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

Farmington Field Office

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		2. Lease Serial No. <b>Jicarilla Contract 457</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>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: 775' FSL &amp; 545' FEL SE/SE Section 4 T30N R3W (UL: P)</b> <b>BHL: 1181' FSL &amp; 615' FEL SE/SE Section 5 T30N R3W (UL: P)</b>		8. Well Name and No. <b>Jicarilla 457-04 #144</b>
		9. API Well No. <b>30-039-30100</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 reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

See attachment for plug and abandonment summary report.

OIL CONS. DIV DIST. 3

JUN 04 2015

ACCEPTED FOR RECORD

JUN 02 2015

FARMINGTON FIELD OFFICE  
BY: TL SalvorsApproved as to plugging  
of the well bore. Liability  
under bond is retained until  
surface restoration is completed.

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)

Daniel Manus

Regulatory Technician II

Title

Signature

Date

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)

NMOCDV

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Black Hills Gas Resources  
**Jicarilla 457-04 #144**

775' FSL and 545' FEL, Section 4, T-30-N, R-3-W  
Rio Arriba County, NM  
Lease Number: Jicarilla Contract 457  
API #30-039-30100

**Plug and Abandonment Summary:**

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**Plug #1** with CIBP at 4134' spot 137 sxs (161.66 cf) Class B cement from 4134' to 3403' to isolate the PtC and Fruitland intervals. Tag TOC at 3440'. ✓

**Plug #2** with 89 sxs (105.02 cf) Class B cement from 3398' to 2923' to cover the Kirtland and Ojo Alamo tops. ✓

**Plug #3** with 52 sxs (61.36 cf) Class B cement from 1980' to 1703' to cover the Nacimiento top. ✓

**Plug #4** with squeeze holes at 100' spot 85 sxs (100.3 cf) Class B cement 346' to surface in 7" casing and 100' to surface in 9-5/8" casing. 1) Pump 81 sxs to circulate good cement out casing and BH valve. 2) TOH LD all tubing and RU pump to 7" casing valve. 3) Pump 4 sxs to circulate good cement out BH valve again. ✓

**Plug #5** with 24 sxs Class B cement fill casing and set P&A marker at 36° 50' 9" N / W 107° 8' 54". ✓

**Plugging Work Details:**

- 4/27/15 Notified B. Hammond Jicarilla BLM, BLM Cement Hotline, & B. Powell NMOCD. ✓
- 4/28/15 Held safety meeting. RU McGuire H2S monitor equipt. Spot in and RU A-Plus #14. Check well pressures: tubing 18 PSI; casing 18 PSI; BH 0 PSI. Blow well down to pit, No H<sub>2</sub>S. TOH and LD rods & pump. ND WH. NU and function test BOP. TOH and LD all tubing. SI Well. SDFD.
- 4/29/15 Held safety meeting. Check well pressures: casing 5 PSI; BH 0 PSI. Open well to pit. No H<sub>2</sub>S. Function test BOP. PU string mill. TIH to 4134'. TOH. TIH with Hydro-set CIBP. Pump 9.5 bbls of water into tubing and pressure up to 1700 PSI. Set Hydro-Set CIBP at 4134'. Circulate hole clean with 165 bbls of water. Pressure test casing to 800 PSI, held ok for 20 minutes. Load BH w/ 4 bbls & pressure test BH to 300 PSI, held ok. **Spot Plug #1.** TOH. SI Well. SDFD.
- 4/30/15 Held safety meeting. Check well pressures: 0 PSI on well. Open well to pit. No H<sub>2</sub>S. Function test BOP. TIH and tag Plug #1 at 3440'. LD tubing to 3398'. **Spot Plug #2.** TOH and LD tubing to 1980'. **Spot Plug #3.** TOH. T. Salyers, BLM, and M. Kuehling, NMOCD, approved procedure change to perf at 100' for plug #4. Perforated at 100' w/ 3 holes. Established circulation through perfs at 2 BPM at 500 PSI. TIH w/ tbg to 346'. **Spot Plug #4.** ND BOP. Dig out WH. Check well for LEL, no LEL. Issue Hot Work Permit. Cut off WH. Cement at surface in 7" and BH. **Spot Plug #5** and install P&A Marker at 36° 50' 9" N / W 107° 8' 54". SI Well and MOL. ✓

✓  
Bryce Hammond, Jicarilla BLM, was on location 4/29/15. Rueben Perea, Jicarilla BLM, was on location 4/30/15. ✓ Gary Johnson, McGuire, was on location.