

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

SWD-17  
file 3-13

APPLICATION  
TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION  
NOT PRODUCTIVE OF OIL OR GAS

February 14, 1958

cc Mr  
of Eng Comm  
OEC  
3-5

Pool Name South Gladiola Wolfcamp County Lea

Operator Sunray Mid-Continent Oil Company

Address Box 128, Hobbs, New Mexico

Lease Name G. K. McDonald Well No. 1

Depth to top of injection zone 1990\*

Depth to base of injection zone 2110\*

Size of surface casing 13 3/8

Length of surface casing 375

Number of sacks of cement used on surface casing 290

Size of long string 8 5/8

Length of long string 4585

Number of sacks of cement used on long string 1200 sx (Circulated)

Size of tubing none Length of tubing none

Depth of tubing packer setting none

Name and model of packer none

Is injection through tubing or long string or annulus? Long String (8 5/8") \*

Is injection through perforations or open hole? perforations \*

Was the well drilled for salt water disposal purposes? No

List perforated intervals and number of sacks of cement used on any squeeze cementing operations none

What is depth of the shallowest zone productive of oil or gas in this pool? 9700

What is depth of the deepest zone containing fresh water in this pool? 300' ±

Are there any other salt water disposal wells in this pool using this same zone for injection purposes? No If so, list operator, lease and well number

What is the approximate volume of salt water to be injected daily? 70

Will system be open or closed type? Closed

Will injection be by gravity or pump pressure? Gravity

If by pump pressure, give approximate number of pounds per square inch

Will it be necessary for water to be filtered or chemically treated? No

\* Proposed

Is this well so cased and completed that water can enter no other formation than the above setout injection zone?

- 1. Attach a complete full-scale electrical log of this well. (one copy to OCC only.)
- 2. List Names and addresses of all offset operators and surface owners.

Gulf Oil Corp., Box 962, Roswell, New Mexico

Lion Oil Company, Box 1742, Midland, Texas

Grady Lowe, 1512 Great Plains Bldg, Lubbock, Texas

J. W. Anderson Carlsbad, New Mexico

- 3. <sup>Continued below</sup> Have notices of this application been sent by registered mail or given to all offset operators and to the New Mexico State Engineer? Yes
- 4. Attach waivers from all offset operators and New Mexico State Engineer.
- 5. Attach waivers from surface owners of land on which well is located or a letter from company making application to the surface owner explaining said application and requesting waiver.
- 6. No application will be processed until Item 1 has been attached to the application. Should all necessary waivers not accompany application, the Commission shall hold such application for a period of fifteen (15) days from date of receipt in the Santa Fe Office. If, after said fifteen (15) day period, no protest or request for hearing is received in the Santa Fe Office, the application will then be processed.

Sunray Mid-Continent Oil Company  
Operator

*R. E. Statton*  
By R. E. Statton, Area Engineer

THE STATE OF New Mexico

COUNTY OF Lea

BEFORE ME, The undersigned authority, on this day personally appeared R. E. Statton known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN To before me, this the 14th day of February, 19 58.

*George P. M. Alister*  
Notary Public in and for Lea  
County, New Mexico.

Offset Landowners (continued)  
McDonald Estate      James Foster  
c/O Ray Renner      Lovington, New Mexico  
205 S. Austin St.  
Bamesa, Texas

Sunray Mid-Continent Oil Company  
Box 128  
Hobbs, New Mexico

W A I V E R

Date \_\_\_\_\_

This is to advise that the undersigned waives objection to Sunray Mid-Continent Oil Company's application to dispose of salt water in their G. K. McDonald No 1, Lea County, New Mexico, as set out in their application dated February 14, 1958, and hereby waives its rights of notice and protest in this matter.

Signed \_\_\_\_\_

P. O. Box 128  
Hobbs, New Mexico

Gulf Oil Corp.  
Box 962  
Roswell, New Mexico

Lion Oil Company  
Box 1742  
Midland, Texas

Grady Lowe  
1512 Great Plains Bldg.  
Lubbock, Texas

J. W. Anderson  
Carlsbad, New Mexico

McDonald Estate  
c/o Ray Renner  
205 S. Austin St.  
Lamesa, Texas

James Foster  
Lovington, New Mexico

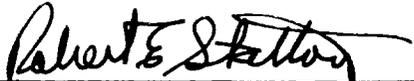
Mr. Frank Irby  
State Water Conservation Comm.  
State Capitol Bldg.  
Sante Fe, New Mexico

Gentleman:

Sunray Mid-Continent Oil Company proposes to re-enter its G. K. McDonald No. 1, located 660 feet FSL and 660 feet FWL of Section 12, T13S, R37E, Lea County, New Mexico, to re-complete for salt water disposal in the interval 1990 feet to 2110 feet as shown on the attached "Application to Dispose of Salt Water by Injection into a Formation Not Productive of Oil or Gas".

If you have no objection to our proposal, please sign and return two copies of the attached waiver.

