

5/23/05 SUSPENSE ENGINEER JONES 5/23/05 LOGGED IN DHC PSEM05/4348932

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

e-mail Address

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

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

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

APPLICATION TYPE  
☒ X Single Well  
☐ Establish Pre-Approved Pools  
EXISTING WELLBORE  
☐ Yes ☒ X No

APPLICATION FOR DOWNHOLE COMMINGLING

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

Jicarilla 29-02-17 43 O-17-29N-02W Rio Arriba, NM  
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 013925 Property Code API No. 30-039-29316 Lease Type: ☒ X Federal State Fee

DATA ELEMENT	UPPER ZONE UNDES	INTERMEDIATE ZONE Basin Fruitland	LOWER ZONE UNDES CHOZAMBA
Pool Name	La Jara Canyon, Tertiary	Basin Fruitland	Pictured Cliffs
Pool Code	97036	71629	72400 74960
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1200'-1286'	3520'-3592'	3606'-3672'
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	n/a	n/a	2475 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1.0575	1.0575	1.0575
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: 4/14/05 Rates: 225 mcfpd	Date: 3/31/05 Rates: 22 mcfpd	Date: 3/28/05 Rates: 150 mcfpd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 100 % Gas 57%	Oil 0 % Gas 5%	Oil 0 % Gas 38%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ X No  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ X No

Will commingling decrease the value of production? Yes No ☒ X

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ X No

NMOCD Reference Case No. applicable to this well:

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Allison Newcomb TITLE Engineering Technician DATE 5/19/2005

TYPE OR PRINT NAME Allison Newcomb TELEPHONE NO. (720)210-1308

E-MAIL ADDRESS anewcomb@bhep.com

## C107A Supplemental Information

Jicarilla 29-02-17 #43

Production and Pressure Date

Pictured Cliffs/Fruitland Basin and Tertiary Formations

The Pictured Cliffs formation was perforated at intervals 3606' – 3626' and 3652' – 3672' 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 2475 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, 150 MCFPD.

The Fruitland Basin formation was perforated at intervals 3520' – 3522', 3539' – 3541', 3554' – 3556' and 3590' – 3592' with 4 jspf. The Fruitland Basin formation was not fracture stimulated. The Fruitland Basin formation was flow tested for twenty-four hours, 22 MCFPD.

The Tertiary formation was perforated at intervals 1200' – 1206' and 1278' – 1286' with 2 jspf. The tertiary formation was not fracture stimulated. A stabilized flow test was conducted for twenty-four hours, 225 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	150		38%
Tertiary	225		57%
Basin, Fruitland	22		5%
<b>Total</b>	397		100.000%

District I  
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State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

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District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☐ Yes ☒ No

APPLICATION FOR DOWNHOLE COMMINGLING

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

Jicarilla 29-02-17 43 O-17-29N-02W Rio Arriba, NM  
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 013925 Property Code API No. 30-039-29316 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	La Jara Canyon, Tertiary	Basin Fruitland	Pictured Cliffs
Pool Code	97036	71629	72400
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1200'-1286'	3520'-3592'	3606'-3672'
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	n/a	n/a	2475 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1.0575	1.0575	1.0575
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: 4/14/05 Rates: 225 mcfpd	Date: 3/31/05 Rates: 22 mcfpd	Date: 3/28/05 Rates: 150 mcfpd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % 57%	Oil Gas % 5%	Oil Gas % 38%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands  
or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: \_\_\_\_\_

Attachments:

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- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Allison Newcomb TITLE Engineering Technician DATE 5/19/2005

TYPE OR PRINT NAME Allison Newcomb TELEPHONE NO. (720)210-1308

E-MAIL ADDRESS anewcomb@bhep.com

C107A Supplemental Information

Jicarilla 29-02-17 #43

Production and Pressure Date

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District I  
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State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

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1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division

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

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☐ Yes ☒ No

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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OGRID No. 013925 Property Code API No. 30-039-29316 Lease Type: ☒ Federal ☐ State ☐ Fee

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- Bottomhole pressure data.

