

State of New Mexico
Oil Conservation Commission



P. O. BOX 2088
SANTA FE

Other _____

NEIL B. WATSON
FRED A. WATSON

LAW OFFICES
WATSON & WATSON
CARPER BUILDING - P. O. DRAWER E
ARTESIA, NEW MEXICO
88210

AREA CODE 505
746-4151 • 746-2201

May 3, 1967.

Enc 35-92

The Oil Conservation Commission
of New Mexico,
Santa Fe, New Mexico.

Gentlemen:

Re: Application of Anne Burnett Windfohr, d/b/a
Windfohr Oil Company, for authority to institute
a waterflood project by injection into the San
Andres Formation as to wells located in Sections
11, 12, 13, 14, 23 and 24, Township 17 South,
Range 30 East, N.M.P.M., Eddy County, New Mexico.

I herewith enclose in triplicate the captioned Application,
complete with Exhibits attached to each copy and complete
with certificate showing that copies have been furnished to
the State Engineer and to the United States Geological Survey.

In talking to Mr. Nutter today, it is my impression that this
case may be heard at the hearing on June 6, 1967, and I sin-
cerely hope that it can be placed on that docket. Thanking
you in advance for your consideration, I remain,

Yours very truly,

Fred A. Watson
Fred A. Watson.

FAW:drm
Encs.

*Place first on
docket*

DOCKET MAILED

Date 5-25-67

W

RECEIVED
MAY 22 AM 8 11 '67

May 19, 1967

Mr. Ralph L. Gray
Consultant
Box 198
Artesia, New Mexico

Dear Mr. Gray:

Your letter of May 9, 1967 referring to my comments on the Windfohr Oil Company application seeking Oil Conservation Commission authorization for a waterflood project is gratefully acknowledged.

FEI/ma
cc-Mr. Neil Watson
Mr. A. L. Porter, Jr.
Mr. F. H. Hennighausen

Yours truly,

S. E. Reynolds
State Engineer

By:

Frank E. Irby
Chief
Water Rights Div.

RALPH L. GRAY
PETROLEUM ENGINEERING - PRODUCTION
CONSULTANT
302 CARPER BUILDING
ARTESIA, NEW MEXICO
May 9, 1967

67 May 10 PM 1 27

State Engineer Office
Santa Fe, New Mexico

Case 3592

Attention: Mr. Frank E. Irby

Dear Mr. Irby:

This refers to your letter of May 5, 1967, regarding the application of Windfohr Oil Company for authorization to conduct a waterflood project on their proposed Grayburg Jackson San Andres Unit, Eddy County, New Mexico. Your letter made certain comments in regard to information submitted in our application. We would like to explain these questions as follows:

1. In drafting the diagrammatic sketch shown as Exhibit #3, the amount of cement used on the oil strings was omitted through an oversight. In each case, 100 sacks of cement were used in cementing the 7" oil strings.
2. The estimated top of cement is based on 100 sacks of cement.
3. No depths were shown for the packer point inside the 4½" casing. The depth of the packer will not be determined until such time as the packer is actually run and we consider that for the purpose of the diagrammatic sketch, that the packer being shown set in the 4½" liner is adequate. The installation of the 4½" liner will be a normal condition and we would estimate that the top of the liner will be within the range of 50 to 150 feet above the 7" casing point.
4. Mr. Irby states that no indication is given as to how the new wells will be constructed or equipped. It was planned to bring this out in the hearing in our testimony but in order to furnish you information at this time, it is planned to cement new casing to the bottom of the hole and pay zones will be perforated. It is doubtful that we will use a packer in the new wells.

Yours very truly,


REGISTERED PETROLEUM ENGINEER.

RLG:lw

cc: Mr. Neil Watson
Mr. A. L. Porter, Jr.
Mr. F. H. Hennighausen



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

**S. E. REYNOLDS
STATE ENGINEER**

May 5, 1967

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

Case 3592

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

Dear Mr. Porter:

Reference is made to the application of Windfohr Oil Company which seeks authorization for a waterflood project in Sections 11, 12, 13, 14, 23 and 24, Township 17 South, Range 30 East.

