NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMIN	ISTRATIV	E APPLIC	ATION C	HECKLIST	Γ
THIS CH	ECKLIST IS M		OR ALL ADMINISTRA				ES AND REGULATIONS
Application	n Acronym		MON NEGONAL PINC	OCCOMO AT THE	SIVIOIOIA ETAFF IIA	OMITAL .	
	SL-Non-Sta [DHC-Dow [PC-Pc	ndard Loca nhole Com ool Commin [WFX-Wate]	mingling] [CT igling] [OLS - erflood Expansio -Salt Water Disp	"B-Lease Comn Off-Leasé Stor on] [PMX-Pre posal] [IPI-inj	ningling] [PL age] [OLM-0 essure Mainten ection Pressur	D-Simultaneous I C-Pool/Lease Co off-Lease Measur ance Expansion of Increase] itive Production	mmingling] ement] i
[1] TY	PE OF AI [A]	Location	ON - Check The - Spacing Unit - . \ \ NSP \ \				
	Check [B]		for [B] or [C] gling - Storage - C	Measurement PLC	PC 🗌 OLS	S 🗆 OLM	
ting in The Albert	[C]		- Disposal - Pres X				
*	[D]	Other: Sp	ecify				
[2] NO	TIFICAT		JIRED TO: - Cl king, Royalty or			Does Not Apply wners	
	[B]	☐ Offs	et Operators, Lea	aseholders or Su	ırface Owner		
	[C]	Appl Appl	lication is One V	Vhich Requires	Published Lega	l Notice	
an in section Liberation	[D]	Notif	fication and/or C reau of Land Manageme	Concurrent Appr nt - Commissioner of Pu	oval by BLM o	or SLO Office	
2010/00/2012	[E]	For a	ll of the above,	Proof of Notific	ation or Publica	ation is Attached,	and/or,
	[F]	☐ Waiv	ers are Attached	1	· id		
			AND COMPLE DICATED ABO		ATION REQU		CESS THE TYPE
approval is a	ccurate ar	id complete		ny knowledge. 🗆	I also understan	d that no action	for administrative will be taken on this
e gran e grande	Note:	Statement m	ust be completed b	y an individual wh	th managerial and	or supervisory capa	icity.
Print or Type	Name		Signature		Title		Date
<i>J.</i>		٠.,					- Dato
		."			e-mail Ad	dress	

District I 1625 N. French Drive, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Road, Azike NM 87410
District IV

TYPE OR PRINT NAME___Allison Newcomb_

E-MAIL ADDRESS_anewcomb@bhep.com_

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE _X_Single Well _Establish Pre-Approved Pools

1220 S. St. Francis Dr., Santa Fe, NM 87505 1 5 6 2005 APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE ____ Yes _X_No