SUNRAY MID-CONTINENT OIL COMPANY

By:   
Robert E. Statton

cc: SMC - Midland (2)  
NMCCC (3)  
File (1)

RES/res

P. O. Box 128  
Hotbs, New Mexico  
February 24, 1958

Gulf Oil Corp.  
Box 962  
Roswell, New Mexico

Grady Lowe  
1512 Great Plains Bldg.  
Lubbock, Texas

Lion Oil Company  
Box 1742  
Midland, Texas

McDonald estate  
c/o Ray Jenner  
209 S. Austin St.  
Lamesa, Texas

J. W. Anderson  
Carlsbad, New Mexico

Gentlemen:

Please refer to our recent letter requesting waivers of rights of notice and protest in regards to re-completing the Sunray Mid-Continent oil Company No. 1 G. W. McDonald as a salt water disposal well.

This letter is to advise that the location shown for G.W. McDonald No. 1 was in error, the correct location being 660' 00" and 660' 00" Sec. 1, T13S, R37E, Lea County, New Mexico.

SUNRAY MID-CONTINENT OIL COMPANY

By: Robert E. Statton  
Robert E. Statton

CC: NMOCC, Santa Fe, N.M. (3)  
Midland, (2)  
File (1)

# SUNRAY MID-CONTINENT OIL COMPANY

Box 128  
Hobbs, New Mexico  
February 21, 1958

New Mexico Oil Conservation Commission  
Box 871  
Santa Fe, New Mexico

Attention: Mr. ~~Miller~~ <sup>Miller</sup>

Gentlemen:

Confirming my telephone conversation this date with Mr. ~~Miller~~ <sup>Miller</sup> concerning Sunray Mid-Continent Oil Company's applications to dispose of salt water into its G.K. McDonald No. 1, this is to advise that the portion of our application denoted by asterisks (\*) is what we propose to do when our application is approved and that Sunray Mid-Continent will not deviate from this proposed operation without approval from the Commission. In other words, the 8 5/8" casing will be perforated from 1990' to 2110' and salt water will be injected down the 8 5/8" casing into these perforations.

By copy of this letter, the State Engineer's Office is being advised that the correct location of the G.K. McDonald No. 1 is 660' FSL and 660' FEL of Section 1, T13S, R37E, Lea County, New Mexico.

SUNRAY MID-CONTINENT OIL COMPANY

BY: Robert E. Statton  
ROBERT E. STATTON

PES:em

CC: NMOCC - Santa Fe (2)  
SRMC - Midland (2)  
State Engineer's Office  
Santa Fe, N.M. (1)



# SUNRAY MID-CONTINENT OIL COMPANY

P. O. Box 128  
March 3, 1958  
Hobbs, New Mexico

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

In reference to Sunray Mid-Continent Oil Company's "Application to Dispose of Salt Water by Injection into a Porous Formation Not Productive of Oil or Gas" in the G.K. McDonald No. 1 located 660' FSL and 660' FEL Section 1, T 13S, R 37E, Lea County, New Mexico, please find attached waivers from all offset landowners and operators.

It is noted that our original letters to offset landowners and operators included a letter to landowner James Foster. It was later determined that Mrs. B. R. Horton was the landowner instead of James Foster. Mrs. Horton's waiver is attached.

It is requested that the attached waivers be accepted in lieu of the normal 15 day waiting period.

SUNRAY MID-CONTINENT OIL COMPANY

By:

  
ROBERT E. STATTON

RES:em

CC: SRMC-Midland (2)  
File (1)  
Encl. (6)





Sunray Mid-Continent Oil Company  
Box 128  
Hobbs, New Mexico

W A I V E R

Date 2-17-58

This is to advise that the undersigned waives objection to Sunray Mid-Continent Oil Company's application to dispose of salt water in their G. K. McDonald #1, Lea County, New Mexico, as set out in their application dated February 14, 1958, and hereby waives its rights of notice and protest in this matter.

*and in witness whereof the undersigned*  
Signed by *Ray Decker*  
*Trustee*

Sunray Mid-Continent Oil Company  
Box 128  
Hobbs, New Mexico

W A I V E R

Date Feb. 17, 1958

This is to advise that the undersigned waives objection to Sunray Mid-Continent Oil Company's application to dispose of salt water in their G. E. McDonald #1, Lea County, New Mexico, as set out in their application dated February 14, 1958, and hereby waives its rights of notice and protest in this matter.

Signed

J. W. Anderson

February 17, 1958

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

This is to advise that Gulf Oil Corporation has been given due notice that Sunray Mid-Continent Oil Company has made application for permission to dispose of salt water into the interval 1990-2110 feet in their G. K. McDonald No. 1, described below. We hereby waive any objection to the granting of their request to dispose of salt water into this well at the following location.

660 feet from south line and  
660 feet from west line of  
Section 12, Township 13 South,  
Range 37 East, Lea County, New  
Mexico.

