

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM81953

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.
GLOW WORM ALX FEDERAL 13

2. Name of Operator
EOG Y RESOURCES INC

Contact: KAY MADDOX
E-Mail: kay_maddox@eogresources.com

9. API Well No.
30-015-35315-00-S1

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

3b. Phone No. (include area code)
Ph: 432-686-3658

10. Field and Pool or Exploratory Area
LOS MEDANOS-DELAWARE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 4 T23S R31E NWNE 330FNL 2160FEL

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 recomplete 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 3160-4 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.

EOG PROPOSES TO PLUG AND ABANDON THIS WELL USING THE ATTACHED PROCEDURE.

RECEIVED

JUN 25 2019

Carlsbad Field Office
OCD Artesia

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

DISTRICT II-ARTESIA O.C.D.

See revised procedure

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

Electronic Submission #468179 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 06/10/2019 (19PP2348SE)

Name (Printed/Typed) KAY MADDOX

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 06/07/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS

Title PETROLEUM ENGINEER

Date 06/11/2019

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 Carlsbad

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Well Name: Glow Worm ALX Federal #13
Location: 330' FNL & 2160' FEL Sec. 4-23S-31E
County: Eddy, NM
Lat/Long: 32.339756, -103.7812729 NAD 83
API #: 30-015-35315
Spud Date: 2/8/07
Compl. Date: 7/16/07



Current Wellbore Diagram:

KB: 3,391'
 GL: 3,372'

17-1/2" Hole

13-3/8" 48# H-40 @ 558'
 Cmt w/ 575 sx (circ)

11" Hole

8-5/8" 24 & 32# & J-55 @ 4,057'
 Cmt w/ 1,350 sx (circ)

7-7/8" Hole

DV Tool @ 6,301'

TAC @ 7,523'

2-7/8" TBG @ 7,937'

Brushy Canyon perms: 7,810' - 7,906'

Brushy Canyon perms: 8,008' - 8,034'

5-1/2" 15.5 & 17# J-55 @ 8,228'
 Cmt w/ 1,080 sx (circ)

PBTD @ 8,183'
 TD @ 8,228'

Formation Tops

Rustler	501
Salado	907
B of Salt	3,941
Bell Canyon	4,227
Cherry Canyon	5,316
Brushy Canyon	6,910
Bone Spring	8,086