For your convenience, I respectfully offer the following four comments regarding this application:

1. No cement quantities are given for the oil string.
2. In view of #1, there seems to be no basis for estimating the top of the cement surrounding the oil string.
3. No setting depth, with relation to the cement top, is given for packers which are to be installed.
4. No indication is given as to how the new wells will be constructed and equipped.

FEI/ma
cc-Watson & Watson
F. H. Hennighausen

Yours truly,

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Div.

WINDFOHR OIL COMPANY

DAILY OIL & WATER PRODUCTION FOR FEBRUARY 1967

	<u>OIL</u>	<u>WATER</u>
Gissler "A" #2	2	0
#3	1	0
#4	3	0
#5	2	0
#6	2	0
#7	2	0
#8	2	0
#9	2	0
#10	1	0
#11	1	0
Lease Total	<u>18</u>	<u>0</u>
Gissler "B" #1	2	0
#2	1	0
Lease Total	<u>3</u>	<u>0</u>
Jackson "A" #2	3	0
#3	9	0
#4	1	0
#5	3	0
#6	3	0
#7	8	0
#8	3	0
#9	2	0
#10	2	3
#11	1	0
#12	2	0
#13	2	0
#14	6	0
#15	8	0
Lease Total	<u>53</u>	<u>3</u>
Jackson "B" #1	5	0
#2	10	3
#3	5	0
Lease Total	<u>20</u>	<u>3</u>
Stevens "A" #1	3	0
#2	5	2
#3	2	0
#4	5	0
#5	3	0
Lease Total	<u>18</u>	<u>2</u>
Stevens "B" #1	1	0
#2	1	0
Lease Total	<u>2</u>	<u>0</u>

Average Oil Production per day per well - - - - - 3 Bbls.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Windyford EXHIBIT NO. 7
CASE NO. 3592

WINDFOHR OIL COMPANY

<u>LEASE & WELL NOS.</u>	<u>NO. OF WELLS</u>	<u>ULTIMATE PRIMARY OIL</u>
Gissler "A" #2 - 11	10	1,262,433 bbls.
Gissler "B" #1 & #2	2	201,382
Jackson "A" #3 & #7	2	621,194
Jackson "A" #2 - 15	12	2,169,778
Jackson "B" #1, 2, 3, & 21	4	509,504
Stevens "A" #1 & #5	2	973,861
Stevens "A" #2 & #4	2	472,872
Stevens "A" #3	1	187,844
Stevens "B" #1 & #2	2	<u>107,442</u>
Total Ultimate Primary - - - - -		6,506,310 bbls.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Windfohr EXHIBIT NO. 8
CASE NO. 3592



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

JUN 26 1967

Windfohr Oil Company
1202 First National Bank Bldg.
Fort Worth, Texas 76102

Gentlemen:

On June 22, 1967, Robert H. Lyddan, Acting Director of the Geological Survey, approved the Grayburg-Jackson (San Andres) unit agreement, Eddy County, New Mexico, filed by your company as unit operator. This agreement has been designated No. 14-08-0001-8867, and is effective as of July 1, 1967.

Enclosed is one copy of the approved unit agreement for your records. We request that you furnish all interested principals with whatever evidence of this approval is deemed appropriate.

Sincerely yours,

Russell H. Wayford
For the Director

Enclosure

NOTED

'67 JUL 5 AM 8 13



CERTIFICATION--DETERMINATION

14-08-0001 8867

Pursuant to the authority vested in the Secretary of Interior, under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U. S. C. secs. 181, et seq., and delegated to the Director of the Geological Survey pursuant to Departmental Order No. 2365 of October 8, 1947, I do hereby:


A. Approve the attached agreement for the development and operation of the Grayburg-Jackson (San Andres) Unit Area, Eddy County, New Mexico.

B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.

