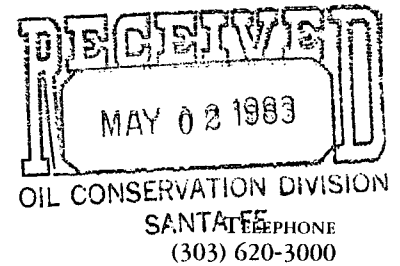




# DOME PETROLEUM CORP.

2900 DOME TOWER  
1625 BROADWAY  
DENVER, COLORADO 80202



April 29, 1983

New Mexico Oil Conservation Commission  
P.O. Box 2088  
Sante Fe, New Mexico 87501

*Case 7877*

Attn: Gilbert Katana

Re: Salt Water Disposal  
Snake Eyes Entrada Pool  
San Juan County, New Mexico

Dear Mr. Katana:

Per your request, enclosed is a copy of the original application we submitted to simultaneously dispose of salt water into the Morrison and Entrada Formations in the Snake Eyes Field.

If you have any additional questions, please do not hesitate to contact me at (303) 620-3136.

Very truly yours,

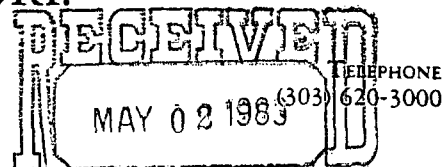
DOME PETROLEUM CORP.

Robert S. Kelley  
Senior Production Engineer



# DOMESTIC PETROLEUM CORP.

2900 DOME TOWER  
1625 BROADWAY  
DENVER, COLORADO 80202



December 22, 1982  
OIL CONSERVATION DIVISION  
SANTA FE

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,

DOMESTIC PETROLEUM CORP.

*Lubie A. Jenkins*  
Lubie 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,

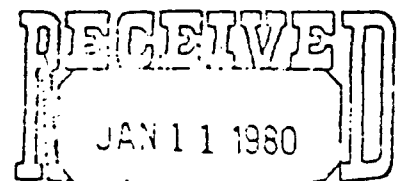
FINDS:

(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;

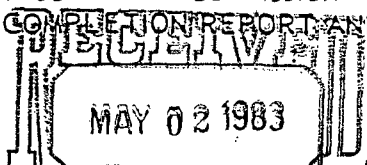
PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing,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

RECEIVED	
INJECTION	
A FE	
LE	
S.O.S.	
AND OFFICE	
PERATOR	

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



Form C-105  
Revised 11-1-81

5a. Indicate Type of Lease

State ☐

Fee ☒

5. State Oil & Gas Lease No.

30-045-22531

7. Unit Agreement Name

8. Farm or Lease Name

Santa Fe 20

9. Well No.

2

10. Field and Pool, or Wildcat

Snake Eyes Entrada

TYPE OF WELL

OIL ☐

GAS ☐

DRY ☐

OTHER ☒ Santa Fe Disposal Well

TYPE OF COMPLETION

NEW ☐

REPAIR ☒

DEEPEN ☐

PLUG ☐

DIFF. ☐

OTHER ☐ Change Zones

Name of Operator

THE PETROLEUM CORP.

Address of Operator

21 Airport Dr., Suite 114, Farmington, New Mexico 87401

Location of Well

LETTER F LOCATED 2150 FEET FROM THE North LINE AND 1980 FEET FROM

West LINE OF SEC. 20 TWP. 21N RGE. 8W

12. County

San Juan

Date Spudded 177/77 16. Date T.D. Reached 6/1/77 17. Date Compl. (Ready to Prod.) 2/8/80 Injection 18. Elevations (DF, RKB, RT, GR, etc.) 6568' GR 19. Elev. Casinghead 6568'

Total Depth 849' 21. Plug Back T.D. 5802' 22. If Multiple Compl., How Many ----- 23. Intervals Drilled By Rotary Tools Cable Tools 0'-5849'

Producing Interval(s), of this completion - Top, Bottom, Name

640'-5815' Entrada

Type Electric and Other Logs Run

IL. Formation Density/Neutron, CBL/Gamma Ray

25. Was Directional Survey Made

No

27. Was Well Cored

No

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

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEFINITION	PACKER SET
					3 1/2"	515R'	515R'

Performance Record (Interval, size and number)

756'-5790'; .40; 2 shots/Ft.

