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Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUL 31 2012

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
☐ 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)
790' FSL & 890' FWL SW/SW, Section 21, T30N R3W (UL: M)

Office Serial No.

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 #2

9. API Well No.

30-039-24112

10. Field and Pool, or Exploratory Area

E. Blanco PC & Cabresto Canyon Tert.

11. County or Parish, State

Rio Arriba County, New Mexico

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 AUG 3 '12
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

7/17/2012

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

AUG 01 2012

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)

NMOCD

AV



Black Hills Gas Resources

Jicarilla 460 #2

Surface Location: 790' FSL 890' FWL (SW/SW)

Sec.21 T30N R3W

Lease: Contract 460

Plugged & abandoned Procedure

- 7/03/12: 9:15 AM, Notified BLM, NMOCD, JAT-BLM of upcoming operations.
- 7/05/12: MIRU A Plus Well Service Rig #5. SICP 0 PSI & SIBHP 0 PSI. Dig out BH valve. No csghead, 7 5/8" folded in & welded to 4 1/2" csg. ND WH. NU BOP & function test. PU & TIH with bit, collars & workstring. SDFN.
- 7/06/12: SITP 0 psi. SICP 0 psi. SIBHP 0 psi. MI H2S trailer. Ream 3011-3025'. Drill out CIBP at 3025'. Tag at 3204'. Drill on CIBP junk & CBP. SDFN.
- 7/09/12: SITP & SICP on vac. SIBHP 0 psi. 0 H2S. TOH. Bit missing cones. Run magnet on sandline, 5 trips. Recover iron & steel. Run magnet on workstring. No recovery. SDFN.
- 7/10/12: SICP on vac. SIBHP 0 psi. TIH with mill to 3206'. Drill out CBP. Circ well at 3 bpm. Losing 1 bpm to well. TIH & tag at 3661'. WOO. Receive approval from Brandon Powell, NMOCD & Bryce Hammond, BLM at 2:30 PM to spot plug # 1 from 3661'. TOH with bit. SDFN.
- 7/11/12: SICP on vac. SIBHP 0 psi. TIH. Receive approval from Brandon Powell, NMOCD & Bryce Hammond, BLM at 9:00 AM to spot plug # 1 from 3661'. Mix & spot **Cmt Plug #1** (32 sx, 37.8 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt, 2% CaCl2) inside csg from 3661' to 3228'. TOH. WOC. Tag plug #1 at 3264'. Receive approval from Brandon Powell, NMOCD & Bryce Hammond, BLM at 2:00 PM to combine plugs #2 & #3. TIH, set 4 1/2" CR at 3174'. Test tbg to 1500 psi, ok. Sting out. Mix & spot **Cmt Plug #2** (37 sx, 43.7 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) inside csg from 3174' to 2674'. TOH. SDFN. Bryce Hammond, JAT-BLM on location.
- 7/12/12: SICP 0 psi. SIBHP 0 psi. TIH, tag plug #2 at 2720'. TOH. Load 4 1/2 csg with 6 1/4 bbls. Bled 700 psi to 550 psi in 1 min. Perf csg at 1976' with 3 holes. Est rate down csg at 1 bpm, 650 psi. TIH, set 4 1/2" CR at 1945'. Test tbg to 1500 psi, ok. Sting out. Press test csg to 750 psi, held ok. Sting into CR. Mix & pump **Cmt Plug #3** (39 sx, 46 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt). Pump 27 sx below CR, 1 bpm, 600 psi final. Sting out. Leave 12 sx inside csg from 1945' to 1783'. TOH. Load csg with 3 bbls. Test csg to 700 psi, held ok. Perf csg at 191' with 3 holes. Est rate thru perfs at 2 bpm, 600 psi. Est circ out BH valve with 4 bbls. Mix & pump **Cmt Plug #4** (49 sx, 57.8 cu ft, 15.6 ppg, 1.18 yield, class 'B' cmt) from 191' to surface. Circ cmt returns out BH valve. WOC. SDFN. Bryce Hammond, JAT-BLM on location.
- 7/13/12: TOC at 6' in 4 1/2 csg. ND BOP. Cut off wellhead. TOC in 4 1/2" x 7 5/8" annulus at surface. RD rig. Mix & pump 10 sx, 11.8 cu ft, 15.6# class B cmt & set DH marker. Release A Plus Rig # 5. Bryce Hammond, JAT-BLM on location.