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

MAY 28 2013

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010SUNDRY 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 Management

571 Lease Serial No.

Jicarilla Contract 460

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 460-16 #4

9. API Well No.

30-039-25785

10. Field and Pool, or Exploratory Area

East Blanco Picture Cliffs

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

3200 N 1st St, Bloomfield, NM 87413

3b. Phone No. (include area code)

(505) 634-5104

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

840' FSL & 1180' FWL SW/SW Section 16 T30N R3W (UL :M)

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 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 has plugged & abandoned this well as follows:

See Attachment.

RCVD JUN 4 '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

May 28, 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

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)

MAY 30 2013

NMOCD
FYFARMINGTON FIELD OFFICE
5V

**Jicarilla 460-16 #4
Plug and Abandon
Subsequent Report**

5/15/13: 12:30 PM, Notified BLM, JAT-BLM, & NMOCD of upcoming operations.

5/15/13: MIRU A Plus Well Service Rig #14. McGuire Industries rep set up H2S monitors. SITP 100 psi. SICP 485 psi. SIBHP 2 psi. Bled well down. No H2S monitored from tbg or csg. 430 ppm H2S monitored from BH. Blow well down to pit. 8 ppm H2S monitored from csg at pit. Pump 5 gal H2S scavenger (bleach) mixed in 15 bbl wtr down tbg & 5 gal scavenger mixed in 25 bbl down csg. SDFN.

5/16/13: SITP 5 psi. SICP 30 psi. SIBHP 2 psi. No H2S monitored from tbg or csg. 75 ppm H2S monitored from BH. Blow well down to pit. Load BH with 3.75 bbl wtr & 1 gal scavenger (bleach). Pressure test BH with 300 psi. Bled to 250 psi in 1 min. Pump 20 bbl down csg. ND WH. NU & function test BOP. Release pkr. TOH with 2 3/8", 4.7#, J-55 prod tbg & pkr. TIH with 2 3/8" workstring. Tag solid at 3841'. Receive approval from T. Waupekenay & B. Hammond JAT-BLM at 2:00 PM & B. Powell NMOCD at 2:45 PM to pump plug #1 from 3841'. Load hole with 32 bbl, pump 40 bbl total. Mix & pump **Cmt Plug #1** (72 sx, 84.96 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) from 3841' to 2892' to cover PC, FC, Kirtland, Ojo Alamo. TOH to 1042'. SDFN. Tony Waupekenay, JAT-BLM on location.

5/17/13: SITP 0 psi. SICP 0 psi. SIBHP 0 psi. No H2S. TIH. Tag plug #1 at 3199'. Load hole with 5.5 bbl, circ hole with 51 bbl total. Pressure test csg with 900 psi. Held ok 5 min. Receive approval from T. Waupekenay & B. Hammond JAT-BLM & B. Powell NMOCD at 8:45 AM on plug #1 top & continue to plug #2. TOH. Load hole with 5 bbl. MIRU Blue Jet Wireline. Run gauge ring. Tag up at 3190'. Run sector CBL. Stack out at 1862'. Run CBL from 1862' to surface. RU Scientific Drilling. Run gyroscopic survey from 3180' to surface. Receive approval from T. Waupekenay & B. Hammond JAT-BLM & B. Powell NMOCD at 1:30 PM to pump inside plug #2 at Nac top. B. Powell also gave ok on surface perms per BLM approval. TIH to 2079'. Pump 5 bbl. Mix & pump **Cmt Plug #2** (16 sx, 18.88 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) from 2079' to 1869' to cover Nac top. TOH. SDFWE. Tony Waupekenay, JAT-BLM on location.

5/20/13: SICP 0 psi. SIBHP 0 psi. No H2S monitored. Load hole with 3 bbl. Pressure test csg to 900 psi, held ok. Received ok from T. Waupekenay JAT-BLM, Steve Mason BLM, B. Powell NMOCD at 7:45 AM to perf at 616' & 120'. RU wireline. Perf 6 holes at 616'. Establish rate down csg at 1/2 bpm, 900 psi. Perf 4 holes at 120'. Establish rate down csg at 2 bpm, 900 psi. Pump 20 bbls, no returns up BH. Pressure up on BH to 1000 psi. Bled to 300 psi in 1 min. Bled to 250 psi in 2 min. Received ok from T. Waupekenay JAT-BLM, Steve Mason BLM, B. Powell NMOCD at 9:45 AM to perf at 85'. Perf 4 holes at 85'. Establish circulation down csg, up BH. Pump 4 bbls. SI BH. Establish rate down csg at 3 bpm, 700 psi. TIH to 698'. Pump 3 bbl down tbg & up csg & BH. Mix & pump **Cmt Plug #3** (133 sx, 156.94 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) from 698' to surface to cover 8 5/8" csg shoe & surface. Pumped 77 sx to circ good cmt out csg & BH. TOH. Pump 8 sx down csg to circ good cmt out BH again. SI BH. Sqz 48 sx down csg. FP 500 psi. Wash up equipt. Pump 1/4 bbl down csg to pressure up well. Left 300 psi on csg. SWI. SDFN. Tony Waupekenay, JAT-BLM on location.