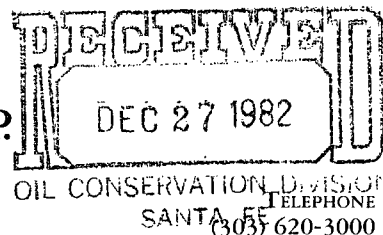




DOME PETROLEUM CORP.

2900 DOME TOWER
1625 BROADWAY
DENVER, COLORADO 80202



December 22, 1982

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

Re: Amendment for Salt
Water Disposal at
Snake Eyes, Entrada Pool
S20-T21N-R8W
San Juan County, NM

Gentlemen:

Attached for your administrative approval is a request to permit disposal of salt water in the Santa Fe 20#2 well into two zones. Your commission has previously approved the Santa Fe 20#2 for salt water disposal in the Morrison sand and later the Entrada sand as per order number SWD-188 and order number R-6220, respectively (see attached orders).

Current water disposal needs cannot be met by either of the above zones individually. However, it is probable that concurrent injection into the Morrison and Entrada would adequately meet Dome's SWD needs and reduce surface pump pressures.

Dome is hereby requesting permission to dispose of salt water down the Santa Fe 20#2 well, in the Morrison and Entrada zones, as shown in the attached proposed wellbore sketch.

It is Dome's understanding that the above request can be presented before the Secretary Directory for consideration since interested parties have had opportunity to voice objections to SWD in the Morrison and Entrada zones as required by New Mexico regulations when these matters were before your commission.

Yours very truly,

DOME PETROLEUM CORP.

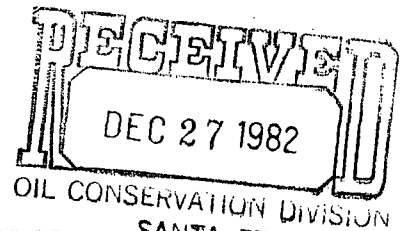
Lubbie A. Jenkins
Lubbie A. Jenkins
Sr. Reservoir Engineer

LAJ/vp

Attachments

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:



CASE NO. 6755
Order No. R-6220

APPLICATION OF DOME PETROLEUM
CORPORATION FOR WATER DISPOSAL,
SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on December 12, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 9th day of January, 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

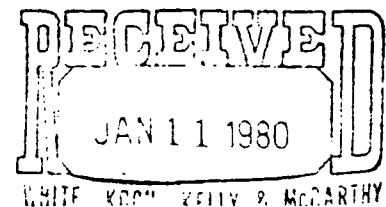
FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Dome Petroleum Corporation, is the owner and operator of the Santa Fe 20 Well No. 2, located in Unit F of Section 20, Township 21 North, Range 8 West, NMPM, Snake Eyes-Entrada Oil Pool, San Juan County, New Mexico.

(3) That the applicant seeks authority to squeeze cement the previously authorized water disposal interval in the Morrison formation in the aforesaid well, and to dispose of produced water in the Entrada formation through the perforated interval from approximately 5756 feet to 5790 feet.

(4) That the injection should be accomplished through 3 1/2-inch plastic lined tubing installed in a packer set at approximately 5200 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge or approved leak detection device should be attached to the



annulus in order to determine leakage in the casing, tubing, or packer.

(5) That the injection well or system should be equipped with a pop-off valve or other acceptable device which will limit the wellhead pressure on the injection well to no more than 1155 psi.

(6) That the operator should notify the supervisor of the Aztec district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.

(7) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(8) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Dome Petroleum Corporation, is hereby authorized to utilize its Santa Fe 20 Well No. 2, located in Unit F of Section 20, Township 21 North, Range 8 West, NMPM, Snake Eyes-Entrada Oil Pool, San Juan County, New Mexico, to dispose of produced water into the Entrada formation, injection to be accomplished through 3 1/2-inch tubing installed in a packer set at approximately 5200 feet, with injection into the perforated interval from approximately 5756 feet to 5790 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

(2) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1155 psi.

