

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.
NMNM28881

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: UNKNOWN OTH		8. Well Name and No. VACA RIDGE 30 FEDERAL 1
2. Name of Operator EOG RESOURCES, INC Contact: KAY MADDOX E-Mail: kay_maddox@eogresources.com		9. API Well No. 30-025-28873
3a. Address PO BOX 2267 ATTENTION; KAY MADDOX MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-686-3658	10. Field and Pool or Exploratory Area SWD;DELAWARE
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) K Sec 30 T24S R34E Mer NMP NESW 1980FSL 1980FWL 32.186748 N Lat, 103.511062 W Lon		11. County or Parish, State LEA COUNTY, 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"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Hydraulic Fracturing
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input type="checkbox"/> Other
	<input type="checkbox"/> Alter Casing
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Change Plans
	<input checked="" type="checkbox"/> Plug and 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 recomplete 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 performed 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 determined that the site is ready for final inspection.

EOG PROPOSES TO PLUG AND ABANDON THIS WELL USING THE ATTACHED PROCEDURE. THE CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ALSO ATTACHED.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Below ground level dry hole marker required

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

Electronic Submission #448873 verified by the BLM Well Information System
For EOG RESOURCES, INC, sent to the Hobbs
Committed to AFMSS for processing by JIM AMOS on 01/09/2019 ()

Name (Printed/Typed) KAY MADDOX	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 01/07/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>James R. Amos</i>	Title SAET	Date 1-16-18
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 CFO

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.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

K7 NMOC D 2-8-19



Vaca Ridge 30 #1 SWD
 API# 30-025-28873
 Proposed Plugging Procedure (1/3/2019)
 AFE # TBD

The Vaca Ridge 30 #1 SWD is an injector in Lea County, NM. Well is currently shut-in.

PROCEDURE:

1. MIRU
2. Set 9-5/8" CIBP at 5374' and dump bail 8 sacks of class C cmt.
3. Test csg to 500psi
4. Load 9-5/8" casing with the required mix of mud between plugs of 25 sacks of salt water gel per 100 barrels in 9lb/gal brine.
5. Perf 9-5/8" cgs at 5250' and attempt to squeeze 180sx of class C from 5,250'-4,980' (across 13-3/8" shoe and B. Salt). TAG.
6. If unable to squeeze at 5250', then spot 90 sx of Class C cmt from 5250' to 4980'. TAG. *cut to 5100. woc Tag.*
Perf above tag, 502 cut to 4980. woc Tag.
7. Perf 9-5/8" csg at 2450'
8. Use packer to squeeze 82 sx of class C cmt from 2450' to 2325' inside the 9-5/8" & 9-5/8" x 13-3/8" annulus (across T/Salt). TAG.
9. Perf 9-5/8" csg at 1245'
10. Use packer to squeeze 75 sx of class C cmt from 1245' to 1132' inside the 9-5/8" & 9-5/8" x 13-3/8" annulus (across R. Anhy). TAG.
11. Perf 9-5/8" csg at 650'
12. Use packer to squeeze 65 sx of class C cmt from 650' to 540' inside the 9-5/8" & 9-5/8" x 13-3/8" annulus (across 20" shoe). TAG.
13. Perf 9-5/8" csg at 100'
14. Use packer to squeeze 65 sx of class C cmt from 100' to surface inside the 9-5/8" & 9-5/8" x 13-3/8" annulus. Tag at surface.
15. Cut off WH three feet below surface and verify cement to surface on all strings.
16. Weld on P&A marker, cut off anchors three feet below surface, and RDMO.

