



P. O. Box 1416  
Roswell, New Mexico  
March 31, 1967

*WIX-260*  
*12 Apr 19*

MAIN OFFICE

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

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Gentlemen:

Sunray DX Oil Company herewith requests administrative 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.

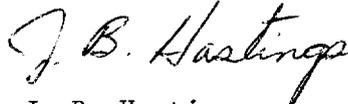
New Mexico Oil Conservation Commission  
March 31, 1967  
Page 2

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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



J. B. Hastings  
District Engineer

JBH:DF:sk

cc: State Engineer w/attachments  
U.S.G.S., Artesia, w/attachments  
N.M.O.C.C., Artesia, w/attachments  
Offset Operators as per addressee  
List Less attachments

PROPOSED HUDSON-TURNER UNIT

GRAYBURG-JACKSON POOL

EDDY COUNTY, NEW MEXICO

Operators Committee Mailing List

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

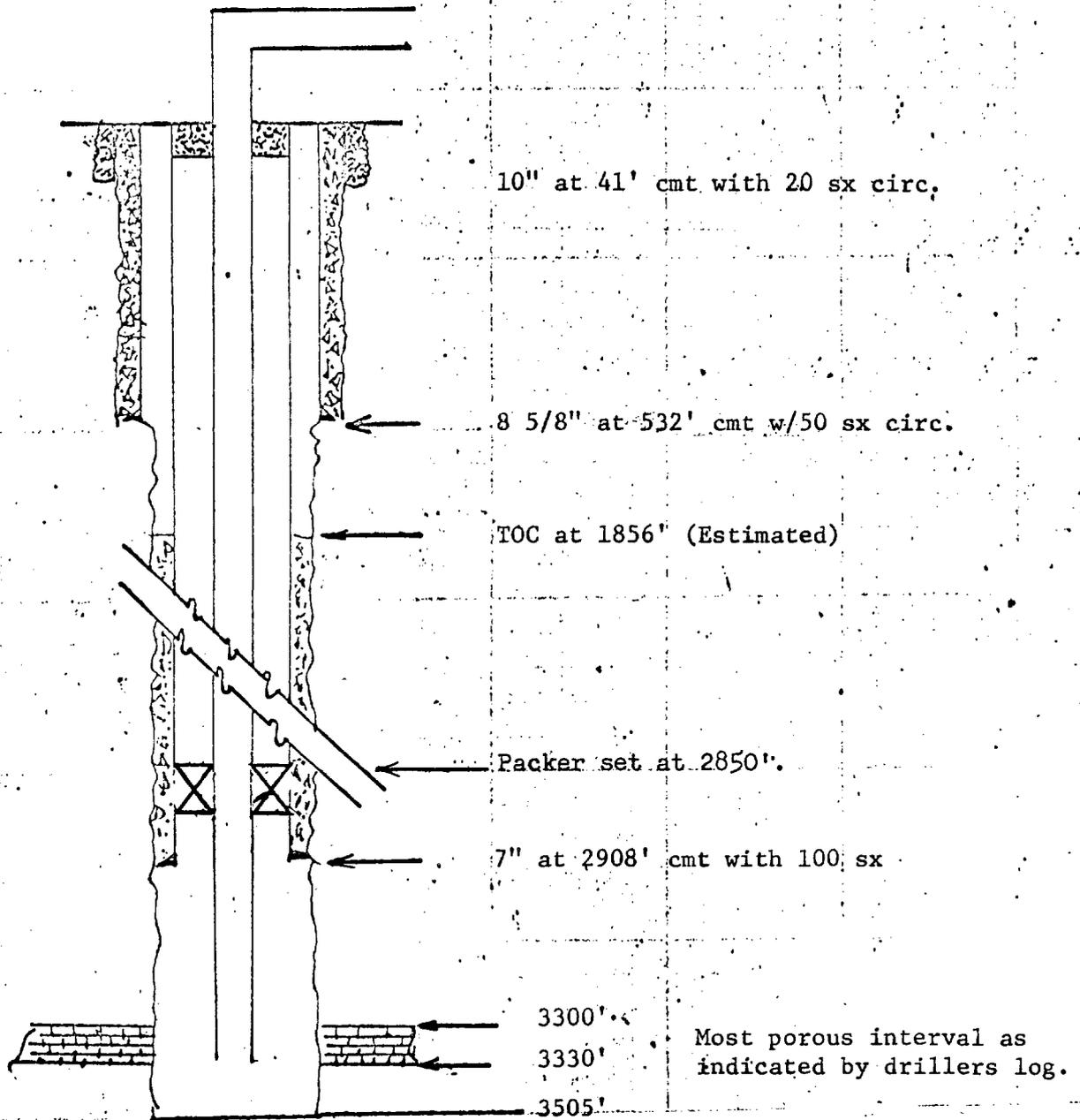
Diagrammatic Sketch of Injection Well

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 DX 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 DX Oil Company, P. O. Box 1416, Roswell, New Mexico.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse 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.)

