



E. C. GENT
VICE PRESIDENT

DOME PETROLEUM CORP.

SUITE 1500, COLORADO STATE BANK BLDG.

1600 BROADWAY

DENVER, COLORADO 80202

TELEPHONE
(303) 861-1230

November 23, 1977

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
Ojo Encino Entrada Pool
McKinley County, New Mexico

Gentlemen:

Dome Petroleum Corp., the operator of two producing wells in the Ojo Encino 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 20 North, Range 5 West, McKinley 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 Federal #3 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.

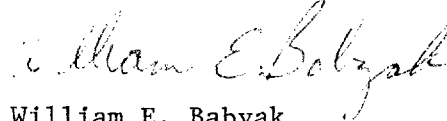
Mr. Joe D. Ramey
November 23, 1977
Page 2

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 CORP.



William E. Babyak
District Engineer

WEB:jag
Attachments

cc: Mrs. Billie Robinson
Gulf Energy & Minerals
Bureau of Land Management
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 Dome Petroleum Corp.				ADDRESS 1600 Broadway, Denver, CO 80202	
LEASE NAME Federal		WELL NO. 3	FIELD Ojo Encino		COUNTY McKinley
LOCATION UNIT LETTER M ; WELL IS LOCATED 930 FEET FROM THE South LINE AND 520 FEET FROM THE West LINE, SECTION 21 TOWNSHIP 20N RANGE 5W NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	9 5/8"	204	200	Surface	Circulation
INTERMEDIATE					
LONG STRING	5 1/2"	4421	1070	Surface	Circulation
TUBING	3 1/2"	3700	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model "FA"		
NAME OF PROPOSED INJECTION FORMATION Gallup			TOP OF FORMATION 3526		BOTTOM OF FORMATION 3970
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 3750-3970		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? As an Entrada Test (subsequently dry)				HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No
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 1830		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5970'	
ANTICIPATED DAILY INJECTION VOLUME (BBL'S.) 3000	MINIMUM 3000	MAXIMUM 5000	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 300
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 --			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? on disposed water
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Bureau of Land Management, Santa Fe, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Mrs. Billie Robinson, P. O. Box 1281			Santa Fe, New Mexico 87501		
Gulf Energy and Minerals Co. (U.S.)			P. O. Drawer 1150, Midland, TX 79701		
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA Yes		ELECTRICAL LOG Yes	
				THE NEW MEXICO STATE ENGINEER Yes	
				DIAGRAMMATIC SKETCH OF WELL Yes	

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

William E. Babzyak
(Signature)

District Engineer
(Title)

November 11, 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, if the applicant so requests. SEE RULE 701.

MB

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR Dome Petroleum Corp. DATE October 28, 1976 LAB NO. 21604-1
 WELL NO. Federal 21 No. 1 LOCATION Sec. 21-20N-5W
 FIELD Wildcat FORMATION Entrada
 COUNTY McKinley INTERVAL _____
 STATE New Mexico SAMPLE FROM (10-20-76)

REMARKS & CONCLUSIONS:

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	3301	143.61	Sulfate	5900	122.72
Potassium	67	1.72	Chloride	1070	30.17
Lithium			Carbonate		
Calcium	238	11.88	Bicarbonate	293	4.81
Magnesium	6	0.49	Hydroxide		
Iron			Hydrogen sulfide		
Total Cations		157.70	Total Anions		157.70

