

Well Name: WINDFOHR 4 FEDERAL	Well Location: T18S / R27E / SEC 4 / NESW / 32.7740541 / -104.2820576	County or Parish/State: EDDY / NM
Well Number: 4	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC061783A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001530474	Operator: RILEY PERMIAN OPERATING COMPANY LLC	

Notice of Intent

Sundry ID: 2798835

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/03/2024

Date proposed operation will begin: 09/03/2024

Procedure Description:

Type of Action: Plug and Abandonment

Time Sundry Submitted: 08:37

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Riley\_Permian\_Windfohr\_4\_Federal\_4\_Plugging\_Procedure\_20240703083629.pdf
- Riley\_Permian\_Windfohr\_4\_Fed\_\_4\_Proposed\_WBD\_20240703083616.pdf
- Windfohr\_4\_Fed\_\_\_Current\_WBD\_20240703083603.pdf

Well Name: WINDFOHR 4 FEDERAL

Well Location: T18S / R27E / SEC 4 /  
NESW / 32.7740541 / -104.2820576

County or Parish/State: EDDY /  
NM

Well Number: 4

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC061783A

Unit or CA Name:

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US Well Number: 3001530474

Operator: RILEY PERMIAN  
OPERATING COMPANY LLC

Conditions of Approval

Specialist Review

Windfohl\_4\_Federal\_4\_Sundry\_ID\_2798835\_P\_A\_20240730105854.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: DEB FIORDA

Signed on: JUL 03, 2024 08:36 AM

Name: RILEY PERMIAN OPERATING COMPANY LLC

Title: REGULATORY SPECIALIST

Street Address: 29 E RENO AVENUE

City: OKLAHOMA CITY

State: OK

Phone: (405) 754-6968

Email address: DEBFIORDA@RILEYPERMIAN.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 07/30/2024

Signature: Long Vo

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.	NMLC061783A
6. If Indian, Allottee or Tribe Name	

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. WINDFOHR 4 FEDERAL/4
2. Name of Operator RILEY PERMIAN OPERATING COMPANY LLC		9. API Well No. 3001530474
3a. Address 29 E RENO AVENUE SUITE 500, OKLAHOMA C	3b. Phone No. (include area code) (405) 543-1411	10. Field and Pool or Exploratory Area Wildcat
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 4/T18S/R27E/NMP		11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) DEB FIORDA / Ph: (405) 754-6968	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 07/03/2024

<b>THE SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved by LONG VO / Ph: (575) 988-5402 / Approved	Title Petroleum Engineer	Date 07/30/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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(Instructions on page 2)

## GENERAL INSTRUCTIONS

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## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. 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 the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## **Additional Information**

### **Location of Well**

0. SHL: NESW / 1650 FSL / 2200 FEL / TWSP: 18S / RANGE: 27E / SECTION: 4 / LAT: 32.7740541 / LONG: -104.2820576 ( TVD: 0 feet, MD: 0 feet )

BHL: NESW / 1650 FSL / 2200 FEL / TWSP: 18S / SECTION: / LAT: 0.0 / LONG: 0.0 ( TVD: 0 feet, MD: 0 feet )

**Riley Permian**

**WINDFOHR 4 FEDERAL #4 Plugging Procedure**

**EDDY COUNTY/API 30-015-30474**

**Notify State 24 hours prior to beginning work.**

- 1. MIRU Rig and CMT equipment. Check anchors if not using Basebeam**
- 2. ND WH, NU BOP (Function Test)**
- 3. POH w/Production**
- 4. RIH w/TBG to 1984'. Tag CIBP. Load Hole w/9.5# MLF. Plug #1 25 SXS 1984-1884'.**
- 5. LD TBG to 1380'. POH w/TBG. RUWL. CBL to Surface. (\*)**
- 6. RIH w/TBG'. Plug #2 30 SXS 1380-1180'. (Surface/Grayburg)**
- 7. LD TBG to 900'. Plug #3. 15 sxs 900-800'.**
- 8. LD All TBG. Plug #4 5 SXS 15-0'**
- 9. RDMO PU, transport trucks, and equipment. Cut off WH 3' below ground level and install dry hole marker. Cut off anchors.**

