

# RECEIVED

Form 3160-5  
(August 2007)

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

AUG 21 2012

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.

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No <b>Contract 462</b>
2. Name of Operator <b>Black Hills Gas Resources, Inc.</b>		6. If Indian, Allottee, or Tribe Name <b>Jicarilla Apache Tribe</b>
3a. Address <b>3200 N 1st St, Bloomfield, NM 87413</b>	3b. Phone No. (include area code) <b>(505) 634-5104</b>	7. If Unit or CA. Agreement Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1190 FSL &amp; 1081 FWL Section 22 T30N R3W (UL: M)</b>		8. Well Name and No. <b>Jicarilla 462 #1</b>
		9. API Well No. <b>30-039-24110</b>
		10. Field and Pool, or Exploratory Area <b>E Blanco PC &amp; Cabresto Cnyn Tert.</b>
		11. County or Parish, State <b>Rio Arriba County, New Mexico</b>

### 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 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 reclamantion, 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 Jicarilla 462 #1 per attached procedure

Notify NMOCD 24 hrs  
prior to beginning  
operations

RCVD AUG 27 '12  
OIL CONS. DIV.  
DIST. 3

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

**Daniel Manus**

**Regulatory Techician**

Title

Signature

Date

**August 21, 2012**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

**Original Signed: Stephen Mason**

Title

Date

**AUG 21 2012**

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)

**NMOCD**

## PLUG AND ABANDONMENT PROCEDURE

8/21/12

### Jicarilla 462 #1

East Blanco PC / Cabresto Canyon; Tertiary

1190' FSL, 1081' FWL, Section 22, T30N, R3W, Rio Arriba County, NM

API 30-039-24110 / 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 X, Unknown \_\_\_\_\_.  
Tubing: Yes \_\_\_\_\_, No X, Unknown \_\_\_\_\_, Size \_\_\_\_\_, Length \_\_\_\_\_.  
Packer: Yes \_\_\_\_\_, No \_\_\_\_\_, Unknown \_\_\_\_\_, Type \_\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

**NOTE: PU tubing workstring, drill collars and mill. TIH and mill out CIBP at 1120' and composite plug at 3095'. Circulate well clean.**

4. **Plug #1 (Pictured Cliffs interval and Fruitland and Kirtland tops, 3595' – 3292'):** POH tubing workstring and TIH; tag existing CIBP at 3595'. Mix 27 sxs Class B cement and spot a balanced plug inside the casing above the CIBP to isolate the PC interval and cover through the Kirtland top. TOH with tubing.
5. **Plug #2 (Ojo Alamo perforations and top, 3074' – 2974'):** Round trip 4.5" gauge ring or casing scraper to 3074'. TIH and set 4.5" CIBP or cement retainer at 3074'. Mix 12 sxs Class B cement and spot a balanced plug inside the casing above the CIBP or cement retainer to isolate the Ojo Alamo perforations and top. TOH with tubing.
6. **Plug #3 (Nacimiento top, 1995' – 1895'):** Perforate 3 squeeze holes at 1995'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 4.5" cement retainer at 1945'. Establish rate into squeeze holes. Mix and pump 36 sxs cement, squeeze 24 sxs outside the casing and leave 12 sxs inside the casing to cover the Nacimiento top. TOH with tubing.
7. **Plug #4 (L. San Jose perforations, 1100' – 1000'):** TIH and set 4.5" CIBP or cement retainer at 1100'. Mix 12 sxs Class B cement and spot a balanced plug inside the casing above the CIBP or cement retainer to isolate the L. San Jose perforations. TOH and LD tubing.

# Jicarilla 462 #1

## Current

East Blanco PC/ Cabresto Canyon; Tertiary

1190' FSL & 1081' FWL, Section 22, T-30-N, R-3-W, Rio Arriba County, NM

Long: \_\_\_\_\_ / Lat: \_\_\_\_\_ / API 30-039-24110

Today's Date: 8/21/12

Spud: 1/5/87

Wildcat Comp: 5/9/06

PC Comp: 4/11/05

Tertiary Comp: 4/27/05

Elevation: 7134' GI

7147' KB

San Jose @ 0'

Nacimiento @ 1945' \*est

Ojo Alamo @ 3107'

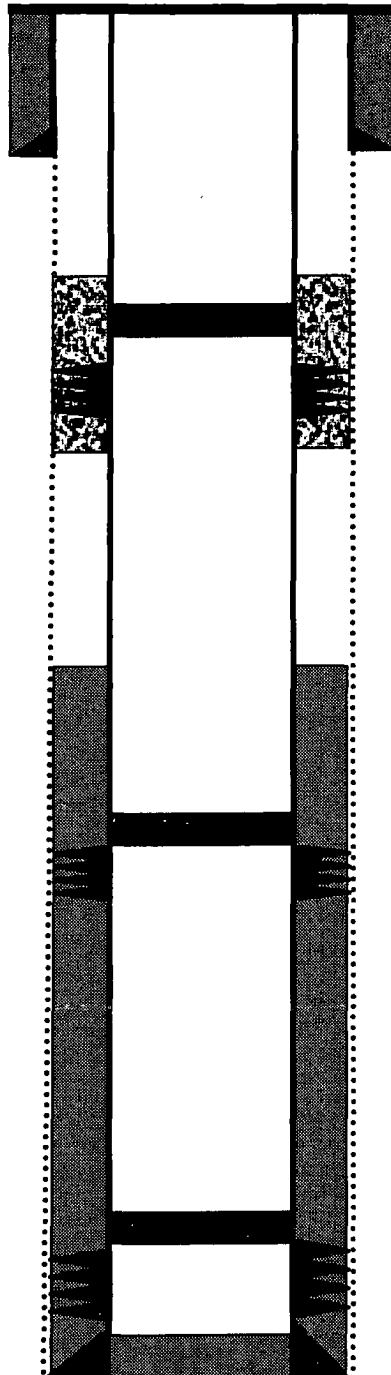
Kirtland @ 3342'

