

# DOME PETROLEUM CORP.

SUITE 1500, COLORADO STATE BANK BLDG. 1600 Broadway DENVER, COLORADO 80202

Telephone (303) 861-1230 TELEPHONE

July 14, 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 Snake Eyes Entrada Pool Section 20, T20N, R8W San Juan County, New Mexico

### Gentlemen:

Dome Petroleum Corp., the operator of the currently producing wells in the Snake Eyes Entrada Pool, under terms of Commission Rule 701 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 showing all wells and leases within a 2 mile radius of the proposed disposal well
- 2. The log of the Santa Fe 20-2 proposed injection well
- 3. A diagrammatic sketch of the Santa Fe 20-2 well which is proposed for saltwater disposal
- 4. A copy of a water analysis performed on the Santa Fe 20-1 well which is representative of the water to be injected into the Morrison Formation
- 5. A copy of Form Cl08 detailing significant well data, offset operations and information distribution

Per instructions, three copies of this application are submitted hereto. In addition, by copy of this letter the New Mexico State Engineer, the Navajo Tribe (surface owner) and the offset operators within 1/2 mile are being notified of this application.

Mr. Joe D. Ramey New Mexico Oil Conservation Commission July 14, 1977 Page 2

It is Dome's understanding that the Secretary-Director, upon receiving no objection, within 15 days of receipt of this application can give administrative approval. We hope this application is in order and very much appreciate your cooperation in this matter.

Yours very truly,

W. E. Babyak

District Engineer

WEB:km Enclosures

cc: Southern Union Supply Co. First International Bldg. Dallas, Texas 75270

> Bureau of Indian Affairs Windowrock, Arizona

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

### NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR		<u> </u>	ADDRESS			
Dome Petroleum	Corp.			roadway, Denver,	CO 80202	
Santa Fe and Pacific	c Railroad	20-2	Snake	Eyes Entrada	San Juan	
LOCATION  UNIT LETTER	F; w	ELL IS LOCATED	2150 FEET F	ROM THE North	INE AND FEET FROM THE	
West LINE, SECTION	20 10	WNSHIP 21N	range 8W	NMPM.		
		CASING	AND TUBING DA	TA		
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEME	NT TOP OF CEME	ENT TOP DETERMINED BY	
SURFACE CASING	0.54011	0301	3.75		0. 1	
INTERMEDIATE	9-5/8"	213'	175	Circulated	Circulation	
LONG STRING						
	7"	5842'	1200	Circulated	Circulation	
TUBING		00.12	1	PEPTH OF TUBING PACKER		
	3-1/2"	2860 '	Baker Mode	1 "FA"		
NAME OF PROPOSED INJECTION FORMA	TION		TOP OF FOR		BOTTOM OF FORMATION	
Jurassic Morrison	C. OR ANNIII 1152	DERECRATION	. OR OPEN HOLE? I D	5078'	5110'	
Tubing	or annough,	Perfora	- 1	5078'-5110'	ection	
IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS	NO, FOR WHAT PURPO		· · · - · · · ·	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJEC-	
No	En-	trada Product	tion		TION ZONE? Yes	
LIST ALL SUCH PERFORATED INTERVA	LS AND SACKS OF C	EMENT USED TO SEAL	OFF OR SQUEEZE EAC	н		
None						
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA NONE		DEPTH OF BOTTOM OF OIL OR GAS ZONE IN	F NEXT HIGHER This area	DEPTH OF TO	P OF NEXT LOWER ONE IN THIS AREA	
ANTICIPATED DAILY T MINIMUM INJECTION VOLUME I	MAXIMUM	Dakota	4640'	IS INJECTION TO BE BY GRA	da 5638'	
(BBLS.)	8000			PRESSURE?	800	
ANSWER YES OR NO WHETHER THE FOLE	LOWING WATERS AR	E MIN- WATER	] TO BE DISPOSED OF	Pressure	ARE WATER ANALYSES ATTACHED?	
STOCK, IRRIGATION, OR OTHER GENER.		1	25	Yes	Yes	
NAME AND ADDRESS OF SURFACE OWN	ER (OR LESSEE, 1F :	STATE OR FEDERAL LAN	ND)		l IES	
Bur <u>eau of</u> Indian A		ndow Rock, Ar	rizona			
LIST NAMES AND ADDRESSES OF ALL	OPERATORS WITHIN	ONE-HALF ( 1/2 ) MILE OF	THIS INJECTION WE	. L		
Southern Union Sur	ply Company	<mark>/. Suite 1800</mark>	), First Int	<u>ernational Build</u>	ing, Dallas, Texas 75270	
				-		
				•		
	<del></del>					
HAVE COPIES OF THIS APPLICATION BEEN SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE		THE NEW MEXICO STATE ENGINEER		
SENT TO EACH OF THE FOLLOWING?	1	1		L ONE-BALL WILE	!	
ARE THE FOLLOWING ITEMS ATTACHED THIS APPLICATION (SEE RULE 701-B)		Yes PLAT'OF AREA		LOG	DIAGRAMMATIC SKETCH OF WELL	
	Yes	Yes			Yes	
I hereby ce	ertify that the inf	ormation above is	true and complete	to the best of my knowl	ledge and belief.	
11: 5 Balonal	PE	D: a+	ict Engineer		July 15 1977	

(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,

(Title)

(Signature)

if the applicant so requests. SEE RULE 701.



