

Office  
 District I – (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II – (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III – (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. 30-015-34929
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. VA-2600
7. Lease Name or Unit Agreement Name Manchester BQQ State Com
8. Well Number 1
9. OGRID Number 7377
10. Pool name or Wildcat Runyan Ranch; Morrow

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator EOG Resources, Inc.	
3. Address of Operator 104 South Fourth Street, Artesia, NM 88210	
4. Well Location Unit Letter <u>D</u> : <u>760</u> feet from the <u>North</u> line and <u>660</u> feet from the <u>West</u> line Section <u>20</u> Township <u>19S</u> Range <u>23E</u> NMPM Eddy County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4062'GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: ☐

Notify OCD 24 hrs. prior to any work done

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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

- MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
- Set a CIBP at 7522' with 6 sx Class "C" cement on top to 7487 ft. This will cover Morrow perms. **Must Dump Bail Cmt - WOC & tag**
- Spot a 30 sx Class "C" cement plug from 7443'-7269'. This will cover Atoka top.
- Spot a 29 sx Class "C" cement plug from 7084'-6914'. This will cover Strawn top.
- Set a CIBP at 6100' with 6 sx Class "C" cement on top to 6065'. This will cover Cisco perms. **Must Dump Bail Cmt - WOC & tag**
- Set a CIBP at 4502' with 6 sx Class "C" cement on top to 4467'. This will cover Wolfcamp perms. **Must Dump Bail Cmt - WOC & tag**
- Spot a 25 sx Class "C" cement plug from 3482'-3332'. This will cover Abo top.
- Spot a 39 sx Class "C" cement plug from 2954'-2723'. This will cover L Yeso and Tubb tops.
- Spot a 29 sx Class "C" cement plug from 2037'-1867'. This will cover T Yeso and Glorieta top.
- Perforate at 1550'. Spot a 25 sx Class "C" cement plug from 1559'-1409'. WOC and tag. This will cover casing shoe. **Perf @ 1534' - WOC & tag**
- Spot a 25 sx Class "C" cement plug from 1006'-856'. This will cover San Andres top.
- Perforate at 350'. Spot a 25 sx Class "C" cement plug from 377'-227'. WOC and tag. This will cover casing shoe. **Perf @ 352' - WOC & tag**
- Perforate at 100'. Spot a 17 sx Class "C" cement plug from 100' up to surface. Back fill as needed.
- Cut off wellhead and install dry hole marker. Clean location as per regulated.

Wellbore schematics attached.

Spud Date:

Rig Release Date:

\*\*\*\*SEE ATTACHED COA's\*\*\*\*

Must be plugged by 6/29/2022

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Tina Huerta TITLE Regulatory Specialist DATE June 24, 2021

Type or print name Tina Huerta E-mail address: tina.huerta@eogresources.com PHONE: 575-748-4168

**For State Use Only**

APPROVED BY: [Signature] TITLE Staff Manager DATE 6/29/2021

Conditions of Approval (if any):

## Manchester BQQ State Com 1 Current

Sec-TWN-RNG: Sec. 20-19S-23E  
FOOTAGES: 760'FNL & 660'FWLAPI: 30-015-34929  
GL: 4062  
KB: 4081

## CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	H-40	0	302	485	Circ	
B	12 1/4	9 5/8	36	J-55	0	1,484	1680	Circ	
C	8 3/4	7	23,26	J-55,L-80	0	8,072	1280	Circ	

## FORMATION TOPS

	Formation	Top		Formation	Top
	San Andres	931		Chester	7888
	Glorieta	1917		Mississippian	8035
	T Yeso	2087			
	Tubb	2773			
	L Yeso	2904			
	Abo	3407			
	Wolfcamp	4592			
	Cisco	5929			
	Strawn	6999			
	Atoka	7356			
	Morrow	7531			

8310

#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft)	Top (ftKB)	Btm (ftKB)
		2-7/8" Tubing and packer						6,495	