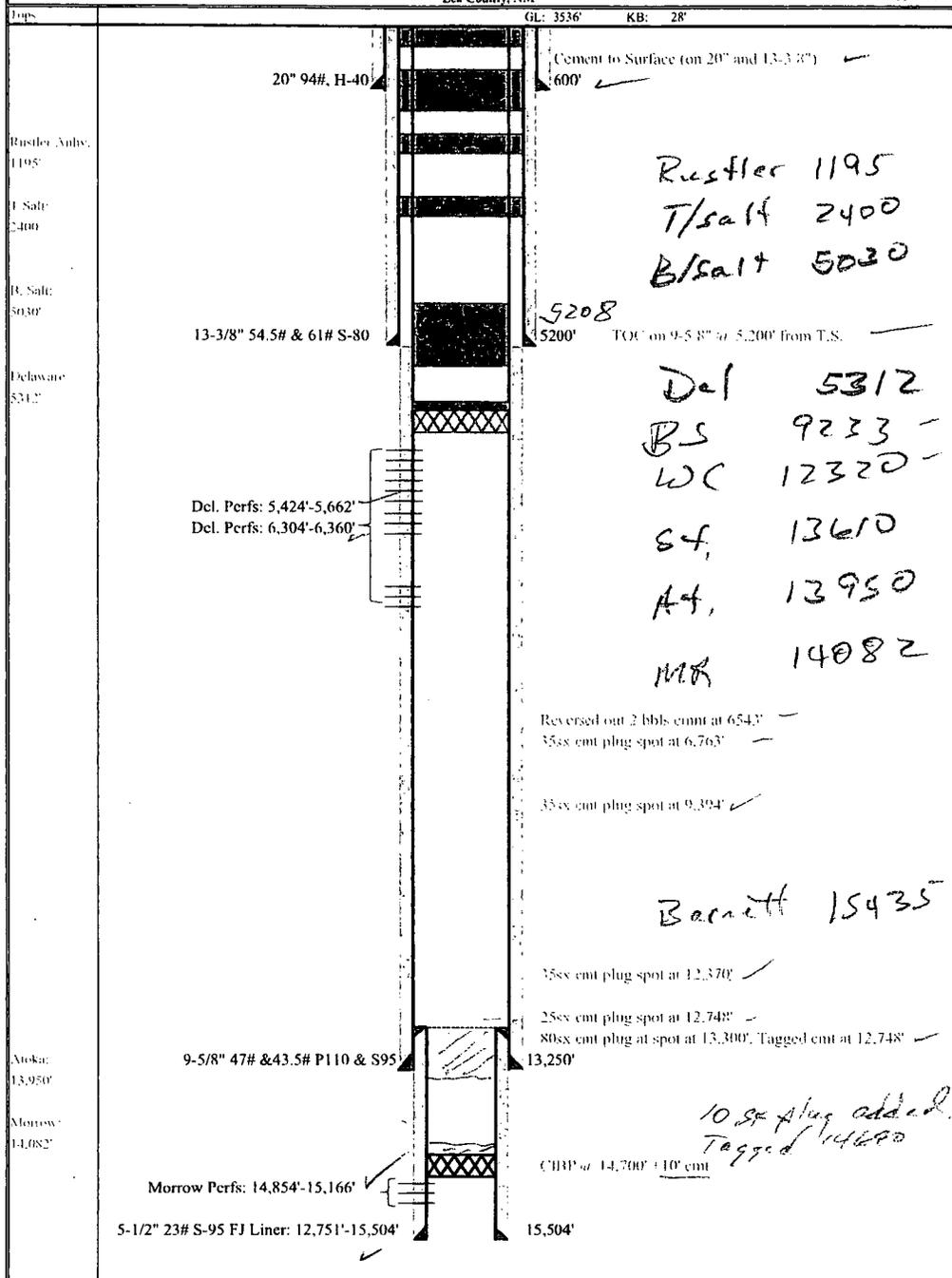
Vaca Ridge 30 #1 SWD Proposed Plugged WBD (Not yet approved)

AP# 30-025-28873
 Sec. 30, T24S, R34E
 1980' FNI & 1980' FWL
 Lea County, NM



SPUD
 DRILLING 9/12/1984
 LAST REVISED 1/3/2019
 WI NRI

FRR
 EJB



Hole

Perf 9-5/8" at 100' and squeeze 65 sx of Class C cement from 100' to surface in 9-5/8" and 9-5/8" x 13-3/8" annulus

26" Perf 9-5/8" at 650' and squeeze 65 sx of Class C cement from 650' to 540' in 9-5/8" and 9-5/8" x 13-3/8" annulus (across 20" shoe) TAG

Perf 9-5/8" at 1245' and squeeze 75 sx of Class C cement from 1245' to 1132' in 9-5/8" and 9-5/8" x 13-3/8" annulus (across Rustler Anhy.)

17-1/2" Perf 9-5/8" at 2450' and squeeze 82 sx of Class C cement from 2450' to 2225' in 9-5/8" and 9-5/8" x 13-3/8" annulus (across I. Salt.)

5208
 5200' TOC on 9-5/8" at 5,200' from T.S.

If unable to squeeze at 5250', then spot 90 sx of Class C cement from 5250' to 4980'

Perf 9-5/8" at 5250' and attempt to squeeze 180 sx of Class C cement from 5250' to 4980' in 9-5/8" and 9-5/8" x 13-3/8" annulus (across 13-3/8" shoe and B. Salt) TAG

Set 9-5/8" CHBP at 5374' and dump bail 8 sx of class C cement. Test csg to 500 psi.

12-1/4" Reversed out 2 bbls cement at 6542' -
 35sx cement plug spot at 6,763' -
 35sx cement plug spot at 9,394' ✓
 35sx cement plug spot at 12,370' ✓
 25sx cement plug spot at 12,748' -
 80sx cement plug at spot at 13,300'. Tagged cement at 12,748' ✓

TUBING DETAIL from 8/22/2016 report (Top down) (KB = 28')

ITEM	Length	B. Setting Depth
160 joints of 3.5" L-80 9.3# IPC tubing	5271.49	5299.49
1 X L10 on/off tool with 2.831 X profile nipple	1.92	5301.41
1 X 51A4 Model A-3 Lock set packer (9-5/8" 40-47lb-ft)	4.81	5306.22
1 X crossover: 3-1/2" box X 2-7/8" pin	0.62	5306.84

Tubular Dimensions	Burst	Collapse	ID	Drift	bbf/l
20" 94# H-40	1530	520	19.124	18.936	0.3553
13-3/8" 54.5# S-80			12.615	12.459	0.1546
13-3/8" 61# S-80			12.515	12.359	0.1522
9-5/8" 43.5# S-95	7510	5600	8.755	8.599	0.0745
9-5/8" 47# S-95	8150	7100	8.681	8.525	0.0732
9-5/8" 43.5# P110	8700	4430	8.755	8.599	0.0745
9-5/8" 47# P110	9440	5310	8.681	8.525	0.0732
5-1/2" 23# S-95 FJ Liner	11730	12940	4.67	4.545	0.0212
3-1/2" 9.3# L80	10160	10540	2.992	2.867	0.0087

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 (LPC Habitat)

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 90th day provide this office, prior to the 90th 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 575-393-3612.

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 **brine** 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.

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.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): 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 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 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

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.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:

From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted