

Submit 1 Copy To Appropriate District 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

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

WELL API NO. 30-005-61729
5. Indicate Type of Lease STATE [X] FEE [ ]
6. State Oil & Gas Lease No. L-6779
7. Lease Name or Unit Agreement Name Long Arroyo OD State Com
8. Well Number 2
9. OGRID Number 7377
10. Pool name or Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS
(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 [ ] Gas Well [X] Other

2. Name of Operator EOG Resources, Inc.

3. Address of Operator 104 South Fourth Street, Artesia, NM 88210

4. Well Location Unit Letter L : 1980 feet from the South line and 660 feet from the West line
Section 14 Township 14S Range 27E NMPM Chaves County

11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3436'GR

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [X] 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:

- 1. MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
2. RIH with GR/JB to PBTD at 9950'. PBTD 8023'
3. Set a CIBP at 7705' with 35' Class "H" cement on top.
4. Spot a 25 sx Class "H" cement plug from 7746'-7423'. WOC and tag. This will plug Morrow.
5. Spot a 25 sx Class "H" cement plug from 7369'-7046'. WOC and tag. This will plug Strawn.
6. Perforate at 6773'. Attempt to establish circulation. Spot a 25 sx Class "H" cement plug from 6773'-6450'. WOC and tag. This will plug Cisco.
7. Perforate at 6010'. Attempt to establish circulation. Spot a 25 sx Class "C" cement plug from 6010'-5648'. WOC and tag. This will plug Wolfcamp.
8. Perforate at 4945'. Attempt to establish circulation. Spot a 25 sx Class "C" cement plug from 4945'-4583'. WOC and tag. This will plug Abo.
9. Perforate at 4143'. Attempt to establish circulation. Spot a 25 sx Class "C" cement plug from 4143'-3781'. WOC and tag. This will plug Tubb.
10. Perforate at 2752'. Attempt to establish circulation. Spot a 25 sx Class "C" cement plug from 2752'-2390'. WOC and tag. This will plug San Andres.
11. Perforate at 1610'. Attempt to establish circulation. Spot a 25 sx Class "C" cement plug from 1610'-1248'. WOC and tag. This will plug 8-5/8" casing shoe and Grayburg.
12. Perforate at 145'. Attempt to establish circulation. Spot a 10 sx Class "C" cement plug from 145' up to surface. WOC and tag plug. This will plug the top.
13. Cut off wellhead and weld on dry hole marker. Clean location as per regulated.

Wellbore schematics attached

Spud Date: [ ]

Rig Release Date: [ ]

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

MUST BE PLUGGED BY 5/15/2021

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

SIGNATURE [Signature] TITLE Regulatory Specialist DATE March 11, 2020

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

For State Use Only

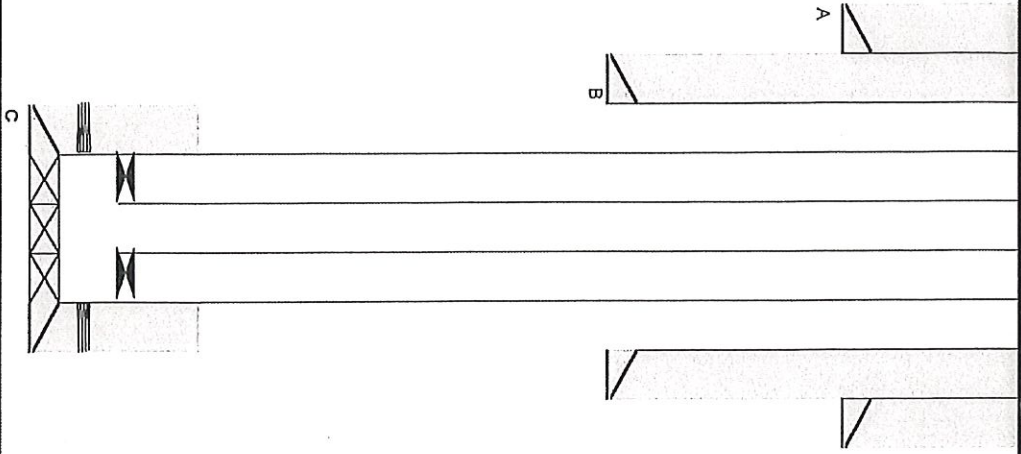
APPROVED BY: [Signature] TITLE Staff MGR DATE 5/15/2020
Conditions of Approval (if any):

# Long Arroyo OD St Com #2

COMMENTS

Sec-TMN-RNG: 14-14S-27E  
 FOOTAGES: 1980' FSL & 660' FWL

API: 30-005-61729  
 GL: 3437  
 KB:



CASING DETAIL									
#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	J-55	0	298	350	Circ	1"
B	11	8 5/8	24	J-55	0	1,560	1900	Circ	
C	7 7/8	4 1/2	11.6 & 10.5	K-55	0	8090	450	6700'	Temp

