



E. C. GENT  
VICE PRESIDENT.

# DOME PETROLEUM CORP.

SUITE 1500, COLORADO STATE BANK BLDG.

1600 BROADWAY

DENVER, COLORADO 80202

TELEPHONE  
(303) 861-1230

NOV 20 1978

Santa Fe

November 15, 1978

SWD-213

Due-12/1/78

Mr. Joe D. Ramey  
Secretary - Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Application for Salt Water Disposal  
Leggs Entrada Pool  
San Juan County, New Mexico

Gentlemen:

Dome Petroleum Corp., the operator of two producing wells in the Leggs Entrada Pool, respectfully submits this Application to Dispose of Saltwater by Injection into a Porous Formation for administrative approval. In support of this application are the following required data:

1. A plat of Township 21 North, Range 10 West, San Juan County, New Mexico depicting all wells in the area, their status, and lease ownership.
2. A Dual Induction Laterolog run on the open hole portion of the Santa Fe Barbs #1 showing various geologic formation tops.
3. A diagrammatic sketch of the proposed injection well showing casing strings set, type tubing, packer fluid, perforations and top of cement.
4. Three copies of Commission Form C-108, Application to Dispose of Saltwater by Injection into a Porous Formation.
5. An analysis of produced Entrada water which is to be disposed.

Mr. Joe D. Ramey  
November 15, 1978  
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Per instructions, a copy of this complete application is being sent to the offset lease owners, the surface owner, the New Mexico State Engineer, and the NMOCC Aztec Office.

We trust the aforementioned application is in order, however, if questions arise, please contact the undersigned collect at (303)-861-1230.

Yours very truly,

DOME PETROLEUM CORPORATION

A handwritten signature in cursive script, reading "William E. Babyak".

William E. Babyak  
Manager, Reservoir Engineering

WEB/kas

Encl.

cc: Bureau of Indian Affairs - Window Rock  
New Mexico State Engineer  
NMOCC - Aztec Office

NEW MEXICO OIL CONSERVATION COMMISSION  
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR <b>Dome Petroleum Corporation</b>		ADDRESS <b>1600 Broadway, Denver, CO 80202</b>	
LEASE NAME <b>Santa Fe - Barbs</b>	WELL NO. <b>1</b>	FIELD <b>Leggs Entrada Pool</b>	COUNTY <b>San Juan</b>
LOCATION UNIT LETTER <b>M</b> ; WELL IS LOCATED <b>990</b> FEET FROM THE <b>South</b> LINE AND <b>500</b> FEET FROM THE <b>West</b> LINE, SECTION <b>10</b> TOWNSHIP <b>21N</b> RANGE <b>10W</b> NMPM.			
<b>CASING AND TUBING DATA</b>			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING	<b>9-5/8"</b>	<b>197</b>	<b>200</b>
INTERMEDIATE			
LONG STRING	<b>7"</b>	<b>5607</b>	<b>940</b>
TUBING	<b>3-1/2"</b>	<b>5350</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Baker Model "FA"</b>
NAME OF PROPOSED INJECTION FORMATION <b>Entrada</b>		TOP OF FORMATION <b>5428</b>	BOTTOM OF FORMATION <b>5600</b>
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLE? <b>Perforations</b>	PROPOSED INTERVAL(S) OF INJECTION <b>5566 - 5600</b>
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Test potential oil pay</b>		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>No</b>
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>None</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>5400'</b>	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>None</b>
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) <b>1000</b>	MINIMUM <b>1000</b>	MAXIMUM <b>5000</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>
IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Pressure</b>		APPROX. PRESSURE (PSI) <b>1000</b>	
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - <b>Yes</b>		WATER TO BE DISPOSED OF <b>Yes</b>	
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>The Navajo Tribe, Bureau of Indian Affairs, Window Rock, Az.</b>		NATURAL WATER IN DISPOSAL ZONE <b>Yes</b>	
ARE WATER ANALYSES ATTACHED? <b>Yes</b>			
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>Chaco Canyon National Monument</b>			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? <b>Yes</b>		SURFACE OWNER <b>Yes</b>	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) <b>Yes</b>		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>Yes</b>	
		THE NEW MEXICO STATE ENGINEER <b>Yes</b>	
		ELECTRICAL LOG <b>Yes</b>	
		DIAGRAMMATIC SKETCH OF WELL <b>Yes</b>	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

