

RECEIVED

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 26 2016

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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.

Farmington Field Office
Bureau of Land Management

Case Serial No.
MDA-701-98-0013, Tract 2

6. If Indian, Allottee, or Tribe Name

Jicarilla Apache Tribe

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

Jicarilla 29-02-28 #13

8. Well Name and No.

Jicarilla 29-02-28 #13

9. API Well No.

30-039-29421

10. Field and Pool, or Exploratory Area

Burro Canyon Tert. / E. Blanco PC

11. County or Parish, State

Rio Arriba County, New Mexico

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Black Hills Gas Resources, Inc.

3a. Address

3200 N 1st St, Bloomfield, NM 87413

3b. Phone No. (include area code)

(505) 634-5104

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

115' FNL & 2195' FEL NW/NE Section 28 T29N R2W (UL: B)

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Acidize

☐ Deepen

☐ Production (Start/Resume)

☐ Water Shut-off

☐ Subsequent Report

☐ Altering Casing

☐ Fracture Treat

☐ Reclamation

☐ Well Integrity

☐ Casing Repair

☐ New Construction

☐ Recomplete

☐ Other

☐ Change Plans

☒ Plug and abandon

☐ Temporarily Abandon

☐ Final Abandonment Notice

☐ Convert to Injection

☐ Plug back

☐ 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 the 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 Notice 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.)

**Black Hills Gas Resources Intends to plug and abandon the Jicarilla 29-02-28 #13 per the attached procedure
BHGR will be using a close loop system**

Attachments:

Proposed Procedure
Current Well Bore Diagram
Proposed Well Bore Diagram

**BLM'S APPROVAL OR ACCEPTANCE OF THIS
ACTION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS**

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Notify NMOCD 24 hrs
prior to beginning
operations

OIL CONS. DIV DIST. 3

MAY 09 2016

** Reclamation plan has not been approved.*

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)

Daniel Manus

Regulatory Technician II

Title

Signature

Daniel Manus

Date

April 26, 2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

John Savage

Title

PE

Date

5/4/16

Office

FFO

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.

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 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)

NMOCD

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PLUG AND ABANDONMENT PROCEDURE

April 22, 2016

Jicarilla 29-02-28 #13

East Blanco PC / Burro Canyon; Tertiary

115' FNL, 2195' FEL, Section 28, T29N, R2W, Rio Arriba County, NM

API 30-039-29421 / Long: _____ / Lat: _____

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes _____, No X, Unknown _____.
Tubing: Yes X, No _____, Unknown _____, Size 2-3/8", Length 3543'.
Packer: Yes X, No _____, Unknown _____, Type Baker Model R DG @ 2591'.
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
PU on packer and release. TOH and LD packer.
4. **Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 3650' - 3106')**: RIH with open ended tubing. Mix and pump 82 sxs Class B cement (30% excess, due to long plugs and open perms) and spot a plug from 3650' to isolate the PC interval and cover the Fruitland, Kirtland and Ojo Alamo tops. PUH and WOC. TIH and tag cement, if necessary top off. PUH.
5. **Plug #2 (Nacimiento top, 2014' - 1914')**: Mix 20 sxs Class B cement (excess due to open perms) and spot an underbalanced plug to cover the Nacimiento top. PUH and WOC. TIH and tag cement, if necessary top off. TOH.
6. **Plug #3 (San Jose perforations, 1182' - 1082')**: Round trip 5.5" casing scraper to 1182'. TIH and set 5.5" CR or CIBP at 1182'. Pressure test casing to 800 psi. Mix 17 sxs Class B cement and spot a plug inside the casing above the CR or CIBP to isolate the San Jose interval. PUH. If casing did not pressure test, WOC and tag. If necessary top off. PUH.
7. **Plug #4 (8-5/8" Surface casing shoe, 333' - Surface)**: Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 40 sxs cement and spot a balanced plug from 333' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 333' and the annulus from the squeeze holes to surface. Shut in well and WOC.
8. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. Cut off anchors and clean up location. Restore location per BLM stipulations.

Jicarilla 29-02-28 #13 Current

East Blanco PC/ Burro Canyon, Tertiary

115' FNL & 2195' FEL, Section 28-T-29-N, R-2-W, Rio Arriba County, NM

Long: _____ / Lat: _____ / API 30-039-29421

Today's Date: 4/22/16

Spud: 2/04/06

Comp 3/22/06

Elevation: 7158' GI
7170' KB

12-1/4" Hole

TOC @ Surface (CBL)

8-5/8" 24#, J-55 Casing set @ 283'
Cement with 200 sxs, circulated to surface

Nacimiento @ 1964'

San Jose Perforations:
1232' - 1271'

2-3/8" tubing @ 3543'
(80 jts 2 3/8", 4.7#, J-55 tbg, packer, 29 jts
tbg, SN, NC. Baker Model R DG packer @
2591')

Nacimiento Perforations:
2564' - 2593' (sqz'd with 100 sxs 2006)
Baker Model R DG pkr @ 2591'

Ojo Alamo @ 3156'

Kirtland @ 3350'

Fruitland @ 3468'

Pictured Cliffs @ 3530'

Pictured Cliffs Perforations:
3531' - 3600'

7-7/8" Hole

5.5" 15.5# & 17#, J-55 Casing @ 3743'
Cement with 650 sxs. Circulated 30
bbls cmt to surface

3743' TD
3710' PBTB

Jicarilla 29-02-28 #13 Proposed P&A

East Blanco PC/ Burro Canyon, Tertiary

115' FNL & 2195' FEL, Section 28-T-29-N, R-2-W, Rio Arriba County, NM

Long: _____ / Lat: _____ / API 30-039-29421

Today's Date: 4/22/16

Spud: 2/04/06

Comp 3/22/06

Elevation: 7158' GI

7170' KB

12-1/4" Hole

TOC @ Surface (CBL)

8-5/8" 24#, J-55 Casing set @ 283'
Cement with 200 sxs, circulated to surface

Plug #4: 333' - 0'
Class B cement, 40 sxs

Set CR @ 1182'

Plug #3: 1182' - 1082'
Class B cement, 17 sxs

San Jose Perforations:
1232' - 1271'

Plug #2: 2014' - 1914'
Class B cement, 20 sxs
(excess due to open perms)

Nacimiento @ 1964'

Nacimiento Perforations:
2564' - 2593' (sqz'd with 100 sxs 2006)

Ojo Alamo @ 3156'

Plug #1: 3650' - 3106'
Class B cement, 82 sxs
(30% excess, long plug)

Kirtland @ 3350'

Fruitland @ 3468'

Pictured Cliffs @ 3530'

Pictured Cliffs Perforations:
3531' - 3600'

7-7/8" Hole

5.5" 15.5# & 17#, J-55 Casing @ 3743'
Cement with 650 sxs. Circulated 30
bbls cement to surface.

3743' TD
3710' PBD

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: Jicarilla 29-02-28 #13

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

CBL (2006) will suffice for verification of TOC.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.