

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 9, 1970

Shell Oil Company  
P. O. Box 1509  
Midland, Texas 79701

Attention: Mr. J. L. Mahaffey

Gentlemen:

C  
O  
P  
Y

Your application for authority to dispose of salt water by injection into your Brown Federal "A" Well No. 2 has been received by this office. Your attention is directed to Rule 701 C which states "To obtain administrative approval, operator shall submit in triplicate Commission Form C-108, etc." This is interpreted to mean Form C-108 and attachments listed under Rule 701 B constitute one copy of the application. Your application included two forms C-108, one diagrammatic sketch, one sonic log - Gamma Ray, and one copy of a plat that is too small to read and does not include an area within a radius of two miles from the proposed injection well nor the formation from which the wells are producing. Please forward this necessary data so it can be determined whether or not your application can be processed by administrative procedure.

Thank you for your cooperation in this matter.

Very truly yours,

J. E. KAPTEINA  
Petroleum Engineer

JEK/og

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 9, 1977

Shell Oil Company  
P. O. Box 1809  
Midland, Texas 79701

Attention: Mr. J. L. Manafay

Gentlemen:

Your application for authority to dispose of salt water by injection into your Brown Federal "A" Well No. 2 has been received by this office. Your attention is directed to Rule 701 C which states: To obtain administrative approval, operator shall submit in triplicate Commission Form C-108, etc. This is interpreted to mean Form C-108 and attachments listed under Rule 701 B constitute one copy of the application. Your application included two forms C-108, one diagrammatic sketch, one sonic log Gamma Ray, and one copy of a plot that is too small to read and does not include an area within a radius of two miles from the proposed injection well nor the formation from which the wells are producing. Please forward this necessary data so it can be determined whether or not your application can be processed by administrative procedure.

Thank you for your cooperation in this matter.

Very truly yours,

J. E. KAPTEMA  
Petroleum Engineer

JEN/co



# SHELL OIL COMPANY

PETROLEUM BUILDING  
P.O. BOX 1509  
MIDLAND, TEXAS 79701

70 MAR 6 AM 8 26  
70 MAR 30 AM 8 30

March 3, 1970

Subject: Salt Water Disposal  
Cato Field  
Chaves County, New Mexico

New Mexico Oil Conservation Commission  
State Land Office Building  
Santa Fe, New Mexico 87501

Gentlemen:

Attached is an Application to Dispose of Salt Water by Injection Into a Porous Formation submitted by Shell Oil Company to dispose of salt water into the Brown Federal "A" #2 Well located in Unit E, Section 26, T-8-S, R-30-E, Chaves County, New Mexico. Also attached is a log of the proposed injection well, a diagrammatic sketch of the proposed injection well, and a plat of the area near the proposed injection well. The surface owner and the New Mexico State Engineer have been notified of this application for disposal.

Shell Oil Company respectfully requests permission for injection of 1800 BPD of brine water (250,000 TDS) produced in conjunction with oil and gas operations in the Cato Field. It is anticipated that the maximum pressure required for injection will not exceed 1800 psi.

Should further information be required, please advise.

Yours very truly,

J. L. Mahaffey, Manager  
Production Department - West  
Midland Division

DSK:BT

Attachments

NEW MEXICO OIL CONSERVATION COMMISSION

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

Form C-108  
 Revised 1-1-65  
 770 MAR 11 AM '66  
 SANTA FE 000

OPERATOR <b>Shell Oil Company</b>		ADDRESS <b>P. O. Box 1509, Midland, Texas 79701</b>	
LEASE NAME <b>Brown Federal A</b>	WELL NO. <b>2</b>	FIELD <b>Cato</b>	COUNTY <b>Chaves</b>
LOCATION UNIT LETTER <b>E</b> ; WELL IS LOCATED <b>1980</b> FEET FROM THE <b>North</b> LINE AND <b>660</b> FEET FROM THE <b>West</b> LINE, SECTION <b>26</b> TOWNSHIP <b>8-S</b> RANGE <b>30-E</b> NMPM. <b>Chaves County</b>			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING <b>53.5# Soo-95</b>	<b>9 5/8"</b>	<b>465'</b>	<b>250 sx.</b>	<b>Surface</b>	<b>Circulation</b>
INTERMEDIATE					
LONG STRING <b>15.5# &amp; 17# J-55</b>	<b>5 1/2"</b>	<b>3700'</b>	<b>350 sx.</b>	<b>2600'</b>	<b>Temp. Survey</b>
TUBING <b>EUE</b>	<b>2"</b>	<b>1550'</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Baker Model A at 1550'</b>		
NAME OF PROPOSED INJECTION FORMATION <b>Yates</b>			TOP OF FORMATION <b>1639</b>	BOTTOM OF FORMATION	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLE? <b>Perforations</b>	PROPOSED INTERVAL(S) OF INJECTION <b>1650' to 1740'</b>		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Production of oil</b>			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>Yes</b>	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>3535' to 3559'. Bull plug at 2500' capped w/2 sx. cement.</b>					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>460'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>None</b>		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>None</b>	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) <b>600</b>	MINIMUM <b>1800</b>	MAXIMUM <b>1800</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Pressure</b>	APPROX. PRESSURE (PSI) <b>1800</b>
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 - <b>Yes</b>			WATER TO BE DISPOSED OF <b>Yes</b>	NATURAL WATER IN DISPOSAL ZONE <b>Yes</b>	ARE WATER ANALYSES ATTACHED? <b>No</b>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Daphne Cato Baskett, 3895 Ingalls St., Wheat Ridge, Colorado</b>					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>Shell Oil Company has all such offset leases</b>					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? <b>Yes</b>		SURFACE OWNER <b>Yes</b>		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>None</b>	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) <b>Yes</b>		PLAT OF AREA <b>Yes</b>		ELECTRICAL LOG <b>Yes</b>	
				THE NEW MEXICO STATE ENGINEER <b>Yes</b>	
				DIAGRAMMATIC SKETCH OF WELL <b>Yes</b>	

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

*John L. Maloney*  
(Signature)

Division Production Manager

(Title)

March 4, 1970

(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.

250 sy. CLASS "C"

5 1/2" J-55 CASING

2" EUE TUBING

7 1/8" HOLE

500 sy. CLASS "C"  
CIRCULATED TO SURFACE

BULL PLUG at 2500'  
CAPPED w/ 2 sy. CMT.

350 sy. CLASS "C"

9 5/8" S00-95 CASING

12 1/2" HOLE

465'

1550'

PERFORATIONS 1650'-1740'  
FOR INJECTION OF SALT WATER

CEMENT at 1850'

TOC 2600 ±

TOP of PERFORATIONS  
3536'

PBTD - 3655'

TD - 3700'

BROWN FEDERAL "A" #2  
CATD FIELD

DJK

3-3-70

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