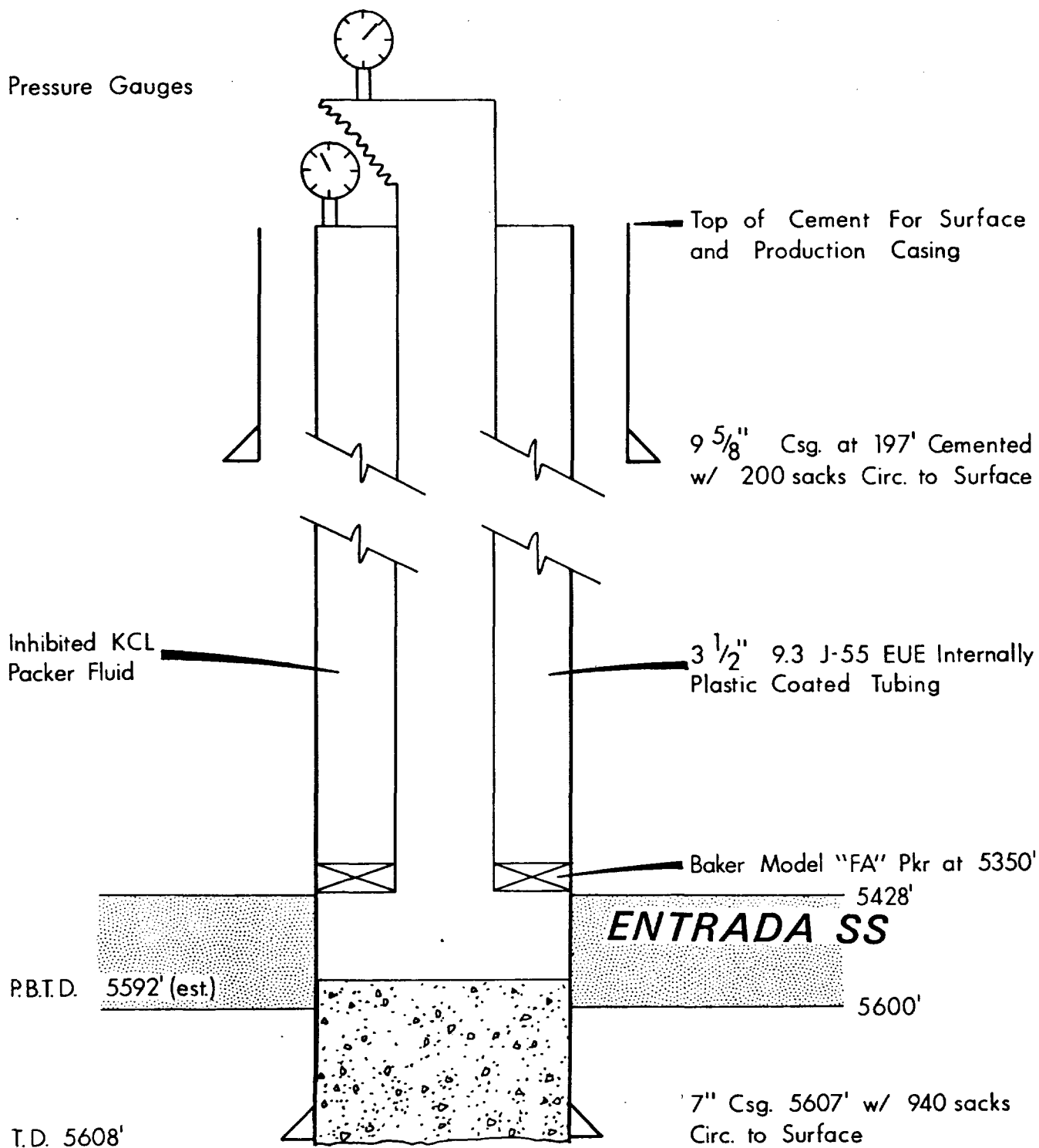
*William E. Babzyak, P.E.*  
(Signature)

**Manager, Reservoir Engineering**  
(Title)

**November 7, 1978**  
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

Pressure Gauges



**FIELD:** LEGGS ENTRADA POOL  
**WELL & NO:** SANTA FE BARBS #1  
**SPUD DATE:** 10/9/78  
**KB:** 6416' **GL:** 6404'  
**TOTAL DEPTH:** 5608'  
**LOCATION:** 990' fsl, 500' fwl, Sec.  
10, T 21 N, R 10 W  
**COUNTY:** SAN JUAN **STATE:** N.M.  
**TYPE WELL:** WATER DISPOSAL



**DOME PETROLEUM CORP.**  
DENVER, COLORADO U. S. A.

**WELL BORE SCHEMATIC**  
**SANTA FE BARBS #1 (SWD)**  
**LEGGS ENTRADA**

SCALE:

DATE:

FILE NO.:

**Minerals Management Inc.**

# DOME DENVER

Oct 29 '13

ECG	RBW	PVA	WTC
	JB	ROB	DI
AS	JD	RO	KA
WEB	TG	DW	SE
JG		PM	IG
			MM
			DN
SB			NS
EP			
ECT	BF		FILE

OIL CONSERVATION COMMISSION  
Ayer DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE 11-27-78

RE: Proposed MC \_\_\_\_\_  
Proposed DHC ✓ \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated 11-7-78  
for the Dome Petroleum Corp. Santa Fe Basin #1 M-10-21N-10W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

W. Kendrick