

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Case 3580

September 24, 1968

C  
O  
P  
Y  
  
Sunray DX Oil Company  
P. O. Box 1416  
Roswell, New Mexico 88201

Attention: Mr. F. D. Lebo

Gentlemen:

Reference is made to your application dated August 13, 1968, to permit the production of your Foster Eddy Well No. 2, located in Unit J of Section 17, Township 17 South, Range 31 East, Eddy County, New Mexico, into the same tank battery as other wells on the same lease authorized for waterflooding by Commission Order No. R-3241, without the necessity for monthly testing as required by Rule 701 E-3.

Sunray DX Oil Company is hereby authorized to produce the subject well into the same tank battery as other wells on the lease without monthly testing for a period of six months from this date.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/DSH/esr

cc: Oil Conservation Commission - Artesia

7

## Sunray DX Oil Company

P. O. Box 1416  
Roswell, New Mexico 88201



District Office

August 13, 1968

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

Attention: Mr. A. L. Porter, Jr.

RE: SDX Foster Eddy Waterflood  
Project R-3241  
Grayburg Jackson Pool  
Eddy County, New Mexico

Gentlemen:

Sunray DX Oil Company requests an exception to test requirement E-3 of Statewide Rule 701 for Sunray's Foster Eddy No. 2 located in Unit J of Section 17, Township 17 South, Range 31 East, Eddy County, New Mexico. This well produces into the same tank battery as other wells on the same lease which are in the waterflood authorized by Order No. R-3241.

The Foster Eddy No. 2 produces 2 BOPD. It is requested that monthly testing and reporting of this well will be deferred until secondary response is evident in the waterflood area.

Yours truly,

SUNRAY DX OIL COMPANY

F. D. LEBO  
District Engineer

FDL:prm

cc: New Mexico Oil Conservation Commission  
207 Carper Building  
Artesia, New Mexico

1968 AUG 14 11:11 AM

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

June 6, 1967

C  
O  
Mr. Booker Kelly  
White, Gilbert, Koch & Kelly  
Attorneys at Law  
Post Office Box 787  
Santa Fe, New Mexico

Dear Sir:

P  
Reference is made to Commission Order No. R-3241, recently entered in Case No. 3580, approving the SDX Foster Eddy Waterflood Project.

Y  
Injection is to be through the one authorized water injection well which shall be equipped with tubing and a packer, said packer being set at 2850 feet or approximately 58 feet above the casing shoe.

As to allowable, our calculations indicate that when the authorized injection well has been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 126 barrels per day when the Southeast normal unit allowable is 42 barrels or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

-2-

Mr. Booker Kelly  
Santa Fe, New Mexico  
June 6, 1967

C drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the commission so informed as to the status of the project and the wells therein will be appreciated.

O Very truly yours,

P A. L. PORTER, Jr.  
Secretary-Director

Y ALP/DSN/ir

cc: Mr. Frank Irby  
State Engineer Office  
Santa Fe, New Mexico

Oil Conservation Commission  
Drawer DD  
Artesia, New Mexico

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

State of New Mexico  
**Oil Conservation Commission**

LAND COMMISSIONER  
GUYTON B. HAYS  
MEMBER

STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

P. O. BOX 2088  
SANTA FE

June 1, 1967

Mr. Booker Kelly  
White, Gilbert, Koch & Kelly  
Attorneys at Law  
Post Office Box 787  
Santa Fe, New Mexico

Re: Case No. 3580  
Order No. R-3241  
Applicant:  
Sunray DX Oil Company

Dear Sir:

Enclosed herewith is a copy of the above-referenced Commission order recently entered in the subject case. Letter pertaining to conditions of approval and maximum allowable to follow.

Very truly yours,

*A. L. Porter, Jr.*  
A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC   x    
Artesia OCC   x    
Aztec OCC         
State Engineer   x  

Other

May 1 1967

RECEIVED  
MAY 3 AM 8:15



P. O. Box 1416  
Roswell, New Mexico  
May 1, 1967

*Box 3580*

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

Gentlemen:

Sunray DX Oil Company hereby requests approval to convert Foster Eddy No. 4 to water injection service. The conversion of this well will represent an expansion to the Sinclair Keel West Waterflood project approved by the Commission in Case No. 2576, Order No. R-2268.

The subject well is presently temporarily abandoned. It is located in the NW 1/4, Section 17, T-17-S, R-31-E, Eddy County, New Mexico.