Not to Scale
 By: HJG 6/4/19



Glow Worm ALX Federal #13 – P&A

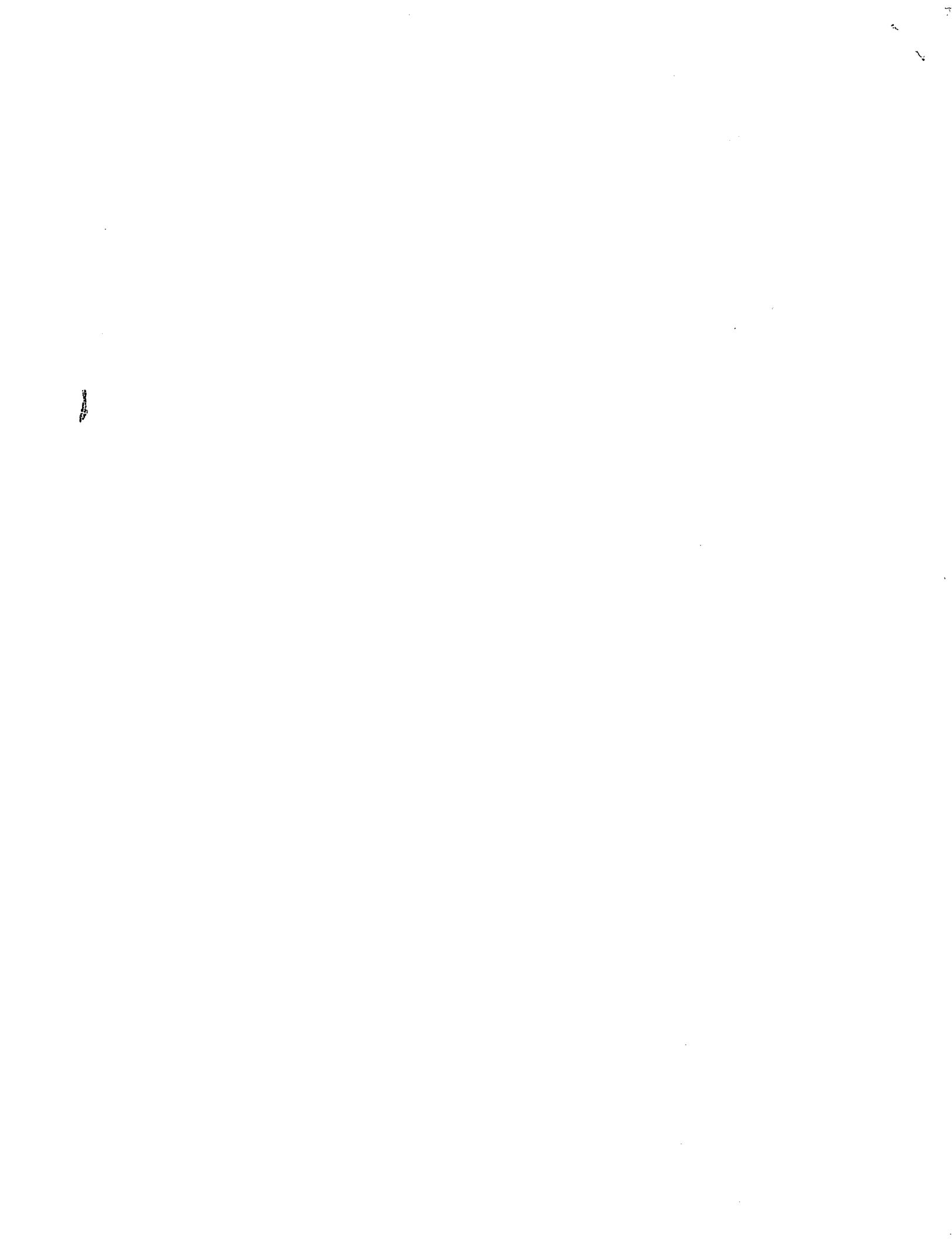
SEC 4, T23S, R31E

API # 30-015-35315

1. Notify Regulatory Agency 24 hours prior to commencing work. MIRU well service unit and all necessary safety equipment.
2. ND WH, NU BOP, release TAC at 7,523' and TOH laying down 2 7/8" production string.
3. Set 5.5" CIBP at 7,760'.
4. Tag CIBP, circulate plugging mud and spot 25 sx Class H on top of CIBP.
5. Pick up, spot a 25 sx class C cement plug from 6,355' – 6,155'. WO & Tag.
6. Pick up, spot a 345 sx class C cement plug from 4,280' – 850' in accordance to R-111-P. WOC & Tag.
7. Pick up, spot a 25 sx class C cement plug from 610' – 400'; WOC & Tag.
8. Pick up, spot 10 sx class C cement from 100' to surface.
9. Cut off WH 3' below surface; Verify cement to surface.
10. Weld on P&A marker. Cut off anchors 3' below surface and clean location.

REVISED P&A PROCEDURE

1. SET CIBP AT 7760 FT. SPOT 25 SX CLASS H FROM 7760FT- 7582FT. PRESSURE TEST. **WOC AND TAG**
2. SPOT 25 SX CLASS C FROM 6355FT- 6155 FT. **WOC AND TAG**
3. SPOT 25 SX CLASS C FROM 5366 FT – 5212 FT.
4. SPOT 345 SX CLASS C FROM 4280 FT – 850FT. **WOC AND TAG.**
5. SPOT 25 SKS CLASS C FROM 610 FT-400FT. **WOC AND TAG**
6. SPOT 10 SX FROM 100 FT – SURFACE.
7. CUTOFF WH 3' BELOW SURFACE, VERIFY CEMENT TO SURACE.
8. WELD ON P & A MARKER. CUT OFF ANCHORS 3 FT BELOW SURFACE AND CLEAN LOCATION.



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.