GOVERNOR DAVID F. CARGO CHAIRMAN

State of New Mexico Bil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MEMBER



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

3592

P. O. BOX 2088 SANTA FE

June 8, 1967

Mr. Fred Watson	Re: Case No. 3592
Watson & Watson	Order No. R-3257
Attorneys at Law Carper Building	Applicant:
Artesia, New Mexico	Ann Burnett Windfohr, dba
	Windfohr 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. Secretary-Director

ALP/ir

Carbon copy of order also sent to:

LAW OFFICES

NEIL B. WATSON FRED A. WATSON

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

AREA CODE 505 746-4151 · 746-2201

May 3, 1967.

Cm 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 sincerely hope that it can be placed on that docket. Thanking you in advance for your consideration, I remain,

Yours yery truly

FAW:drm Encs.

Slace first on

DOCKET MALLED

Date 5-25-6/

r

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

1 27

PETROLEUM ENGINEERING - PRODUCTION
CONSULTANT
302 CARPER BUILDING
ARTESIA, NEW MEXICO

May 9, 1967

Cace 3592

State Engineer Office Santa Fe, New Mexico

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 $4\frac{1}{2}$ " 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 $4\frac{1}{2}$ " liner is adequate. The installation of the $4\frac{1}{2}$ " 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 ENGINE

RLG: 1w

cc: Mr. Neil Watson

Mr. A. L. Porter, Jr. Mr. F. H. Hennighausen



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

Frank E. Irby

Chief

Water Rights Div.

WINDFOHR OIL COMPANY

DAILY OIL & WATER PRODUCTION FOR FEBRUARY 1967

		OIL .	WATER
Gissler "A'	#3 #4 #5 #6 #7 #8 #9 #10	2 1 3 2 2 2 2 2 2 1 1 18	0 0 0 0 0 0 0
Gissler "B"	#2	$\frac{2}{1}$	0 0 0
Jackson "A"		3 9 1 3 8 3 8 2 2 1 2 2 6 8 53	0 0 0 0 0 0 0 0 0 3 0 0 0 0
Jackson "B" Lease Total	#1 #2 #3	5 10 <u>5</u> 20	0 3 0 3
Stevens "A" Lease Total	#1 #2 #3 #4 #5	3 5 2 5 3 18	0 2 0 0 0 0
Stevens "B"	#1 #2	1.2 1.2 1.2 1.2 1.2	0
Lease Total	•	1	0

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Windford EXHIBIT NO. 7
CASE NO. 3572

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

WINDFOHR OIL COMPANY

LEASE & WELL NOS.	NO. OF WELLS	ULTIMATE PRIMARY OIL
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	107,442
Total Ultimate Primary		6,506,310 bbls.

OIL CONSERVATION COMMISSION Windfolm 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,

For the Director

Enclosure

N Challa

%7 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:

- 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	2	2	1967	
<i>Marca</i>					

AGING Director, United States Geological Survey

AM 8 13 717 Jul 5

WINDFOHR OIL COMPANY 1202 FIRST NATIONAL BANK BUILDING

FORT WORTH, TEXAS 76102

June 30, 1967

EDISON 2-5108

MAR

All more

267 Jul 5 All 8 10

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

*67 Jun 23 AH 8 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 throught 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 PETROLEIM ENGINEER

RLG:1w

Encls.

cc: New Mexico Oil Conservation Commission, Artesia

Mr. Rush Vann, Windfohr Oil Company

Mr. E. R. McPhaul

Form 9-331 (May 1963)

UNITED STATES SUBMIT IN TRIPLICATE* Other instructions on reverse side) Form approved. Budget Bureau No. 42-R1424. 5. Lease Designation and Serial No.