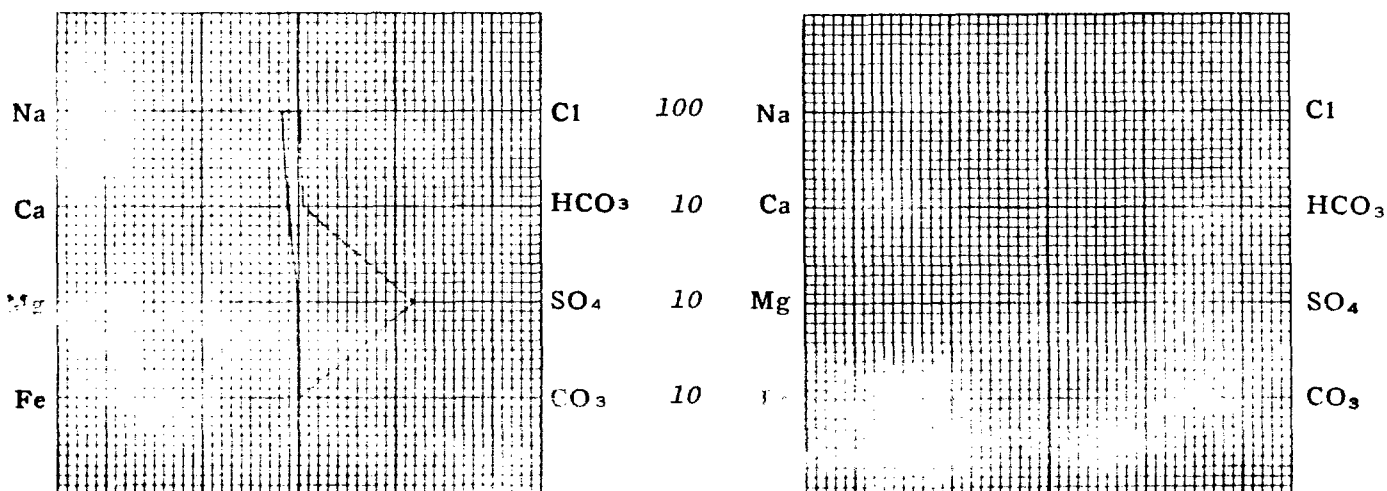
Total dissolved solids, mg/l 10726
 NaCl equivalent, mg/l 7705
 Observed pH 7.6

Specific resistance @ 68°F.:

Observed 0.90 ✓ ohm-meters
 Calculated 0.86 ✓ ohm-meters

WATER ANALYSIS PATTERN

Sample above described
 Scale
 MEQ per Unit



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l Milligrams per liter Meq/l Milligram equivalents per liter