We are submitting in triplicate the following:

- (A) Plat of the area, showing proposed injection well and location of other properties within the required radius of this project.
- (B) Diagrammatic sketch of proposed injection well completion.
- (C) Waterflood data containing pertinent data.
- (D) Addressee list of operators in the area.
- (E) U.S.G.S. Form No. 9-331, indicating well history of Foster Eddy No. 4.
- (F) Letter from State Engineer granting approval.
- (G) Letter from U.S.G.S. granting approval.

DOCKET MAILED

Date 5-12-67

New Mexico Oil Conservation Commission  
May 1, 1967  
Page 2

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We feel that it is necessary to convert the Foster Eddy No. 4 to injection service in order to maximize oil recovery from our property as well as compliment the orderly development of the Sinclair project.

Yours truly,

SUNRAY DX OIL COMPANY

A handwritten signature in cursive script, reading "John Hastings".

John Hastings  
Roswell District Engineer

JBH:sk

cc: N.M.O.C.C., Artesia, w/attachments  
Offset Operators as per addressee  
List - Less attachments

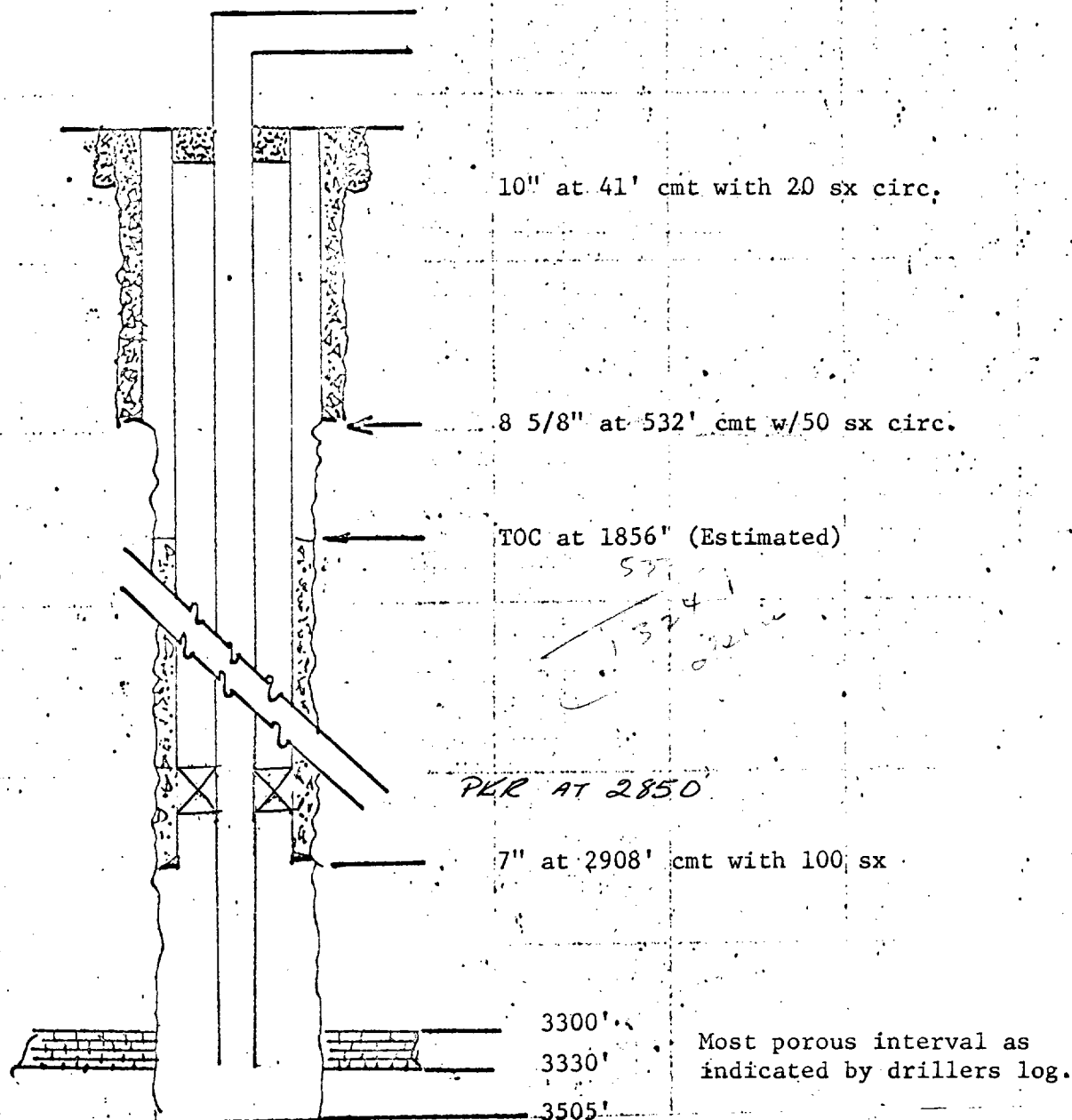
Diagrammatic Sketch of Injection Well

Sunray DX Oil Company

Lease: Foster Eddy

Well No: 4

Location: Unit C, Section 17,  
T-17-S, R-31-E, Eddy County,  
New Mexico.





SUNRAY OIL COMPANY

WATERFLOOD DATA

Lease: Foster Eddy

Field: Grayburg Jackson

Project: Sinclair Keel West. Commission Order No. R-2268

Well No: 4

Location of well: 660' FNL & 1980' FWL, Sec. 17-17S-31E, Eddy County, N.M.

Date well completed: 1-11-44

Present status of well: TA

Present producing formation: Grayburg-Jackson

Present producing interval: Open hole 2960'-3505'

Proposed status of well: Convert to water injection

Type of injection fluid: Fresh water

Formation in which water is to be injected ~~into~~: Grayburg formation

Top of formation: 2960

Bottom of formation: 3505

Proposed injection interval: 2960-3505

Source of injection water: Pressured water purchased from Sinclair Oil Co.

Anticipated volumes to be injected: 300 BPD

Anticipated injection pressure: 2000 psig

Maximum injection pressure: 2400 psig

Mailing address of Sunray District office which is responsible for this project: Sunray Oil Company, P. O. Box 1416, Roswell, New Mexico.

SUNRAY DX OIL COMPANY

FOSTER EDDY LEASE

LIST OF OFFSET OPERATORS

GRAYBURG-JACKSON POOL

EDDY COUNTY, NEW MEXICO

Weier Drilling Company  
P. O. Box 1266  
Monahans, Texas  
Attn: Mr. W. P. Hammond

Tidewater Oil Company  
P. O. Box 1231  
Midland, Texas  
Attn: Mr. R. H. Coe

Franklin, Aston & Fair  
