

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

NM OIL CONSERVATION

ARTESIA DISTRICT

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
 Santa Fe, NM 87505

RECEIVED

Form C-103
 Revised July 18, 2013

WELL API NO.
 30-015-30911

5. Indicate Type of Lease
 STATE FEE

6. State Oil & Gas Lease No.

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 Other

2. Name of Operator
 EOG Resources, Inc.

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

4. Well Location
 Unit Letter D : 660 feet from the North line and 660 feet from the West line
 Section 10 Township 18S Range 25E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 3523'GR

7. Lease Name or Unit Agreement Name
 Thistle AKT

8. Well Number
 2

9. OGRID Number
 7377

10. Pool name or Wildcat
 Eagle Creek; Strawn

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

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

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. **PBTD 8830 Parts 7970-8272**

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 ~~964'~~ with 35' Class "H" cement on top. **CIBP @ 50' to 100' from Parts**
- Perforate at 7486'. Attempt to establish circulation or spot a 53 sx Class "H" cement plug from 7486'-7312'. WOC and tag. This will plug Canyon.
- Perforate at 6784'. Attempt to establish circulation or spot a 51 sx Class "H" cement plug from 6784'-6617'. WOC and tag. This will plug Cisco.
- Perforate at 5320'. Attempt to establish circulation or spot a 41 sx Class "C" cement plug from 5320'-5167'. WOC and tag. This will plug Wolfcamp.
- Perforate at 4176'. Attempt to establish circulation or spot a 38 sx Class "C" cement plug from 4176'-4035'. WOC and tag. This will plug Abo.
- Perforate at 3542'. Attempt to establish circulation or spot a 37 sx Class "C" cement plug from 3542'-3407'. WOC and tag. This will plug Tubb.
- Perforate at 2216'. Attempt to establish circulation or spot a 33 sx Class "C" cement plug from 2216'-2094'. WOC and tag. This will plug Glorieta.
- Perforate at 837'. Attempt to establish circulation or spot a 29 sx Class "C" cement plug 837'-729'. WOC and tag. This will plug San Andres.
- Perforate at 700'. Attempt to establish circulation or spot a 25 sx Class "C" cement plug from 700'-462'. WOC and tag. This will plug the shoe.
- Perforate at 95'. Attempt to establish circulation or spot a 10 sx Class "C" cement plug from 95' up to surface. WOC and tag plug. This will plug the top.
- Cut off wellhead and weld on dry hole marker. Clean location as per regulated. **Perf + Sg @ 1341' csg shoe**
Perf + Sg @ 450' shoe

Wellbore schematics attached **No shoe @ 700'**

Spud Date: Rig Release Date:

*** See Attached COAs Must be Plugged by 10/15/20**

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 October 11, 2019

Type or print name Tina Huerta E-mail address: tina_huerta@egoresources.com PHONE: 575-748-4168

For State Use Only
 APPROVED BY: [Signature] TITLE Staff Mgr DATE 10/15/19

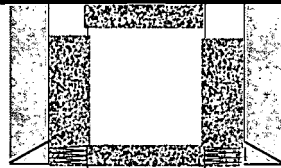
Conditions of Approval (if any):

[Handwritten mark]

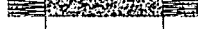
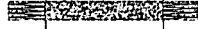
THISTLE AKT #002

Sec-TWN-RNG: D-10-18S-25E API: 30-015-30911
 FOOTAGES: 660 FNL 660 FWL GL: 3523
 32.7682419,-104.4794235 KB: 3541

COMMENTS



A



B

PBTD: 8,510 MD
 TD: 8,830 MD

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	400	425	CIRC	
B	12 1/4	9 5/8	36	J-55	0	1,291	650	CIRC	
C	8 3/4	5.5	17 & 15.5	N-80	0	8830	2050		

FORMATION TOPS

Formation	Top								
Chester	8737	Plugged							
Morrow	8514	Plugged							
Atoka	8182	Plugged							
Strawn	7930								
Canyon	7436								
Cisco	6734								
Wolfcamp	5270								
Abo	4126								
Tubb	3492								
Glorieta	2166								
San Anders	787								

