Submit & Copies To Appropriate District	State of New Me	exico	/ .	Form C-103
Office District I	Energy, Minerals and Natu	ral Resources		Revised June 10, 2003
625 N. French Dr., Hobbs, NM 88240  Energy, Witherland and Watthan Resources  WELL API NO.				
District II	OH GOMGERNA		30-039-27850	
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type	of Lease
District III	1220 South St. Fran	ncis Dr. 🖊	STATE [	FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87	7505	6. State Oil & Ga	
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	· · · · · · · · · · · · · · · · · · ·		Jicarilla Contract	,
87505	•		Jicarma Comract	400
	ES AND REPORTS ON WELLS	}	7. Lease Name or	r Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSAL				
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH				
PROPOSALS.)				
1. Type of Well:	- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		Jicarilla 460-15 No. 2	
	ther San Table			
2. Name of Operator	1889 - 1 <b>9</b> 89		9. OGRID Number	
Black Hills Gas Resources, Inc.	Les entres de	200	013925	
3. Address of Operator		No.	10. Pool name or Wildcat	
350 Indiana St, Suite 400 Golden, CO	80401	<b>X</b>	East Blanco; Picti	ured Cliffs and Cabresto
,		My to J	Canyon, Tertiary	
4. Well Location		69		
	\$ 9 m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Unit Letter D: 515 feet from	the North line and 655 feet from	the West line		1
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Section 15	Township 30N	Range 03W	NMPM	Rio Arriba County
	11. Elevation (Show whether DR			Rio Arriba County
	7278' GL	, KKD, K1, GK, etc.)		
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	propriate Box to Indicate N			
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## C103 Supplemental Information

## Jicarilla 460-15 #2 Production and Pressure Date Pictured Cliffs and Tertiary Formations

The Pictured Cliffs formation was perforated at intervals 3792' – 3796', 3808' – 3812', 3820' – 3824', 3830' – 3834' and 3844' – 3848' with 4 jspf. Based upon pressure data obtained from the breakdown and fracture stimulation treatment the fracturing pressure of the Pictured Cliffs formation at mid-perforation is 2903 psi with a fracture gradient of 0.76 psi/ft. After fracture stimulation and clean up the Pictured Cliffs formation was flow tested for twenty-four hours, 782 MCFPD.

The Tertiary formation was perforated at intervals 1662' – 1668', 1671' – 1673' and 1676' – 1680' with 4 jspf, 2758' – 2762', 2767' – 2769', 3026' – 3028', 3050' – 3051', 3062' – 3064', 3068' – 3070', and 3588' – 3592' with 2 jspf. Based upon the pressure data obtained from the fracture stimulation treatment of the formation the fracturing pressure of the San Jose, Tertiary formation (1662-1680) is 1253 psi at the mid perforation of 1671' with a fracture gradient of 0.75 psi/ft. The Nacimiento, Tertiary formation was not fracture stimulated. Based upon the pressure data obtained from the fracture stimulation treatment of the formation the fracturing pressure of the Ojo Alamo, Tertiary formation (3250-3592) is 2224 psi at the mid perforation of 3421' with a fracture gradient of 0.65 psi/ft. After fracture stimulation of the Tertiary formation a stabilized flow test was conducted for twenty-four hours, 110 MCFPD.

The allocation method that has been agreed upon between Black Hills Gas Resources, Inc. and the Jicarilla Apache Nation is to use a percent based on the initial test for allocation of the produced volumes from the downhole commingled formations. In summary, the following calculations reflect the allocation percentages for the subject well.

Formation Name	Gas Flow Rate (MCFPD)	Water Rate (BWPD)	Allocation Factor
Pictured Cliffs	782		88%
Tertiary	110		12%
Total	892		100.000%