(3) That the operator shall notify the supervisor of the Aztec district office of the Division of the date and time

NO. OF COPIES RECEIVED	
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U.S.G.S.	
LAND OFFICE	
OPERATOR	

Form C-105
Revised 11-78

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.
30-045-22531

6. TYPE OF WELL
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>Disposal Well</u>
7. TYPE OF COMPLETION
NEW WELL <input type="checkbox"/> REPAIR OVER <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <u>Change Zones</u>

7. Unit Agreement Name
8. Farm or Lease Name
Santa Fe 20
9. Well No.
2

1. Name of Operator
DOMO PETROLEUM CORP.
2. Address of Operator
501 Airport Dr., Suite 114, Farmington, New Mexico 87401
3. Location of Well

10. Field and Pool, or Wildcat
Snake Eyes Entrada

4. NEUT LETTER <u>F</u>	LOCATED <u>2150</u>	FEET FROM THE <u>North</u>	LINE AND <u>1980</u>	FEET FROM
5. West LINE OF SEC. <u>20</u>	TWP. <u>21N</u>	RGE. <u>8W</u>	HMPM	

12. County
San Juan

6. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
5/22/77	6/1/77	2/8/80 Injection	6568' GR	6568'
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools
5849'	5802'			Cable Tools

24. Was Directional Survey Made
No

4. Producing Interval(s), of this completion - Top, Bottom, Name
5640'-5815' Entrada

25. Was Well Cored
No

5. Type Electric and Other Logs Run
DIL. Formation Density/Neutron, CBL/Gamma Ray

6. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	213	13 1/2"	175 Sacks	None
7"	20# & 23#	5842'	8 3/4"	1200 Sacks - 2 Stage	None

7. LINER RECORD					30. TUBING RECORD	
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					3 1/2"	5158'

31. PACKER SET
5158'

8. Performance Record (Interval, size and number)
5756'-5790'; .40; 2 shots/Ft.

32. ACID, SHOT, FRACTURE, CEMENT SOURCE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED
5756'-5790'	1500 gal. 74% HCL

9. PRODUCTION	
10. Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)
	No Production

Well Status (Prod. or Shut-in)
Started Injection into Entrada 2/8/80.

11. Name of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas-Oil Ratio
Flow Testing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	

12. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

13. List of Attachments

14. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIG-EE	TITLE <u>Drlg. & Prod. Foreman</u>	DATE <u>3/9/81</u>
--------	--	--------------------

THE APPLICATION OF DOME PETROLEUM
CORPORATION FOR A SALT WATER DISPOSAL
WELL.

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Rule 701 (C) Dome Petroleum Corporation made application to the New Mexico Oil Conservation Commission on July 18, 1977 for permission to complete for salt water disposal its Santa Fe and Pacific Railroad Well No. 2 located in Unit F of Section 20, Township 21 North, Range 8 West, NMPM, San Juan County, New Mexico.

The Secretary-Director finds:

1. That application has been duly filed under the provisions of Rule 701 (C) of the Commission Rules and Regulations;
2. That satisfactory information has been provided that all offset operators and surface owners have been duly notified; and
3. That the applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 (C) will be met.
4. That no objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED:

That the applicant herein, Dome Petroleum Corporation, is hereby authorized to complete its Santa Fe and Pacific Railroad Well No. 2 located in Unit F of Section 20, Township 21 North, Range 8 West, NMPM, San Juan County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the Morrison formation at approximately 5078 feet to approximately 5110 feet through 3½ inch plastic lined tubing set in a packer located at approximately 5040 feet.

IT IS FURTHER ORDERED:

That the operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface;

That the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer;

That injection pressures shall not exceed 1025 pounds per square inch as measured at the surface;

That the operator shall notify the supervisor of the Commission's Aztec District Office before injection is commenced through said well;

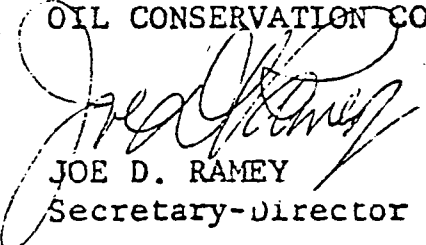
That the operator shall immediately notify the supervisor of the Commission's Aztec District Office of the failure of the tubing, casing, or packer in said well or the leakage of water from or around said well and shall take such steps as may be timely or necessary to correct such failure or leakage.

