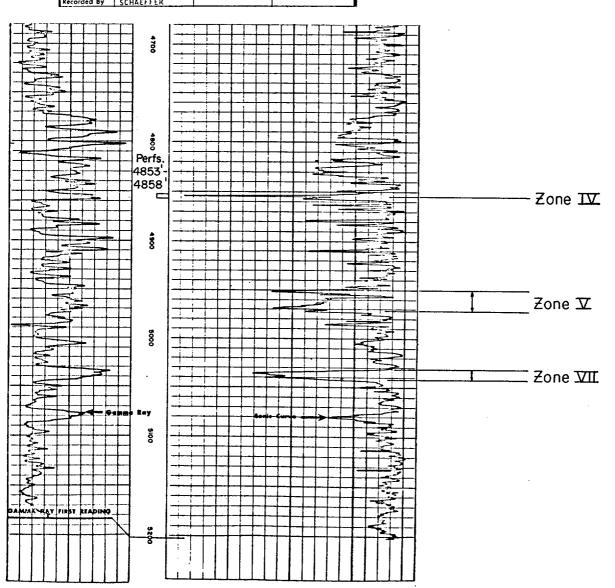


Reproduced By
West Jexas Electrical Log Service
Dellos 2, Texas

REFERENCE W1655M



2 COMPLETION RECORD



## OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE. NEW MEXICO 87501

December 2, 1969

Mr. Jason Kellahin Kellahin & Fex Attorneys at Law P. O. Box 1769 Santa Fe, New Mexico

Dear Mr. Kellahin:

Enclosed herewith is Commission Order No. R-3888, entered in Case No. 4260, approving the expansion of the Tamarack NE Pearl Queen Waterflood Project.

Injection through the one newly authorized water injection well shall be through plastic-lined tubing set in a packer located at approximately 4900 feet. The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface.

As to allowable, our calculations indicate that when all of the authorised injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 924 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district provation office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable previsions of Rule 701, it behooves him to promptly netify both of the aforementioned Commission offices

### OIL CONSERVATION COMMISSION

P. O. BOX 2088

### SANTA FE, NEW MEXICO 87501

-2-

December 2, 1969

Mr. Jason Kellahin Kellahin & Fox Attorneys at Law P. O. Box 1769 Santa Pe, New Mexico

by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitisation, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/DSM/esx

cc: Oil Conservation Commission P. O. Box 1980 Hobbs, New Maxico

> Mr. D. E. Gray State Engineer Office Santa Fe, New Mexico