MAR 20 1981

32. ACID, SHOT, FRACTURE, CEMENT SOLUBLE, ETC.

DEPTH INTERVAL AMOUNT AND KIND OF MATERIAL USED

756'-5790'

1500 gal. 7 1/2% HCl

DOMO DENVER

PRODUCTION

Time First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

Well Status (Prod. or Shut-in)

No Production

Started Injection in Entrada 2/8/80.

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

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

Test Witnessed By

List of Abbreviations

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.

SUBJECT: SALE. WATER DISPOSAL WELL.  
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;

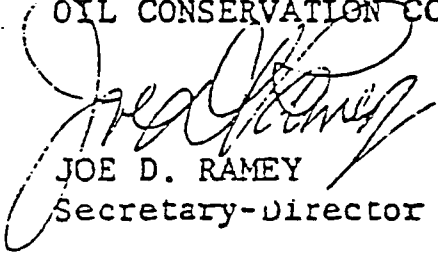
That the operator shall immediately notify the supervisor of the Commission's Aztec District Office of the failure of the tubing, casing, or packer in said well or the leakage of water from or around said well and shall take such steps as may be timely or necessary to correct such failure or leakage.

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 11-68

COPIES RECEIVED	6
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SANTA FE	1
FILE	1
S.G.S.	2
LAND OFFICE	2
OPERATOR	2

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

MAY 02 1983

5a. Indicate Type of Lease  
State ☐ Fee ☒

5. State Oil &amp; Gas Lease No.

30-045-22531

7. Unit Agreement Name

8. Farm or Lease Name

SANTA FE 20

9. Well No.

2

10. Field and Pool, or Wildcat

SNAKE EYES ENTRADA

1. TYPE OF WELL

OIL WELL ☐GAS WELL ☐DRY ☐

OIL CONSERVATION DIVISION

OTHER DISPOSAL WELL

2. TYPE OF COMPLETION

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐OTHER ☐

3. Name of Operator

DOMF PETROLEUM CORPORATION

4. Address of Operator

501 Airport Drive, Suite 107, Farmington, New Mex. 87401

5. Location of Well

6. LETTER F LOCATED 2150 FEET FROM THE NORTH LINE AND 1980 FEET FROM

7. WEST

LINE OF SEC. 20

TWP. 21N

RGE. 8W

MURM

11. County

SAN JUAN

8. Date Spudded

07/22/77

16. Date T.D. Reached

06/01/77

17. Date Compl. (Ready to Prod.)

08/06/79 INJECTION

18. Elevations (DF, RAB, RT, GR, etc.)

6568' GR

19. Elev. Casinghead

6568'

9. Total Depth

5849

21. Plug Back T.D.

5802

22. If Multiple Compl., How Many

---

23. Intervals Drilled By Rotary Tools

0'-5849'

Cable Tools

---

10. Producing Interval(s), of this completion - Top, Bottom, Name

4687'-5200' MORRISON

25. Was Directional Survey Made

NO

11. Type Electric and Other Logs Run

INDUCTION ELECTRIC, FORMATION DENSITY/NEUTRON, GAMMA RAY/CEMENT BOND

27. Was Well Cored

NO

12. 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

13. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					3 1/2"	4756	4757

14. Perforation Record (Interval, size and number)

5078'-5116' w/ 2 (.45) shots/ft.

5030'-5038' "

4936'-4948' "

4860'-4882' "

4848'-4856' "

4796'-4804' "

15. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

4796'-5116' 1000 gal. 7 1/2% HCl. Fracked w.

42,000# 20-40 sand.

16. PRODUCTION

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

NO PRODUCTION

Well Status (Prod. or Shut-in)

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 (Conn.)

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

Text Witnessed By

18. List of Attachments

19. 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



~~CONFIDENTIAL~~

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## Northwestern New Mexico

OIL OR GAS SANDS OR ZONES

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ sect. \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_ sect. \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_ sect. \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_ sect. \_\_\_\_\_

FORMATION RECORD (Attach additional sheets if necessary)

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

[illegible]