P. O. Box 1090  
Roswell, New Mexico 88201  
Attn: Mr. Rogers Aston

Murchison & Closuit  
D-105  
Petroleum Center  
San Antonio, Texas

Sinclair Oil & Gas Company  
P. O. Box 1920  
Hobbs, New Mexico 88240

Kersey & Company  
P. O. Box 305  
Artesia, New Mexico  
Attn: Mr. Harold Kersey

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

|   |  |  |                         |
|---|--|--|-------------------------|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>  |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>0-49998A                              |                         |
| 2. NAME OF OPERATOR<br>Sunray DX Oil Company  |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME   |                         |
| 3. ADDRESS OF OPERATOR<br>P. O. Box 1416, Roswell, New Mexico   |  | 7. UNIT AGREEMENT NAME   |                         |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*<br>See also space 17 below.)<br>At surface<br>660' FNL & 1980' FWL of Section 17, T-17-S, R-29-E |  | 8. FARM OR LEASE NAME<br>Foster Eddy   |                         |
| 14. PERMIT NO.  |  | 9. WELL NO.<br>4   |                         |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>3710 DF   |  | 10. FIELD AND POOL, OR WILDCAT<br>Grayburg Jackson                           |                         |
|   |  | 11. FROM, TO, BY, AND OR DATE, AND SURVEY OR AREA<br>Sec. 17, T-17-S, R-29-E |                         |
|   |  | 12. COUNTY OR PARISH<br>Eddy   | 13. STATE<br>New Mexico |

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

|  |  |
|--|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/>            |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>               |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>                        |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANS <input type="checkbox"/>                    |
| (Other) <input type="checkbox"/>             | Convert to Injection <input checked="" type="checkbox"/> |

SUBSEQUENT REPORT OF:

|  |  |
|--|--|
| WATER SHUT-OFF <input type="checkbox"/>        | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREATMENT <input type="checkbox"/>    | ALTERING CASING <input type="checkbox"/> |
| SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/>    |
| (Other) <input type="checkbox"/>               |  |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1. Move in and rig up workover rig.
2. Pull tubing.
3. Rerun tubing with Baker Model "AD" Packer. Hydrotest tubing into hole.
4. Set packer at approximately 2850'.
5. Install injection head.
6. Start water into well.

