

RECEIVED

APR 15 2013

Form 3160-5  
(August 2007)

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

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 460</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>1,039' FSL &amp; 1,840' FEL Sec. 16 T30N R3W</b>		8. Well Name and No. <b>Jicarilla 460-16 #5</b>
		9. API Well No. <b>30-039-25864</b>
		10. Field and Pool, or Exploratory Area <b>Cabresto Canyon Tertiary</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 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 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 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.)

**Black Hills Gas Resources has plugged & abandoned this well as follows: See Attachment**

RCVD APR 18 '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

*April 15, 2013*

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

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.

Office

ACCEPTED FOR RECORD

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)

APR 16 2013

NMOCD IV

FARMINGTON FIELD OFFICE  
TV *SM*



## Black Hills Gas Resources

### Jicarilla 460-16 #5

Rio Arriba County, New Mexico

4/1/13: 11:30 AM, Notified BLM, NMOCD of upcoming operations.

4/2/13: MIRU A Plus Well Service Rig #14. SITP 0 psi. SICP 65 psi. SIBHP 0 psi. Set up H2S monitors. Bled well down. No H2S monitored. Pump 40 bbl down csg. TOH with rods & pump. ND WH. NU & function test BOP. SDFN.

4/3/13: SITP 0 PSI. SICP 0 psi. SIBHP 0 psi. No H2S monitored. TOH, LD 2 3/8" tbg. PU, TIH with washover shoe, jars, collars on 2 7/8" workstring. SDFN.

4/4/13: SITP 3 psi. SICP 80 psi. SIBHP 0 psi. Blow well down, no H2S. TIH. Unload hole with air foam. Tag packer fish at 3118'. Mill on fish. Made 6" in 2 hrs. Made 2" in 1 hr. Made no hole in 1.75 hrs. Fish appears to be turning. TOH, inspect shoe. Shoe in good condition. SDFN.

4/5/13: SICP 150 psi. SIBHP 0 psi. Blow well down, no H2S. PU, TIH with spear, jars, collars & 16 jts workstring. Shut down & wait on orders. Received approval from Rod Velarde, JAT-BLM, Steve Mason, BLM & Charlie Perrin, NMOCD at 9:15 am to attempt to squeeze cement thru stuck packer fish at 3118'. TOH with fishing tools. TIH with rental packer. Set at 3104'. Pump 32 bbl down tbg. Establish injection rate at 4 bpm, 800 psi. TOH with packer. TIH, set cmt retainer at 3104'. Pressure test tbg to 1750 psi. Sting out. Pump 15 bbls, no change on light blow on csg. Sting into CR. Mix & pump **Cmt Plug #1** (78 sx, 92.04 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) from 3359' to 2928' to isolate PC, Fruitland, Kirtland, & cover OA interval. Pumped plug #1 as follows - pump 58 sx, displace all cmt below CR at 3104', sting out, pump 19 bbl ahead, spot 20 sx cmt on top of CR, displace with 9.9 bbls. TOH. SDFWE. Rod Velarde, JAT-BLM on location.

4/8/13: SICP 75 psi. SIBHP 0 psi. Blow well down, no H2S. TIH. Tag plug #1 at 3057'. Receive ok by Rod Velarde & Bryce Hammond, JAT-BLM, & Brandon Powell, NMOCD at 9:15 am that TOC was ok & to spot plug #2. PUH. Mix & spot **Cmt Plug #2** (40 sx, 47.2 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt, 2% CaCl<sub>2</sub>) inside csg from 2178' to 1825' to cover Nac top. TOH. WOC. Load bradenhead with 1/8 bbl. Pressure test to 300 psi, ok. TIH. Tag plug #2 at 1848'. TOH. TIH, set cmt retainer at 1655'. Release tbg from cmt retainer. Load 5 1/2" csg with 18 bbls & circulate hole clean. Pressure test csg to 750 psi, held ok 5 min. Mix & spot **Cmt Plug #3** (20 sx, 23.6 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) inside csg from 1655' to 1479 to cover San Jose perms. TOH. SDFN.

4/9/13: SICP 0 psi. SIBHP 0 psi. TIH. Tag plug #3 at 1499'. TOH to 602'. Mix & pump **Cmt Plug #4** (92 sx, 108.6 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) from 602' to surface. Pump 80 sx, circ good cmt out csg valve. TOH to 73'. Pump 12 sx to circulate good cmt out csg valve again. ND BOP. Cut off wellhead. TOC 4' below cutoff in 5 1/2" csg & 10' below cutoff in 8 5/8" csg. RD rig. Mix & pump 22 sx 15.6# class B cmt to top off csgs & set DH marker. Release A Plus Rig #14. Rod Velarde, JAT-BLM on location