

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 07 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.*

**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>MDA 701-98-0013, Tract 4</b>
2. Name of Operator <b>Black Hills Gas Resources, Inc.</b>		6. Indian, Allottee, or Tribe Name <b>Jicarilla Apache Tribe</b>
3a. Address <b>P.O. Box 249 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>SHL: 705' FNL &amp; 2245' FEL NW/NE Section 5 T29N R2W (UL: B)</b> <b>BHL: 735' FNL &amp; 55' FWL NW/NW Section 5 T29N R2W (UL: D)</b>		8. Well Name and No. <b>Jicarilla 29-02-05 #4</b>
		9. API Well No. <b>30-039-27596</b>
		10. Field and Pool, or Exploratory Area <b>East Blanco Pictured Cliffs</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 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 checked="" 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 reclamentation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Black Hills Gas Resources plugged Jicarilla 29-02-05 #4 per attached procedure.**

**Attachment: Plug and abandonment report**

**Approved as to plugging  
of the well bore. Liability  
under bond is retained until  
surface restoration is completed.**

ACCEPTED FOR RECORD

DEC 08 2015

FARMINGTON FIELD OFFICE  
BY: *[Signature]*

OIL CONS. DIV DIST. 3  
DEC 14 2015

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed) <b>Daniel Manus</b>		
Title <b>Regulatory Technician II</b>		
Signature <i>[Signature]</i>	Date <b>December 7, 2015</b>	
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved by	Title	Date
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.		
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 RV



705' FNL and 2245' FEL, Section 5, T-29-N, R-2-W  
Rio Arriba County, NM  
Lease Number: MDA 701-98-0013  
API #30-039-27596

**Plug and Abandonment Report**  
Notified Jicarilla BLM, BLM & NMOCD on 10/28/15

**Plug and Abandonment Summary:**

- Plug #1** with CR at 3230' spot 32 sxs (37.76 cf) Class B cement from 3230' to 2948' to cover the Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops. Tag TOC at 2973'.
- Plug #2** with perfs at 2329' & CR at 2281' spot 65 sxs (76.7 cf) Class B cement from 2329' to 2025' to cover the Nacimiento top. 1) pump 36 sxs below CR (6 sxs inside and 30 sxs outside 5-1/2" casing), 2) sting out CR and leave 29 sxs from 2281' to 2025', cement pumped with 3% CaCl. Tag TOC at 2021'.
- Plug #3** with CR at 1372' spot 24 sxs (28.32 cf) Class B cement from 1372' to 1161' to cover the San Jose perfs.
- Plug #4** with 119 sxs (140.42 cf) Class B cement from 300' to surface to cover the 8-5/8" shoe and surface. Circulate good cement out BH valve.
- Plug #5** with 20 sxs Class B cement and install P&A marker with coordinates N 36° 45' 34" / W 107° 3' 54".

**Plugging Work Details:**

- 10/29/15 MIRU A-Plus rig #14. SITP 45 psi, SICP 50 psi & SIBHP 10 psi. Blow well down. ND WH. NU BOP & function test. TOH & LD 2-3/8" tubing. PU & TIH w/ Weatherford on/off tool on 2-3/8" workstring. Tag fill at 3705'. Reverse out at 3 bpm, 250 psi, circulate down to 3712' & stacked out. Attempt to work onto RBP, no J action. TOH to 3408'. SDFD.
- 10/30/15 Tubing & casing on vacuum. SIBHP 0 psi. Function test BOP. TOH to 1459'. Tubing & casing unloading. Pump 30 bbls of water down tubing to kill well. Finish TOH, LD on/off tool. PU 4-3/4" wash shoe assembly. TIH to 1529'. Well unloading. Pump 10 bbls down tubing. TIH to 1904'. Well unloading, blow casing & tubing to pit 1 hour. Pump 35 bbls down casing and 10 bbls down tubing to kill well. TIH to 3239', stacked out. Roll hole w/ 80 bbls to circulate gas out. Pull 12K# over to get off bottom. TOH, LD wash shoe. PU on/off tool. TIH & tag at 3239'. Attempt to tie onto RBP, no J action. TOH LD 4 jts tubing. SDFD.
- 11/2/15 Tubing & casing on vacuum, SIBHP 0 psi. Function test BOP. Load hole. TIH & tag at 3239'. No J action. TOH. Wait on orders. Receive OK by B. Hammond and R. Velarde, Jicarilla BLM, T. Salyers, BLM & B. Powell, NMOCD to set CR at 3230', attempt to establish rate below CR & spot inside plug. TIH w/ bit & scraper to 1843'. Well unloading pump 50 bbl down tubing, returns gas cut. TIH to 2031'. Pump 66 bbl down tubing returns gas cut. TIH to 2156'. Pump 65 bbls down tubing to kill well. TIH to 3230'. Pump 40 bbl down tubing. SI well. SDFD.
- 11/3/15 SITP on vacuum, SICP 50 PSI and SIBHP 0 PSI. Blow down well. Roll hole w/ 77 bbl. Function test BOP. TOH. RU A-Plus wireline. Set CR at 3230'. TIH with stinger on tubing to CR, stay stung out. Load tbg w/ 1.5 bbl pump 5 bbl ahead total. Sting in CR at 3230', attempt to establish rate below CR. Pressured up to 1250 PSI, no bleed off. Sting out. Spot **plug #1** with calculated TOC at 2948'. TOH w/ tubing & LD stinger. SDFD.

**Plugging Work Details (continued):**

- 11/4/15 SICIP on vacuum. SIBHP 0 PSI. Function test BOP. TIH & tag plug #1 at 2973'. TOH. Load hole w/ 16 bbls. Perforate 3 holes at 2329'. TIH & set CR at 2281'. Sting in CR & establish rate of 2 bpm at 500 PSI. Spot **plug #2** with calculated TOC at 2025'. TOH. SI well. WOC. TIH and tag plug #2 at 2021'. TIH & set CR at 1372'. Circulate well clean. Pressure test casing to 800 PSI, OK. Spot **plug #3** with calculated TOC at 1161'. TOH. SDFD.
- 11/5/15 SICIP 0 psi, SIBHP 0 psi. Function test BOP. Perforate 3 holes at 300'. Establish rate down csg & out BH valve w/ 45 bbls total. ND BOP. NU WH. Spot **plug #4** with TOC at surface. Circulate good cement out BH valve. Dig out WH. Write Hot Work Permit. Cut off WH. Found cement at cut off point in 5-1/2" and 8-5/8" casings. Spot **plug #5** and install P&A marker with coordinates N 36° 45' 34" / W 107° 3' 54". RD & MOL.

Rod Velarde, Jicarilla BLM representative, was on location.

Bryce Hammond, Jicarilla BLM representative, was on location.