18. I hereby certify that the foregoing is true and correct

SIGNED J.B.Hastings TITLE District Engineer DATE March 31, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

April 10, 1967

Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Commission  
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to Sunray DX Oil Company's application to convert their Foster Eddy No. 4 well in Unit C of Sec. 17, T. 17 S., R. 31 E., to water injection service.

Since injection is to be through tubing below a packer set well below the top of the cement surrounding the 7" casing and the fluid injected is to be fresh water, it does not appear that contamination of the fresh waters in the area is likely to occur.

FBI/ma  
cc-Sunray DX Oil Co.  
F. H. Hennighausen

Yours truly,

S. E. Reynolds  
State Engineer

By:

Frank E. Irby  
Chief  
Water Rights Div.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Drawer U  
Artesia, New Mexico 88210

April 13, 1967

Sunray DX Oil Company  
Post Office Box 1416  
Roswell, New Mexico 88201

Gentlemen:

Your letter of April 6, 1967, requests approval to operate a waterflood of the Grayburg-San Andres formation on that portion of Oil and Gas Lease Las Cruces 049998(a) described as follows:

T. 17 S., R. 31 E., N.M.P.M., Eddy County, New Mexico

sec. 17: NE $\frac{1}{4}$ NW $\frac{1}{4}$

You propose to convert to water injection well No. 4 which is on pattern with the Sinclair Keel-West Waterflood project to the north and thus an expansion of said project.

The proposed plan for operating the above described waterflood project is satisfactory to this office and hereby approved subject to like approval by the New Mexico Oil Conservation Commission and the following:

1. This project will be operated in compliance with the New Mexico Oil Conservation Commission regulations governing waterflood operations.
2. Duplicate copies of a monthly progress report (N.M.O.C.C. Form C-120 acceptable) are to be submitted to this office showing the volume of water injected and average pressures for the injection wells and production for the producing wells in the project area.
3. This approval does not preclude the necessity for further

approval when the project is expanded to include other wells and leases, or the necessity to submit the usual notices and reports on wells involved. When this project is expanded to involve other operators and interests, the correlative rights of all concerned should be protected.

Sincerely yours,


A handwritten signature in cursive script, appearing to read "Robert L. Beekman".

Robert L. Beekman  
Acting District Engineer

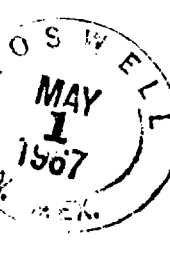
cc: Roswell  
Accounts

RLB:mh

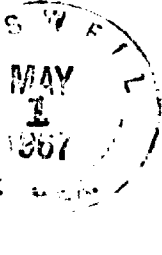
No. 862819

|  |  |   |
|--|--|---|
| SENT TO<br>Murchison & Closuit   |  | POSTMARK<br>OR DATE<br> |
| STREET AND NO.<br>D-105 Petroleum Center   |  |   |
| CITY, STATE, AND ZIP CODE<br>San Antonio, Texas  |  |   |
| EXTRA SERVICES FOR ADDITIONAL FEES<br>Return Receipt<br>Shows to whom and when delivered <input type="checkbox"/> 10¢ fee<br>Shows to whom, when, and where delivered <input type="checkbox"/> 35¢ fee<br>Deliver to Addressee Only <input type="checkbox"/> 50¢ fee |  |   |
| POD Form 3800 Nov. 1964 <b>NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL</b> (See other side)  |  |   |

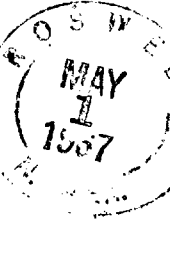
No. 862818

|  |  |  |
|--|--|--|
| SENT TO<br>Tidewater Oil Company   |  | POSTMARK<br>OR DATE<br> |
| STREET AND NO.<br>P. O. Box 1231   |  |  |
| CITY, STATE, AND ZIP CODE<br>Midland, Texas  |  |  |
| EXTRA SERVICES FOR ADDITIONAL FEES<br>Return Receipt<br>Shows to whom and when delivered <input type="checkbox"/> 10¢ fee<br>Shows to whom, when, and where delivered <input type="checkbox"/> 35¢ fee<br>Deliver to Addressee Only <input type="checkbox"/> 50¢ fee |  |  |
| POD Form 3800 Nov. 1964 <b>NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL</b> (See other side)  |  |  |