C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

Dated JUN 22 1967.

ACTING


Director, United States Geological Survey

67 JUL 5 AM 8 13

WINDFOHR OIL COMPANY

1202 FIRST NATIONAL BANK BUILDING
FORT WORTH, TEXAS 76102

June 30, 1967

EDISON 2-5108

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


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

Dear Sir:

On June 6, 1967 Windfohr Oil Company filed an application with the New Mexico Oil Conservation Commission for injecting water into wells in our Grayburg Jackson (San-Andres) Unit located in the Grayburg-Jackson Pool. This application was approved by your Order No. R-3257. During the course of the hearing, it was requested that Windfohr Oil Company furnish the Conservation Commission with copies of the USGS approval letters when they were received. In compliance with this request, attached is a copy of the Certification--Determination and the transmittal letter received today from the United States Department of the Interior, Geological Survey. As will be seen, this Unit is effective July 1, 1967.

Yours very truly,

WINDFOHR OIL COMPANY


John Rush Vann

JRV/mf
Attachments

cc: Mr. Fred Watson

RALPH L. GRAY
PETROLEUM ENGINEERING - PRODUCTION
CONSULTANT
P. O. BOX 198
ARTESIA, NEW MEXICO

June 28, 1967

1967 JUN 29 AM 10 12

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

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

Dear Sir:

A short time ago Windfohr Oil Company filed an application with the New Mexico Oil Conservation Commission for injecting water into wells in their Grayburg-Jackson-San Andres Unit located in the Grayburg-Jackson Pool. This water injection project was approved by your Order No. R-3257. As stated in our testimony, the program for converting seven producing wells to water injection wells included cleaning out, running Gamma Ray-Sonic surveys and injectivity profile surveys, and then cementing 4 $\frac{1}{2}$ " liners through the open hole, perforating pay zones and setting packers in the upper portion of the 4 $\frac{1}{2}$ " liners.

Because of recent experience in conducting this conversion program, we wish permission to deviate slightly from the program as outlined at the hearing. As explained in our telephone conversation to you on June 27, 1967, we have found that these wells take a large amount of water in trying to conduct surveys and we have found it practically impossible to conduct a satisfactory injectivity profile survey because of the low pressures involved. Also because of the high degree of permeability and lack of formation pressure, we anticipate that considerable difficulty will probably be experienced in cementing liners through the open hole because of the loss of cement into the permeable intervals.

We would like to amend our conversion program to provide that after running Gamma Ray-Sonic and caliper surveys, we will load the casing with water and continue filling the hole with water until the water level in the casing stands at approximately the surface. Essentially what we will do is to pressure up the formation in the vicinity of the well bore so that satisfactory profile surveys can be conducted, and we believe this will also aid us in getting a good cement job when cementing the liners.

The United States Geological Survey has approved this revised program and we are attaching copies of Sundry Notices which are being filed with the U.S.G.S.

Your approval of this revision in our conversion program will be appreciated.

Yours very truly,


REGISTERED PETROLEUM ENGINEER.

RLG:lw

Encls.

cc: New Mexico Oil Conservation Commission, Artesia
Mr. Rush Vann, Windfohr Oil Company
Mr. E. R. McPhaul

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT 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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Convert to Water Injection		5. LEASE DESIGNATION AND SERIAL NO. LC-030570 (a)	
2. NAME OF OPERATOR WINDFOHR OIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1202 First National Bank Building, Fort Worth, Texas 76102		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' from West and 1980' from South lines of Sec. 13-17S-30E.		8. FARM OR LEASE NAME Stevens "A"	
14. PERMIT NO.		9. WELL NO. 2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson, GR, SA	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13-17S-30E	
		12. COUNTY OR PARISH Rddy	
		13. STATE New Mexico	

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) **Convert to Water Injection**PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐☒

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.)*

It is proposed to convert this well to a water injection well by the following work:

