

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  
**P.O. Box 249 Bloomfield, NM 87413**

3b. Phone No. (include area code)  
**505-634-1111**

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

OCT 10 2007

Bureau of Land Management  
Farmington Field Office

5. Lease Serial No.  
**Contract 451**

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 451 #1**

9. API Well No.  
**30-039-23342**

10. Field and Pool, or Exploratory Area  
**Basin Fruitland Coal/ Blanco Mesa Verde**

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

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 or pertinent markers and sands. 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 reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

**Black Hills Gas Resources MIRU workover rig and began the plug and abandonment of this well 9-19-07. The well was P&Aed as per the attached report dated 9-28-07.**

RCVD OCT 19 '07

OIL CONS. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

**Loren Diede**

Title

**Consultant (Agent)**

Signature

Date

**October 10, 2007**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

Title

Date

**OCT 17 2007**

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

**FARMINGTON FIELD 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 10

# **A-PLUS WELL SERVICE, INC.**

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 \* fax: 505-325-1211

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Black Hills Gas Resources, Inc.  
**Jicarilla 451 #1**

September 28, 2007  
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1650' FSL & 1750' FWL, Section 4, T-29-N, R-3-W  
Rio Arriba County, NM  
Lease Number: Jicarilla Contract 451  
API #30-039-23342

## **Plug & Abandonment Report**

Notified JAT - BLM & NMOCD on 9/19/07

### **Work Summary:**

9/19/07 MOL and RU. Open well, no pressure. ND wellhead. NU BOP, test. Shut in well. SDFD.

9/20/07 Open well, no pressure. TIH with 4.75" drill bit, bit sub, 6 – 3.125" drill collars, cross over and 109 joints 2.375" A-Plus workstring and tag existing CR at 3600'. Establish circulation. RU power swivel. Attempt to drill CR at 3600'. Shut down for rig repairs. Shut in well. SDFD.

9/21/07 Open well, no pressure. Establish circulation. Drill on CR at 3600' for 1 hour. Made 1' of hole and broke through. Hang back power swivel. TIH with tubing and tag cement at 4170'. Make up power swivel to tubing and establish circulation. Drill cement from 4170' to 4268' and broke through. Hang back power swivel. TIH and tag CIBP at 5900'. Make up power swivel to tubing and establish circulation. Drill CIBP at 5900' for ½ hour. Made 8' of hole and broke through. Hang back power swivel. TIH with tubing and tag fill at 6320'. Make up power swivel to tubing and establish circulation. Ream down from 6320' to 6350', solid tag at 6350'. Circulate hole at 3 bpm until hole clean. RD and LD power swivel. PUH to 3300'. Shut in well. SDFD.

9/24/07 Check well pressures: tubing, 180 PSI; casing, 50 PSI; bradenhead, 0 PSI. Blow well down to pit. TOH with 2.375" tubing, cross over, 6 – 3.125" drill collars, bit sub and bit.

TIH with tubing with plugging sub and tag CR at 6350'. Load hole with 10 bbls of water. Attempt to pressure test casing, pump 2 bpm at 300 PSI. Bryce Hammond, BLM – JAT, approved procedure change to combine plug #1 and #2.

**Plug #1** with existing CR at 6350', spot 38 sxs Type III cement (51 cf) inside casing from 6350' up to 5978' to cover the CR set at 6350' and fill the Mesaverde perforations.

PUH to 5978'. Load casing with 20 bbls of water, 1/8 returns from tubing. Load tubing with 15 bbls of water. Shut in well and WOC.

TIH with tubing and tag cement high at 5795'. Load casing with 30 bbls of water and circulate out tubing. Wayne Townsend, BLM, to perforate at TOC and attempt block squeeze for Mesaverde plug.

TOH and LD all tubing. Shut in well. SDFD.

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## Work Summary – Continued:

9/25/07 Open well, no pressure. Load hole with 17 bbls of water. Attempt to pressure test casing to 500 PSI, bled down to 200 PSI in 30 seconds. RIH with 5.5" gauge ring; unable to go deeper than 1650'. POH. Note: paraffin on gauge ring. TIH with 5.5" casing scraper to 5790'; stacked out. TOH and LD scraper. RIH with wireline and tag fill at 5790'. PUH 2'. Perforate 3 holes at 5788'. Load hole with 11 bbls of water. Attempt to pressure test casing to 500 PSI, bled down to 200 PSI in 30 seconds. TIH with 5.5" DHS CR and set at 5757'. Load tubing with 10 bbls of water. Pressure test tubing to 1500 PSI, held OK. Sting out of CR and out 5.5" casing to isolate the Mesaverde interval. Circulate 1 bbl of water out casing valve. Attempt to pressure test casing to 500 PSI, bled down to 200 PSI in 30 second. Sting into CR. Establish rate 1 bpm at 1000 PSI.

