

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

HOBBSOCD

OCD-HOBBS

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS** JAN 14 2015  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

5. Lease Serial No.  
NMNM30400
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.  
NM124037x
8. Well Name and No.  
RED HILLS NORTH UNIT 213H
9. API Well No.  
30-025-36584
10. Field and Pool, or Exploratory  
RED HILLS; BONE SPRING
11. County or Parish, and State  
LEA COUNTY, NM

## 1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION

## 2. Name of Operator

EOG RESOURCES, INC.

Contact: STAN WAGNER

E-Mail: stan\_wagner@eogresources.com

## 3a. Address

P.O. BOX 2267  
MIDLAND, TX 79702

## 3b. Phone No. (include area code)

Ph: 432-686-3689

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 12 T25S R33E SWNE 2213FNL 1920FEL

BHL 12 " " 2421S - 380W

## 12. CHECK 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"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall 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 Resources proposes to repair a casing leak for this well as follows:

1. POOH w/ tubing.
2. Make up & RIH w/ RBP. Set RBP at 9200'. POOH. (suspected leak 9142 - 9170')
3. Dump 2 sks of sand on top of RBP.
4. Make up CICR and RIH w/ CICR to 9120'. Establish injection rate thru hole in 7" casing.
5. Squeeze w/ 200 sks Class H cement. Sting out of CICR and reverse circulate.
6. WOC 24 hours.
7. RIH to drill out cement and CICR, wash down to top of RBP. POOH.
8. Pressure test squeeze to 1000 psi.
9. RIH and retrieve RBP.
10. Perform MIT test and return to injection.

**SUBJECT TO LIKE  
APPROVAL BY STATE**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Electronic Submission #284588 verified by the BLM Well Information System  
For EOG RESOURCES, INC., sent to the Hobbs

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 12/09/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

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

**APPROVED**

JAN 6 2015

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

MSB/OCD 1/20/2015

JAN 21 2015

EOG Resources, Inc.

WELL NAME: **Red Hills North Unit 213 WIW** API #:

WELLBORE:	TD MD: 15,185'	KOP: 11,800'
	TD TVD:	LANDED MD:
	PBD: 15,074'	LANDED TVD:

CSG DETAIL:	SIZE	WEIGHT	GRADE	TOC	DEPTH	Top	Bottom
SURFACE:	13-3/8"	48	H40	Surf			
INTERMEDIATE	9-5/8"	40	J-55	Surf			
PRODUCTION:	7"	26	P-110	6,841'			
Liner	4-1/2"	11.6	P-110			11,597'	15,165'

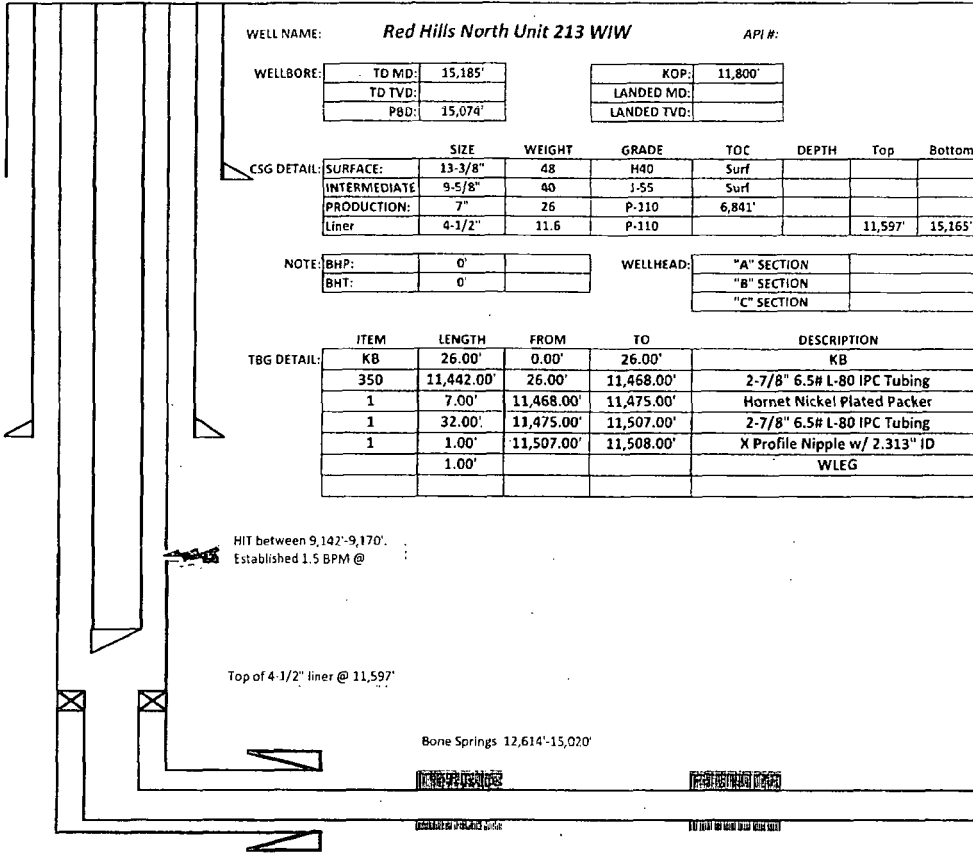
NOTE: BHP:	0'	WELLHEAD:	"A" SECTION
BHT:	0'		"B" SECTION
			"C" SECTION