*Sent letter to Gulf  
2-24-58 notifying them  
of the correct location.*

Executed this 17th day of February, 1958.

Very truly yours,

GULF OIL CORPORATION

*W. A. Shellshear*

W. A. SHELLSHEAR

cc: Sunray Mid-Continent Oil Company  
P. O. Box 128  
Hobbs, New Mexico

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New Mexico ...

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*Handwritten notes:*  
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*Handwritten signature:*  
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PETROLEUM AND ITS PRODUCTS

# GULF OIL CORPORATION

P. O. DRAWER 669 • ROSWELL, NEW MEXICO

February 17, 1958

W. A. SHELLSHEAR  
DISTRICT MANAGER

FORT WORTH  
PRODUCTION DIVISION

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

This is to advise that Gulf Oil Corporation has been given due notice that Sunray Mid-Continent Oil Company has made application for permission to dispose of salt water into the interval 1990-2110 feet in their G. K. McDonald No. 1, described below. We hereby waive any objection to the granting of their request to dispose of salt water into this well at the following location.

660 feet from south line and  
660 feet from west line of  
Section 12, Township 13 South,  
Range 37 East, Lea County, New  
Mexico.

Executed this 17th day of February, 1958.

Very truly yours,

GULF OIL CORPORATION

W. A. SHELLSHEAR

cc: Sunray Mid-Continent Oil Company  
P. O. Box 128  
Hobbs, New Mexico

Sunray Mid-Continent Oil Company  
Box 128  
Hobbs, New Mexico

W A I V E R

Date 2 17 58

This is to advise that the undersigned waives objection to Sunray Mid-Continent Oil Company's application to dispose of salt water in their G. K. McDonald #1, Lea County, New Mexico, as set out in their application dated February 14, 1958, and hereby waives its rights of notice and protest in this matter.

Signed [Signature]

# ILLEGIBLE



## Radioactivity Log

COMPANY: SUNRAY MID CONTINENT OIL CO. WELL: MCDONALD NO. 1 FIELD: LEA CO. W/C COUNTY: LEA STATE: N MEX. LOCATION: LEA	COMPANY: SUNRAY MID CONTINENT OIL CO. WELL: MCDONALD NO. 1 FIELD: LEA CO. W/C COUNTY: LEA STATE: N MEX. LOCATION: 660' FS & E LINES OF SEC. 1, T-13-S, R-37-E	Location of Well
LOG MEAS. FROM KELLY DRIVE ELEV. 3879.40 DRG. MEAS. FROM KELLY DRIVE ELEV. 3879.40 PERM. DATUM GROUND LEVEL ELEV. 3364.90		

TYPE OF LOG	GAMMA RAY	NEUTRON		
RUN NO.	ONE-NW	ONE-NW		
DATE	10-5-55	10-5-55		
TOTAL DEPTH (DRILLER) STRAIN	9744	9744		
EFFECTIVE DEPTH (DRILLER)	9725	9725		
TOP OF LOGGED INTERVAL	SURFACE	SURFACE		
BOTTOM OF LOGGED INTERVAL	9727	9728		
TYPE OF FLUID IN HOLE	WATER	WATER		
FLUID LEVEL		70'		
MAXIMUM RECORDED TEMP.		600N		
SOURCE STRENGTH & TYPE		8.25		
SOURCE SPACING — IN.		9.1"		
LENGTH OF MEASURING DEVICE — IN.	36"	3 5/8"		
O.D. OF INSTRUMENT — IN.	3 5/8"	3 5/8"		
TIME CONSTANT — SECONDS	5.0	1.0		
LOGGING SPEED FT. MIN.	20-45	20-45		
STATISTICAL VARIATION — IN.				
SENSITIVITY REFERENCE	274	275		
RECORDED BY	ELLIS	ELLIS		
WITNESSED BY	OWENS	OWENS		

WELL RECORD					
RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM WELL RECORD	FROM LOG
ONE	17 1/2"	13 3/8"		SURFACE TO 373	SURFACE TO 376
ONE	11"	8 5/8"		SURFACE TO 1635	SURFACE TO
ONE	7 7/8"	5 1/2"	17-35.5	SURFACE TO 9743	SURFACE TO 9730
				TO	TO
				TO	TO
				TO	TO

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE March 13, 1958

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

Re: Proposed NSP \_\_\_\_\_

Proposed NSL \_\_\_\_\_

Proposed NFO \_\_\_\_\_

Proposed DC \_\_\_\_\_

SD 10

Gentlemen:

I have examined the application dated \_\_\_\_\_  
for the Sunray Mid-Continent Oil Co. G. K. McDonald #1 1-13-37  
Operator Lease and Well No. S-I-R

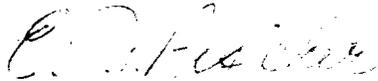
and my recommendations are as follows:

O.K. --- E.J.F.

O.K. --- J.W.R.

Yours very truly,

OIL CONSERVATION COMMISSION



Engineer