

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**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.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
**Black Hills Gas Resources, Inc.**

3a. Address  
**350 Indiana Street, Suite 400, Golden, CO 80401**

3b. Phone No. (include area code)  
**720-210-1338**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**505' FNL & 1740' FWL (BHL: 1000' FNL & 600' FEL)  
Sec. 23, 30N-03W, Unit C**

5. Lease Serial No.  
**JIC 462**

6. If Indian, Allottee or Tribe Name  
**Jicarilla Apache Nation**

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

8. Well Name and No.  
**Jicarilla 462-23 #12**

9. API Well No.  
**30-039-29322**

10. Field and Pool, or Exploratory Area  
**East Blanco; Pictured Cliffs**

11. County or Parish, State  
**Rio Arriba Co., NM**

**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 type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" 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 must 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 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.)

**Black Hills Gas Resources, Inc. intends to recompleat the above referenced well to the Cabresto Canyon; Tertiary pool, (San Jose formation) per the attached procedure.**



2006 MAY 8 PM 8 14  
RECEIVED  
OIL CONSERVATION DIV.

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

**Julie Stiffleer**

Title **Engineering Prod Tech**

Signature

*Julie Stiffleer*

Date

**5-2-2006**

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

Approved by **Original Signed: Stephen Mason**

Title

Date

**MAY 13 2006**

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 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)

**HOLD C104 run 6/22 Form for Cabresto Cyn Tertiary pool.**  
**NMOCD**

# Black Hills Gas Resources

## Re Completion Procedure

For the

**JICARILLA 462-23 #12H**

**API # 30-039-29322**

**NE NW Sec 23, T30N – R3W**

**Rio Arriba County, New Mexico**

**Lat: 36°, 48', 10" N**

**Long: 107°, 07', 21" W**

**Surface casing:** 8-5/8", 24 lb/ft, Casing @ 254', TOC = surf  
**Production casing:** 5 1/2" 17 lb/ft, Casing @ 3805', TOC = 1830' (primary cement job, There were 3 subsequent squeeze jobs) See WB Dia for details.  
**Current prod tubing:** 2 3/8" tubing to 3554'. 2 7/8" 8.7# PH-6 (with 6 perforated joints) from 3554' to 6590' +/- MD  
**Current pump/ rods:** N/A

### Current Production Zones:

**Pictured Cliffs:**

**Lateral 3672'-6590' MD**

### Proposed Work: Pull the 2 7/8" PH-6 tubing, plug back and complete the Tertiary

1. MIRU Completion rig. Conduct safety meeting to review all safety aspects of the job.
2. ND WH, NU BOP.
3. Come off the ON/OFF tool and TOO H with the 2 3/8" production tubing.
4. MU 2 7/8" workstring with; ON/OFF tool skirt. TIH and latch on to the ON/OFF tool. Pull the PH-6 completion string. (This PH-6 is to be inspected for the effectiveness of the "new" completion technique utilizing pre-drilled holes with aluminum plugs.)
5. TIH and set a CIBP @ +/- 3650'. TOO H
6. MIRU perforating company. Shoot 4 squeeze holes @ 1275'. Shoot "suicide" squeeze holes @ 1005'.
7. TIH with cement retainer and set retainer @ +/- 1230'.
8. MIRU cementing company. Pump 70 cu ft Type III cement. Sting out of retainer and pull up to 990' AFASP. Reverse circulate the hole clean. TOO H. WOC
9. Drill out cement.
10. MIRU perforating company, run CBL from 1500' to 100' above TOC.

10a. Swab csg down to 1085'

11. MIRU perforating company. **Correlate with HLS Density/Neutron log dated 4-26-2005.** Perforate the lower San Jose with 3 1/8" HSC and 0.34"-0.35" holes as follows:

**1185-1190 (5 ft) 4/ft**

**Total lower San Jose perforations: 5 ft, 20 holes. Estimated frac height 15 ft.**

12. TIH with workstring, packer. Set the packer @ +/- 1170'. Swab/flow test the San Jose perforations.

**The results of the "natural" test will determine if the interval is to be broken down**

13. Breakdown the lower San Jose perfs (1185-1190) with 150 gal 7 1/2% HCl @ +/- 3-4 bpm. Over-displace acid by 5 bbls 2% KCl water.
14. Swab test the lower San Jose perfs.

**The results of the breakdown will determine if the interval is to be fraced**

15. MIRU perforating company. **Correlate with HLS Density/Neutron log dated 4-26-2005.** Perforate the upper San Jose with 3 1/8" HSC and 0.34"-0.35" holes as follows:

**1076-1078 (2 ft) 4/ft**

**Total upper San Jose perforations: 2 ft, 8 holes.**

16. TIH with workstring, RBP and packer. Set the RBP @ +/- 1100'. Set the packer @ +/- 1150'. Swab/flow test the upper San Jose perforations.

**The results of the "natural" test will determine if the interval is to be broken down**

17. Breakdown the upper San Jose perfs (1076-1078) with 100 gal 7 1/2% HCl @ 2 bpm. Over-displace acid by 5 bbls 2% KCl water.
18. Swab test the upper San Jose perfs.
19. **If lower San Jose is to be fraced TIH with treating string and packer. Set packer @ +/- 1150'. (The perforations @ 1076-1078 are not to be fraced). Rig up tubing frac flange and frac valve.**

*Based on  
above  
results: →*