CIBP at 7744 with 35' cement on top  
SN at 6439

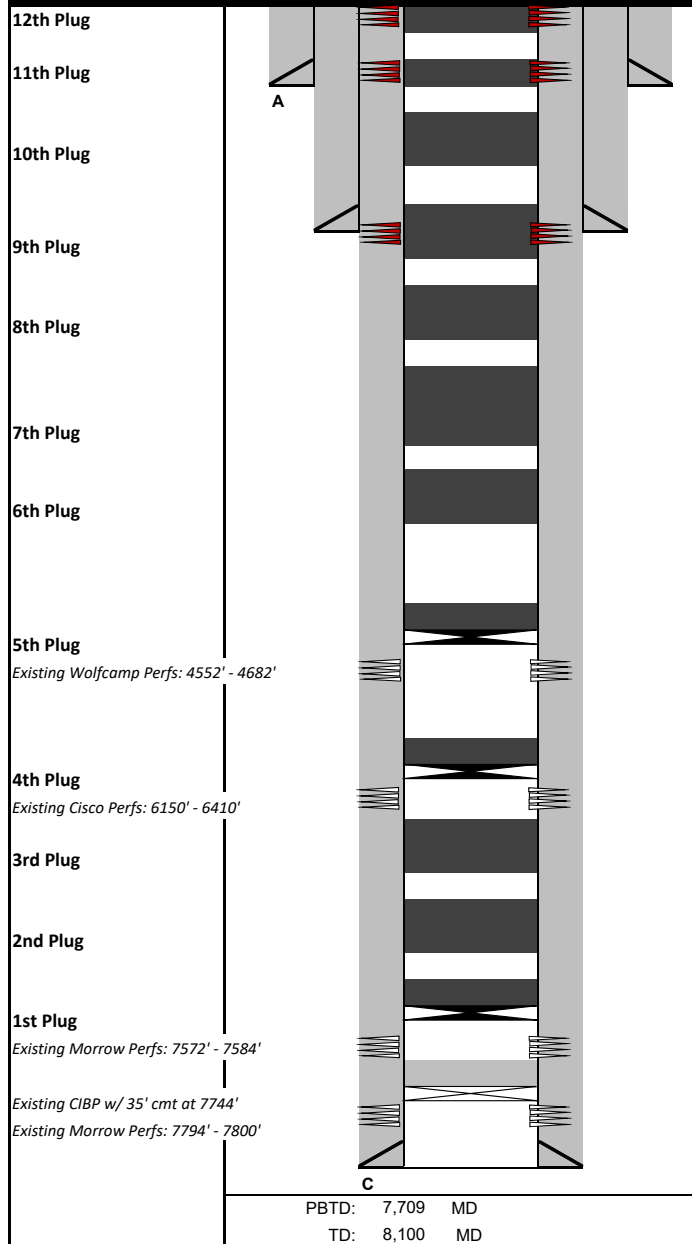
## Perforation Detail

	Formation	Top	Bottom	Treatment
A	Morrow	7,794	7,800	Acidize w/1500g 7-1/2% Morrow type acid w/35 BS
				Frac w/CO2 foam frac w/287 bbls fluid, 54 tons CO2, 20,000# 18/40 Versaprop
B	Morrow	7,572	7,584	Acidize w/2000g 7-1/2% Morrow acid, re-acidize w/2000g 7-1/2% Morrow
				Frac w/17,346g WF 40# CMHPG 60Q CO2 foam, 30,400# 18/40 Versaprop
C	Cisco	6,150	6,410	Acidize w/3500g 15% IC HCL acid, 117,880 scf/N2 and 54 BS
				Frac w/CO2 foam, 709 bbls fluid, 32,860# 20/40 Premium sand
D	Wolfcamp	4,552	4,682	Acidized w/Spearhead 10,000g 20% gelled NEFE HCL acid
				Frac w/CO2 foam frac, 1019 bbls fluid, 53,000# Ottawa, 25,000# Expedite

PBTD: 7,709 MD  
TD: 8,100 MD

Prepared by: TH

# Manchester BQQ State Com 1 Proposed



Sec-TWN-RNG:  
FOOTAGES:

Sec. 20-19S-23E  
760'FNL & 660'FWL

API: 30-015-34929  
GL: 4062  
KB: 4081

## CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	H-40	0	302	485	Circ	
B	12 1/4	9 5/8	36	J-55	0	1,484	1680	Circ	
C	8 3/4	7	23,26	J-55,L-80	0	8,072	1280	Circ	

## FORMATION TOPS

	Formation	Top		Formation	Top		Formation	Top	
	San Andres	931		Abo	3407		Morrow	7531	
	Glorieta	1917		Wolfcamp	4592		Chester	7888	
	T Yeso	2087		Cisco	5929		Mississippian	8035	
	Tubb	2773		Strawn	6999				
	L Yeso	2904		Atoka	7356				

## TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft):	Top (ftKB):	Btm (ftKB):
		2-7/8" Tubing and packer						6,495	

## PLUGS

#	SX	Class	Top	Bottom	Δ	Notes	Tag
1	6	C	7,487	7,522	35	Morrow Perfs	N
2	30	C	7269	7443	174	Atoka Top	N
3	29	C	6914	7084	170	Strawn Top	N
4	6	C	6065	6,100	35	Cisco Perfs	N
5	6	C	4,467	4,502	35	Wolfcamp Perfs	N
6	25	C	3332	3482	150	Abo Top	N
7	39	C	2723	2954	231	L Yeso & Tubb Tops	N
8	29	C	1867	2037	170	T Yeso & Glorieta Top	N
9	25	C	1,409	1,559	150	Int. Csg. Shoe	Y
10	25	C	856	1006	150	San Andres Top	N
11	25	C	227	377	150	Sur. Csg. Shoe	Y
12	17	C	0	100	100	Surface Plug	Y

## PERFORATION DETAIL

	Formation	Top	Bottom						
	Morrow	7,572	7,800						
	Cisco	6,150	6,410						
	Wolfcamp	4,552	4,682						

## ADDITIONAL DETAIL

6.19.07 - Set CIBP at 7744' with 35' cmt cap

Prepared by: KJP

## CONDITIONS FOR PLUGGING AND ABANDONMENT

### OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water **will not** be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) **Potash---** (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

#### DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

**1. Operator name   2. Lease and Well Number   3. API Number   4. Unit Letter   5. Quarter Section (feet from the North, South, East or West)   6. Section, Township and Range   7. Plugging Date   8. County                      (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS**

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

#### SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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**District III**

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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 33593

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 33593
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
gcordero	None	6/29/2021