

## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

**ADMINISTRATIVE ORDER DHC-3553** 

Black Hills Gas Resources, Inc. 350 Indiana Street Suite 400 Golden, CO 80401

Attention: Allison Newcomb

JICARILLA 29 2 31 #014
API No. 30-039-29317
Unit A, Section 31, Township 29N, Range 02W, NMPM,
RIO ARRIBA County, New Mexico
Undesignated BURRO CANYON TERTIARY (97035), and
BASIN FRUITLAND COAL (GAS) (71629), and
Undesignated CHOZA MESA PICTURED CLIFFS (GAS) (74960) Pools

#### Dear Ms. Newcomb:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above-described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion or otherwise required separation of the zones is hereby placed in abeyance.

In accordance with Division 303C.(1)(f), the production attributed to any commingled pool within the well shall not exceed the allowable applicable to that pool.

Assignment of allowable to the well and allocation of production from the well shall be as follows.

BURRO CANYON TERTIARY Pool	Oil-NA%	Gas-4%
BASIN FRUITLAND COAL (GAS) Pool	Oil-NA%	Gas-32%

CHOZA MESA PICTURED CLIFFS (GAS) Pool	Oil-NA%	Gas-64%
†	l	

These percentages shall be amended only with written permission of the Division.

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of commingling operations.

Pursuant to Rule 303C(2), the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on August 17, 2005.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MARK E. FESMIRE, P.E.

Director

cc:

Oil Conservation Division - Aztec

Bureau of Land Management - Farmington

TELEPHONE NO. (720)210-1308

TYPE OR PRINT NAME Allison Newcomb

E-MAIL ADDRESS\_anewcomb@bhep.com

ジ

#### C107A Supplemental Information

# Jicarilla 29-02-31 #14 Production and Pressure Date Pictured Cliffs/Fruitland Basin and Tertiary Formations

The Pictured Cliffs formation was perforated at intervals 3449' – 3469', 3500' – 3510' and 3540' – 3550' with 4 jspf. Based upon pressure data obtained from the breakdown and fracture stimulation treatment the fracturing pressure of the Upper Pictured Cliffs formation at mid-perforation is 2352 psi with a fracture gradient of 0.68 psi/ft. Based upon pressure data obtained from the breakdown and fracture stimulation treatment the fracturing pressure of the Lower Pictured Cliffs formation at mid-perforation is 2397 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, 325 MCFPD.

The Fruitland Coal Basin formation was perforated at intervals 3404 – 3406', 3420' – 3426' and 3436' – 3438' with 4 jspf. The Fruitland Coal Basin formation was not fracture stimulated. The Fruitland Coal Basin formation was flow tested for twenty-four hours, 162 MCFPD.

The Tertiary formation was perforated at intervals 3280' - 3282' with 2 jspf. The tertiary formation was not fracture stimulated. A stabilized flow test was conducted for twenty-four hours, 22 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	325		64%
Tertiary	22		4%
Basin, Fruitland Coal	162		32%
Total	509		100%

### Owner's List

### 300001 265 JIC 29-02-31 14

7041 JICARILLA APACHE NATION

PO Box 2053

Albuquerque, NM 87103

999030 BLACK HILLS GAS RESOUR

350 Indiana St. Suite 400

Golden, CO 80401

.20 ROY BPO .225 ROY APO

.80 WOR BPO.775 ROY APO

rench Dr., Hobbs, N.M. 88240

#### State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

' II Grand Ave., Artesia, N.M. 88210 1600 Rio Brazos Rd., Aztec, N.M. 87410

<sup>4</sup>Property Code

18 Dedicated Acres

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

18 Joint or Infill

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>1</sup> API Number Pool Code Pool Name 72400 East Blanco; Pictured Cliffs Well Number <sup>8</sup>Property Name JICARILLA 29-2-31 14

15 Order No.

24245 Operator Name OGRID No. Elevation MALLON OIL COMPANY 7068 013925 <sup>10</sup> Surface Location Feet from the North/South line Lot Idn Feet from the East/West line UL or lot no. Section Township Range 2-W 430 **NORTH** 880 **EAST** RIO ARRIBA 29-N 31 Α <sup>11</sup> Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the UL or lot no. Section Township East/West line County

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

14 Consolidation Code

	OR A NON-STAN	DARD UNIT HAS B	EEN APPROVED BY	THE DIVISION
18 SEC. CORNER FD. 2 1/2" BC. U.S.G.L.O. 1917	N 89-13-08 W	5239.2' (M)	FD. MARKED STONE	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
LOT 1	LAT. 36°41'17"N LONG. 107°04'42"W	(NAD 83) (NAD 83)		·
LOT 2	3	51	5201.8' (C)	Signature Kathy L. Schneebeck  Printed Name Agent for Mallon Oil Company Title July 15, 2004  Date
LOT 3			N 00-48-40 W	18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  ORCA 29)/2003  Date of Survey
LOT 4	•	RECOR	CALC'D CORNER SITION FROM SURVEY DS, STONE & REBAR D BY CONSTRUCTION	<b>李河军829</b> NA

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

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

DISTRICT III

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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

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DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87506

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-29317	71.630 Pagin Fruitland			71620 Pagin Fruitland		•	
<sup>4</sup> Property Code	Property Code Property Name  JICARILLA 29-2-31						
OGRID No.	OGRID No. Operator Name				*Operator Name		* Elevation
013925	Black Hills Gas	Black Hills Gas Resources, Inc.					

10 Company Location

UL or lot no.	Section 31	Township 29-N	Range 2-W	Lot idn	Feet from the 430	North/South line NORTH	Feet from the 880	East/West line EAST	County RIO ARRIBA
	<u> </u>	25 14		om Hole	<u> </u>	f Different Fro			1
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County
Dedicated Acre	3		<sup>18</sup> Joint or	lnfill	<sup>M</sup> Consolidation (	ode	<sup>35</sup> Order No.	<u> </u>	<u> </u>
3	20								

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

D16 SEC. CORNER FD. 2 1/2" BC. U.S.G.L.O. 1917 LOT 1	N 89-13-08 W  LAT. 36'41'17"N LONG. 107'04'42"W	5239.2' (M) (NAD 83) (NAD 83)	FD. MARKED STONE	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is frue and complete to the best of my knowledge and belief
LOT 2		1	5201.8' (C)	Signature Allison Newcomb Printed Name Engineering Technician Title May 20, 2005 Date
LOT 3		·	N 00-48-40 W	18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Dec. 29, 2003
LOT 4		RECOR	CALC'D CORNER SITION FROM SURVEY DS, STONE & REBAR D BY CONSTRUCTION	Signature and Surveyor:  A. JOH  Signature and Surveyor:  A. JOH

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

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 68210

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

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DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87506

220 South St. F	rancis ur.,			OCATION	N AND	AC	REAGE DED	TCA	TION PI	LAT		
*API 30-039	Number -29317	Pool Code 97035  Burro Canyon, Tertiary										
<sup>4</sup> Property C			Property Name							• 1	fell Number	
11opatty C	i		JICARILLA 29-2-31							14		
OGRID No	<b>D.</b>			<del></del>	<sup>0</sup> Oper	ator 1	fame					Elevation
013925		Black Hills Gas Resources, Inc.						Ì		7068		
			<u></u>				Location					<del></del>
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South line	Pe	et from the	Bast/Wes	t line	County
A	31	29-N	2-W		430		NORTH	<u> </u>	880	EAS	<u>ज</u>	RIO ARRIBA
			11 Bott	om Hole	Locatio	n If	Different Fr	om	Surface			
UL or lot no.	Section	Township	Range	Lot idn	Feet from	the	North/South line	Fe	et from the	East/Ve	st line	County
Dedicated Acre	<u>i</u> ≉	J	<sup>10</sup> Joint or	Infill	" Consolidat	ion C	ode	100	rder No.			.1
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	160							<u> </u>				
NO ALLOW	ABLE W						N UNTIL ALL EN APPROVEL				SEN C	ONSOLIDATEI
EC. CORNER D. 2 1/2" ( .S.G.L.O. 19	3C.	N 89-13	3-08 W	5239.	.2' (M)		FD. MAR STO	KED	I hereby certif	y that the to	ybraction.	RTIFICATION contained herein is knowledge and belief
LOT 1		LAT. 36 LONG. 107	5'41'17"N "04'42"W	, ,			430					
LOT 2				71				5201.8' (C)	Signature Allison Printed Nar Engineer Title May 20,	me ing Tech		dmosi
LOT 3								N 00-48-40 W	18 SUR I heroby certify was plotted from	EVEYOR  that the we n fleid notes pervision, as est of my be	ll location of actual and that the sief.	

CALC'D CORNER LOT 4 POSITION FROM SURVEY RECORDS, STONE & REBAR DESTROYED BY CONSTRUCTION