1. Clean hole by lowering tubing to bottom and pump 50 barrels of hot water down casing. Remove water by pumping well dry.
2. Pull rods and tubing. Run caliper survey.
- 2-A. Set umbrella bridge at about 3560'. Dump 10' of gravel and approximately 6' of cement on top of bridge.
3. Load casing with water, and continue filling hole with water until water level in casing stands at approximately the surface.
4. Run injectivity profile survey to locate zones taking water.
5. Cement 4½" O.D. J-55, 9.5# liner from bottom of hole to approximately 50' above 7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off.
6. Perforate 4½" liner in San Andres, using sand jet.
7. Acidize perforations with small quantities.
8. Run tubing internally coated with plastic and set tension packer in upper portion of 4½" liner. Inject water down tubing.

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

SIGNED

Ralph L. Gray

TITLE

Consulting Engineer.

DATE

June 27, 1967

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

'67 JUN 29 AM 8 12

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

August 21, 1967

C Mr. Ralph L. Gray
Post Office Box 198
Artesia, New Mexico

Dear Mr. Gray:

O Reference is made to your letter of June 28, 1967, concerning the Windfohr Oil Company Grayburg-Jackson Waterflood Project which was approved by Order No. R-3257, and also to subsequent telephone conversations between you and Mr. Dan Mutter of this office, particularly in reference to your request to defer running the liners in the injection wells for a period of time during which you would inject down the casing in order to achieve partial reservoir fill-up. This would permit obtaining injectivity profiles and should also cut down on cement loss while cementing the liners.

P

Y This letter, which is an amendment to our letter of June 13, 1967, regarding this project, provides written confirmation of Windfohr's authority to proceed in the manner outlined above for a maximum of six months.

Please advise this office in the event fill-up has not been obtained or if the liners have not been run by January 1, 1968.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/DSN/ir

cc: Oil Conservation Commission - Artesia, New Mexico
U. S. Geological Survey - Artesia, New Mexico
Mr. Frank Irby, State Engineer Office - Santa Fe, New Mexico
Case File 3592 ✓

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

June 13, 1967

C
O
Mr. Fred Watson
Watson & Watson
Attorneys at Law
Carper Building
Artesia, New Mexico

Dear Sir:

P
Reference is made to Commission Order No. R-3257, recently entered in Case No. 3592, approving the Windfohr Grayburg-Jackson Waterflood Project.

Y
Initial injection shall be through the eight authorized injection wells, all but one of which are to be converted producers. Injection into these seven wells shall be through plastic coated tubing set in packers, which shall be set in the upper portion of the 4 $\frac{1}{4}$ -inch liner to be inserted in each well. The casing-annulus shall be loaded with an inert fluid. Injection into the eighth well, which is to be drilled, shall be down tubing.

As to allowable, our calculations indicate that when all of the authorized injection wells have 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 1134 barrels per day when the Southeast New Mexico 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.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

-2-

Mr. Fred Watson
Watson & Watson
Attorneys at Law
Artesia, New Mexico

C
O
P
Y
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 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.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/DSN/ir

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

Oil Conservation Commission
Drawer DD
Artesia, New Mexico

U. S. Geological Survey
Artesia, New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-030570 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Stevens "A"

9. WELL NO.

5

10. FIELD AND POOL, OR WILDCAT

Grayburg-Jackson, GB, SA11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA**Sec. 13-17S-30E**

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

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 ☐ GAS WELL ☐ OTHER **Convert to Water Injection**

2. NAME OF OPERATOR

WINDEHOR OIL COMPANY

3. ADDRESS OF OPERATOR

1202 First National Bank Bldg., Fort Worth, Texas 761024. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

**660' from South and 1980' from West lines of
Sec. 13-17S-30E.**

14. PERMIT NO.

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

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 Water injection****K**

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.)

