OIL CONSERVATION COMMISSION OGC DISTRICT

OIL CONSERVATION COMMISSION	DATE May 2, 1977
BOX 2088	
SANTA FE, NEW MEXICO	RE: Proposed MC Proposed DHC
	Proposed NSL
	Proposed SWD
0 0 10 0	Proposed WFX
Carl Allreg	Proposed PMX
Gentlemen:	
I have examined the application dated_	4-25-77
	contound M = 164 =
for the Dany Petroleum Corp. Mavage Operator Lease and	i Well No. Unit, S-T-R
and my recommendations are as follows:	
and my recommendations are as recommendations	
appoul	
-//	
	Yours very truly,
	and Kerdrick



Dome Petroleum Corp.

Suite 1500, Colorado State Bank Bldg.

1600 BROADWAY

Telephone (303) 861-1230

DENVER, COLORADO 80202

APR 2 1977

CONCERNATION COMM
Scotte To

April 25, 1977

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

Re: Application for Saltwater Disposal Papers Wash Entrada Pool Section 15, T19N, R5W McKinley County, New Mexico



Gentlemen:

Dome Petroleum Corp., the operator of all of the currently producing wells in the Papers Wash 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 19 North, Range 5 West showing all wells drilled to date, their status and the various lease ownerships. Important factors to note here are a) five producing Entrada wells (15-1 thru 15-4 and 22A-1) and b) the absence of any presently producing wells other than the aforementioned in the Township.
- 2. A diagrammatic sketch of the well to be drilled for saltwater disposal. The important factor of note here is the Navajo Allotted 15-6 is to be drilled and cased thru the Entrada Formation. Any tests on the Entrada will be adequately squeezed thru a cement retainer. In addition, Dome plans to cement in two stages utilizing an inflatable packer and a "DV" tool to insure adequate cement to surface over the length of the pipe. This technique was successfully employed on the Navajo Allotted 15-3, 15-4, and 22A-1, cement being circulated to the surface in all cases.
- 3. A copy of a Water Analysis performed on produced water from the Federal 15-1. This analysis indicates the water to have a total dissolved solids content of 3010 parts per million.

Mr. Joe D. Ramey New Mexico Oil Conservation Commission April 25, 1977 Page two

4. A copy of Form C-108 detailing significant well data, offset operations, and information distribution.

Per instructions, three copies of this application are enclosed. In addition, by copy of this letter, the New Mexico State Engineer, the Navajo Tribe (surface owner), and the offset operators within one-half mile are being notified of this application.

It is Dome's understanding that the Secretary-Director, upon receiving no objection within fifteen (15) days of this application, can give Administrative Approval. We hope the Application is in order and appreciate your cooperation in this matter.

Yours very truly,

W. E. Babyak

District Engineer

W. E. Dabyak

WEB:km

cc: Mrs. Billie Robinson
P. O. Box 1281
Santa Fe, New Mexico 87501

New Mexico State Engineer State Land Office Building P. O. Box 2088 Santa Fe, New Mexico 87501

Navajo Tribe Office of Mineral Development P. O. Box 146 Window Rock, Arizona 86515 Attn: W. B. Armstrong