TBG DETAIL:	ITEM	LENGTH	FROM	TO	DESCRIPTION	OD	ID
	KB	26.00'	0.00'	26.00'	KB		
	350	11,442.00'	26.00'	11,468.00'	2-7/8" 6.5# L-80 IPC Tubing		
	1	7.00'	11,468.00'	11,475.00'	Hornet Nickel Plated Packer		
	1	32.00'	11,475.00'	11,507.00'	2-7/8" 6.5# L-80 IPC Tubing		
	1	1.00'	11,507.00'	11,508.00'	X Profile Nipple w/ 2.313" ID		
		1.00'			WLEG		

HIT between 9,142'-9,170'.  
Established 1.5 BPM @

Top of 4-1/2" liner @ 11,597'

Bone Springs 12,614'-15,020'



## Conditions of Approval

EOG Resources, Inc.  
Red Hills North Unit - 213H, API 3002536584  
T25S-R33E, Sec 12, 2213FNL & 1920FEL, Surface  
January 06, 2014

1. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Johnny Chopp <jchopp@blm.gov> 575.234.2227 or Bob Ballard <bballard@blm.gov> 575.234.5973.
2. Before casing or a liner is added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
3. Subject to like approval by the New Mexico Oil Conservation Division.
4. Use of class "H" cement at depths greater than 7500ft & "C" at depths less than 7500ft will be necessary. Class "C" squeeze cement is to be mixed 14.8#/gal, 1.32 ft<sup>3</sup>/sx, 6.3gal/sx water and "H" mixed 16.4#/gal, 1.06ft<sup>3</sup>/sx, 4.3gal/sx water.
5. **Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 12575 or below to top of cement taken with 0psig casing pressure. The CBL may be attached to a pswartz@blm.gov email. The CFO BLM on call engineer may be reached at 575-706-2779.**
6. Surface disturbance beyond the existing pad shall have prior approval.
7. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
8. Functional H<sub>2</sub>S monitoring equipment shall be on location.
9. 5000 (5M) Blow Out Prevention Equipment to be used. All BOPE and workover procedures shall establish fail safe well control. Blind ram(s) and pipe ram(s) designed to close on all workstring diameters used is required equipment. A manual BOP closure system (hand wheels) shall be available for use regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) shall be employed when needed for reasonable well control requirements.
10. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
11. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

12. Submit a subsequent Sundry Form 3160-5 relating the dated daily wellbore and MIT activities. File the form within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.

#### **Well with a Packer - Operations**

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with minimum 200 psig differential between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). Verify all annular casing vent valves are open to the surface during this pressure test. An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) Make arrangements 24 hours before the test for BLM to witness. In Eddy County email Paul R. Swartz [pswartz@blm.gov](mailto:pswartz@blm.gov) or phone 575-200-7902, if there is no response, 575-361-2822. In Lea County phone 575-393-3612. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number.
- 5) Submit a subsequent Sundry Form 3160-5 relating the dated daily wellbore and MIT activities. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
- 6) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
- 7) **Submit the original subsequent sundry with three copies to BLM Carlsbad.**
- 8) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 9) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.

- 10) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of a full annular fluid level at any time.
- 11) A "Best Management Practice" is to maintain the annulus full of packer fluid at atmospheric pressure. Equipment that will display on site, continuous open to the air fluid level is necessary to achieve this goal.
- 12) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 13) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 14) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0 psia. Notify the BLM's authorized officer ("Paul R. Swartz" <[pswartz@blm.gov](mailto:pswartz@blm.gov)>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 15) Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of installed equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in line tubing check valve below the packer or between the on/off tool and packer. The setting depths and descriptions of each are to be included in the subsequent sundry. List daily descriptions of any previously unreported wellbore workover(s) and reason(s) the well annular fluid was replaced.
- 16) A request for increased wellhead pressures is to be accompanied by a step rate test. **PRIOR to a Step Rate Test** BLM – CFO is requiring a Notice of Intent.
- 17) CFR 146.13(a)(1) & CFR 146.23(a)(1) - Class I wells are permitted stimulation injection pressure to exceed frac pressure while Class II (production water disposal) wells do not have that provision.

Access information for use of Form 3160-5 "Sundry Notices and Reports on Wells"

NM Fed Regs & Forms - [http://www.blm.gov/nm/st/en/prog/energy/oil\\_and\\_gas.html](http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html)

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.