PROVIDED FURTHER:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after notice and hearing, the Commission may terminate the authority hereby granted in the interest of conservation. That applicant shall submit monthly reports of the disposal operation in accordance with Rule 704 and 1120 of the Commission Rules and Regulations.

APPROVED at Santa Fe, New Mexico, on this 2nd day of August, 1977.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


JOE D. RAMEY
Secretary-Director

S E A L

AUG 24 1979

Form C-105
Revised 11-1-78

DOMO DENVER
NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	6
DISTRIBUTION	
SANTA FE	1
FILE	1
U.S.G.S.	2
LAND OFFICE	2
OPERATOR	2

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	
30-045-22531	

10. TYPE OF WELL	
OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>DISPOSAL WELL</u>
11. TYPE OF COMPLETION	
NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>

7. Unit Agreement Name
8. Farm or Lease Name
SANTA FE 20
9. Well No.
2

2. Name of Operator	
DOMO PETROLEUM CORPORATION	
3. Address of Operator	
501 Airport Drive, Suite 107, Farmington, New Mex. 87401	
4. Location of Well	

10. Field and Pool, or Wildcat
SNAKE EYES ENTRADA

UNIT LETTER <u>F</u>	LOCATED <u>2150</u>	FEET FROM THE <u>NORTH</u>	LINE AND <u>1980</u>	FEET FROM
THE <u>WEST</u>	LINE OF SEC. <u>20</u>	TWP. <u>21N</u>	RGE. <u>8W</u>	WMPM

12. County
SAN JUAN

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RAB, RT, GR, etc.)	19. Elev. Casinghead
05/22/77	06/01/77	08/06/79 INJECTION	6568' GR	6568'

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
5849	5802	---	---	0'-5849'	---

24. Producing Interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
4687'-5200' MORRISON	NO

26. Type Electric and Other Logs Run	27. Was Well Cored
INDUCTION ELECTRIC, FORMATION DENSITY/NEUTRON, GAMMA RAY/CEMENT BOND	NO

28. CASING RECORD (Report all strings set in well)					
" CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	213	13 1/4"	175 sacks	NONE
7"	20# & 23#	5842	8 3/4"	1200 sacks 2 stage	NONE

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					3 1/2"	4756	4757

31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
5078'-5116'	w/ 2 (.45) shots/ft.			DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5030'-5038'	"	"		4796'-5116'	1000 gal. 7 1/2% HCl. Fracked w/
4936'-4948'	"	"			42,000# 20-40 sand.
4860'-4882'	"	"			
4848'-4856'	"	"			
4796'-4804'	"	"			

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
		NO PRODUCTION				SHUT-IN	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Cor.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed by	

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	

TITLE DRILLING FOREMAN

DATE August 11, 1979

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 36 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1165.

Southeastern New Mexico

T. Anhy _____	T. Canyon _____
T. Salt _____	T. Strawn _____
B. Salt _____	T. Atoka _____
T. Yates _____	T. Miss _____
T. 7 Rivers _____	T. Devonian _____
T. Queen _____	T. Silurian _____
T. Grayburg _____	T. Montoya _____
T. San Andres _____	T. Simpson _____
T. Glorieta _____	T. McKee _____
T. Paddock _____	T. Ellenburger _____
T. Blinebry _____	T. Gr. Wash _____
T. Tubb _____	T. Granite _____
T. Drinkard _____	T. Delaware Sand _____
T. Abo _____	T. Bone Springs _____
T. Wolfcamp _____	T. _____
T. Penn _____	T. _____
T. Cisco (Bough C) _____	T. _____

Northwestern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout <u>2454</u>	T. Elbert _____
T. Mancos _____ <u>2573</u>	T. McCracken _____
T. Gallup _____ <u>3343</u>	T. Ignacio Qtzte _____
Base Greenhorn _____ <u>4376</u>	T. Granite _____
T. Dakota _____ <u>4606</u>	T. _____
T. Morrison _____ <u>4687</u>	T. _____
T. Todilto _____ <u>5582</u>	T. _____
T. Entrada _____ <u>5592</u>	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permian _____	T. _____
T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

No. 4, from.....to.....feet.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