**Plug #2** with CR at 5757', mix and pump 86 sxs Type III cement (114 cf), displace cement to EOT. Sting into CR. Pump 75 sxs below CR. Final rate ½ bpm at 1500 PSI. Sting out of CR. Leave 11 sxs above CR from 5757' up to 5649'. PUH with tubing. Shut in well and WOC overnight. SDFD.

9/26/07 Open well, no pressure. TIH and tag cement at 5634'. TOH with tubing. Load hole with 15 bbls of water. Perforate 3 squeeze holes at 4840'. Attempt to pressure test casing to 500 PSI, bled down to 200 PSI in 30 seconds. RIH with 5.5" PlugWell wireline CR and set at 4790'. Load tubing with water and circulate 1 bbl of water out the casing valve. Attempt to pressure test casing to 500 PSI, bled down to 200 PSI in 30 seconds. Sting into CR. Establish rate 1 bpm at 800 PSI. Sting out of CR.

**Plug #3** with CR at 4790, mix and pump 44 sxs Type III cement (59 cf) with 2% CaCl<sub>2</sub>, displace cement to EOT. Sting into CR. Pump 33 sxs below CR and outside the 5.5" casing. Sting out of CR. Leave 11 sxs above CR from 4790' up to 4682' to cover the Chacra top.

PUH and WOC. TIH with tubing and tag cement at 4675'. PUH to 4207'. Load hole with 1 bbl of water. Attempt to pressure test casing to 500 PSI, bled down to 200 PSI in 30 seconds.

**Plug #4** spot 70 sxs Type III cement (93 cf) inside casing from 4207' up to 3516' to cover the Pictured Cliffs top and to fill the Fruitland perforations and cover the Fruitland top.

PUH to 3580'. Reverse circulate 20 bbls out tubing, leaving TOC at 3580'. PUH with tubing. Shut in well and WOC overnight. SDFD.

9/27/07 Open well, no pressure. TIH and tag cement low at 3620'. TOC approved by B. Hammond, BLM – JAT. Load hole with 1 bbl of water. Pressure test casing to 800 PSI, held OK for 5 minutes. PUH to 3535'. TOH with tubing. Perforate 3 holes at 3570'. Load casing with 6 bbls of water. Pressure test casing to 800 PSI, bled down to 500 PSI on 30 seconds. TIH with 5.5" DHS CR and set at 3535'. Pressure test tubing to 1500 PSI, held OK. Release and sting out of CR. Pressure test casing to 800 PSI, held OK. Sting into CR. Establish rate ½ bpm at 1500 PSI.

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## **Work Summary – Continued:**

9/27/07 Procedure change approved by S. Mason, BLM, to cover the Kirtland formation with inside plug and attempt inside/outside on Ojo Alamo top.

**Plug #5** spot 12 sxs Type III cement (16 cf) inside casing from 3535' up to 3417' to cover the Kirtland top.

TOH with tubing. Perforate 3 holes at 3302'. Load hole with 7 bbls of water. Attempt to pressure test casing to 800 PSI, bled down to 500 PSI in 30 seconds. B.

Hammond, BLM – JAT, approved procedure change to cover the perforations with inside plug. TIH with plugging sub to 3353'.

**Plug #6** spot 21 sxs Type III cement (28 cf) inside casing from 3353' up to 3146' to cover the Ojo Alamo top.

PUH with tubing. WOC overnight. SDFD.

9/28/07 Open well, no pressure. TIH and tag cement at 3203'. TOC approved by B.

Hammond, JAT – BLM. TOH with tubing. Load hole with 5 bbls of water. Pressure test casing to 800 PSI, held OK. Perforate 3 holes at 2095'. Establish rate through squeeze holes 1 bpm at 800 PSI. TIH with 5.5" DHS CR and set at 2050'. Pressure test tubing to 1500 PSI. Sting into CR. Establish rate 2 bpm at 1000 PSI. Pressure test casing to 800 PSI, held OK.

**Plug #7** with CR at 2050, mix and pump 43 sxs Type III cement (57 cf), squeeze 32 sxs outside the casing and leave 11 sxs inside casing from 2050' up to 1942' to cover the Nacimiento top.

TOH and LD all tubing. Perforate 3 holes at 574'. Load casing with water. Establish circulation out the bradenhead valve with 8 bbls of water. Establish rate 2 bpm at 800 PSI with 40 bbls of water.

**Plug #8** mix and pump 167 sxs Type III cement (221 cf) down the 5.5" casing from 574' to surface, circulate good cement out the bradenhead valve.

Shut in well and WOC. Dig out wellhead. ND BOP. Monitor atmosphere. Issue Hot Work Permit. Cut off wellhead. Found cement at the surface in the 5.5" casing and in the annulus.

Mix 15 sxs Type III cement and install P&A marker.

RD and MOL.

Bryce Hammond and Waymore Callado, JAT-BLM representatives, were on location.