clack Hills Gas Resources, Inc. 15101	350 Indiana Street, Suite	400, Golden, CO 80401	2		
icarilla 30-03-33ease		227	Rio Arriba, NM		
ease	Well No. Unit Letter-	-03WSection-Township-Range	County		
GRID No013925_ Property Cod	de API No30-03	9-29264 Lease Type: _X	_FederalStateFee		
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	Cabresto Canyon, Tertiary	Pictured Cliffs C-V2			
Pool Code	97037	71629	72400		
Γορ and Bottom of Pay Section Perforated or Open-Hole Interval)	2553' – 3068'	3540' – 3570'	3614' – 3700'		
Method of Production	Flowing	Flowing	Flowing		
Bottomhole Pressure Note: Pressure data will not be required if the bottom berforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	owing or Artificial Lift) ottomhole Pressure te: Pressure data will not be required if the bottom foration in the lower zone is within 150% of the				
Oil Gravity or Gas BTU (Degree API or Gas BTU)					
Producing, Shut-In or New Zone	Producing	Producing	Producing		
Date and Oil/Gas/Water Rates of Last Production. Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 2/3/05 Rates: 175 mcfpd	Date: 1/27/05 Rates: 68 mcfpd	Date: 1/22/05 Rates: 678 mcfpd		
Fixed Allocation Percentage Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas		
han current or past production, supporting data or explanation will be required.)	% 19%	% 7%	% 74%		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ADDITIO	NAL DATA			
re all working, royalty and overriding not, have all working, royalty and over			YesXNo YesXNo		
re all produced fluids from all commi	ngled zones compatible with each	other?	YesX No		
fill commingling decrease the value of	f production?		YesNo_X		
this well is on, or communitized with the United States Bureau of Land Ma			YesX No		
MOCD Reference Case No. applicable	e to this well:				
ttachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or of the comments.	at least one year. (If not available, y, estimated production rates and so or formula.	attach explanation.) supporting data. or uncommon interest cases.			
	PRE-APPRO	OVED POOLS			
If application is	to establish Pre-Approved Pools, t	he following additional information w	vill be required:		
ist of other orders approving downhol ist of all operators within the proposed roof that all operators within the propostomhole pressure data.	d Pre-Approved Pools	••			
hereby certify that the information	above is true and complete to	the best of my knowledge and bel	ief.		
IGNATURE AND DICK	HUNCOMB TITLE I	Engineering Technician	DATE_5/11/2005		

__TELEPHONE NO. (720)210-1308

C107A Supplemental Information

Jicarilla 30-03-33 #14 Production and Pressure Date Pictured Cliffs/Fruitland Basin and Tertiary Formations

The Pictured Cliffs formation was perforated at intervals 3614' – 3616', 3624' – 3626', 3640' – 3642', 3648' – 3652', 3674' – 3676', 3682' – 3684', 3688' – 3690' and 3696' – 3700' with 2 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 2487 psi with a fracture gradient of 0.68 psi/ft. After fracture stimulation and clean up the Pictured Cliffs formation was flow tested for twenty-four hours, 687 MCFPD.

The Fruitland Basin formation was perforated at intervals 3540' - 3544' and 3564' - 3570' with 4 jspf. The Fruitland Basin formation was not fracture stimulated. The Fruitland Basin formation was flow tested for twenty-four hours, 68 MCFPD.

The Tertiary formation was perforated at intervals 2553' – 2555', 2560' – 2562', 2762' – 2764', 3050' – 3052', 3054' – 3056', 3060' – 3062' and 3066' – 3068' with 2 jspf. Based upon the pressure data obtained from the fracture stimulation treatment of the Nacimiento, Tertiary formation, the fracturing pressure of the Tertiary formation is 2108 psi with a fracture gradient of 0.75 psi/ft. After fracture stimulation of the Tertiary formation, a stabilized flow test was conducted for twenty-four hours, 175 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	678		74%
Tertiary	175		19%
Basin, Fruitland	68		7%
Total	921		100.000%

DISTRICT ? 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Revised June 10, 2003 Submit to Appropriate District Office

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

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Form C-102

ISTRICT IV 220 South St. F	rancis Dr.	•		<u> </u>	N AND AC	REAGE DED	ICATION PI	7.7	ENDED REPOR
	Number		MEDD I	Pool Code		<u></u>	BD1 Mary		
30-039	- 396	264	1 9	17037		Pabresh Ca	syon, leri	Tary	
⁴ Property C	ode				⁶ Property			•	Well Number
					JICARILLA 30)–3–33			14
OGRID N	D.				*Operator	Name			Elevation
013935		-3	Black	Hills Ga	s Presourc	ec lor			7129'
CIGIOS	<u> </u>			77.13 (70			<u></u>		
		,	·-·		¹⁰ Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County RIO ARRIBA
A	33	30-N	3-W	<u> </u>	560	NORTH	365	EAST	I KIU AKKIBA
			11 Bott	om Hole	Location 1	f Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
		1			!				
Dedicated Acre	8		18 Joint or	infill	M Consolidation	Code	¹⁶ Order No.	!	
160	}								
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		OR A N	ION-STA	INDARD I	UNIT HAS BE	EEN APPROVED	BY THE DIV	ISION	
D. 2 1/2" I			146'26"N 107'08'52	(NAD 8		LS8894	Signature Allisor Frinted Nat Engine	ly that the informatic lete to the best of m	. · ?/(/&/)
							I hereby certify was plotted from or under may be correct to the base of Survey Signature for the sign	that the well location field notes at outs	m shown on this plat al surveys made by m be same is true and al Surveyor.
					į	FD. MARKE	d	14831	
	1			1	Ì	CTON	Certificate Nu	mhee :	

