

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**NMOCD**  
**Artesia**

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.  
NMNM94830

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
CUADRITO AZO FEDERAL 1

9. API Well No.  
30-015-32172

10. Field and Pool or Exploratory Area  
WILDCAT; ABO **98256**  
**W/C 015 202331 - ABO**

11. County or Parish, State  
D.  
EDDY COUNTY, NM  
**WOLF CAMP 982561**

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
EOG Y RESOURCES, INC. Contact: TINA HUERTA  
E-Mail: tina\_huerta@egoresources.com

3a. Address  
104 SOUTH FOURTH STREET  
ARTESIA, NM 88210

3b. Phone No. (include area code)  
Ph: 575-748-4168  
Fx: 575-748-4585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 31 T20S R23E NWNW 865FNL 660FWL

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 type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection <input checked="" 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.

REVISED

**OC 11-6-17**  
**Accepted for record - NMOCD**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

NOV 06 2017

EOG Y Resources, Inc. plans to plugback, test Wolfcamp and recomplete to the Abo as follows:

- MIRU all safety equipment as needed. NU BOP. POOH with tubing and packer. Load hole as necessary with fresh water.
- Set a CIBP at 8146 ft with 25 sx Class H cement on top. This will place a plug over open Morrow perforations.
- Load hole with 85 bbls plugging mud. Spot a 240 ft Class C cement plug from 5690 ft - 5930 ft. This will leave a plug across Cisco top.
- Perforate Wolfcamp 4700 ft - 5050 ft (351).
- Acidize with 5000g 20 percent NEFE acid. Drop 1.3 SG RCN ball sealers spaced out evenly

**RECEIVED**  
**SEE ATTACHED FOR**  
**CONDITIONS OF APPROVAL**

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

**Electronic Submission #391285 verified by the BLM Well Information System For EOG Y RESOURCES, INC., sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 10/26/2017 ()**

Name (Printed/Typed) TINA HUERTA Title REGULATORY SPECIALIST

Signature (Electronic Submission) Date 10/09/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

**APPROVED**

OCT 26 2017

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Office \_\_\_\_\_

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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.

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 \*\***

**RWP 11-16-17 Abo.**  
**11-29-17**

## Additional data for EC transaction #391285 that would not fit on the form

### 32. Additional remarks, continued

throughout the acid flush to the bottom perf with treated water. Swab, flow test and evaluate.

6. Set a CIBP at 4650 ft with 35 ft cement on top. This will leave a plug over Wolfcamp perforations. WOC 8 hrs. Load hole with treated water and pressure test the casing to 3000 psi.

7. Perforate Abo 3700 ft - 4600 ft (901).

8. TIH with packer and set 120 ft above top perf.

9. Acidize with 5000g 20 percent NEFE acid. Drop 1.3 SG RCN ball sealers spaced out evenly throughout the acid flush to the bottom perf with treated water. Limit STP to 5000 psi. Swab, flow test and evaluate. Consider turning the well over to production. If the decision to frac, POOH with packer and tubing. Load hole as necessary with treated water. See attached page for number 10 for frac details.

11. Flow test and evaluate and let the well clean up, if the well is dead or pressure is low, bullhead 10Lb brine with biocide and POOH with tubing and packer. If the well head pressure is staying above 200 psi, set a blanking plug in the O/O tool jay off the packer and POOH with frac string. TIH with production tubing and jay back onto the packer and pull the blanking plug.

12. Swab well in and turn over to production.

Wellbore schematics attached

**Form 3160-5 continued:**

10. MI RU frac valve and WSC to pump a fracturing treatment down the 3.5" tubing at 38-40 BPM while limiting the surface treating pressure to less than 8,600 psi.

