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Form 3160-5  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Albuquerque Field Office  
Bureau of Land Management

FEB 14 2013

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.

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.	
8. Well Name and No.	Jicarilla 29-2-27 #21
9. API Well No.	30-039-29397
10. Field and Pool, or Exploratory Area	Burro Canyon Tertiary
11. County or Parish, State	Rio Arriba County

**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)  
**1640' FNL & 545' FWL, Sec. 27 T29N R2W**

**12. CHECK APPROPRIATE BOX(S) 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"/> Altering 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 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 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 February 6, 2013, to plug and abandon Jicarilla 29-02-27 #21, Black Hills Gas Resources is submitting the attached plug and abandon procedure.**

RCVD FEB 22 '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

February 14, 2013

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

Approved by

Original Signed: Stephen Mason

Title

Date

FEB 20 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)

NMOCDA

## PLUG AND ABANDONMENT PROCEDURE

February 12, 2013

### Jicarilla 29-02-27 #21

Burro Canyon Tertiary; San Jose Ext.

1640' FNL, 545' FWL, Section 27, T29N, R2W, Rio Arriba County, NM

API 30-039-29397 / 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 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. 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 \_\_\_\_\_, Unknown\_\_\_\_\_.  
Tubing: Yes  , No \_\_\_\_\_, Unknown\_\_\_\_\_, Size 2-3/8" , Length 1527'.  
Packer: Yes \_\_\_\_\_,  No X, Unknown\_\_\_\_\_, Type \_\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. **Plug #1 (San Jose perforations, 1253' – 1153')**: Round trip 4.5" gauge ring or casing scraper to 1253', or as deep as possible. TIH and set 4.5" CR or CIBP at 1253'. Pressure test tubing to 1000#. Pressure test casing to 800#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 12 sxs Class B cement and spot a balanced plug inside the casing above the CR to isolate the San Jose interval. PUH.
5. **Plug #2 (7" Surface casing shoe, 335' - 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 30 sxs cement and spot a balanced plug from 335' 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 335' and the annulus from the squeeze holes to surface. Shut in well and WOC.
6. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

# Jicarilla 29-02-27 #21

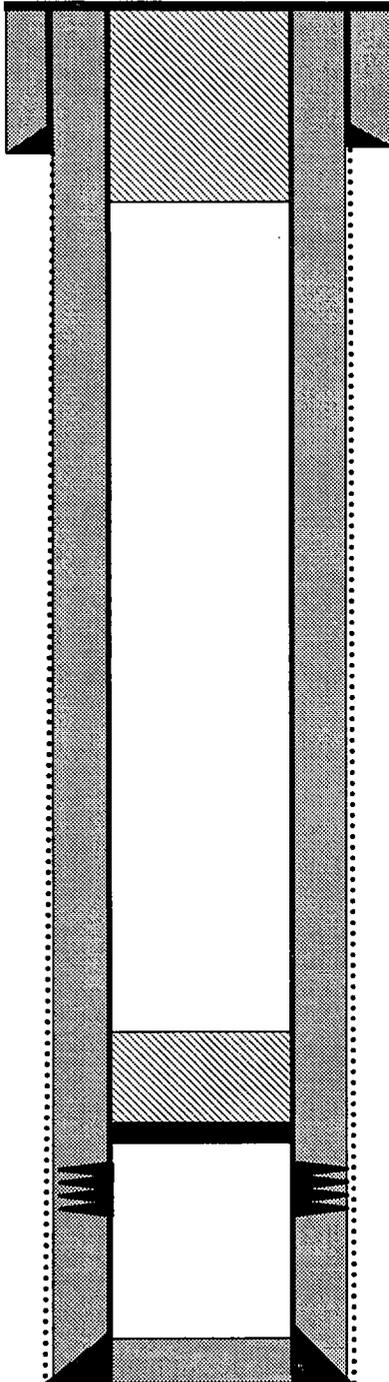
## Proposed P&A

Burro Canyon Tertiary; San Jose Ext.

