Submit 3 Copies To Appropriate District	State of N	State of New Mexico		Form C-103			
Office District I	Energy, Minerals and Natural Resources		Kevised June 10, 2003				
1625 N. French Dr., Hobbs, NM 88240			WELL API NO), /			
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVA	OIL CONSERVATION DIVISION		30-039-24301			
District III				Indicate Type			
1000 Rio Brazos Rd., Aztec, NM 87410		1220 South St. Francis Dr.		STATE	FEE		
District IV	Santa re,	Santa Fe, NM 87505		6. State Oil &	* "		
1220 S. St. Francis Dr., Santa Fe, NM 87505			مرور و و	Jicarilla Contra	ct 464		
	CES AND REPORTS ON	WELLS	LUCIOS 3	7. Lease Name	or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPOS.	ALS TO DRILL OR TO DEER	NOR PLU	GBACK TO A		or a moraga coment (tunic		
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH							
PROPOSALS.)	(9)	(e) Min 2005 (f)			8. Well Number		
1. Type of Well:	رينياً المالية			Jicarilla 464 No. 7			
Oil Well Gas Well	Other	er (= VML)			O OCDID Ml		
2. Name of Operator		P. Astron.		9. OGRID Number 013925			
Black Hills Gas Resources, Inc.		No.		10. Pool name or Wildcat			
3. Address of Operator	0.00401	X000000		1			
350 Indiana St, Suite 400 Golden, C	O 80401	16 A	ا مناسع کیا گ	East Blanco; Pictured Cliffs and Cabresto			
4 571 11 7 4					Canyon, Tertiary		
4. Well Location							
Heit Lotton D. 1100 foot fro	on the Month line and 1100) foot from	m tha Wast line				
Unit Letter D: 1190 feet fro	m the North line and 1190	J teet from	n the west line				
Section 29	Township 30N	ī	Range 03W	NMPM	Rio Arriba County		
Section 27	11. Elevation (Show whe				Rio Arriba County		
THE PLEASE OF THE PARTY OF THE	7238' GL	ther DR,	KKD, KI, GK, etc.)				
12 Charles	ppropriate Box to Ind	icoto Ni	otura of Notice	Panart or Oth			
		ncate Na					
NOTICE OF INT		_			EPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WORK	< Ц	ALTERING CASING		
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRII	LLING OPNS.	PLUG AND		
		_			ABANDONMENT		
PULL OR ALTER CASING	MULTIPLE		CASING TEST AN	ID 🗆			
	COMPLETION		CEMENT JOB				
OTHER: Downhole Commingle Form	nations 5	2	OTHER:		П		
<u> </u>							
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date							
of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion							
or recompletion.							
Plant Hills Can Banaurana Ing. intan	de to complete the subject	المسا	daymhala aammin	ala tha Cabrasta	Convent Tortions and East		
Black Hills Gas Resources, Inc. intends to complete the subject well and downhole commingle the Cabresto Canyon; Tertiary and East							
Blanco; Pictured Cliffs under Division Order R-11363. All gas production is to be allocated based on initial production tests as 99 percent to the Fact Blanco; Pictured Cliffs formation and I percent to Cabresto Capyon; Tertiany formation. See attached Supplemental Data							
to the East Blanco; Pictured Cliffs formation and 1 percent to Cabresto Canyon; Tertiary formation. See attached Supplemental Data Sheet for the information fracture pressures and flow test. The commingling will not reduce the value of the total remaining production.							
A Sundry Notice form 3160-5 has been sent, notifying the BLM of downhole commingling formations.							
A Sullary Notice form 5100-5 has been	en sem, nomying me beiv	/I OI GOWI	more comminging	iorniacions.			
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DHC 1905 AZ							
I hereby certify that the information above is true and complete to the best of my knowledge and belief.							
SIGNATURE CLL WAY THE TITLE Engineering Technician DATE 5/17/2005							
Type or print name: Allison Newcon	nb E-ma	ail addres:	s: anewcomb@bhe	ep.com Tele	phone No. 720-210-1308		
(This space for State use)				•	· · · · · · · · · · · · · · · · · · ·		
MAY 99 2005							
APPPROVED BY TITLE THE GAS INSPECTOR DIST, SEE DATE DATE							
Conditions of approval, if any:							

C103 Supplemental Information

Jicarilla 464 #7 Production and Pressure Date Pictured Cliffs and Tertiary Formations

The Pictured Cliffs formation was perforated at intervals 3815' – 3818', 3821' – 3828', 3831' – 3841', 3843' – 3848', 3851' – 3858', 3868' – 3876' and 3891' – 3897' with 2 jspf. Based upon pressure data obtained from the breakdown and fracture stimulation treatment the fracturing pressure of the Pictured Cliffs formation at midperforation is 2050 psi with a fracture gradient of 0.65 psi/ft. After fracture stimulation and clean up the Pictured Cliffs formation was flow tested for twenty-four hours, 320 MCFPD.

The Tertiary formation was perforated at intervals 3286' - 3334'with 4 jspf. Based upon the pressure data obtained from the fracture stimulation treatment of the formation the fracturing pressure of the Tertiary formation is 2516 psi with a fracture gradient of 0.76 psi/ft. After fracture stimulation of the Tertiary formation, a stabilized flow test was conducted for twenty-four hours, >1 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	320		99%
Tertiary	>1		1%
Total	320+		100%