Fruitland @ 3496'

Pictured Cliffs @ 3609'

9-7/8" Hole

6-3/4" Hole



7-5/8" 26.4#, Casing set @ 138'  
Cement with 60 sxs, circulated to surface

TOC @ 1110' (4/23/07 CBL)  
CIBP set at 1120' (2007)

L. San Jose Perforations:  
1132' - 1145'

Perforate @ 1197' and  
squeezed with 126 cf cement  
(2007)

TOC @ 2870' (4/18/07 CBL)

Composite plug set at @ 3095' (2007)  
Ojo Alamo Perforations:  
3124' - 3150'

CIBP set at 3595' (2007)

Pictured Cliffs Perforations:  
3611' - 3700'

4.5" 11.6#, J-55 Casing @ 4116'  
Cement with 200 sxs

4145' TD  
1120' PBTD

# Jicarilla 462 #1

## Proposed P&A

East Blanco PC/ Cabresto Canyon; Tertiary

1190' FSL & 1081' FWL, Section 22, T-30-N, R-3-W, Rio Arriba County, NM

Long: \_\_\_\_\_ / Lat: \_\_\_\_\_ / API-30-039-24110

Today's Date: 8/21/12

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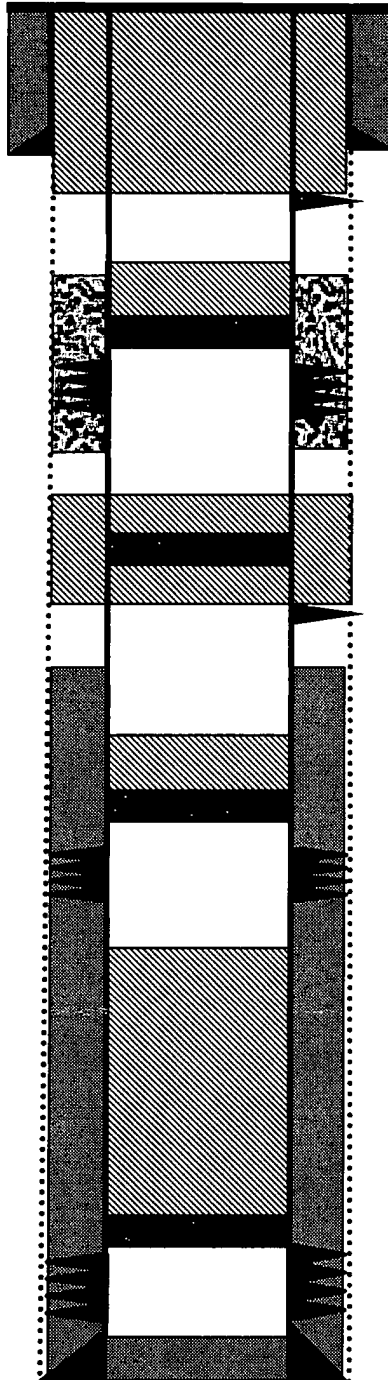
Kirtland @ 3342'

Fruitland @ 3496'

Pictured Cliffs @ 3609'

9-7/8" Hole

6-3/4" Hole



Plug #5: 188' - 0'  
Class B cement, 50 sxs

7-5/8" 26.4#, Casing set @ 138'  
Cement with 60 sxs, circulated to surface

Perforate @ 188'

TOC @ 1110' (4/23/07 CBL)

CIBP @ 1100'

L. San Jose Perforations:  
1132' - 1145'

Perforate @ 1197' and  
squeezed with 126 cf of cement  
(2007)

CR @ 1945'

Perforate @ 1995'

TOC @ 2870' (4/18/07 CBL)

CIBP @ 3074'

Ojo Alamo Perforations:  
3124' - 3150'

CIBP set at 3595' (2007)

Pictured Cliffs Perforations:  
3611' - 3700'

4.5" 11.6#, J-55 Casing @ 4116'  
Cement with 200 sxs

Plug #2: 3074' - 2974'  
Class B cement, 12 sxs

Plug #3: 1995' - 1895'  
Class B cement, 36 sxs:  
12 inside and 24 outside

Plug #1: 3595' - 3292'  
Class B cement, 27 sxs

4145' TD

**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: 1 Jicarilla 462

**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) Place the Nacimiento plug from 1918' – 1818' inside and outside the 4 ½" casing.
  - b) 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.