TUBING DETAIL

1	Set CIBP at 9694 ft with 35 ft of CLS H on top.
2	Perforate at 7486 ft. Attempt to establish Circulation or spot I/O. Requires 53 SX (174 ft) CLS H cement plug 7312 ft - 7486 ft. WOC & Tag Plug. This will plug the Canyon
3	Perforate at 6784 ft. Attempt to establish Circulation or spot I/O. Requires 51 SX (167 ft) CLS H cement plug 6617 ft - 6784 ft. WOC & Tag Plug. This will plug the Cisco
4	Perforate at 5320 ft. Attempt to establish Circulation or spot I/O. Requires 41 SX (153 ft) CLS C cement plug 5167 ft - 5320 ft. WOC & Tag Plug. This will plug the Wolfcamp
5	Perforate at 4176 ft. Attempt to establish Circulation or spot I/O. Requires 38 SX (141 ft) CLS C cement plug 4035 ft - 4176 ft. WOC & Tag Plug. This will plug the Abo
6	Perforate at 3542 ft. Attempt to establish Circulation or spot I/O. Requires 37 SX (135 ft) CLS C cement plug 3407 ft - 3542 ft. WOC & Tag Plug. This will plug the Tubb
7	Perforate at 2216 ft. Attempt to establish Circulation or spot I/O. Requires 33 SX (122 ft) CLS C cement plug 2094 ft - 2216 ft. WOC & Tag Plug. This will plug the Glorieta
8	Perforate at 837 ft. Attempt to establish Circulation or spot I/O. Requires 29 SX (108 ft) CLS C cement plug 729 ft - 837 ft. WOC & Tag Plug. This will plug the San Anders
9	Perforate at 700 ft. Attempt to establish Circulation or spot I/O. Requires 25 SX (238 ft) CLS C cement plug 462 ft - 700 ft. WOC & Tag Plug. This will plug the Shoe
10	Perforate at 95 ft. Attempt to establish Circulation or spot I/O. Requires 10 SX (95 ft) CLS C cement plug 0 ft - 95 ft. WOC & Tag Plug. This will plug the Top

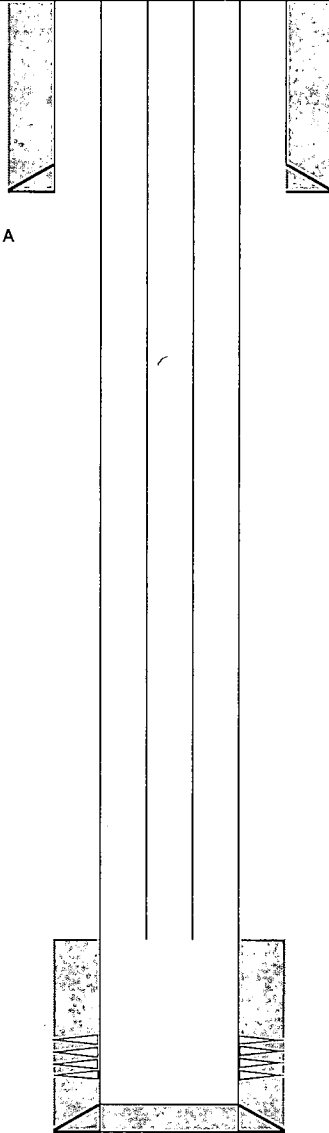
7970-7978
 8136-8142
 8254-8272
 8564-8620

THISTLE AKT #002

Sec-TWN-RNG: D-10-18S-25E
 FOOTAGES: 660 FNL 660 FWL
 32.7682419, -104.4794235

API: 30-015-30911
 GL: 3523
 KB: 3541

COMMENTS



PBSD: 8,510 MD
 TD: 8,830 MD

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	400	425	CIRC	
B	12 1/4	9 5/8	36	J-55	0	1,291	650	CIRC	
C	8 3/4	5.5	17 & 15.5	N-80	0	8830	2050		

FORMATION TOPS

Formation	Top
San Anders	787
Glorieta	2166
Tubb	3492
Abo	4126
Wolfcamp	5270
Cisco	6734
Canyon	7436
Strawn	7930
Atoka	8182
Morrow	8514
Chester	8737

TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft)	Top (ftKB)	Btm (ftKB)
1									

7970-7978
 8136-8142
 8254-8272
 8564-8620

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)