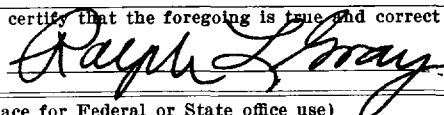
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

It is proposed to convert this well to a water injection well by the following work:

- 1. Clean hole by lowering tubing to bottom and pump 50 barrels of hot water down casing. Remove water by pumping well dry.**
- 2. Pull rods and tubing, run Gamma Ray-Sonic and caliper logs.**
- 3. Load casing with water, and continue filling hole with water until water level in casing stands at approximately the surface.**
- 4. Run injectivity profile survey to locate zones taking water.**
- 5. Cement 4½" O.D. J-55, 9.5# liner from bottom of hole to approximately 50' above 7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off.**
- 6. Perforate 4½" liner in San Andres, using sand jet.**
- 7. Acidize perforations with small quantities.**
- 8. Run tubing internally coated with plastic and set tension packer in upper portion of 4½" liner. Inject water down tubing.**

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

SIGNED



TITLE

Consulting Engineer.

DATE

June 27, 1967

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

267 JUN 29 AM 8 12

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-029338 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 ☐ GAS WELL ☐ OTHER ☒ **Convert to Water Injection**

2. NAME OF OPERATOR

WINDFOHR OIL COMPANY

3. ADDRESS OF OPERATOR

1202 First National Bank Bldg., Fort Worth, Texas 76102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface **660' from East and 1980' from North lines of
Section 14, 17S-30E.**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Gissler "A"

9. WELL NO.

9

10. FIELD AND POOL, OR WILDCAT

Grayburg-Jackson, GB, SA

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

Sec. 14-17S-30E

12. COUNTY OR PARISH 13. STATE

New Eddy

New Mexico

14. PERMIT NO.

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

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 Water 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.)*

It is proposed to convert this well to a water injection well by the following work:

1. Clean hole by lowering tubing to bottom and pump 50 barrels of hot water down casing. Remove water by pumping well dry.
2. Pull rods and tubing, run Gamma Ray-Sonic and caliper logs.
3. Load casing with water, and continue filling hole with water until water level in casing stands at approximately the surface.
4. Run injectivity profile survey to locate zones taking water.
5. Cement 4½" O.D. J-55, 9.5# liner from a selected point in the San Andres to a point approximately 50' above 7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off.
6. Perforate 4½" liner in San Andres, using sand jet.
7. Acidize perforations with small quantities.
8. Run tubing internally coated with plastic and set tension packer in upper portion of 4½" liner. Inject water down tubing.

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

SIGNED

Ralph L. Gray

TITLE

Consulting Engineer.

DATE

June 27, 1967

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

267 JUN 29 AM 8 12

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-025339 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Convert to Water Injection		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR WINDFOHR OIL COMPANY		8. FARM OR LEASE NAME Jackson "A"	
3. ADDRESS OF OPERATOR 1202 First National Bank Bldg., Fort Worth, Texas 76102		9. WELL NO. 3-X	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2000' from East and 1980' from South lines of Sec. 13-17S-30E.		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson, GB, SA	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.)	
		12. COUNTY OR PARISH Eddy	
		13. STATE 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) Convert to Water Injection	X

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) _____	

(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.) *

It is proposed to convert this well to a water injection well by the following work:

1. Clean hole by lowering tubing to bottom and pump 50 barrels of hot water down casing. Remove water by pumping well dry.
2. Pull rods and tubing, run Gamma Ray-Sonic and caliper logs.
- 2-A. After reviewing logs, well will be deepened 30 to 40' if it appears desirable.
3. Load casing with water, and continue filling hole with water until water level in casing stands at approximately the surface.
4. Run injectivity profile survey to locate zones taking water.
5. Cement 4½" O.D. J-55, 9.5# liner from bottom of hole to approximately 50' above 7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off.
6. Perforate 4½" liner in San Andres, using sand jet.
7. Acidize perforations with small quantities.
8. Run tubing internally coated with plastic and set tension packer in upper portion of 4½" liner. Inject water down tubing.

