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Form 3160-5  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFarmington Field Office  
Bureau of Land ManagementFORM 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 464</b>
2. Name of Operator <b>Black Hills Gas Resources</b>		6. If Indian, Allottee, or Tribe Name <b>Jicarilla Apache Tribe</b>
3a. Address <b>3200 N 1st Street Bloomfield, NM 87413</b>	3b. Phone No. (include area code) <b>(505) 634-1111</b>	7. If Unit or C.A. Agreement Name and/or No
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1500' FNL &amp; 920' FEL SE/NE Sec.30 T30N R3W Unit H</b> <b>1650' FNL &amp; 701' FEL SE/NE Sec.29 T30N R3W Unit H</b>		8. Well Name and No. <b>Jicarilla 464-30 #724</b>
		9. API Well No <b>30-039-30278</b>
		10. Field and Pool, or Exploratory Area <b>Basin Mancos</b>
		11. County or Parish, State <b>Rio Arriba, NM</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"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Intermediate</b>	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	<b>Liner</b>	
<input type="checkbox"/> Final Abandonment Notice	<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 reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BP

Please see attached procedures



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

Daniel Manus

Regulatory Technician

Title

Signature

Date

May 12, 2011

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

MAY 13 2011

Approved by

Title

Date

FARMINGTON FIELD OFFICE

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)

NMOC



## **Black Hills Gas Resources**

**Jicarilla 464-30 #724**

Surface Location: 1500' FNL 920' FEL (SE/NE)

Sec.30 T30N R3W

Bottom Hole Location: 1650 FNL 701' FEL (SE/NE)

Sec.29 T30N R3W

Rio Arriba County, New Mexico

Lease: Contract 464

Intermediate Liner

**4/19/11** - Drill out 9 5/8" float shoe at 4237'. Begin drilling 8 3/4" hole.

**4/23/11** - KOP in 8 3/4" hole at 6970'.

**4/30/11** - TD 8 3/4" intermediate hole at 7966'.

**5/3/11** - Ran 7", 23#, N-80 liner. Landed at 7966'. Top of liner at 4047'. Halliburton cemented liner with 575 sx Halcem TM with 0.4% Halad 9, 0.4% Halad 344, 2.5#/bbl Kol-Seal, 0.3% D-Air, 0.2% CFR-2, 13.5 ppg, 1.3 yield, (748 cu ft). POH, LD DP.

**5/4/11** - Pressure test blind and pipe rams and TIW valve to 5000 / 250 psi, annular ram to 3000 / 250 psi, choke manifold, kill line valve and HCR valve to 5000 / 250 psi, kelly valve to 5000 / 250 psi, all ok. Bryce Hammond, BLM, and BLM Farmington office notified of test.

**5/6/11** - Pressure test liner top, leaked off. Squeezed liner top thru sqz pkr with 75 sx 50/50 Poz with 0.1% CFR-3, 0.3% Halad 344, 0.4% Halad 413, 0.3% D-Air 3000, 13.5 ppg, 1.3 yield, (98 cu ft). Bryce Hammond, BLM, and Wayne Townsend, BLM, notified of squeeze operations.

**5/7/11** - Pressure test liner top, leaked off.

**5/8/11** - Set cmt retainer at 3808'. Squeezed liner top with 400 sx 50/50 Poz with 0.3% Halad 344, 0.1% CFR-3, 0.3% D-Air 3000, 0.2% Versa-Set, 1% CaCl<sub>2</sub>, 13.5 ppg, 1.3 yield, (520 cu ft).

**5/9/11** - Drill out cmt retainer and cement to liner top.

**5/10/11** - Drill out cmt and retainer junk in 7" csg. Continue in hole to cmt at 7881'. TOH.

**5/11/11** - BWWC ran CBL from 7617' to surface. Cmt behind 7" liner from bottom logged interval to 4920' and from 4340' to liner top. Cmt behind 9 5/8" csg from liner top to 660'. CBL results approved for going forward by Charlie Perrin, NMOCD. Wilson Testers pressure tested 9 5/8" csg, liner top and 7" csg to 600 psi for 30 min, dropped 30 psi in 30 min, good test.