FORMATION TOPS									
	FORMATION	TOP							
	Grayburg	1350							
	San Andres	2702							
	Tubb	4093							
	Abjo	4895							
	Wolfcamp	5960							
	Cisco	6723							
	Strawn	7319							
	Atoka	7637							
	Morrow	7696							

TUBING DETAIL									
#	Joints	Description	Length FT	OD in	ID	Grade	Wt (lb/ft):	Top (ftKB):	Btm (ftKB):
1		2 3/8" TBG	7697.00	2 3/8"					
2		Pkr	7697.00						

Prepared by: RHS

PRTD: 8,023 MD  
 TD: 8,100 MD

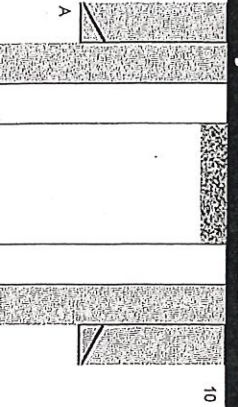
TOC @ 6700  
 Packer Set @ 7697'  
 Perf Morrow @  
 7755-72' (68 holes)

# Long Arroyo OD St Com #2

COMMENTS

Sec-TW-RING: 144-4S-27E  
FOOTAGES: 1980 FSL & 660 FWL

API: 30-005-61729  
GL: 19437  
KB:

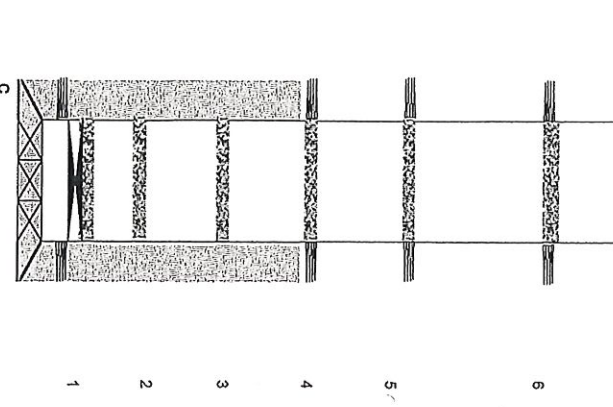


CASING DETAIL									
#	HOLE SIZE	SIZE	WGHT	GRADE	TOP	Bottom	SX Cmtl	Circ/TOC	TOC Method
A	17 1/2	13 3/8	48	J-55	0	298	350	Circ	
B	11	8 5/8	24	J-55	0	1,560	1900	Circ	1"
C	7 7/8	4 1/2	11.6 & 10.5	K-55	0	8090	450	6700'	Temp

FORMATION TOPS

FORMATION	TOP	BTM	Description
Grayburg	1350		
San Andres	2702		
Tubb	4093		
Abo	4895		
Wolfcamp	5960		
Cisco	6723		
Strawn	7319		
Alaska	7637		
Morrow	7696		

Plugs	SX	CMT Class	TOP	BTM	Description
1					Set C/SP at 7705 ft with 35 ft of CLS H on top.
2	25 SX (323 ft)	CLS H cement plug	7423 ft	- 7746 ft	WOC & Tag Plug. This will plug the Morrow.
3	25 SX (323 ft)	CLS H cement plug	7046 ft	- 7369 ft	WOC & Tag Plug. This will plug the Strawn.
4					Perforate at 6773 ft. Attempt to establish Circulation. Spot a 25 SX (323 ft) CLS H cement plug 6450 ft - 6773 ft. WOC & Tag Plug. This will plug the Cisco.
5					Perforate at 6010 ft. Attempt to establish Circulation. Spot a 25 SX (362 ft) CLS C cement plug 5648 ft - 6010 ft. WOC & Tag Plug. This will plug the Wolfcamp.
6					Perforate at 4945 ft. Attempt to establish Circulation. Spot a 25 SX (362 ft) CLS C cement plug 4583 ft - 4945 ft. WOC & Tag Plug. This will plug the Abo.
7					Perforate at 4143 ft. Attempt to establish Circulation. Spot a 25 SX (362 ft) CLS C cement plug 3781 ft - 4143 ft. WOC & Tag Plug. This will plug the Tubbs.
8					Perforate at 2752 ft. Attempt to establish Circulation. Spot a 25 SX (362 ft) CLS C cement plug 2390 ft - 2752 ft. WOC & Tag Plug. This will plug the San Andres.
9					Perforate at 1610 ft. Attempt to establish Circulation. Spot a 25 SX (362 ft) CLS C cement plug 1248 ft - 1610 ft. WOC & Tag Plug. This will plug the 8.625 inch casing shoe.
10					Perforate at 145 ft. Attempt to establish Circulation. Spot a 10 SX (145 ft) CLS C cement plug 0 ft - 145 ft. WOC & Tag Plug. This will complete the plug.



Packer Set	Perf Morrow	7755-77	68 holes
Packer Set @ 7697			
Perf Morrow @ 7755-77 (68 holes)			
PBTD: 8,203 MD			
TD: 8,100 MD			

Prepared by: RHS

## 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**