	GEOLOGICAL SURVEY		70-030570	(2)
SUNDRY I (Do not use this form for Use "AI	6. IF INDIAN, ALLOTTI	6. IF INDIAN, ALLOTTER OR TRIBE NAME		
1. OIL GAS			7. UNIT AGREEMENT N	AME
	HER Convert to Water In	<u>jection</u>	8. FARM OR LEASE NA	Wh.
·	IV			
WINDFORR OIL COMPAI 3. ADDRESS OF OPERATOR	14		9. WELL NO.	
1202 First National 4. LOCATION OF WELL (Report local See also space 17 below.)	Bank Building, Fort We ation clearly and in accordance with an	orth, Texas 76102 y State requirements.*	2 10. FIELD AND POOL, 6	OR WILDCAT
At surface 660° from \$	West and 1980' from Sour Sec. 13-		Grayburg-Jac 11. SEC., T., R., M., OR SUBVEY OR ARE	kson, GB, S
			See 13-179-	30E
14. PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	Sec 13-17S- 12. COUNTY OR PARIS	H 13. STATE
			Bddy	New Mexic
^{16.} Chec	k Appropriate Box To Indicate	Nature of Notice, Report, or C	Other Data	
NOTICE OF	INTENTION TO:	SUBSEQ	UENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING (
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONME	ENT*
REPAIR WELL	CHANGE PLANS	(Other)	of multiple completion	
	later Injection X	Completion or Recomp	s of multiple completion eletion Report and Log fo	orm.)
17. DESCRIBE PROPOSED OR COMPLET proposed work. If well is	ED OPERATIONS (Clearly state all pertine directionally drilled, give subsurface loc	eut details, and give pertinent dates, ations and measured and true vertic	, including estimated da al depths for all marke	te of starting any rs and zones perti-
nent to this work.)* It is proposed to	convert this well to a	water injection well b	v the followin	g work:
• •	lowering tubing to botto	-		_
	pumping well dry.	nes ester hemb he nest says	or not water	Contr Castifa
2. Pull rods and t	ubing. Run caliper sur	rvey.		
2-A. Set umbrella bu on top of bridg	ridge at about 3560'. e.	Dump 10' of gravel and	approximately	6' of ceme
-	th water, and continue in the automorphism in the sum of the sum o		r until water	level in
4. Run injectivity	profile survey to loca	ate zones taking water	·•	
	J-55, 9.5# liner from Test top of liner with			above 7"
6. Perforate 43"	liner in Sen Andres, us	ing sand jet.		
7. Acidize perform	tions with small quant:	ities.		
	ernally coated with place Inject water down tubin oing is true and correct		acker in upper	portion
SIGNED Kalph	The War	Consulting Engineer.	DATE June	27, 1967
(This space for Federal or Sta			nAir ()	Frank L
APPROVED BY			DATE	

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.

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-685229

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE. NEW MEXICO

August 21, 1967

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

Dear Mr. Gray:

Reference is made to your letter of June 28, 1967, concerning the Windfohr Gil 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.

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. ALP/DSM/ir Secretary-Director

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 1592

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE. NEW MEXICO

June 13, 1967



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





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



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 4½-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 provation office.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE. NEW MEXICO

-2-

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

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 unitisation, 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

State Engineer Office Santa Fe, New Mexico

> Oil Conservation Commission Drawer DD Artesia, New Mexico

U. S. Geological Survey Artesia. New Mexico Form 9-331 (May 1963)

UNITED STATES SUBMIT IN TRIPLICATE* DEPARTMENT OF THE INTERIOR (Other instructions on reverse side) **UNITED STATES**

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.

	LC-030570 (a)		
	Sals to drill or to deepen or plug back to a different reservoir. ATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
OIL GAS WELL OTHER 2. NAME OF OPERATOR	Convert to Water Injection	7. UNIT AGREEMENT 8. FARM OR LEASE N	
WINDFORR OIL COMPANY 3. ADDRESS OF OPERATOR		Stevens "A	
4. LOCATION OF WELL (Report location See also space 17 below.)	clearly and in accordance with any State requirements.	10. FIELD AND POOL,	OR WILDCAT
660' from Sou	th and 1980' from West lines of Sec. 13-178-30E.	11. SEC., T., R., M., O SURVEY OR AR	R BLK, AND
14 penyum ya	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Sec. 13-178	
14. PERMIT NO.	10. ELEVATIONS (Show whether Dr., Rr., GR., etc.)	Eddy	New Mexico
16. Check A	parapriate Box To Indicate Nature of Natice Report of	r Other Data	