No. 862820

|  |  |  |
|--|--|--|
| SENT TO<br>Kersey & Company  |  | POSTMARK<br>OR DATE<br> |
| STREET AND NO.<br>P. O. Box 305  |  |  |
| CITY, STATE, AND ZIP CODE<br>Artesia, New Mexico   |  |  |
| EXTRA SERVICES FOR ADDITIONAL FEES<br>Return Receipt<br>Shows to whom and when delivered <input type="checkbox"/> 10¢ fee<br>Shows to whom, when, and where delivered <input type="checkbox"/> 35¢ fee<br>Deliver to Addressee Only <input type="checkbox"/> 50¢ fee |  |  |
| POD Form 3800 Nov. 1964 <b>NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL</b> (See other side)  |  |  |

No. 862815

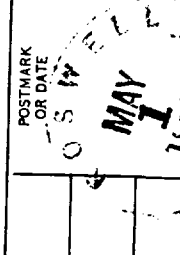
|  |  |  |
|--|--|--|
| SENT TO<br>Weier Drilling Company  |  | POSTMARK<br>OR DATE<br> |
| STREET AND NO.<br>P. O. Box 1266   |  |  |
| CITY, STATE, AND ZIP CODE<br>Monahans, Texas   |  |  |
| EXTRA SERVICES FOR ADDITIONAL FEES<br>Return Receipt<br>Shows to whom and when delivered <input type="checkbox"/> 10¢ fee<br>Shows to whom, when, and where delivered <input type="checkbox"/> 35¢ fee<br>Deliver to Addressee Only <input type="checkbox"/> 50¢ fee |  |  |
| POD Form 3800 Nov. 1964 <b>NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL</b> (See other side)  |  |  |

RECEIPT FOR CERTIFIED MAIL—20¢

|  |  |  |
|--|--|--|
| SENT TO<br>Franklin Aston & Fair   |  | POSTMARK<br>OR DATE<br> |
| STREET AND NO.<br>P. O. Box 1090   |  |  |
| CITY, STATE, AND ZIP CODE<br>Roswell, New Mexico   |  |  |
| EXTRA SERVICES FOR ADDITIONAL FEES<br>Return Receipt<br>Shows to whom and when delivered <input type="checkbox"/> 10¢ fee<br>Shows to whom, when, and where delivered <input type="checkbox"/> 35¢ fee<br>Deliver to Addressee Only <input type="checkbox"/> 50¢ fee |  |  |
| POD Form 3800 Nov. 1964 <b>NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL</b> (See other side)  |  |  |

No. 862816

RECEIPT FOR CERTIFIED MAIL—20¢

|  |  |  |
|--|--|--|
| SENT TO<br>Sinclair Oil & Gas Company  |  | POSTMARK<br>OR DATE<br> |
| STREET AND NO.<br>P. O. Box 1920   |  |  |
| CITY, STATE, AND ZIP CODE<br>Hobbs, New Mexico 88240   |  |  |
| EXTRA SERVICES FOR ADDITIONAL FEES<br>Return Receipt<br>Shows to whom and when delivered <input type="checkbox"/> 10¢ fee<br>Shows to whom, when, and where delivered <input type="checkbox"/> 35¢ fee<br>Deliver to Addressee Only <input type="checkbox"/> 50¢ fee |  |  |
| POD Form 3800 Nov. 1964 <b>NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL</b> (See other side)  |  |  |

No. 862817



SINCLAIR OIL & GAS COMPANY

P. O. Box 1470  
MIDLAND, TEXAS 79701

May 19, 1967

RECEIVED  
MAY 21 1967  
AM 8 15

WEST TEXAS REGION

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

Attention: Mr. E. A. Utz, Examiner

Gentlemen:

Sinclair Oil & Gas Company respectfully requests that the Oil Conservation Commission give favorable consideration to the application of Sunray DX Oil Company to institute a waterflood project in the Grayburg-Jackson Pool, Eddy County, New Mexico. This matter is scheduled for hearing on May 24, 1967, Docket No. 16-67, Case #3580.

Yours very truly,

R. M. Anderson  
Region Regulatory Engineer

RMA/ar

cc: Sunray DX Oil Co.  
P. O. Box 2039  
Tulsa, Oklahoma