

Well Name: ZORRILLO ANZ	Well Location: T20S / R24E / SEC 10 / SESW /	County or Parish/State: EDDY / NM
Well Number: 2	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM81893	Unit or CA Name:	Unit or CA Number:
US Well Number: 300152780200S1	Well Status: Gas Well Shut In	Operator: EOG RESOURCES INCORPORATED

Accepted for record – NMOCD gc 1/31/2022

Notice of Intent

Sundry ID: 2653227

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 01/19/2022

Time Sundry Submitted: 09:48

Date proposed operation will begin: 01/31/2022

Procedure Description: Please see Notice of Intent to P&A. Thank you.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Zorrillo_ANZ_Federal_2_1_19_22_20220119094820.pdf

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Conditions of Approval

Specialist Review

Zorillo_ANZ_Federal_2_Sundry_ID_2653227_P_A_20220129143153.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: TINA HUERTA

Signed on: JAN 19, 2022 09:48 AM

Name: EOG RESOURCES INCORPORATED

Title: Regulatory Specialist

Street Address: 104 SOUTH FOURTH STREET

City: Artesia

State: NM

Phone: (575) 748-4168

Email address: tina_huerta@eogresources.com

Field Representative

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: 5752345972

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 01/29/2022

Signature: Long Vo

High Cave

Zorrillo ANZ Federal 2
30-015-27802
Lease # NM-81893
660'FSL & 1980'FWL
Unit Letter N-10-20S-24E
Eddy County, New Mexico

EOG Resources, Inc. plans to plug and abandon this well as follows:

1. MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
2. Set a CIBP at 7540'. Pressure test. Spot 32 sx Class H cement on top of CIBP to 7390'. WOC and tag. This will cover Canyon perfs and top.
3. Perforate at 6080'. Attempt injection rate. Squeeze with ⁴⁵35 sx Class C cement from 6080'-5910'. WOC and tag. This will cover DV tool. MIT
4. Spot a 30 sx Class C cement plug from 5400'-5240'. This will cover Wolfcamp top.
5. Spot a 26 sx Class C cement plug from 4700'-4550'. This will cover Abo top.
6. Spot a 25 sx Class C cement plug from 2020'-1870'. This will cover Glorieta top.
7. Perforate at 1215'. Attempt injection rate. Squeeze with 25 sx Class C cement from 1215'-1065'. WOC and tag. This will cover casing shoe.
8. Spot a 25 sx Class C cement plug from 500'-350'. This will cover San Andres top.
9. Perforate at 100'. Attempt injection/circulation. Pump 25 sx Class C cement from 150' and circulate up to surface. Back fill as needed.
10. Cut off wellhead and install dry hole marker. Clean location as per regulated.

Wellbore schematics attached

Spot from 3380' to 3246' (Bone Spring)

Sundry ID: 265 3227

Sundry ID 2653227

Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	150.00	150.00	Tag/Verify	25.00	Perf @ 100', Spot from 150' to surface. Verify at Surface.
Shoe Plug	1115.00	1215.00	100.00	Tag/Verify	25.00	Perf @ 1215', Spot from 1065' to 1215'. WOC and Tag
Glorieta @ 1972	1902.28	2022.00	119.72	If solid base no need to Tag (CIBP present), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio	25.00	Spot at 2022' to 1870'. WOC and Tag
Bonesprings @ 3330	3246.70	3380.00	133.30	If solid base no need to Tag (CIBP present), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio	25.00	Spot at 3380' to 3246'. WOC and Tag
ABO in Plateform Shelf @ 4640	4543.60	4690.00	146.40	If solid base no need to Tag (CIBP present), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio	26.00	Spot at 4690' to 4543'. WOC and Tag

No need to tag if pass MIT

No Need to tag if pass MIT

No need to tag if pass MIT

				If solid base no need to Tag (CIBP present), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio		
Wolfcamp @ 5344	5240.56	5394.00	153.44		30.00	Spot at 5394' to 5240'. WOC and Tag
DV tool plug	5977.00	6077.00	100.00	Tag/Verify	45.00	Perf and Squeeze at 6080' to 5910'. WOC and Tag, In/Out
				If solid base no need to Tag (CIBP present), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforatio		
CIBP Plug	7505.00	7540.00	35.00		32.00	Leak Test CIBP
Perforations Plug (If No CIBP)	7538.00	7706.00	168.00	Tag/Verify		Not Necessary
Shoe Plug	7950.00	8050.00	100.00	Tag/Verify		Not Necessary

No need to tag if pass MIT

MIT

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.