Sodium chloride equivalent by Dunlap & Hawthorne calculation from components

FIELD: OJO ENCINO

WELL & NO.: FEDERAL # 3

DATE SPUDDED: 10 / 16 / 77

KB: 6797' GL: 6785

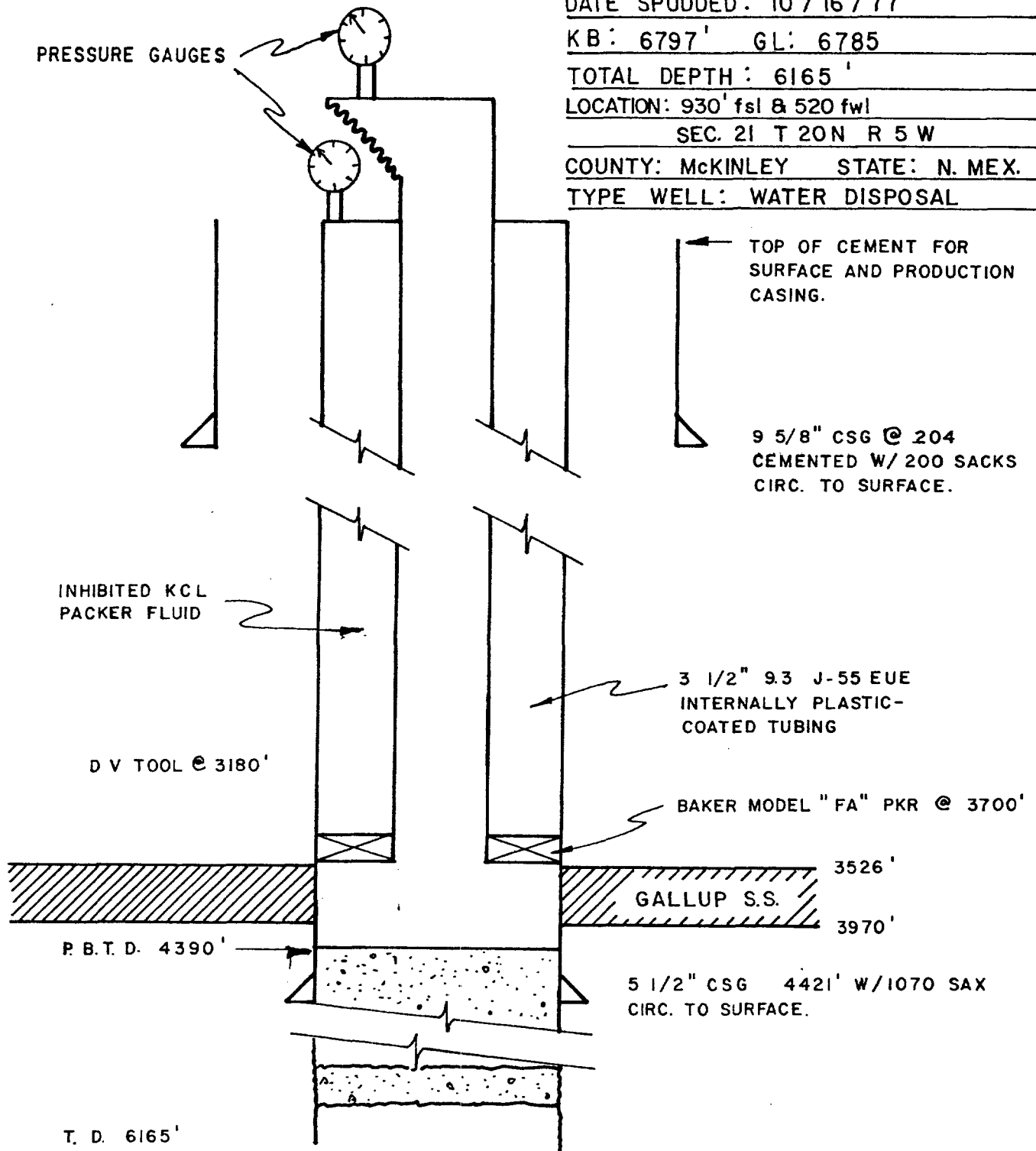
TOTAL DEPTH: 6165'

LOCATION: 930' fsl & 520' fwl

SEC. 21 T 20N R 5 W

COUNTY: MCKINLEY STATE: N. MEX.

TYPE WELL: WATER DISPOSAL



DOM PETROLEUM CORP.
DENVER COLORADO U.S.A.

WELL BORE SCHEMATIC
DOME FEDERAL # 3 (SWD)
OJO ENCINO FIELD

SCALE: NONE

DRAWN BY: WEB

CHECKED BY:

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

December 29, 1977

**Dome Petroleum Corporation
Suite 1500, Colorado State Bank Bldg.
1600 Broadway
Denver, Colorado 80202**

Re: Administrative Order No. SWD-196

Gentlemen:

**Enclosed herewith please find Administrative Order No.
SWD-196 for the following described well:**

**Federal Well No. 3 located in
Unit M of Section 21, Township
20 North, Range 5 West, NMPM,
McKinley County, New Mexico.**

Very truly yours,

**JOE D. RAMEY
Secretary-Director**

JDR/CU/og

**cc: Oil Conservation Commission
1000 Rio Brazos Road
Aztec, New Mexico**

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D. C. 20090

December 29, 1977

Game Petroleum Corporation
Suite 1500, Colorado State Bank Bldg.
1600 Broadway
Denver, Colorado 80202

Re: Administrative Order No. 200-196

Re: 200-196

Enclosed herewith please find Administrative Order No. 200-196 for the following described well:

Federal Well No. 3 located in
Unit M of Section 21, Township
20 North, Range 2 West, NMPN,
McKinley County, New Mexico.

Very truly yours,

JOE M. RABBY
Secretary-Director

BY/AGV/

Oil Conservation Commission
1000 Rio Grande Road
Alto, New Mexico

OIL CONSERVATION COMMISSION
Cyber DISTRICT

NOV 30 1977

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 11-29-77

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD ✓ _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 11-23-77
for the Dome Petroleum Corp. Federal #3 M-21-20N-5W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

AR Kendrick