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

NOTICE OF INTENTION TO.		School Control			
	F	1			
TEST WATER SHUT-OFF	<u> </u>	PULL OR ALTER CASING		WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL		CHANGE PLANS		(Other)	
(Other) Convert	to	Unter injection	x	(Note: Report results of m	nultiple completion on Well 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.
- 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. Rum injectivity profile survey to locate zones taking water.
- Cement 42" 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 44" 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 44" liner. Inject water down tubing.

18. I hereby certify that the foregoing is true and corr	ect TITLE	Consulting Engineer.	DATE June 27, 1967
(This space for Federal or State office use)			
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	_ TITLE _		DATE JUN 29 Ali 8 12

eral 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. General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Fed-

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

U.S. GOVERNMENT PRINTING OFFICE: 1963--O-685229

Form 9-331 (May 1963)

HNITED STATES

ONLIED SIVIES	Other instruction	Budget Bureau No. 42-R14
PEPARTMENT OF THE INTERIOR	verse side)	5. LEASE DESIGNATION AND SERIAL NO

DEPA	RTMENT OF THE INTE GEOLOGICAL SURVEY	RIOR verse side)	5. LEASE DESIGNATION 1.C-029338	
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2. NAME OF OPERATOR	ER Convert to Water In	njection	8. FARM OR LEASE NA	ME
	v		Gissler "A"	
3. ADDRESS OF OPERATOR	<u> </u>		9. WELL NO.	
1202 First National 4. LOCATION OF WELL (Report location and the second 17 below)	Bank Bldg., Fort Wort	th. Texas 76102 any State requirements.	10. FIELD AND POOL,	OR WILDCAT
	East and 1980' from No		Grayburg-Jzck 11. SEC., T., R., M., OR SURVEY OR ARE	BLK. AND
			Sec. 14-179	3-30E
14. PERMIT NO.	15. ELEVATIONS (Show whether	r DF, RT, GR, etc.)	12. COUNTY OR PARIS	
			New Eddy	New Mexic
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) Convert to 3 17. DESCRIBE PROPOSED OR COMPLETE proposed work. If well is dinent to this work.)*	rectionally drilled, give subsurface le	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (Note: Report result	ical depths for all marke	casing ent* n on Well orm.) nte of starting any rs and zones perti-
1. Clean hole by 16 Remove water by 2. Pull rods and to 3. Load casing with casing stands as	owering tubing to both pumping well dry. ubing, run Gamma Ray-S h water, and continue t approximately the se	tom and pump 50 barrel Sonic and caliper logs filling hole with wat urface.	s of hot water . er until water	down casing
	.I-55. 9.5# liner from	cate zones taking wate m a selected point in		to a point

- approximately 50' above 7" casing shoe. Test top of liner with 1800 psi. pressure for shut-off.
- 6. Perforate 41" liner in San Andres, using sand jet.
- 7. Acidize perforations with small quantities.

8. Kun tubing internally co	ated with plastic and set tens	ion packer in upper portion
of 4½" liner. Inject wa	ter down tubing.	
8. I hereby certify that the foregoing is true and	1 correct	
SIGNED STAYM I'M	THILE Consulting Engine	er. DANS June 276 1967
(This space for Federal or State office use)		
APPROVED BY	TITLE	DAGT JUN 29 AH 8 12

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.