**-----  
 Treating Schedule  
 -----**

Stage Number	Stage	gal	Fluid	Prop Conc lb/gal	lb Proppant		
					Stage	Cumulative	Proppant
1	Injection	1500.	Slickwater	0.00	0.	0.	----
2	Acid	2000.	20% HCL	0.00	0.	0.	----
3	Pad	2000.	Slickwater	0.00	0.	0.	----
4	ISIP	0.	Slickwater	0.00	0.	0.	----
5	Pad	14000.	Slickwater	0.00	0.	0.	----
6	SLF	33000.	Slickwater	0.50	16500.	16500.	100 Mesh
7	SLF	25000.	Slickwater	1.00	25000.	41500.	100 Mesh
8	SLF	22000.	Slickwater	1.50	33000.	74500.	100 Mesh
9	SLF	17000.	Slickwater	2.00	34000.	108500.	100 Mesh
10	SLF	6600.	Slickwater	2.50	16500.	125000.	100 Mesh
11	Flush	1500.	Slickwater	0.00	0.	0.	----

**Estimated Surface Treating Pressure = 4,564 psig.**

**Maximum Surface Treating Pressure = 8,600 psig.**

**Fluid Specifications:** Fresh water with 0.8 Gal/M FR, biocide and scale inhibitor.

**EOG will provide:**

6 clean frac tanks with 480 bbls of fresh water for the treatment and flush.

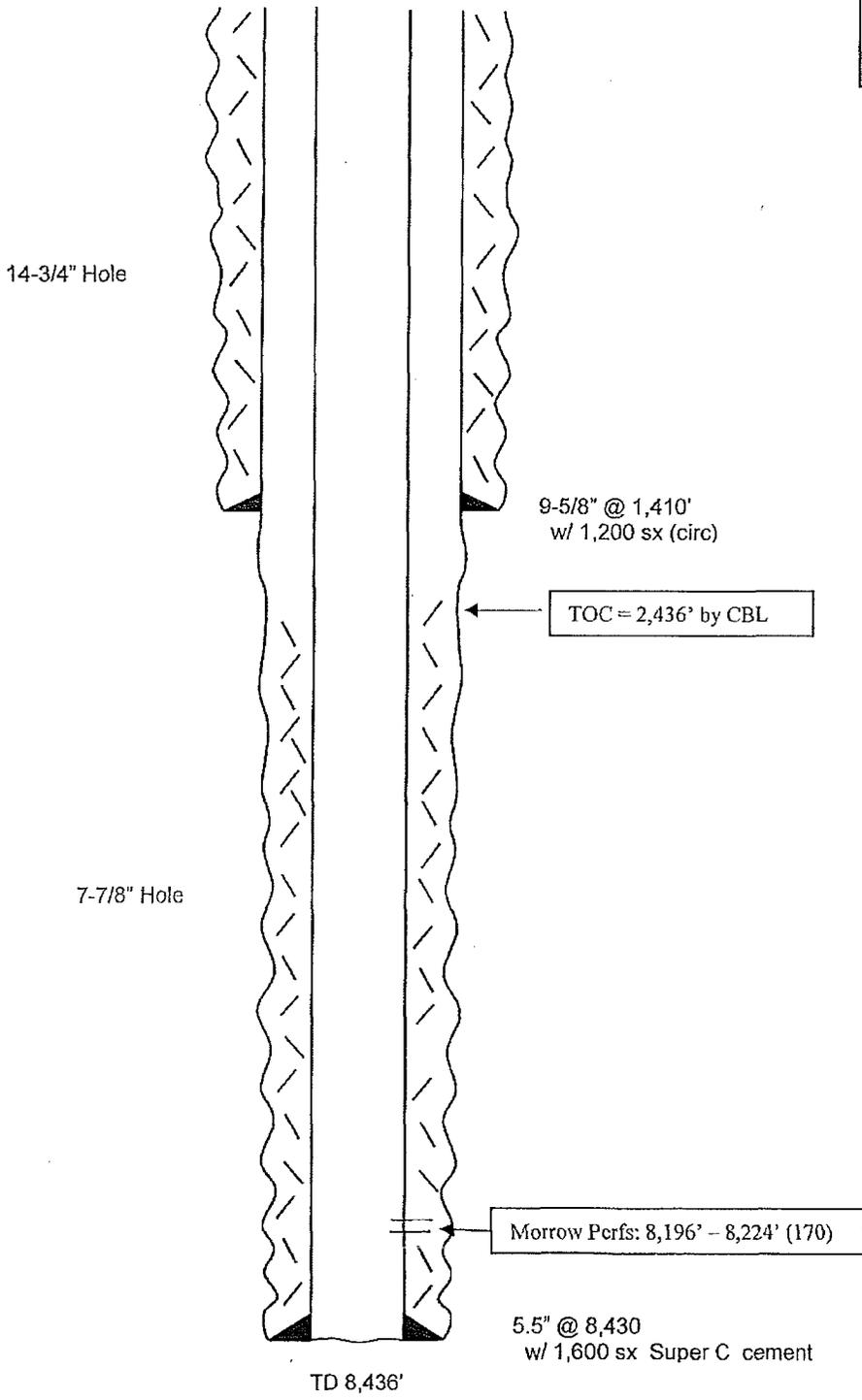
WELL NAME: Cuadrito AZO Federal No. 1 FIELD: Little Box Canyon Morrow  
 LOCATION: 865' FNL & 660' FWL Sec 31-20S-23E Eddy County NM  
 GL: 4402' ZERO: \_\_\_\_\_ KB: 4420'  
 SPUD DATE: 3/21/02 COMPLETION DATE: 4/18/02  
 COMMENTS: API #: 30-015-32172