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

SIGNED Ralph L Gray TITLE Consulting Engineer. DATE June 27, 1967

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-029338 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Convert to Water Injection		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR WINDFOHR OIL COMPANY		8. FARM OR LEASE NAME Gissler "A"
3. ADDRESS OF OPERATOR 1202 First National Bank Bldg., Fort Worth, Texas 76102		9. WELL NO. 4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' from South and East lines of Sec. 14-17S-30E.		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson, GB, SA
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 14-17S-30E
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		12. COUNTY OR PARISH Eddy
		13. STATE New Mexico

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) Convert to Water Injection <input checked="" 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.) *

It is proposed to convert this well to a water injection well by the following work:

- Clean hole by lowering tubing to bottom and pump 50 barrels of hot water down casing. Remove water by pumping well dry.
- Pull rods and tubing, run Gamma Ray-Sonic and caliper logs.
- Load casing with water, and continue filling hole with water until water level in casing stands at approximately the surface.
- Run injectivity profile survey to locate zones taking water.
- Cement 4½" O.D. J-55, 9.5# liner from bottom of hole to approximately 50' above 7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off.
- Perforate 4½" liner in San Andres, using sand jet.
- Acidize perforations with small quantities.
- Run tubing internally coated with plastic and set tension packer in upper portion of 4½" liner. Inject water down tubing.

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

SIGNED Ralph L Gray TITLE Consulting Engineer. DATE June 27, 1967

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE MAIN OFFICE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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Instructions

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-074939

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Gissler "B"

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Grayburg-Jackson, Gbg, SA

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

Sec. 24-17S-30E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

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 ☐GAS
WELL ☐

OTHER

Convert to Water Injection Well

2. NAME OF OPERATOR

WINDEHOR OIL COMPANY

3. ADDRESS OF OPERATOR

1202 First National Bank Building, Fort Worth, Texas 76102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

660' from North and West lines of Sec. 24-17S-30E.

14. PERMIT NO.

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

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 Water Injection

X

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.)*

This form is submitted to replace program submitted June 8, 1967, for converting this producing well to a water injection well.

1. Clean hole by lowering tubing to bottom and pump 50 barrels of hot water down casing. Remove water by pumping well dry.

2. Pull rods and tubing, run Gamma Ray-Sonic and caliper logs.

2-A. After reviewing logs, well will be deepened 40 to 50 feet if it appears desirable.

3. Load casing with water, and continue filling hole with water until water level in casing stands at approximately the surface.

4. Run injectivity profile survey to locate zones taking water.

5. Cement 4½" O.D. J-55, 9.5# liner from top of shot hole (approximately 3375') to 50' above 7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off. Drill out to bottom of hole.

6. Run tubing internally coated with plastic and set tension packer in upper portion of 4½" liner. Inject water down tubing.

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

SIGNED

Ralph L Gray

TITLE

Consulting Engineer.

DATE

June 27, 1967

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

67 JUN 29 AM 9

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-C30570 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Stevens "A"

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Grayburg-Jackson, GB, SA

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

Sec. 13-17S-30E

12. COUNTY OR PARISH 13. STATE

Eddy

New Mexico

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 ☐GAS
WELL ☐

OTHER

Convert to Water Injection

2. NAME OF OPERATOR

WINDFOHR OIL COMPANY

3. ADDRESS OF OPERATOR

1202 First National Bank Bldg., Fort Worth, Texas 76102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1980' from North and West lines of Sec. 13-17S-30E.

14. PERMIT NO.

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

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 Water 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
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4. Run injectivity profile survey to locate zones taking water.
5. Cement 4½" O.D. J-55, 9.5# liner from bottom of hole to approximately 50' above
7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off.
6. Perforate 4½" liner in San Andres, using sand jet.
7. Acidize perforations with small quantities.
8. Run tubing internally coated with plastic and set tension packer in upper portion
of 4½" liner. Inject water down tubing.

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

SIGNED

Ralph L Gray

TITLE

Consulting Engineer.

DATE June 27, 1967

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

JUN 29 AM 8 12 '67

*See Instructions on Reverse Side

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