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. tem 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.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685229

Form 9-331

LINITED STATES

OMITED STATES	SUBMIT IN INITIALITY	Budget Bureau No. 42-R14
EPARTMENT OF THE INTERIOR	verse side)	5. LEASE DESIGNATION AND SERIAL NO

(May 1963)		MENT OF THE INTER SEOLOGICAL SURVEY	(Other instructions on re-	5. LEASE DESIGNATION .	Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO. 1.G-025339 (a)	
(Do		FICES AND REPORTS sals to drill or to deepen or plug ATION FOR PERMIT—" for such		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
oil [GAS			7. UNIT AGREEMENT NA.	ME	
2. NAME OF	WELL OTHER OPERATOR	Convert to Water In	jection	8. FARM OR LEASE NAM	<u></u>	
	OHR OIL COMPANY OF OPERATOR			Jackson "A"		
				_		
1202	First National Ba	nk Bldg. Fort Wort	h. Texas /6102	3-X 10. FIELD AND POOL, OF	8 WILDCAT	
See also	space 17 below.)	deally and in decordance with an	y but requirements.			
At surra	2000' from Es	st and 1980' from S	outh lines of	Grayburg-Jackson, GB, SA		
		S	ec. 13-17S-30E.	SURVEY OR AREA	DK. AND	
				Sec. 13-17S-	-30E	
14. PERMIT	NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OR PARISH		
				Eddy	New Mexic	
16.	Check A	ppropriate Box To Indicate	Nature of Notice, Report, or C)ther Data		
	NOTICE OF INTER	NTION TO:	SUBSEQU	JENT REPORT OF:		
TEST W	VATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	CELL.	
		MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	ASING	
		ABANDON*	SHOOTING OR ACIDIZING	ABANDONMEN	1T*	
REPAIR		CHANGE PLANS	(Other)	<u> </u>		
(Other]	(Note: Report results	of multiple completion of letion Report and Log for	on Well	
17. DESCRIBI	E PROPOSED OR COMPLETED OP	ERATIONS (Clearly state all pertine	ent details, and give pertinent dates, eations and measured and true vertice	including estimated date	e of starting any	
		ert this well to a	water injection well b	v the following	t topph.	
20 20	yar oposion ou com) one rearrest	, work,	
1. C	lean hole by lowe	ring tubing to botto	om and pump 50 barrels	of hot water	lown coning	
	emove water by pu		om and pump so outloss	or more warder of	MI COBING	
2. P	ull rode and tubi	nd run Camma Dav_Q	onic and caliper logs.			

2-A.	After reviewing	logs, well will be	deepened 30 to 40' if	it appears desi	irable.	

- 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.
- Cement 42" 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 41" liner in San Andres, using sand jet.
- 7. Acidize perforations with small quantities.

8. Kun tubing internally coated		er in upper portion
of 43" liner. Inject water de	own tubing.	
8. I hereby certify that the foregoing is true and correct	-	<i>:</i>
SIGNED Salph Lorey	TITLE Consulting Engineer.	DATE June 27, 1967
(This space for Federal or State office use)		FAIL OF LAND
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		0.00

"67 Jun 29 Am 8 12

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.

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. 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.

U.S. GOVERNMENT PRINTING OFFICE: 1963--- O-685229

Form 9-331 (May 1963)

UNITED STATES SUBMIT IN TRIPLICATE* (Other instructions on reverse side) Form approved. Budget Bureau No. 42-R1424. 5. Lease Designation and Serial No.

GEOLOGICAL SURVEY	LC=029338 (a)		
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.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1. OIL GAS T	7. UNIT AGREEMENT NAME		
WELL WELL OTHER Convert to Water Injection			
2. NAME OF OPERATOR	8. FARM OR LEASE NAME		
WINDFOHR OIL COMPANY 3. ADDRESS OF OPERATOR	Gissler "A"		
1202 First National Bank Bldg. Fort Worth, Texas 76102 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*	10. FIELD AND POOL, OR WILDCAT		
See also space 17 below.) At surface 660' from South and East lines of Sec. 14-178-30E.	Grayburg-Jackson, GB, SA 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Sec. 14-175-30E 12. COUNTY OR PARISH 13. STATE		
14. PERMIT NO.			
	Eddy New Mexico		
16. Check Appropriate Box To Indicate Nature of Notice, Report, o	r Other Data		
NOTICE OF INTENTION TO:	EQUENT REPORT OF:		
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL		
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING		
SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING	ABANDONMENT*		
REPAIR WELL CHANGE PLANS (Other) (NOTE: Report res	ts of multiple completion on Well		
(Other) Convert to Water Injection X Completion or Reco	mpletion Report and Log form.)		
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent da proposed work. If well is directionally drilled, give subsurface locations and measured and true venent to this work.)*	tical depths for all markers and zones perti-		
It is proposed to convert this well to a water injection well 1. Clean hole by lowering tubing to bottom and pump 50 barre			
Remove water by pumping well dry.	TO OF HOL MARCH GOME CERTIES.		
2. Pull rods and tubing, run Gamma Ray-Sonic and caliper log	8.		
 Load casing with water, and continue filling hole with wa casing stands at approximately the surface. 	ter until water level in		
4. Run injectivity profile survey to locate zones taking wat	er.		
5. Cement $4\frac{1}{2}$ " O.D. J-55, 9.5# liner from bottom of hole to a casing shoe. Test top of liner with 1800 psi. pressure f			
6. Perforate 42" 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 $4\frac{1}{2}$ " liner. Inject:water down tubing.

18. I hereby certify that the foregoing is tole and correct SIGNED	TITLE Consulting Engineer.	DATE June 27, 1967
(This space for Federal or State office use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE MAIN C.

eral 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 Federal 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. General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Fed-

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.

In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive kones, 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 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. conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685229

Form 9-331 (May 1963)

UNITED STATES SUBMIT IN TRIPLICATE* DEPARTMENT OF THE INTERIOR (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
LEASE DESIGNATION AND SERIAL NO.

			SEOLOGICAL SURVEY	TIOTE Verse Buch	NM-074939	}
	SUND	RY NOT	ICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTT	
	(Do not use this fo	rm for propos Use "APPLICA	sals to drill or to deepen or plug ATION FOR PERMIT—" for such	; back to a different reservoir. proposals.)		
ī.					7. UNIT AGREEMENT	NAME
OIL WEL	L GAS WELL	OTHER	Convert to Water I	Injection Well		
2, NAM	E OF OPERATOR				8. FARM OR LEASE N	AME
1.7	INDFOHR OIL	COMPANY			Gissler '	'B''
3. ADDI	RESS OF OPERATOR				9. WELL NO.	
1	202 First No	tional I	Bank Building, Fort learly and in accordance with an	Worth, Texas 76102	2	
see	also space it below	.)			10. FIELD AND POOL,	
At s	surface 660' i	from Nort	th and West lines of	f Sec. 24- 17 S-3 0E.	Grayburg-Jac 11. SEC., T., R., M., OI SURVEY OR AR	ckson, Gbg, Sa B BLK. AND BA
					Sec. 24-175	S-30E
14. PER	MIT NO.		15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OR PARIS	
					Eddy	New Mexico
.6.	-	CL I. A -		Natura (Nation Person of C		
••		-		Nature of Notice, Report, or C		
	NO:	rice of inten	TION TO:	SUBSEQU	UENT REPORT OF:	
TES	ST WATER SHUT-OFF	1	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	WELL
FRA	ACTURE TREAT		MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING	CASING
SH	OOT OR ACIDIZE		ABANDON*	SHOOTING OR ACIDIZING	ABANDONM	ENT*
REI	PAIR WELL		CHANGE PLANS	(Other)(Note: Report results	of multiple completion	n on Well
			r Injection X	Completion or Recomplete details, and give pertinent dates, cations and measured and true vertical	letion Report and Log i	form.)
1. 2.	Remove wat	er by pu	mping well dry.	om and pump 50 barrels onic and caliper logs.		down casing.
				deepened 40 to 50 feet		s desirable.
3.	Load casin casing sta	g with w	ater, and continue pproximately the su	filling hole with wate rface.	r until water	level in
4.	Run inject	ivity pr	ofile survey to loc	ate zones taking water		
5.	50' above	7" casin	55, 9.5# liner from g shoe. Test top on of hole.	top of shot hole (app f liner with 1800 psi.	proximately 33 pressure for	75') to shut-off.
6.	Run tubing of $4\frac{1}{2}$ " lin	interna er. Inj	ally coated with pla ect water down tubi	stic and set tension ping.	eacker in uppe	r portion
SIG	NED CERTIFY THAN the	th I	may TITLE_	Consulting Engineer.	DATE Jun	ne 27, 1967
(Th	is space for Federal	l or State offi	ce use)			
A DT	DRAVED BV		TITLE		DATE	MARCH STATE