**CASING PROGRAM**

9-5/8" 36# J55 ST&C	1,410'
Top	
5.5 17# J-55 LT&C 68.02'	
5.5 15.5# J-55 LT&C 6762.92'	
5.5 17# N-80 LT&C 1599.06'	8,430'
Bottom	

**Before**

<b>Tops:</b>	
Wolfcamp	4,692'
Cisco	5,880'
Morrow	8,087'



**Not to Scale**  
JMH 9-20-17

WELL NAME: Cuadrito AZO Federal No. 1 FIELD: Little Box Canyon Morrow  
 LOCATION: 865' FNL & 660' FWL Sec 31-20S-23E Eddy County NM

GL: 4402' ZERO: \_\_\_\_\_ KB: 4420'

SPUD DATE: 3/21/02 COMPLETION DATE: 4/18/02

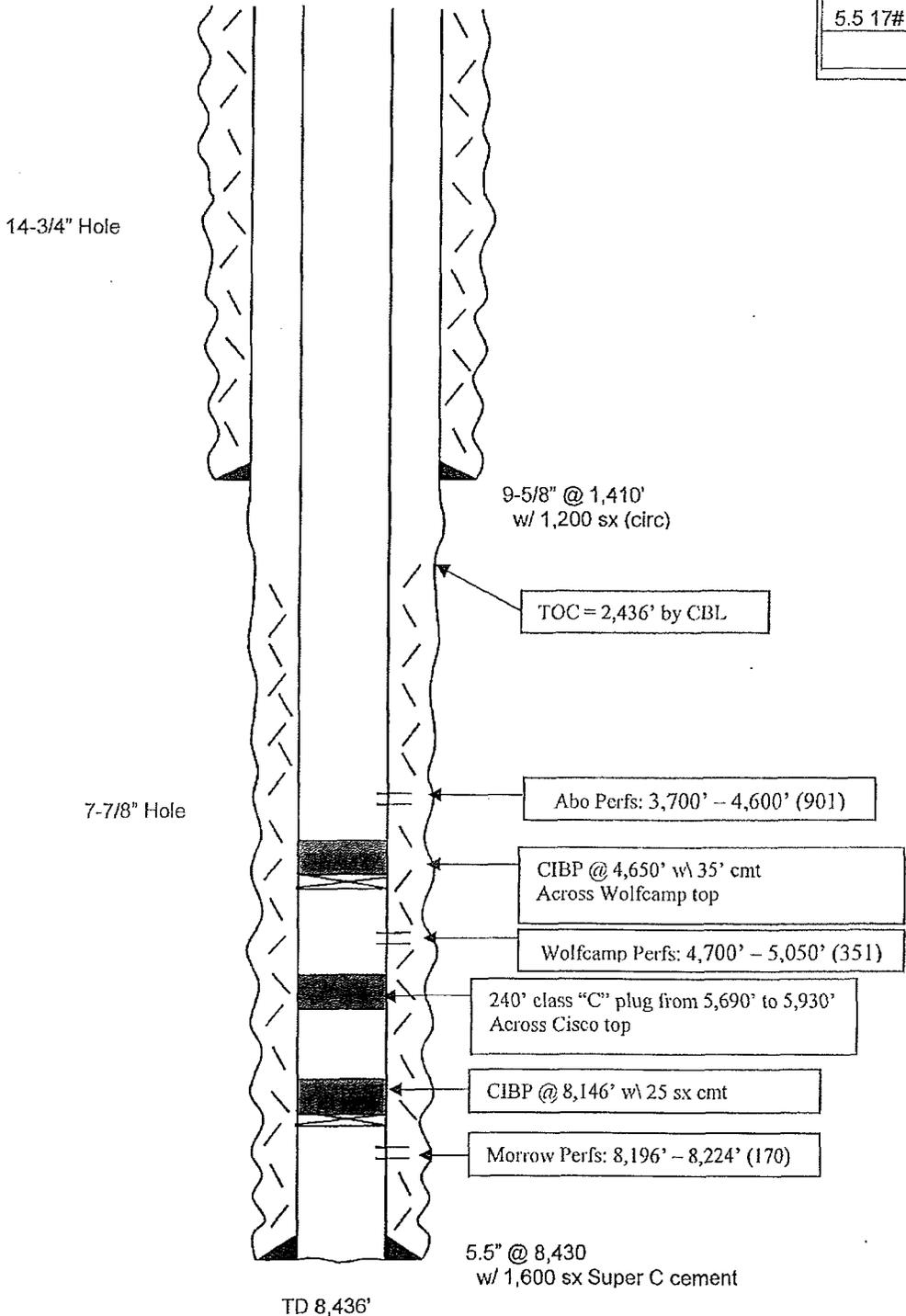
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**After**

<b>Tops:</b>	
Wolfcamp	4,692'
Cisco	5,880'
Morrow	8,087'



**Not to Scale**  
JMh 10-06-17

**Cuadrito AZO Federal 1  
30-015-32172  
EOG Y Resources, Inc.  
October 26, 2017  
Conditions of Approval**

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by January 26, 2018.

1. **Operator shall set CIBP at 8,146 feet and place 25sx Class H Cement on top as proposed. WOC and tag. Must tag a minimum of 7,946'.**
2. **Operator shall place a balanced Class C Cement plug from 5,930'-5,690' as proposed.**

**If Wolcamp is not economic continue as follows:**

3. **Operator shall set CIBP at 50-100' above top most perf. A 150' plug is required to seal the top of the Wolcamp formation. WOC and tag. Operator may add a 35' plug at this time and add more cement at a later date.**
4. **Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**
5. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
6. Surface disturbance beyond the originally approved pad must have prior approval.
7. Closed loop system required.
8. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
9. Operator to have H2S monitoring equipment on location.

10. A minimum of a **3000 (3M)** BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
11. **Subsequent sundry required detailing work done and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.**
12. **See attached for general requirements.**

**JAM 102617**

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

**Permanent Abandonment of Production Zone 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 this approval.

**If you are unable to plug back 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 back. Failure to do so will result in enforcement action.**

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in 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.**

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. Subsequent Plug back Reporting: Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back 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 work was completed.**

7. 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.