Submit 1 Copy To Appropriate District Office District I – (575) 393-6161	State of New Morels, Minerals and National	exico ural Resources	Form C-103 Revised July 18, 2013					
1625 N. French Dr., Hobbs, NM 88240	WELL API NO. 30-005-63207							
District II - (575) 748-1283 811 S. First St., Artesia, NM 88210 District III - (505) 334-6178 NOV OF LOGONSERVATION DIVISION 1220 South St. Francis Dr.			5. Indicate Type of Lease					
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, STRICTI-AF	TECIAO Septa Fe, NM 8	7505	STATE State Oil & Gas Le	FEE				
1220 S. St. Francis Dr., Santa Fe. 15110 1110 1116 1150 1150 1150 1150 115	LG-2621	110.						
SUNDRY NOTICES A (DO NOT USE THIS FORM FOR PROPOSALS TO	7. Lease Name or Unit Agreement Name							
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	Thunderhead TD State 8. Well Number							
1. Type of Well: Oil Well Gas W	3							
2. Name of Operator EOG Resources, Inc.		•	9. OGRID Number					
3. Address of Operator			10. Pool name or Wildcat					
104 South Fourth Street, Artesia, NM 882 4. Well Location	210		Pecos Slope; Abo	· · · · · · · · · · · · · · · · · · ·				
Unit Letter K : 1980	feet from the Sout	h line and 1	980 feet from the	West line				
Section 32		inge 26E	NMPM Chaves	County				
	levation (Show whether DR 3747		The state of the s					
12. Check Approp	oriate Box to Indicate N	Vature of Notice, 1	Report or Other Dat	a				
NOTICE OF INTENT	SEQUENT REPO	RT OF: FERING CASING						
	PERFORM REMEDIAL WORK							
PULL OR ALTER CASING MUL	TIPLE COMPL	CASING/CEMENT		ND A				
DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM								
OTHER:		OTHER:						
13. Describe proposed or completed or of starting any proposed work). SI	perations. (Clearly state all EE RULE 19.15.7.14 NMA	pertinent details, and C. For Multiple Com	give pertinent dates, in pletions: Attach wellb	cluding estimated date ore diagram of				
proposed completion or recompleti		,		ore unagram or				
EOG Resources, Inc. plans to plug and abandon	this well as follows:							
1. MIRU all safety equipment as needed. NU E 2. Set a CIBP at 5105' with 35' Class "C" ceme	ent on top. WOC and tag. This	will cover top of the W	olfcamp. – woc +	-Tag				
3. Set a CIBP at 4546' with 35' Class "C" ceme4. Perforate at 3689'. Attempt to establish circu	ent on top. WOC and tag. This	will cover Abo. — 🗸	000+10					
of Tubb. — woc + Tas 5. Tag TOC. Perforate at 2229'. Attempt to esta								
will cover top of the Yeso and Glorieta.								
6. Tag TOC. Perforate at 1155'. Attempt to establish circulation. Spot a 58 sx Class "C" in/out cement plug from 1155'-944'. WOC and tag. This will cover top of the San Andres and 8-5/8" casing shoe.								
7. Tag TOC. Perforate at 100'. Attempt to estab 8. Cut off wellhead and weld on dry hole market			plug from 100' up to surf	face. Backfill as needed.				
·	or crown recommend at per regund		EE ATTACHED COA'S					
Wellbore schematics attached				1/2/20				
Sand Data	Rig Release D	MUS	BE PLUGGED BY	1//				
Spud Date:	Rig Release D	ate:		; ;				
-		\						
I hereby certify that the information above i	s true and complete to the b	est of my knowledge	and belief.					
SIGNATURE (Sin) Huerta	TITLE	Regulatory Specialist	DATE <u>Nov</u>	ember 5, 2019				
Type or print name Tina Huerta	E-mail address: <u>ti</u>	na_huerta@eogresou	rces.com PHONI	E: <u>575-748-4168</u>				
For State Use Only APPROVED BY:	TITLE 5%	A Me	DATE	11/7/19				
Conditions of Approval (if any):		7						

Thunderhead TD State #3		S	Sec-TWN-RNG: Sec. 32-8S-26E FOOTAGES: 1980' FSL & 1980' FWL CURRENT				API: 30-005-63207 GL: 3747				
COMMENTS			CURRE			a da,	KB:	R. Janes	- to 1	4 B 13 14 15 15 15 15	52.541
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				SIZE	WGHT	GRADE	Тор	Bottom	Sx Cmt	<u>С:</u> ПОС	TOCUME
		(A)		 						Circ/TOC	TOC Metho
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			3 7.875"	5.5"	15.5	J-55	0	7,057	1550	1100	Estimated
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		<u> </u>		Formation	Тор						1
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			-	Glorieta	2062	 					+
				Yeso	2179						
				Tubb	3619						
				Abo	4409						
	2 100			Wolfcamp	5155						
				Cisco	5818						
				Penn Clastics	5962						
Perfs 2834' - 2998'				Mississippian	6602			_			
C		/─		Ordovician	6964						
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		#00	Detail Joints	Description	Length	OD	ľD	Grade	Wt (lb/ft):	Top (ftKB):	Btm (ftKB):
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	PBTD: 5,500 MD										
	TD: 7,057 MD										

Sec-TWN-RNG: Sec. 32-8S-26E API: 30-005-63207 Thunderhead TD State #3 FOOTAGES: 1980' FSL & 1980' FWL GL: 3747 CURRENT KB: COMMENTS Plug 6 CASING DETAIL # HOLE SIZE WGHT Bottom Sx Cmt SIZE GRADE Тор Circ/TOC TOC Method 12.25" 8.625" J-55 1,105 650 Circ В 5.5" 7.875" 15.5 J-55 7,057 1550 0 1100 Estimated Plug 5 FORMATION TOPS Тор San Andres 994 Glorieta 2062 Yeso 2179 Plug 4 Tubb 3619 Abo 4409 Wolfcamp 5155 5818 Cisco Penn Clastics 5962 Mississippian 6602 Ordovician 6964 Plug 3 TUBING DETAIL OD D Grade Wt (lb/ft): Description Length Plug 2 4528 Plug 1 1 CIBP @ 5105' + 35' cmt. WOC and tag. CBP @ 5500' CIBP @ 4546' + 35' cmt. WOC and tag 3 Perfs @ 3689'. In/out plug from 3689' - 3559' (48sxs) covering top of Tubb. WOC and tag. Perfs @ 2229'. In/out plug from 2229/-2012' (80sxs) covering top of Yeso and Glorieta. WOC and tag. Perfs @ 1155'. In/out plug from 1155' - 944' (58sxs) covering top of San Andres and 8-5/8" casing shoe. WOC and tag. 6 Pers @ 100'. In/out plug from 100' to surface (25sxs). Back fill as needed. Perfs @ 6964' - 6974' PBTD: 5,500 MD TD: 7,057 MD

CONDITIONS FOR PLUGGING AND ABANDONMENT

District II / Artesia N.M.

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.

- 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.
- 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 the well is not plugged within 1
- 7. 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.
- 8. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
- 9. Produced water will not be used during any part of the plugging operation.
- 10. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
- 11. 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.
- 12. Class 'C' cement will be used above 7500 feet.
- 13. Class 'H' cement will be used below 7500 feet.
- 14. 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
- 15. 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 REQUIRMENTS

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)