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-108 Revised 1-1-65

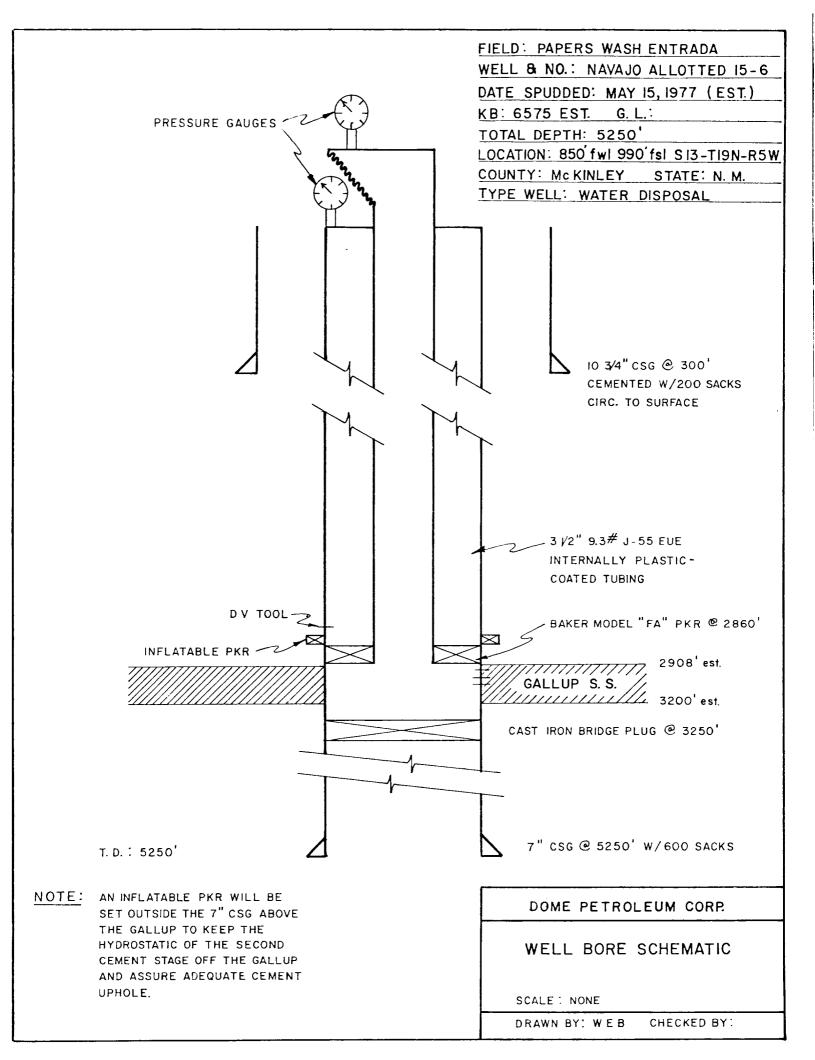
APR 2 2 1977

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

<u> </u>										· · · · · · · · · · · · · · · · · · ·	
	etroleum (Corp.			ון	600 Bi	roadwaj	y, Denver,		<u>ाहित्रिप्रभागित (</u> 202 ^{mbg ी}	*f(2); 7)
	Allotted			15-6	FI	apers				McKinl	ey
LOCATION	UNIT LETTER	M; w	ELL IS L	OCATED	850	FEET 1	FROM THE_	West	INE AND	990	ET FROM THE
South	LINE, SECTION	15	WNSHIP	19N	RANGE	_E 51	N	NMPM,			
<u> </u>				CASING	AND TU	BING DA	TA				
NAME OF	STRING	SIZE	SETTI	NG DEPTH	SAC	KS CEM	ENT	TOP OF CEME	ENT	TOP DETERMI	NED BY
INTERMEDIATE		10-3/4"	2	25'		200		surface		circulatio	n
LONG STRING											
		7"	52	50'		00		Surface		cinculatio	n
TUBING		3-1/2"			-			UBING PACKER 0 2860			
NAME OF PROPOSED	INJECTION FORMA		L		TO	OP OF FOR	MATION	·	BOTTOM C	OF FORMATION	
Gallup						2908	I	(est)	3200	(est)	
IS INJECTION THROU	GH TUBING, CASIN	G, OR ANNULUS?		PERFORATIONS	OR OPEN	HOLE? F	ROPOSED I	NTERVAL(S) OF INJE	CTION		
Tubing		Tie angues is		perfora				determined			
IS THIS A NEW WELL	C DRIECED FOR	ANSWER 13	NO, FOR	WHAT FURFUS	E WAS IN	ELE ORIGI	NACET DRI	LCED!	ZONE OTH	EVER BEEN PERFO ER THAN THE PROPO E? NO	SED INJEC-
LIST ALL SUCH PER	FORATED INTERVAL	LS AND SACKS OF CE	MENT U	SED TO SEAL OF	FF OR SQL	UEEZE EA	c H		!		
											
