

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

Form C-103
Revised July 18, 2013

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.)		WELL API NO. 30-015-26543
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator 104 South Fourth Street, Artesia, NM 88210		7. Lease Name or Unit Agreement Name Sara AHA COM
4. Well Location Unit Letter <u>O</u> : <u>660</u> feet from the <u>South</u> line and <u>1980</u> feet from the <u>East</u> line Section <u>11</u> Township <u>20S</u> Range <u>24E</u> NMPM <u>Eddy</u> County		8. Well Number 4
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3611' GR		9. OGRID Number 7377
		10. Pool name or Wildcat South Dagger Draw Upper Penn

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: <input type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>
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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.

1. JSA
2. MIRU WOR
3. NU Rod BOP
4. TOO H w/ Rod String and pump.
5. ND Tree/NU BOPs.
6. POOH with tubing
7. Run Casing scraper, Gauge ring with Junk Basket to top perf

Notify OCD 24 hrs. prior to any work done.

RECEIVED

MAR 01 2019

DISTRICT II-ARTESIA O.C.D.

Plug from Btm to Top:

*See Attached Co A's

- Set CIBP at 7549 ft with 35 ft of CLS H on top.
- Spot a 34 SX (172 ft) CLS H cement plug 7058 ft - 7230 ft. WOC & Tag. This will plug the Penn.
- Spot a 28 SX (157 ft) CLS C cement plug 5625 ft - 5782 ft. WOC & Tag. This will plug the Wolfcamp.
- Spot a 25 SX (142 ft) CLS C cement plug 3313 ft - 3455 ft. WOC & Tag. This will plug the Bone Spring.
- Spot a 25 SX (142 ft) CLS C cement plug 2018 ft - 2160 ft. WOC & Tag. This will plug the Glorieta.
- Perforate at 1260 ft. WOC & Tag. Attempt to establish Circulation. Spot a 25 SX (142 ft) CLS C cement plug 1118 ft - 1260 ft. WOC & Tag. This will plug the 9.625 inch casing shoe.
- Spot a 25 SX (142 ft) CLS C cement plug 433 ft - 575 ft. WOC & Tag. This will plug the San Anders.
- Spot a 10 SX (57 ft) CLS C cement plug 0 ft - 57 ft. This will plug the Top.

ENTERED
3-5-19

mailed Jerry

8. RDMO Workover Rig

9. PXA Marker

Cut off wellhead and weld on dry hole marker. Clean location as per regulation.

Spud Date:

Rig Release Date:

Must be plugged by 3/5/20

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

SIGNATURE

Jeremy Haass

TITLE

Regulatory Specialist

DATE

February 27, 2019

Type or print name

Jeremy Haass

E-mail address:

jeremy_haass@eogresources.com

PHONE:

575-748-4311

For State Use Only

APPROVED BY:

[Signature]

TITLE

Staff Mgr.

DATE

3/5/19

Conditions of Approval (if any):

Sara AHA Com #4

Surface Location: O-11-20S-24E 660 FSL 1980 FEL

KB 3627

GL 3611

Current

30-015-26543

COMMENTS

DV tool 5592

Perforations 7599 7627
KB 7658 7776

A

B

PBTD 8,084 MD
TD 8,150 MD

Tubing

#	Joints	Description	Length FT	OD in	ID in	Grade	Wt (lb/ft)	Top (ftKB)	Btm (ftKB)
1	235	2.875" tubing		2 7/8				0.00	7,531.50
2	1	TAC						7,531.50	
3	1	2.875" tubing	32.50	2 7/8					
4	1	Seating nipple						7,564.00	
5	1	Sub	4.00	2 7/8					
6	1	Change over 2.875" X 1.5"		2 7/8	1				
7	10	1.5" X 33' Dip Tube	33.00	1 1/2					7,900.00
8									

Rods

	JTS	Item Desc	Length	OD	Grade	Top	Btm		
1	87	1" Norris 97	2175.00	1	N97	0.00	2175.00		
2	91	7/8"	2275.00	7/8	N97	1.00	2276.00		
3	122	3/4"	3050.00	3/4	N97	2.00	3052.00		
4	4	1"	20.00	1	N97	3.00	23.00		
5	1	250X175X24 Flex Ring	25.00	5	N97	4.00	29.00		

CASING DETAIL

#	SIZE	WGHT	GRADE	THREAD	Top	Bottom	Sxs	Class	Circ
A	9 5/8	36	J-55		0.00	1,210	900	C	200
B	7	26/23	N-80/J-55		0.00	8,166	1525	H below DV C above DV	446
C									

Prepared by: MJM

Date: 26-Feb-2019

Sara AHA Com #4

The well log diagram illustrates the vertical profile of the well. It features several cement plugs labeled Plug #1 through Plug #8. The formations are identified as Bone Spring, Wolfcamp, Penn, and San Anders. Perforations are shown at the bottom of the well, with a depth of 5592' indicated. The diagram also shows the casing detail and the wellbore structure.

COMMENTS

Plug #8

Plug #7

Plug #6

Plug #5

Plug #4

Plug #3

Plug #2

Plug #1

Perforations 7599 7627
KB 7658 7776

DV tool 5592'

The well log diagram shows the vertical profile of the well. It includes formations such as Bone Spring, Wolfcamp, Penn, and San Anders. Cement plugs are indicated at various depths. The diagram also shows the casing detail and the wellbore structure.

PBTD	8,084	MD
TD	8,150	MD

Surface Location: O-11-20S-24E 660 FSL 1980 FEL

KB 3627
GL 3611
Proposed

30-015-26543

CASING DETAIL

#	SIZE	WGHT	GRADE	THREAD	Top	Bottom	Sxs	Class	Circ
A	9 5/8	36	J-55		0.00	1,210	900	C	200
B	7	26/23	N-80/J-55		0.00	8,166	1525	H below DV C above DV	446

Formation Top

San Anders	525
Glorieta	2110
Bone Spring	3405
Wolfcamp	5732
Penn	7180
Canyon	7556

Plug	Description
1	Set CIBP at 7549 ft with 35 ft of CLS H on top.
2	Spot a 34 SX (172 ft) CLS H cement plug 7058 ft - 7230 ft. WOC & Tag. This will plug the Penn.
3	Spot a 28 SX (157 ft) CLS C cement plug 5625 ft - 5782 ft. WOC & Tag. This will plug the Wolfcamp.
4	Spot a 25 SX (142 ft) CLS C cement plug 3313 ft - 3455 ft. WOC & Tag. This will plug the Bone Spring.
5	Spot a 25 SX (142 ft) CLS C cement plug 2018 ft - 2160 ft. WOC & Tag. This will plug the Glorieta.
6	Perforate at 1260 ft. WOC & Tag. Attempt to establish Circulation. Spot a 25 SX (142 ft) CLS C cement plug 1118 ft - 1260 ft. WOC & Tag. This will plug the 9.625 inch casing shoe.
7	Spot a 25 SX (142 ft) CLS C cement plug 433 ft - 575 ft. WOC & Tag. This will plug the San Anders.
8	Spot a 10 SX (57 ft) CLS C cement plug 0 ft - 57 ft. This will plug the Top.

Prepared by: MJM Date: 26-Feb-2019

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 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)