**\*Plugs subject to change based on CBL report.**



RILEY  
PERMIAN

REFERENCE DEPTHS

Ground Elev	3586
Log Elev	3593
KB	7.0

COMPLETION DATA

PACKER FLUID	No Packer
JOB TYPE	Vertical Frac

WELLHEAD DATA

TYPE	
WP	
MFG	
TREE CAP	

Pumping Unit Data

MFG	Bethlehem
API	C288-173-100
Speed	9
SL	100

Full speed 211bpd - 1.5"

Target 17 bpd

8%

Surface Casing 8.625 -in 24 ppf J-55 STC @1350 fTMD 1350 fTVD

615 sx Cls C from 1350 to surface

NAME	MEAS. DEPTH
Seven Rivers	315'
Bowers	640'
Queen	835'
Grayburg	1202'
Casing	1335'
Premier Sand	1452'
San Andres	1490
Alpha	1771'
San Andres 'A'	1970'
San Andres 'B'	2042'
San Andres 'C'	2144'
San Andres 'D'	2190'
Lower SA Porosity	2580'
Glorieta	2850'
Yeso	2962'
B/Yeso Porosity	3284'
Total Depth	3648'

PBTD Reported at 3576

Prod. Casing 5.5 -in 15.5 ppf L-80 LTC @3645 fTMD 3645 fTVD

700 sx Cls C from 3645' to surface

STRING DATA

NAME	SIZE (in)	Hole (in)	WT	GRADE	ID	Drift	CONN	Burst	Collapse	MD	TVD	Capacity	TOC
CONDUCTOR	14		0.25-in							40	40	0	Surface
Surface	8.625	12.25	24	J-55	12.615	12.459	STC	2370	740	1350	1350	0.154593185	Surface
Intermediate	0	0	0	J-55	#N/A	#N/A	0	#N/A	#N/A	0	0	#N/A	0
PROD	5.5	7.875	15.5	L-80	#N/A	#N/A	LTC	#N/A	#N/A	3645	3645	#N/A	Surface

Surface casing leak

Estimated Tally

TUBING DETAIL IN

Item	Length	Depth	Length	Top	Bottom	Comments
KB	7.00	7.00				
(63) 2-7/8" J-55 PROD TBG	1,937.37	1,944.37				
SN	1.10	1,945.47				
CIBP	3'	1984' W/ 64 ITS IN				

ROD DETAIL IN

Item	Length	Depth	Length	Top	Bottom	Comments
KB	7	7				
1.25" PR w/ 1.5" 14" barrel	22	29				
(55) 7/8" Slick rod	1375	1404				
(20) 3/4" slick rod	500	1904				

11. PREPARATION RECORD (Journal, size and number)

YESO 2966'-3280' (0-40 chd HOLE) (Lower CIBP @ 2900')

Lower San Andres 2057' - 2080'

Upper San Andres 2057' - 2237'

ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DATE OF OPERATION: 8/1/2024

WELL NAME: 24WE0092

WELL TYPE: PROD

WELL STATUS: ACTIVE

WELL DEPTH: 3648'

WELL ID: 30-015-30474

WELL SURFACE: 18S 27E - SEC 4 1650 FSL 2200 FEL

WELL SURFACE AFE: 24WE0092

WELL SURFACE PREPARED BY: Austin Cantwell

WELL SURFACE REVISION DATE: 5/12/2024

5/22/01 Ran GR/CLL/CBL/VDL from PBTD 3582' to surf. OK. Perf'd Yeso w/ 1 JSPP as follows: 2966', 2977', 2986', 2992', 2999', 3024', 3036', 3043', 3054', 3066', 3068', 3070', 3072', 3076', 3078', 3082', 3090', 3094', 3096', 3098', 3106', 3108', 3110', 3166', 3212', 3126', 3242', 3244', 3251', 3280' for a total of 30 holes (40" EHD).

5/23/01 Acidized Yeso perf's 2966' - 3280' w/a total of 35 bbls 15% HCL acid. Frac'd Yeso perf's 2966'-3280' w/22,000 gal fresh water & 85,000 gal 10# linear gelled fresh water + 92,940# 20/40 Brady sand + 22,155# 16/30 C sand.