## CORE LABORATORIES, INC.

Petroleum Reservoir Engineering
DALLAS, TEXAS

# RECEIVED

MAR 25 1977

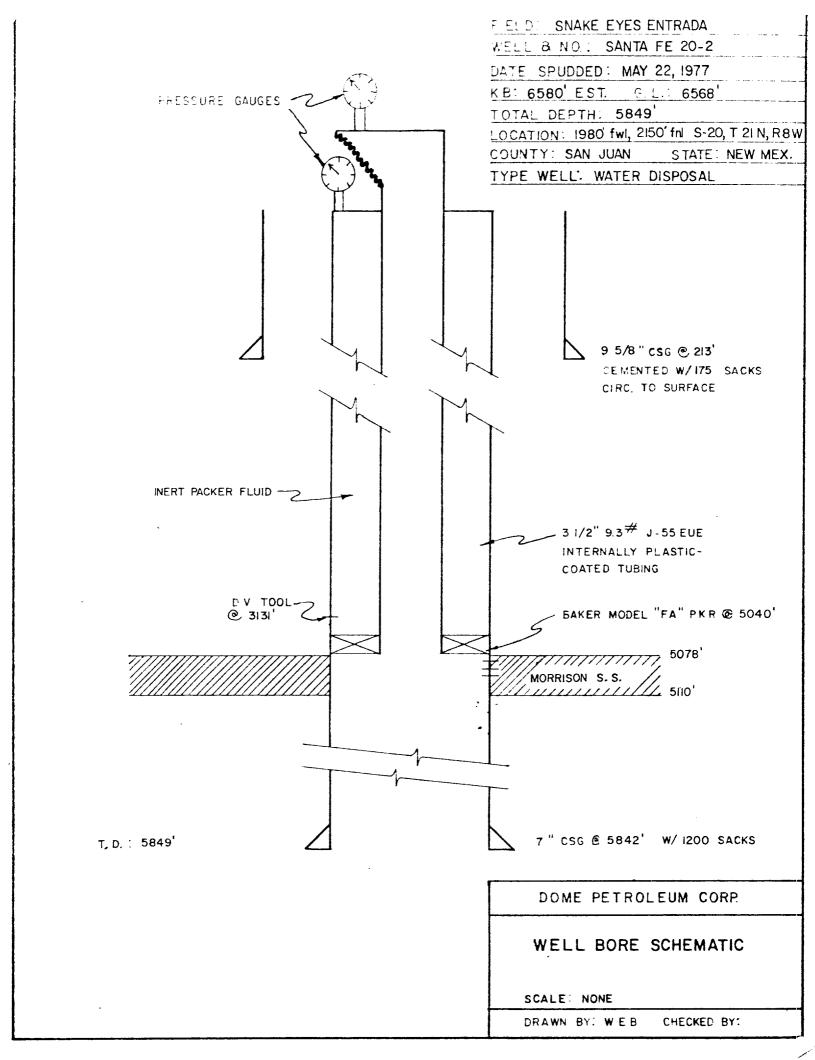
Minerala Management Inc.

WATER ANALYSIS

			File_	WA - 5		
Company Dome Petrole	um Corp.	Well Name Sante Fe 20	No. 1 Samp	ole No. SS-2		
Formation		Depth	Samp	Sampled From		
Location Sec 20 T 21N	r 8W	Field	County_S	an Juan Sta	iteN.M	
Date Sampled 3-9-77		_Date Analyzed 3-13-77Engineer RGC				
Total Dissolved Solids 11,	114.5 mg/L		S <sub>F</sub>	o. Gr. <u>1.009</u> @	70_°F.	
Resistivity 1.0 ohm-me	ters @ <u>70</u> °		Hydrogen Su	lfide Present		
		pH 7.73	-			
Constituents	meq/L	mg/L	Constituents	meq/L	mg/L	
Sodium	140.44	3228.7	Chloride	25.47	903.0	
Calcium	1.35	27.0	Bicarbonate	41.73	2546.0	
Magnesium	0.73	8.9	Sulfate	91.61	4400.0	
Iron	0.03	0.9	Carbonate	ND	ND*	
Barium	ND	ND	Hydroxide	ND	ND	
<b>₩</b> - 1 -	- +h 0 1	/I				
*ND = Les	s than 0.1	mg/L	•			
20 1 0.01X N <sub>2</sub> попроционня		<del>արարակարարարարարգորութա</del> ր	5 10	15 թողուդուգութուրութուրո	20 TIM CI X 10	
Ca mhaladadha	<del>ududududududud</del>	<del>ախախակավավասիակվավ ավասիա</del>		<del> mpapapapapapa</del>	HCO <sub>3</sub> X .10	
Mg		ա <u>իտիսվուվուվուվուվ</u> ուկուկու		<del> </del>	so <sub>4</sub> x .10	
Felllll	ուսականունը և և			<u>համասիակում</u> ահահահահա	LILLI CO <sub>3</sub>	

All analyses except iron determination performed on a filtered sample.

Scale: meq/L



# OIL CONSERVATION COMMISSION OUT DISTRICT

OIL CONSERVATION COMMISSION BOX 2088 SANTA FE, NEW MEXICO  Cast Thug	JUL 28 197.  "CONSERVINGON COMM. Suma Fe	Proposed MC Proposed NSL Proposed SWD Proposed WFX Proposed PMX	
Gentlemen:			
I have examined the app for the Journ Setrolen	n Cop Santa de 20	-15-77 -12 F-20-2 Unit, S-T-	
Operator and my recommendations are a	·	Unit, S-T-	К
approve			H
			<del></del>
	Yours	s very truly,	
		1 / 100	,

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