

RECEIVED

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 25 2019

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-drill an inactive well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM1372
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
WARREN ANW FED 2

2. Name of Operator
EOG Y RESOURCES INC
Contact: JEREMY HAASS
E-Mail: jeremy_haass@eogresources.com

9. API Well No.
30-015-28147-00-S2

3a. Address
104 S 4TH STREET
ARTESIA, NM, 88210

3b. Phone No. (include area code)
Ph: 575-748-4311

10. Field and Pool or Exploratory Area
N SEVEN RIVERS-GLOR-YESO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 9 T19S R25E SWSW 660FSL 660FWL

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-5 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

1. POOH w/ production equipment
2. Make GR and JB run to 2,240 ft
3. Plug 1: RIH w/ WL and set CIBP at 2,220 ft. Spot a 25sx Class C cmt plug on top of CIBP at 2,070 ft - 2,220 ft. WOC and tag. Open perms and Glorietta plug
4. Load the hole w/ plugging mud and pressure test csg
5. Plug 2: RIH w/ WL and perforate at 1,160 ft. Attempt to establish an injection
6. Spot a 25sx Class C cmt plug at 620 ft - 770 ft. San Andres plug
7. Spot a 25sx Class C cmt plug at 150 ft - Surface
8. Cut off wellhead and weld on DHM per COA. Clean location as per regulation

SEP ATTACHED
COND. APPROVAL
Carlsbad Field Office
OCD Artesia

GC 6/26/19
Accepted for record - NM/OCD

See Revised Procedure

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #466357 verified by the BLM Well Information System
For EOG Y RESOURCES INC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/22/2019 (19PP2214SE)**

Name (Printed/Typed) JEREMY HAASS	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 05/22/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>ZQTA STEVENS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>05/23/2019</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office <u>Carlsbad</u>

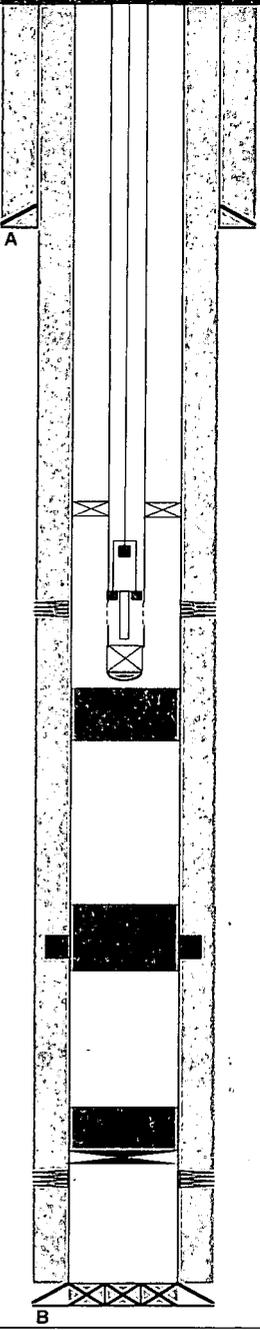
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Warren ANW Federal #2

Sec-TWN-RNG: 9-19S-25E
FOOTAGES: 660' FSL & 660' FWL

API: 30-015-28147
GL: 3527
KB:

COMMENTS



CASING DETAIL

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC by
A	14 3/4	9 5/8	36	J-55	0	1108	1100	Circ	
B	8 3/4	7	26 & 23	N-80&J-55	0	8,260	1350	Circ	
7" CSG Detail from bottom to top									
	16 jts	64 jts	90jts	32 jts					
	7" 26# N-80	7" 26# J-55	7" 23# J-55	7" 26# J-55					

FORMATION TOPS

FORMATION	TOP
San Andres	714
Glorieta	2171
BS	3703
Wolfcamp	5523
Canyon Lime	7641

Perforation Detail

Formation	Top	Bottom	Treatment	Notes
Canyon	7779	7814	10000 gal 20% NEFE	
Yeso	2274	2448	3000 gal 20% HCL & frac w/ 7131 BBL & 168,000# sand	

TBG Detail

#	Joint	Description	Length	OD	ID	Grade	Wt(lb/ft)	Top (ftKB)	Btm (ftKB)
69		TBG							
1		TBG Anchor							
8		TBG							
1		SN							
1		Sand Screen							
1		TBG (MJ)							
1		Bull Plug							

Rod Detail

#	Description	Length	OD	ID	Grade	Wt(lb/ft)	Top (ftKB)	Btm (ftKB)
1	Polish rod	16	1 1/4					
4	Pony Rods	8,6,4,2						
37	Rods		7/8					
58	Rods		3/4					
1	2 1/2 X 2 X 12 RHBC	12						
1	1 1/4" Gas Anchor	16						

ADDITIONAL DETAIL

DV tool set @ 6004'								
Plugged back from Canyon to Yeso in 2011								

Prepared by: JDE

5/22/2019

Yeso Perfs: 2274-2448

30sx plug @ 3567-3745

100sx plug @ 5462-6059
DV tool @ 6004'

CIBP @ 7729 w/ 25sx

Canyon Perfs: 7779-7814

PBTD: 3,567 MD
TD: 8,260 MD

BS - 3703
WC - 5523
Canyon - 7641
Cayon Dol - 7754
B Canyon - 8092

San Andres 714
Glorieta - 2171

Warren ANW Federal #2

Sec-TWN-RNG: 9-19S-25E
 FOOTAGES: 660' FSL & 660' FWL

API: 30-015-28147
 GL: 3527
 KB:

COMMENTS
 Plug #4: Surface plug

Plug #3: SA top

Plug #2: 9 5/8 CSG Shoe

Plug #1: Open perfs & Glorieta

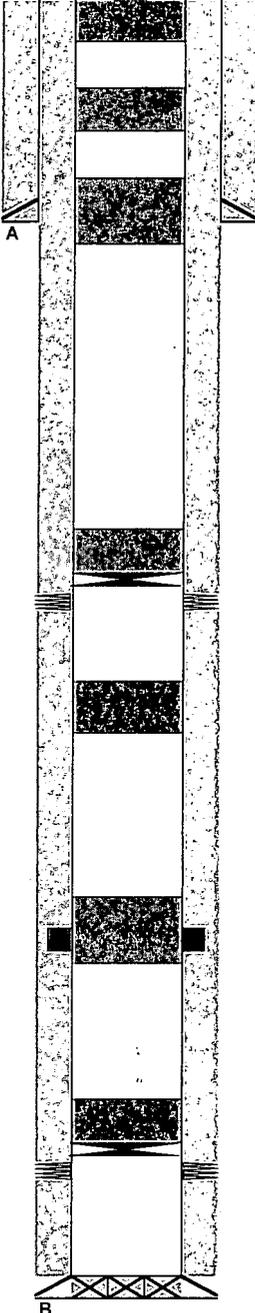
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Plugs

#	SX	CMT CLASS	TOP	BTM	DESCRIPTION
1	25	C	2070	2220	CIBP w/ 25sx. Perfs & Glorieta Top. WOC & tag
2	25	C	1010	1160	9 5/8 CSG Shoe. Perf @ 1160 & attempt inj rate. WOC & tag
3	25	C	620	770	San Andres top.
4	25	C	0	150	Surface plug

ADDITIONAL DETAIL

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 Plugged back from Canyon to Yeso in 2011

Prepared by: JDE

5/22/2019

PBTD: 3,567 MD
 TD: 8,260 MD

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Federal Wells
Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper): **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well.

Show date well was plugged.

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.