

RECEIVED

Form 3160-5  
(August 2007)

JUN 10 2013

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010Farmington Field SUNDRY NOTICES AND REPORTS ON WELLS  
Bureau of Land Management  
**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 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)

2400' FSL &amp; 1500' FWL NE/SW Section 10 T30N R3W (UL: K)

## 5. Lease Serial No.

Jicarilla Contract 457

## 6. If Indian, Allottee, or Tribe Name

Jicarilla Apache Tribe

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

## 8. Well Name and No.

Jicarilla 457-10 #8

## 9. API Well No.

30-039-25783

## 10. Field and Pool, or Exploratory Area

East Blanco Pictured Cliffs

## 11. County or Parish, State

Rio Arriba County, New Mexico

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

## TYPE OF SUBMISSION

☒

Notice of Intent

☐

Subsequent Report

☐

Final Abandonment Notice

## TYPE OF ACTION

☐

Acidize

☐

Altering Casing

☐

Casing Repair

☐

Change Plans

☐

Convert to Injection

☐

Deepen

☐

Fracture Treat

☐

New Construction

☒

Plug and abandon

☐

Plug back

☐

Production (Start/Resume)

☐

Reclamation

☐

Recomplete

☐

Temporarily Abandon

☐

Water Disposal

☐

Water Shut-off

☐

Well Integrity

☐

Other

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 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 recompletion 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.)

Per the Notice of Intent dated May 2, 2013, to plug and abandon Jicarilla 457-10 #8, Black Hills Gas Resources is submitting the attached plug and abandon procedure.

RCVD JUN 14 '13  
OIL CONS. DIV.  
DIST. 3

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

Daniel Manus

Regulatory Technician

Title

Signature

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JUN 13 2013

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

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)

NMOCDAV

**PLUG AND ABANDONMENT PROCEDURE  
Proposed P&A (Originally PB in 2007)**

May 7, 2013

**Jicarilla 457-10 #8**  
East Blanco Pictured Cliffs  
2400' FSL & 1500' FWL, SW, Section 10, T30N, R3W  
Rio Arriba County, New Mexico, API #30-039-25783

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 requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Note: this well will use a base beam. 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 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\_\_\_\_, No X, Unknown\_\_\_\_, Size\_\_\_\_, Length\_\_\_\_.  
Packer: Yes\_\_\_\_, No X, Unknown\_\_\_\_, Type\_\_\_\_\_.

Note: Prior to spotting Plug #3, tag Plug #2 (2007). PU tubing workstring and TIH. Tag existing Plug #2 cement at 2179' or as deep as possible. PUH.

4. **Plug #3 (Nacimiento top, 2026' – 1926'):** Attempt to pressure test casing; if casing does not pressure test then spot or tag subsequent plugs as appropriate. Mix 17 sxs cement and spot a balanced plug inside the casing to cover the Nacimiento top. PUH.
5. **Plug #4 (8-5/8" Surface casing shoe, 592' - 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 75 sxs cement and spot a balanced plug from 592' 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 592' and the annulus from the squeeze holes to surface. Shut in well and WOC.
6. ND BOP and NU wellhead. RD and MOL. Restore location per BLM stipulations.

# **Jicarilla 457-10 #8**

## **Proposed P&A**

East Blanco Pictured Cliffs

2400' FSL & 1500' FWL, SW, Section 10, T-30-N, R-3-W

Rio Arriba County, NM / API #30-039-25783

Today's Date: 5/7/13

Spud: 4/9/98

Completion: 8/16/98

Elevation: 7197' GI  
7209' KB

12.25" hole

8.625" 24#, K-55 Casing set @ 542'  
Cement with 300 sxs (Circulated to Surface)

**Plug #4: 592' - 0'**  
Class B cement, 75 sxs

**Plug #3 2026' - 1926'**  
Class B cement, 17 sxs

**2007 Plug #2: 2366' - 2179'**  
Type III cement, 19 sxs

Ojo Alamo Perforations:  
3177' - 3310'  
Squeezed with 250 sxs cement (1998)

**2007 Plug #1: 3792' - 2892'**  
Type III cement, 100 sxs

Pictured Cliffs Perforations:  
3685' - 3734'

5.5" 15.5#, J-55 Casing set @ 3925'  
Cemented with 530 sxs  
Circulate 45 sxs to pit per report

7.875" hole

TD 3985'  
PBTD 3908'

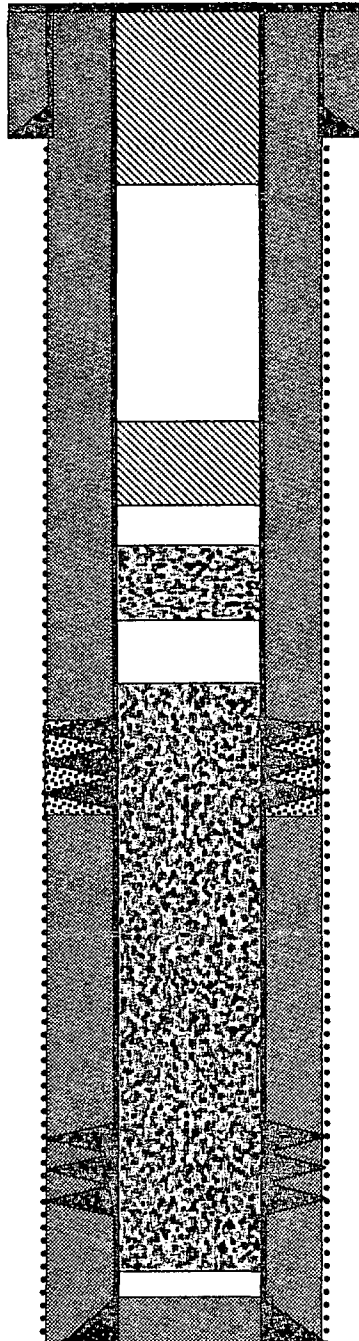
Nacimiento @ 1976'

Ojo Alamo @ 3172'

Kirtland @ 3381'

Fruitland Coal @ 3497'

Pictured Cliffs @ 3676'



# **Jicarilla 457-10 #8**

## **Plugback 2007**

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Squeezed with 250 sxs cement (1998)

Kirtland @ 3381'

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Type III cement, 100 sxs

Fruitland Coal @ 3497'

Pictured Cliffs @ 3676'

Pictured Cliffs Perforations:  
3685' – 3734'

7.875" hole

5.5" 15.5#, J-55 Casing set @ 3925'  
Cemented with 530 sxs  
Circulate 45 sxs to pit per report

TD 3985'  
PBSD 3908'

**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: 8 Jicarilla 457-10

**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.
3. The following modifications to your plugging program are to be made:
  - a) You are required to have H2S monitoring equipment and personnel on location during plugging operations.

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.