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

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DISTRICT III

DISTRICT IV	KG., AZTEC,	N.M. 87410			builde 10, 1	- C1000		г	AMME!	NDED REPOR
1220 South St. F	rancis Dr.,				ANT AND A	ממע המת	icamion D	r ATT		MDBD KEI OI
1 APT	Number		<u> </u>	Pool Code		CREAGE DED	Pool Nam			
30-039		44	1 7	4629		Pasin.	Fruitlar	och		
⁴ Property C					⁸ Property		, , , , , , , , , , , , , , , , , , , ,			ell Number
					JICARILLA 3	0-3-33				14
OGRID No	o				⁸ Operator			<u> </u>		Elevation
013935	5		Black	Hills Ga	s Resourc	es, Inc.			<u> </u>	7129'
		· 				Location				
UL or lot no.	Section 33	Township 30-N	Range 3-W	Lot Idn	Feet from the 560	North/South line NORTH	Feet from the 365	East/We	est line ST	RIO ARRIBA
	<u> </u>	<u> </u>	¹¹ Bott	om Hole	Location	If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
						<u> </u>				<u> </u>
Dedicated Acre			is Joint or	infill	M Consolidation	Code	¹⁶ Order No.			
320	Í									
NO ALLOW	ABLE W					ON UNTIL ALL			EEN C	ONSOLIDATE
	 	OR A N	ION-STA	NDARD I	UNIT HAS B	EEN APPROVED	BY THE DIV	JISION		
16 FD. 2 1/2" E U.S.G.L.O. 19		S 89-36	6-51 W	5229	0.2' (M)	560'	J hereby certi	by that the	information	RTIFICATION contained herein is knowledge and belief
					FD. 1/2" PLAS. CAP (EST. BY DE	LS8894	3651			
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		-		1	į	STON	E Certificate N	umber		

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☐ AMENDED REPORT

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code Pool Name

¹ API Number	*Pool Code 72400	*Pool Name Blanco/Pictured Cliffs	
⁴ Property Code	*Prop	erty Name	• Well Number
24245	JICARILLA	30-3-33	.14
OGRID No.	*Oper	ator Name	Elevation
013925	MALLON C	IL COMPANY	7129'

¹⁰ Surface Location

UL or lot no.	Section 33	Township 30-N	Range 3-W	Lot Idn	Feet from the 560	North/South line NORTH	Peet from the 365	East/West line EAST	County RIO ARRIBA
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 19 j			¹⁸ Joint or	infill	[™] Consolidation C	Code	** Order No.	-	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

P18 FD. 2 1/2" BC U.S.G.L.O. 1914	S 89-36-51 W	5229.2' (M) FD. 1/2" PLAS. CAP (EST. BY D	LS8894	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	LAT. 36'46'26"N LONG. 107'08'52"		5265.95' (M)	Signature Kathy L. Schneebeck Printed Name Agent for Mallon Oil Company fitte
	3	3	S 00-10-02 W	June 11, 2004 Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notice at certain serveys made by me or under my superstant of the part of the best states of the part of the best states of the b
			FD. MARKED STONE	Date of Sagrey Seel of Postulated Strategy. Day GFESSION TO Seel of 14831 Certificate Number