Tubing 2.875 -in 6.5ppf J-55 8rd EUE @3300 fTMD 3300 fTVD

8/7/01 PU CIBP & TH on tbg, set CIBP @ ±2900'. Test CIBP to 1000 psi. Perforate Lower San Andres @ 2593'-2684' 1 JSPP for a total of 30 holes (40"EHD). Acidize Lower San Andres 2593'-2684' w/1500 gals 15% NE-FE

8/8/01 Frac w/90,500 gals fresh water + 58,000# 20/40 Brady sand + 12,750# 16/30 curable resin coated sand. TT RBP & set @ ±2350'. Test RBP to 1000 psi. Perforate Upper San Andres @ 2057'-2237' 1 JSPP for a total of 23 (40" EHD). Acidize Upper San Andres 2057'-2237' w/2500 gals 15% Ne-FE and Frac w/121,500 gals fresh water 73,500# 20/40 Brady sand + 16,500#16/30 curable resin coated.

Riley Permian

Surface Location

18S 27E - SEC 4 1650 FSL 2200 FEL

AFE

24WE0092

PREPARED BY:

Austin Cantwell

Revision DATE:

5/12/2024

Field /Location

Red Lake; Yeso Windfohr 4 Federal

Well:

#4

County, State

Eddy New Mexico

API:

30-015-30474

Current WBS

SA & Yeso Formation

RILEY PERMIAN

Directional Data

KOP	-
MAX DEV	0 ft
MAX DOGLEG	100 ft



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Sundry Print Report

07/30/2024

Well Name: WINDFOHR 4 FEDERAL	Well Location: T18S / R27E / SEC 4 / NESW / 32.7740541 / -104.2820576	County or Parish/State: EDDY / NM
Well Number: 4	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC061783A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001530474	Operator: RILEY PERMIAN OPERATING COMPANY LLC	

LONG  
VODigitally signed  
by LONG VO  
Date: 2024.07.30  
11:48:52 -05'00'

## Notice of Intent

Sundry ID: 2798835

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/03/2024

Date proposed operation will begin: 09/03/2024

Type of Action: Plug and Abandonment

Time Sundry Submitted: 08:37

Procedure Description:

## Surface Disturbance

Is any additional surface disturbance proposed?: No

## NOI Attachments

Procedure Description

Riley\_Permian\_Windfohr\_4\_Federal\_4\_Plugging\_Procedure\_20240703083629.pdf

Riley\_Permian\_Windfohr\_4\_Fed\_\_4\_Proposed\_WBD\_20240703083616.pdf

Windfohr\_4\_Fed\_\_Current\_WBD\_20240703083603.pdf

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

<b>Well Name:</b> WINDFOHR 4 FEDERAL	<b>Well Location:</b> T18S / R27E / SEC 4 / NESW / 32.7740541 / -104.2820576	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 4	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
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**Operator Electronic Signature:** DEB FIORDA**Signed on:** JUL 03, 2024 08:36 AM**Name:** RILEY PERMIAN OPERATING COMPANY LLC**Title:** REGULATORY SPECIALIST**Street Address:** 29 E RENO AVENUE**City:** OKLAHOMA CITY**State:** OK**Phone:** (405) 754-6968**Email address:** DEBFIORDA@RILEYPERMIAN.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:**

Form 3160-5  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
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**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No. **WINDFOHR 4 FEDERAL/4**

2. Name of Operator

**RILEY PERMIAN OPERATING COMPANY LLC**9. API Well No. **3001530474**3a. Address **29 E RENO AVENUE SUITE 500, OKLAHOMA C**3b. Phone No. (include area code)  
**(405) 543-1411**10. Field and Pool or Exploratory Area  
**Wildcat**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEC 4/T18S/R27E/NMP**11. Country or Parish, State  
**EDDY/NM****12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
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**DEB FIORDA / Ph: (405) 754-6968****REGULATORY SPECIALIST**

Title

Signature (Electronic Submission)

Date

**07/03/2024****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**Long Vc**Title **Petroleum Engineer**Date **7/30/2024**

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## Additional Information

### Location of Well

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BHL: NESW / 1650 FSL / 2200 FEL / TWSP: 18S / SECTION: / LAT: 0.0 / LONG: 0.0 ( TVD: 0 feet, MD: 0 feet )

## Riley Permian

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3. POH w/Production
4. RIH w/TBG to 1984'. Tag CIBP. Load Hole w/9.5# MLF. Plug #1 25 SXS 1984-1884'. Leak test CIBP.
5. LD TBG to <sup>1540'</sup>~~1380'~~. POH w/TBG. RUWL. CBL to Surface. (\*)
6. RIH w/TBG'. Plug #2 <sup>41</sup>~~30~~ SXS ~~1380-1180'~~ (Surface/Grayburg) (1540' to 1139') WOC STA
7. LD TBG to 900'. Plug #3. <sup>25</sup>~~15~~ sxs <sup>776</sup>~~900-800'~~.
8. LD All TBG. Plug #4 <sup>61</sup>~~5~~ SXS ~~15-0'~~ 400' to surface.
9. RDMO PU, transport trucks, and equipment. Cut off WH 3' below ground level and install dry hole marker. Cut off anchors.