DEPTH OF BOTTOM OF FRESH WATER ZONE)'	OIL OR	of bottom of gas zone in t None	NEXT HIG	HER		DEPTH OF TO OIL OR GAS Z	ONE IN THIS	LOWER C AREA	
ANTICIPATED DAILY	MINIMUM	TMAXIMUM		OPEN OR CLOSE	D TYPE S	YSTEM	IS INJEC	TION TO BE BY GRA	-	APPROX. PRESSUR	E (P51)
INJECTION VOLUME (BBLS.)	6000	15000		Closed				essure		750	
ANSWER YES OR NO ERALIZED TO SUCH A STOCK, IRRIGATION,	A DEGREE AS TO B	E UNFIT FOR DOMES	E MIN- TIC,	!	TO BE DIS	SPOSED O	F NATURA SAL ZON			disposed wt	
NAME AND ADDRESS	OF SURFACE OWNE	ER (OR LESSEE, IF S	TATE OR					Yes	162-0	uisposeu wi	
Navajo A	llotted -	Contract No	. NO	0-C-14-2	0-537	7					
		son P. O. <u>Bo</u>						1			
MIS. DII	THE KODINS	SON F. U. DC	<u> </u>	or, sanc	a ie,	Nerte	0/30	<u> </u>			
					···		•				
HAVE COPIES OF THE SENT TO EACH OF TE	IS APPLICATION BE HE FOLLOWING?	!	ER		EA OF	THIS WE	TOR WITHI	N ONE-HALF MILE	!	MEXICO STATE ENG	INEER
ARE THE FOLLOWING		YES TO PLAT OF AREA			EL	YES.	LOG		YES	MATIC SKETCH OF W	ELL
THIS APPLICATION (Yes			1			yet drille	I	Yes	
	I hereby ce	ertify that the inf	ormatic	on above is t	-					belief.	
11, iles	m ()	dock P	4	Distri	ct En	ginee	r		March	24, 1977	
	(Signature)		: -		<u> </u>	(Title)	<u> </u>		المحالمونيات	(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.





CORE LABORATORIES, INC.

Petroleum Reservoir Engineering DALLAS, TEXAS

WATER ANALYSIS

File WA-5 CompanyDome Petroleum Corp. Well Name Fed. 15 Well No. 1 Sample No. SS-1 ____Sampled From___ ____County_McKinley N.M. State

RGC

Total Dissolved Solids 3010.1 mg/L

Formation_

Location Sec 15 T 19 N R 5W

Date Sampled 3-8-77

Sp. Gr. 1.001 @ 70 °F.

Resistivity 2.55 ohm-meters @ 70 °F.

Hydrogen Sulfide Not Detected

Engineer_

pH___7.60

Constituents	meq/L	mg/L
Sodium	44.36	1019.8
Calcium	0.80	16.0
Magnesium	0.16	2.0
Iron	0.05	1.3
Barium	N.D.	N.D.
Darium		

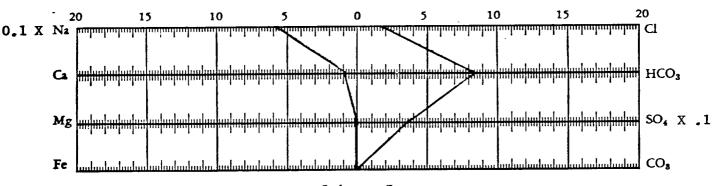
_____Depth_

___Field_

Date Analyzed 3-13-77

Constituents	meq/L	mg/L
Chloride _	0.84	29.9
Bicarbonate .	8.31	506.9
Sulfate	36.22	1740.0
Carbonate	N.D.*	N.D.
Hydroxide _	N.D.	N.D.

* ND = Less than 0.1 mg/L



Scale: meq/L

All analyses except iron determination performed on a filtered sample.