1640' FNL & 545' FWL, Section 27, T-29-N, R-2-W, Rio Arriba County, NM

Long: \_\_\_\_\_ / Lat: \_\_\_\_\_ / API 30-039-29397

Today's Date: 2/12/13  
Spud: 9/4/07  
Comp: 9/28/07  
Elevation: 7218' GI  
7223' KB



TOC @ Surface per Sundry and Completion report

7", 20#, J-55 Casing set @ 285'  
Cement with 125 sxs, circulated to surface

San Jose @ surface

Plug #2: 335' - 0'  
Class B cement, 30 sxs

Plug #1: 1253' - 1153'  
Class B cement, 12 sxs

Set CR @ 1253'

San Jose Perforations:  
1303' - 1347'

Fill at 1595' 5/13/11

4.5" 10.5#, J-55 Casing @ 1710'  
Cement with 210 sxs  
Circulated 6 bbls to surface

9-7/8" Hole

6-1/4" Hole

1710' TD  
1667' PBD

# Jicarilla 29-02-27 #21

## Current

Burro Canyon Tertiary; San Jose Ext.

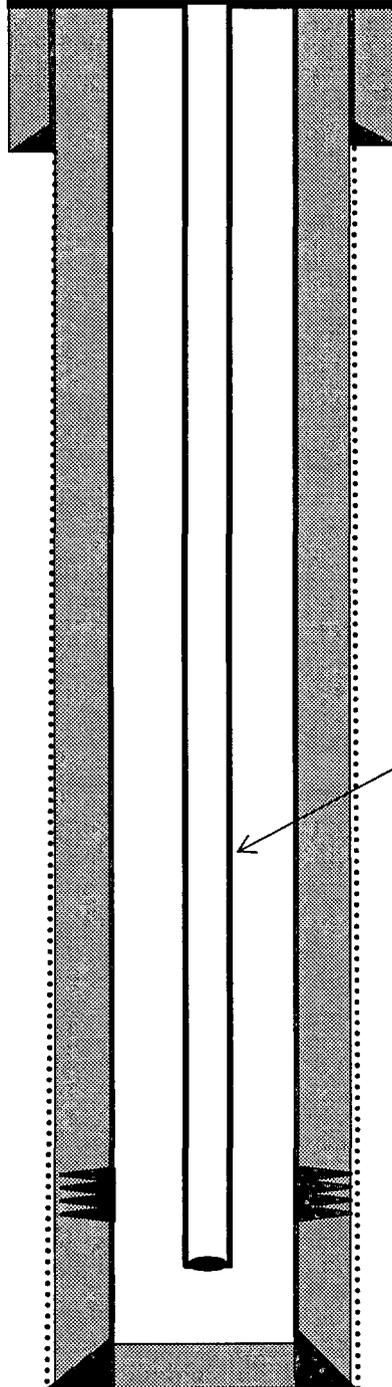
1640' FNL & 545' FWL, Section 27, T-29-N, R-2-W, Rio Arriba County, NM

Long: \_\_\_\_\_ / Lat: \_\_\_\_\_ / API 30-039-29397

Today's Date: 2/12/13  
Spud: 9/4/07  
Comp: 9/28/07  
Elevation: 7218' GI  
7223' KB

9-7/8" Hole

San Jose @ surface



TOC @ Surface per Sundry and Completion report

7", 20#, J-55 Casing set @ 285'  
Cement with 125 sxs, circulated to surface

2-3/8" tubing @ 1527'  
(48 jts, 4.7#, J-55, SN @ 1460' with rods and pump)

San Jose Perforations:  
1303' - 1347'

Fill at 1595' 5/13/11

4.5" 10.5#, J-55 Casing @ 1710'  
Cement with 210 sxs  
Circulated 6 bbls to surface

6-1/4" Hole

1710' TD  
1667' PBD

The Jicarilla Apache Nation requires 45 days to evaluate this well beginning from February 8, 2013 in order to determine if they would like to assume ownership of the well. If the Jicarilla Apache Nation has not contacted your office before the end of the 45 days you may proceed with plugging operations.