\*Plugs subject to change based on CBL report.



Released to Imaging: 8/15/2024 4:10:37 PM

REFERENCE DEPTHS				STRING DATA														
Ground Elev	3586	Log Elev	3593	NAME	SIZE (in)	Hole (in)	WT	GRADE	ID	Drift	CONV	Burst	Collapse	MD	TVD			Capacity
KB	7.0			CONDUCTOR	14		0.25 in								40	40	0	Surface
				Surface	8.625	12.25	24	1.55	12.615	12.459	STC	2370	740		1350	1350	0.154593185	Surface
				Intermediate	0	0	0	1.55	12.615	12.459	STC	2370	740		0	0	0	0
				PROD	5.5	7.875	15.5	1.80	12.615	12.459	STC	2370	740		3645	3645	0.154593185	Surface

COMPLETION DATA	
PACKER FLUID	No Packer
JOB TYPE	Vertical Frac

WELLHEAD DATA	
TYPE	
WP	
MFG	
TREE CAP	

Pumping Unit Data	
MFG	Bethlehem
API	C288-173-100
Speed	8
SL	100

Full speed 211 bpd - 1.5"  
Target 17 bpd  
8%

Surface Casing 8.625 in 24 ppf 1.55 STC @ 1350 RMD 1350 RMD  
615' vs Ck C from 1350 to surface

NAME	MEAS. DEPTH
Seven Rivers	315'
Bowers	640'
Queen	835'
Grayburg	1202'
Casing	1335'
Premier Sand	1452'
San Andres	1499'
Alpha	1771'
San Andres 'A'	1970'
San Andres 'B'	2042'
San Andres 'C'	2144'
San Andres 'D'	2190'
Lower SA Porosity	2580'
Glorieta	2850'
Yeso	2962'
B/Veso Porosity	3284'
Total Depth	3648'

PBTD Reported at 3576

Prod. Casing 5.5 in 15.5 ppf 1.80 LTC @ 3645 RMD 3645 RMD  
700 vs Ck C from 3645 to surface

Surface casing leak

Estimated Tally

TUBING DETAIL IN						
Item	Length	Depth	Length	Top	Bottom	Comments
KB	7.00	7.00				
16in 2-7/8" 1.55 PP-OD TUB	1,937.37	1,944.37				
SN	1.10	1,945.47				
CIBP	3'	1,948.47 @ 64.16% RHP				

ROD DETAIL IN						
Item	Length	Depth	Length	Top	Bottom	Comments
KB	7	7				
1.25" PB w/ 1.5" 1-4" barrel	22	29				
(50) 7/8" slick rod	1375	1404				
(20) 5/8" slick rod	500	1904				

CIBP @ 1984'

Upper SA 2057-2237

Lower SA 2583-2684

Yeso 2966-3280

5-22-01 Ran GRUCLUB/VOL from PBTD 3582' to surf. OK. Perf'd Yeso w/ 1 JSPF as follows: 2960', 2977', 2986', 2992', 2999', 3024', 3040', 3043', 3044', 3066', 3068', 3070', 3072', 3076', 3078', 3087', 3090', 3094', 3096', 3098', 3106', 3108', 3110', 3116', 3121', 3126', 3242', 3244', 3251', 3280' for a total of 30 holes (40' EHD).

5-23-01 Acidized Yeso perfs 2960' - 3280' w/ total of 35 holes 15% HCl acid. Perf'd Yeso perfs 2960'-3280' w/ 22,000 gal fresh water & 55,000 gal 10% linear gelated fresh water + 92,540 gal 2040 Brady sand + 22,155 gal 16/30 C sand.