DATE _

TITLE

APPROVED BY _______ CONDITIONS OF APPROVAL, IF ANY:

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U.S. GOVERNMENT PRINTING OFFICE: 1963—O-685229

Form 9-331 (May 1963)

UNITED STATES & OF THE INTERIOR OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
LEASE DESIGNATION AND SERIAL NO.

RTMENT OF THE INTERIOR (Other Instructions of	11 1	re-	5. LEASE DESIGNATION AND SERIAL N
GEOLOGICAL SURVEY		i	10-030570 (0)

	GEOLOGICAL SURVEY		LC-030570 ((a)
	NOTICES AND REPORTS (proposals to drill or to deepen or plug PPLICATION FOR PERMIT—" for such p		6. IF INDIAN, ALLOTTED	S OR TRIBE NAME
1.			7. UNIT AGREEMENT NA	ME
OIL GAS WELL OT	HER Convert to Water In	iection		
2. NAME OF OPERATOR	Convert to water In	300000	8. FARM OR LEASE NAM	1E
WINDFORR OIL COMPAN	ry .		Stevens "A'	ł
3. ADDRESS OF OPERATOR			9. WELL NO.	
1202 First National	Bank Bldg. Fort Worth ation clearly and in accordance with any	Texas 76102	3 10. FIELD AND POOL, O	P. WILDCAD
See also space 17 below.) At surface	citize citating and in decordance with any	State requirements.		
1980' from	North and West lines o	f Sec. 13-17S-30E.	Grayburg-Jac 11. SEC., T., R., M., OR I SURVEY OR AREA	SLK. AND
			Sec. 13-17S-	-30E
14. PERMIT NO.	15. ELEVATIONS (Show whether Di	r, RT, GR, etc.)		1 .
	1		Eddy	New Mexico
16. Chec	k Appropriate Box To Indicate N	Nature of Notice, Report, or (Other Data	
NOTICE OF	INTENTION TO:	SUBSEC	QUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING V	V DI I
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA	
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONME	
REPAIR WELL	CHANGE PLANS	(Other)		
(Other) Convert to	Water Injection X	(Note: Report result Completion or Recom	s of multiple completion pletion Report and Log for	on Well
	lowering tubing to botto y pumping well dry.	m and pump 50 barrels	s of hot water	down casing.
2. Pull rods and	tubing, run Gamma Ray-So	nic and caliper logs.	•	
	th water, and continue f at approximately the sur		er until water	level in
4. Rum injectivity	y profile survey to loca	te zones taking water	r.	
5. Cement 4½" O.D 7" casing shoe	. J-55, 9.5# liner from . Test top of liner wit	bottom of hole to apph 1800 psi. pressure	proximately 50' for shut-off.	above
6. Perforate 41"	liner in San Andres, usi	ng sand jet.		
7. Acidize perfos	ations with small quanti	ties.		
of 4½" liner.	ernally coated with plas Inject water down tubin		packer in upper	portion
18. I hereby certify that the foreg	44			
SIGNED SIGNED		Consulting Engineer.	DATE June	27, 1967
(This space for Federal or Sta	ate office use)		DATE	
COMPTENDED OF ADDROVAT	TTO 4 3757 -			

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