Critical, High, Medium, Secretary : Top of salt to surface *if no salt take the deepest fresh water.*

R111P: 50' from bottom of salt to surface

Class C: 1.32 ft³/sx

Class H: 1.06 ft³/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.

Cave Karst/Potash Cement *High* Top of Salt to surface

Shoe @	1165.00		
Shoe @	8000.00	TOC @	6170.00
Perforatons Top @	7588.00	Perforations	7656.00
DV Tool @	6027.00	CIBP @	7540.00

Zorrillo ANZ Federal 2 Proposed

Plug 8: Perf @ 100, 0-190. Verify @ surface. Surface plug

Plug 7: 350-500. San Andres top

Plug 6: Perf @ 1215, 1065-1215. WOC & tag. 9 5/8 csg shoe

Plug 5: 1870-2020. Glorieta top

Plug 4: 4550-4700. Abo top

Plug 3: 5240-5400. Wolfcamp top

Plug 2: Perf @ 6080, 5910-6080. WOC & tag. DV tool

TOC @ 6170 by CBL

Plug 1: CIBP @ 7540, 7390-7540. WOC & tag. Canyon perfs + Canyon top

Canyon Perfs @ 7588-7656

Casing Detail									
#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Cire/TOC	TOC Method
A	14 3/4	9 5/8	36	J-55	0	1,165	1900	0	1" to surf
B	8 3/4	7	23 & 26	J-55	0	8,000	14000	0	Circ stage 2
			26# on bottom						6170 TOC by CBL

FORMATION TOPS		
Formation	Top	Formation
San Andres	436	Top
Glorieta	1972	
Abo	4640	
Wolfcamp	5344	
Canyon	7444	

Perf Detail
2.875" tubing @ 7511

Perforation Detail		
Formation	Top	Bottom
A	7,588	7,656 Sealers
B		

Plugs #	sx	Class	Top		Bottom		A	Notes	Tag
			Top	Bottom	Top	Bottom			
1	32	H	7390	7540	150	150	CIBP @ 7540, Pressure test. Spot 32sx. WOC & tag. Canyon perfs + Canyon top	Y	
2	35-45	C	5910	6080	170	170	Perf @ 6080, Attempt Inj. Sqz 35sx. WOC & tag. DV tool	Y	
3	30	C	5240	5400	160	160	Spot 30sx. Wolfcamp top	N Y	
4	26	C	4550	4700	150	150	Spot 26sx. Abo top	N Y	
5	25	C	1870	2020	150	150	Spot 25sx. Glorieta top	N Y	
6	25	C	1065	1215	150	150	Perf @ 1215, Attempt Inj. Sqz 25sx. WOC & tag. 9 5/8 csg shoe	Y	
7	25	C	350	500	150	150	Spot 25sx. San Andres top	N	
8	25	C	0	150	150	150	Perf @ 100, Attempt Inj/Circ. Circ 25sx. Verify @ surface. Surface plug	Y	

Handwritten notes:
Leak test.
If TAG @ 5910' and Leak test (MST) No need to TAG.
C 324C 3380 910x 3380'

JE 1/19/22

PBTD 7,911 MD
TD 8,000 MD

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 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. **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 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.**

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).

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



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 and all contaminants, scrap/trash, equipment, pipelines and powerlines. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip 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
575-234-5909 (Office), 575-361-2648 (Cell)

• Arthur Arias
Environmental Protection Specialist
575-234-6230

Crisha Morgan
Environmental Protection Specialist
575-234-5987

Melissa Horn
Environmental Protection Specialist
575-234-5951

Kelsey Wade
Environmental Protection Specialist
575-234-2220

Trishia Bad Bear, Hobbs Field Station
Natural Resource Specialist
575-393-3612

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 76745

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 76745
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	1/31/2022