Tubing 2.875 in 6.5 ppf 1.55 Std EUE @ 3300 RMD 3300 RMD

5-23-01 PB CIBP & TBI on bps set CIBP @ 2960'. Test CIBP to 1000 psi. Perf'rate Lower San Andres @ 2292' 2684' 1 JSPF for a total of 30 holes (40' EHD). Acidize Lower San Andres 2593-2684' w/ 1500 gals 15% NE PE. 8/3/01 Frac w/ 90,500 gals fresh water + 88,000 20/40 Brady sand + 12,750 16/30 curable resin coated sand. TL RHP & set @ 2350'. Test RHP to 1000 psi. Perf'rate Upper San Andres @ 2037-2237' 1 JSPF for a total of 23 (40' EHD). Acidize Upper San Andres 2037-2237' w/ 2500 gals 15% NE PE and Frac w/ 121,500 gals fresh water 73,500 20/40 Brady sand + 16,500 16/30 curable resin coated.

Field/Location	Red Lake, Yeso Windfhr 4 Federal	Riley Permian	Surface Location	18S 27E - SEC 4 1850 FSL 2200 FEL
Well:	#4		A/E	24WE0092
County, State	Eddy New Mexico	Current WBS	PREPARED BY:	Austin Cantwell
API:	30-015-30474	SA & Yeso Formation	Revision DATE:	5/12/2024



**BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

**Permanent Abandonment of Federal Wells  
Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **fresh** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours for Class C or accelerated cement (calcium chloride) and 6 hours for Class H. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

Fluid used to mix the cement in R111Q shall be saturated with the salts common to the section penetrated, and in suitable proportions but not less than 1% and not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified *BY PHONE* (numbers listed in 2. Notifications) a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds). A weep hole shall be left if a metal plate is welded in place.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220-6292  
[www.blm.gov/nm](http://www.blm.gov/nm)



In Reply Refer To: 1310

### Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo “interim” reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo “final” reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines **(Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure)**. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads.** Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you have issues or

concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos  
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist  
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230

Crisha Morgan  
Environmental Protection Specialist  
575-234-5987

Jose Martinez-Colon  
Environmental Protection Specialist  
575-234-5951

Mark Mattozzi  
Environmental Protection Specialist  
575-234-5713

Robert Duenas  
Environmental Protection Specialist  
575-234-2229

Doris Lauger Martinez  
Environmental Protection Specialist  
575-234-5926

Jaden Johnston  
Environmental Protection Asst. (Intern)  
575-234-6252

Sundry ID		2798835					
Plug Type	Top	Bottom	Length	Tag	Sacks	Cement Class	Notes
Surface Plug	0.00	100.00	100.00	Tag/Verify			
Fresh Water @ 350	296.50	400.00	103.50	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	41.00	C	Spot cement from 400' to surface. Verify at surface.
Queen @ 835	776.65	885.00	108.35	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	25.00	C	Spot cement from 900' to 776'.
Grayburg @ 1202	1139.98	1252.00	112.02	If solid			
8.625 inch- Shoe Plug	1286.50	1400.00	113.50	Tag/Verify			
San Andres @ 1490	1425.10	1540.00	114.90	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	41.00	C	Spot cement from 1540' to 1139'. WOC and Tag.

				If solid base no need to Tag (CIBP present and/or Mechanic al Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio ns			
<b>CIBP Plug</b>	1949.00	1984.00	35.00		25.00	C	Set CIBP at 1984'. Leak test CIBP.
<b>Perforations Plug (If No CIBP)</b>	2007.00	3330.00	1323.00	Tag/Verify			
<b>Glorieta @ 2850</b>	2771.50	2900.00	128.50	If solid			
<b>Yeso @ 2962</b>	2882.38	3012.00	129.62	If solid			
<b>5.5 inch- Shoe Plug</b>	3558.55	3695.00	136.45	Tag/Verify			

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.  
Class H >7500'  
Class C <7500'

Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Medium, Secretary: Top of salt to surface If no salt take the deepest fresh water or Karst Depth

High, Critical: Bottom of Karst to surface or Deepest fresh water, whichever is greater  
R111P: 50 Feet from Base of Salt to surface.

Class C: 1.32 ft^3/sx  
Class H: 1.06 ft^3/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

			<u>Top of Salt to surface</u>
<u>Cave Karst/Potash Cement Requirement:</u>	<u>Medium</u>		
8.625 inch- Shoe Plug @	1350.00		
5.5 inch- Shoe Plug @	3645.00		
Perforatons Top @	2057.00	Perforations	3280.00
		CIBP @	1984.00

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 370710

CONDITIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue, Suite 500 Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 370710
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	Set CIBP @ 2900' - Test Plug - DB 35' Cmt on plug - WOC & Tag CBL must be submitted to OCD via OCD Permitting prior to submitting C-103P	8/15/2024