5. LEASE DESIGNATION AND SERIAL NO.

0-49998A

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Foster Eddy

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Grayburg Jackson

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 17, T-17-S, R-29-E

12. COUNTY OR PARISH 13. STATE

Eddy

New Mexico

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Sunray DX Oil Company

3. ADDRESS OF OPERATOR  
P. O. Box 1416, Roswell, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
660' FNL & 1980' FWL of Section 17, T-17-S, R-29-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3710 DF

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

Convert to Injection

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(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 J.B. Hastings TITLE District Engineer

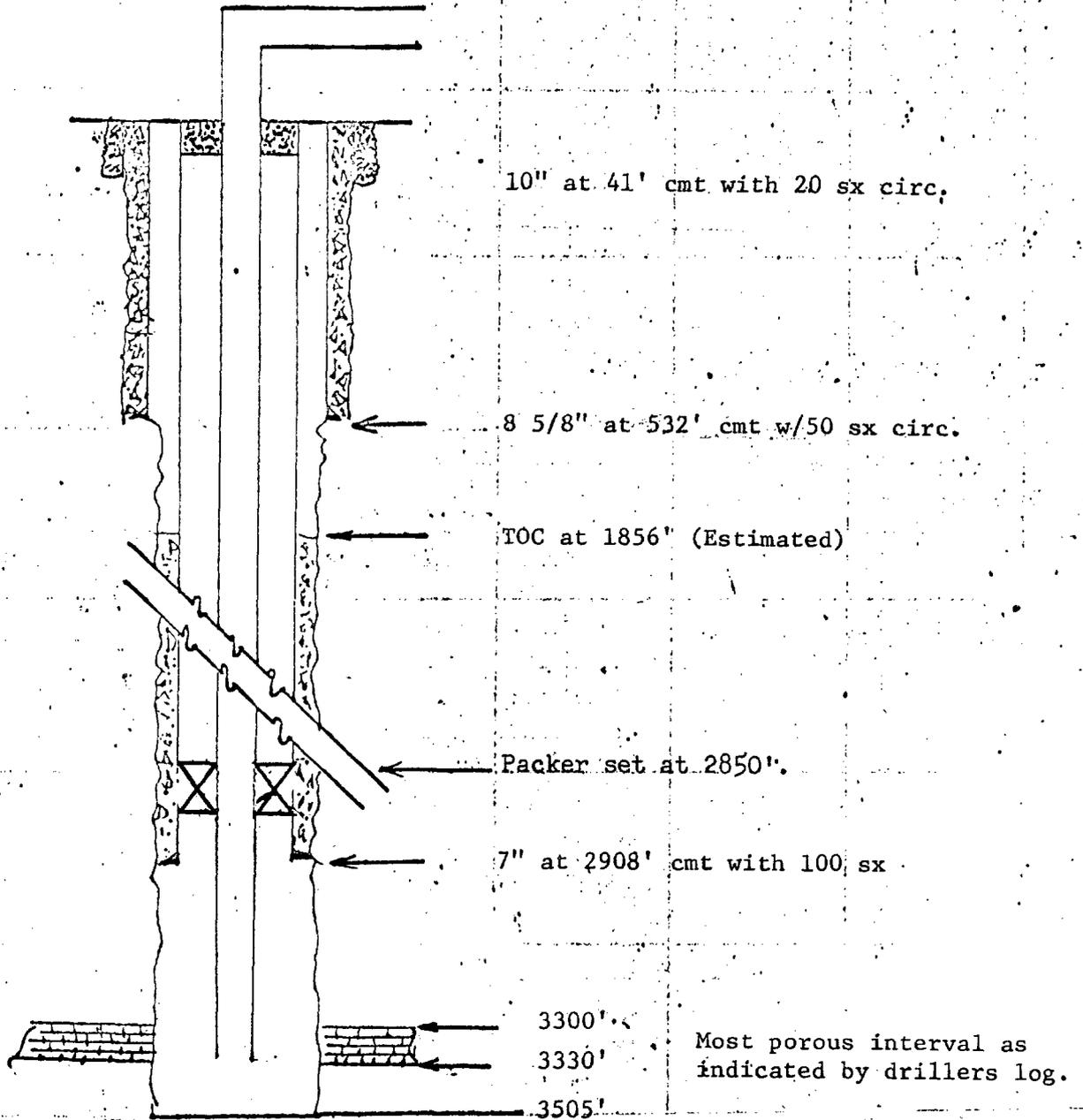
DATE March 31, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DATE \_\_\_\_\_

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.



PROPOSED HUDSON-TURNER UNIT

GRAYBURG-JACKSON POOL

EDDY COUNTY, NEW MEXICO

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GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

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

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>	<b>Convert to Injection</b> <input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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SIGNED J.B. Hastings 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:

SFOCC

Jim Kupteina

MAIN OFFICE

APR 7 PH 1

# Sunray DX Oil Company

District Office



P. O. Box 1416  
Roswell, New Mexico  
March 31, 1967

**RECEIVED**

APR 4 1967

O. C. C.  
ARTESIA, OFFICE

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

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Xerox copy to Jim Kupteina  
4-6-67;  
No objection to this  
application  
Dick



STATE OF NEW MEXICO  
STATE ENGINEER OFFICE  
SANTA FE

MAILED OFFICE 001  
'67 APR 12 AM 8 00

S. E. REYNOLDS  
STATE ENGINEER

April 10, 1967

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, NEW MEXICO 87501

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

Dear Mr. Porter:

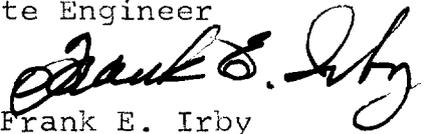
Reference is made to Sunray DX Oil Company's application to convert their Foster Eddy No. 4 well in Unit C of Sec. 17, T. 17 S., R. 31 E., to water injection service.

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.

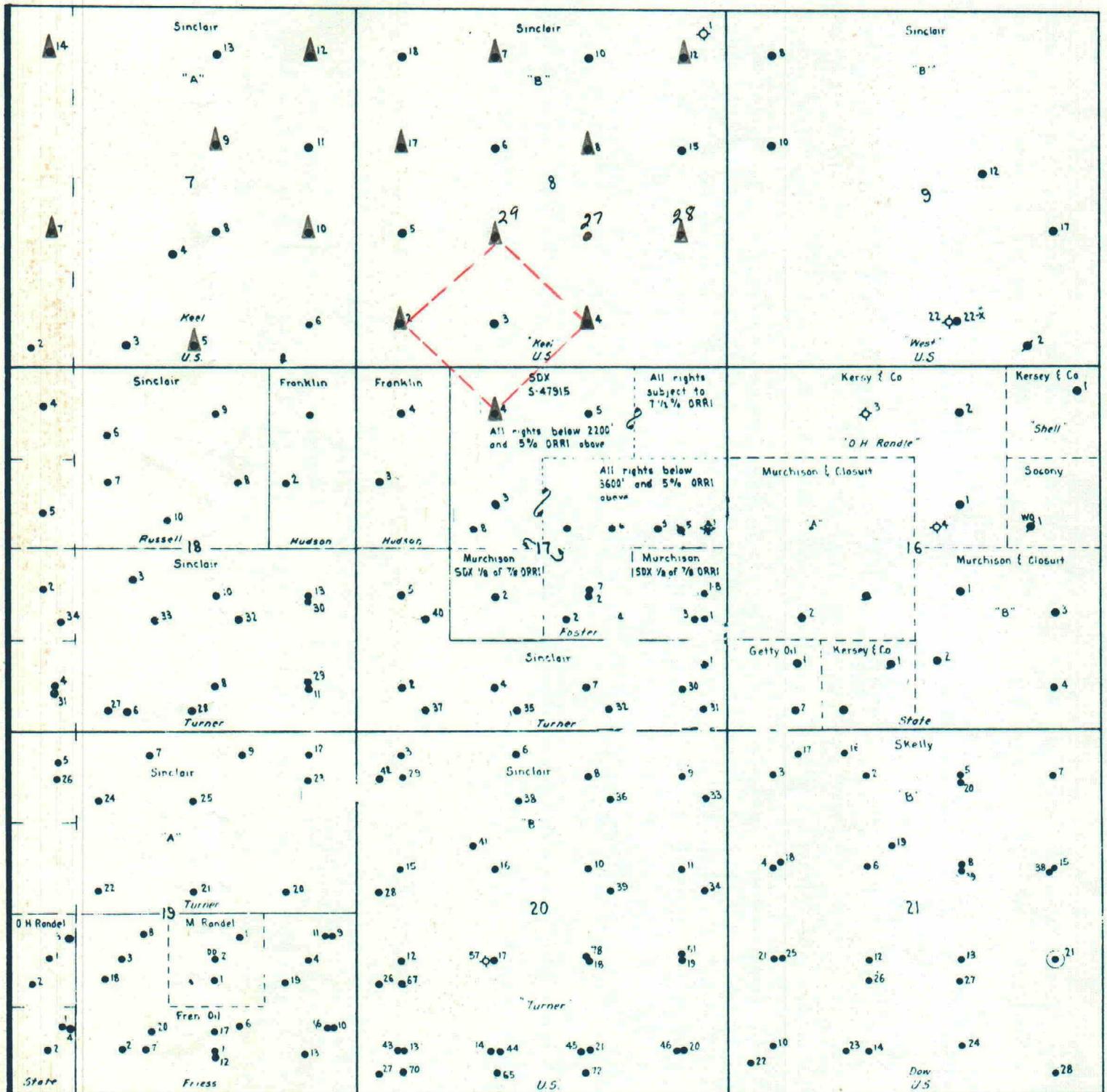
FEI/ma  
cc-Sunray DX Oil Co.  
F. H. Hennighausen

Yours truly,

S. E. Reynolds  
State Engineer

By:   
Frank E. Irby  
Chief  
Water Rights Div.

# R 31 E



T  
17  
S

WELL INDEX & LEASE PLAT