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Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 04 2015

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
Bureau of Land Management5. Lease Serial No.
MDA 701-98-0013, Tract 26. Allottee, or Tribe Name
Jicarilla Apache Tribe

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

8. Well Name and No.

Jicarilla 29-02-33 #339. API Well No.
30-039-29387

10. Field and Pool, or Exploratory Area

Burro Canyon Tertiary

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

P.O. Box 249 Bloomfield, NM 87413

3b. Phone No. (include area code)

(505) 634-5104

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

2140' FSL & 2087' FEL NW/SE Section 33 T29N R2W (UL: 2)**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 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.)

Per the Notice of Intent dated 4-20-2015, to plug and abandon Jicarilla 29-02-33 #33, Black Hills Gas Resources is submitting the attached plug and abandon procedure.

A closed loop system will be use.

OIL CONS. DIV DIST. 3

MAY 11 2015

SEE ATTACHED FOR
CONDITIONS OF APPROVALBLM'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

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

Daniel Manus

Regulatory Technician II

Title

Signature

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy Salvors

Title PE

Date 5/7/2015

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 FFO

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 21, 2015

Jicarilla 29-02-33 No. 33

East Blanco PC / Burro Canyon Tertiary

2140' FSL, 2087' FEL, Section 33, T29N, R2W, Rio Arriba County, NM

API 30-039-29387 / 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 3011'.
Packer: Yes _____, No X, Unknown _____, Type _____.
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

Plug #1 (Pictured Cliffs interval and Fruitland, Kirtland, Ojo Alamo tops and Nacimiento perforations, 3590' – 2812'): RIH and tag existing composite BP at 3590'. Mix 100 sxs Class B cement and spot a plug inside the casing above the CIBP to isolate the PC interval and cover through the Nacimiento perforations. PUH and WOC. TIH and tag 50' above top perforations. If necessary top off as appropriate. Pressure test casing to 800 psi. If casing does not test then spot or tag subsequent plugs as appropriate.

See COA

4. **Plug #2 (Nacimiento top, 2269' – 2169'):** Mix 17 sxs Class B cement and spot a balanced plug inside the casing to cover the Nacimiento top. TOH.
5. **Plug #3 (8-5/8" Surface casing shoe, 333' - Surface):** Perforate 3 squeeze holes at 333'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 105 sxs Class B cement and pump down the 5.5" casing to circulate good cement to surface. Shut in well and WOC.
6. ND BOP and cut off wellhead below surface casing flange. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

Jicarilla 29-02-33 No. 33

Current

East Blanco PC/ Burro Canyon Tertiary

2140' FSL & 2087' FEL, Section 33, T-29-N, R-2-W, Rio Arriba County, NM

Long: _____ / Lat: _____ / API 30-039-29387

Today's Date: 4/20/15

Spud: 03/04/06

Comp: 04/14/06

Elevation: 7350' GI
7363' KB

12-1/4" Hole

8-5/8" 24#, J-55 Casing set @ 283'
Cement with 195 sxs, circulated to surface

TOC @ 800' (2006 CBL)

San Jose Perforations:
1447' - 1474' (sqz'd 75 sxs cement (2006)

Nacimiento @ 2219'

2-3/8" tubing at 3011'
(94 jts, 4.7#, J-55 SN and WL Reg)

Nacimiento Perforations:
2862' - 3105'

Ojo Alamo @ 3290'

Kirtland @ 3383'

Fruitland @ 3458'

Pictured Cliffs @ 3642'

Composite BP at 3590' (2006)

Pictured Cliffs Perforations:
3646' - 3685'

7-7/8" Hole

5.5", 17#/15.5#, J-55 Casing @ 3791'
Cement with 595 sxs
TOC @ 800' (CBL)

3824' TD
3744'PBD

Jicarilla 29-02-33 No. 33

Proposed P&A

East Blanco PC/ Burro Canyon Tertiary

2140' FSL & 2087' FEL, Section 33, T-29-N, R-2-W, Rio Arriba County, NM

Long: _____ / Lat: _____ / API 30-039-29387

Today's Date: 4/20/15

Spud: 03/04/06

Comp: 04/14/06

Elevation: 7350' GI
7363' KB

12-1/4" Hole

8-5/8" 24#, J-55 Casing set @ 283'
Cement with 195 sxs, circulated to surface

Perforate @ 333'

Plug #3: 333' - 0'
Class B cement, 105 sxs

TOC @ 800' (2006 CBL)

San Jose Perforations:
1447' - 1474' (sqz'd 75 sxs cement (2006)

Nacimiento @ 2219'

Plug #2: 2269' - 2169'
Class B cement, 17 sxs

Nacimiento Perforations:
2862' - 3105'

Ojo Alamo @ 3290'

Plug #1: 3590' - 2812'
Class B cement, 100 sxs
(note: additional 50'
excess due to Nacimiento
perfs)

Kirtland @ 3383'

Fruitland @ 3458'

Pictured Cliffs @ 3642'

Composite BP at 3590' (2006)

Pictured Cliffs Perforations:
3646' - 3685'

7-7/8" Hole

5.5", 17#/15.5#, J-55 Casing @ 3791'
Cement with 595 sxs
TOC @ 800' (CBL)

3824' TD
3744'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 29-02-33 #33

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."
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) Bring the top of plug #2 to 2120 ft. to cover the Nacimiento top. Adjust cement volume accordingly.

Note: CBL ran 8/27/2006 is on file and will be used for plugging purposes.

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.