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SIGNATURE Allison Newcomb TITLE Engineering Technician DATE 5/19/2005

TYPE OR PRINT NAME Allison Newcomb TELEPHONE NO. (720)210-1308

E-MAIL ADDRESS anewcomb@bhep.com

### C107A Supplemental Information

Jicarilla 29-02-17 #43

Production and Pressure Date

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DISTRICT I  
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

DISTRICT II  
811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

2040 South Pacheco  
Santa Fe, NM 87505

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30=039-29316	<sup>2</sup> Pool Code 72400	<sup>3</sup> Pool Name East Blanco, Pictured Cliffs
<sup>4</sup> Property Code	<sup>5</sup> Property Name JICARILLA 29-02-17	<sup>6</sup> Well Number 43
<sup>7</sup> OGRID No. 013925	<sup>8</sup> Operator Name Black Hills Gas Resources, Inc.	<sup>9</sup> Elevation 7200'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	17	29-N	2-W		640	SOUTH	2230	EAST	RIO ARRIBA

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 160			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

16

				SEC. CORNER FD. MKD STONE W/ P+C "LS 8894"
17				N 00-16-11 W 5269.9' (M)
LAT.=36-43-10 N. (NAD 83) LONG.=107-03-54 W (NAD 83)				2230'
SEC. CORNER FD. MKD STONE W/ P+C "LS 8894"	N 89-24-16 W 5354.9' (M)			640'
				SEC. CORNER FD. MKD STONE W/ P+C "LS 8894"

**17 OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Allison Newcomb  
Signature

Allison Newcomb  
Printed Name

Engineering Technician  
Title

May 19, 2005  
Date

**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.

DECEMBER 22, 2003  
Date of Survey

DAVID A. JOHNSON  
Signature and Seal of Professional Surveyor

14827  
1482  
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number



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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

DISTRICT II  
811 South First, Artesia, N.M. 88210

DISTRICT III  
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DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30=039-29316		*Pool Code 71629	Basin Fruitland	*Pool Name
*Property Code	*Property Name JICARILLA 29-02-17			*Well Number 43
*OGRD No. 013925	*Operator Name Black Hills Gas Resources, Inc.			*Elevation 7200'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	17	29-N	2-W		640	SOUTH	2230	EAST	RIO ARRIBA

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 320					<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

16

		<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  <u>Allison Newcomb</u> Signature  Allison Newcomb Printed Name  Engineering Technician Title  May 19, 2005 Date	
		<sup>18</sup> 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.  DECEMBER 22, 2003 Date of Survey  Signature and Seal of Professional Surveyor: 	
		LAT.=36-43-10 N. (NAD 83) LONG.=107-03-54 W (NAD 83)	
		SEC. CORNER FD. MKD STONE W/ P+C 'LS 8894'	
N 89-24-16 W 5354.9' (M)		SEC. CORNER FD. MKD STONE W/ P+C 'LS 8894'	

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

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OIL CONSERVATION DIVISION  
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Submit to Appropriate District Office  
State Lease - 4 Copies  
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DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30=039-29316		*Pool Code 97036	*Pool Name La Jara Canyon, Tertiary
*Property Code	*Property Name JICARILLA 29-02-17		*Well Number 43
*OGRID No. 013925	*Operator Name Black Hills Gas Resources, Inc.		*Elevation 7200'

## <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	17	29-N	2-W		640	SOUTH	2230	EAST	RIO ARRIBA

**<sup>11</sup> 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
<sup>13</sup> Dedicated Acres			<sup>14</sup> Joint or Infill		<sup>15</sup> Consolidation Code		<sup>16</sup> Order No.		
160									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
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<p>SEC. CORNER FD. MKD STONE W/ P+C "LS 8894"</p>	<p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Allison Newcomb</u> Signature</p> <p><u>Allison Newcomb</u> Printed Name</p> <p><u>Engineering Technician</u> Title</p> <p><u>May 19, 2005</u> Date</p>
<p>LAT.=36-43-10 N. (NAD 83) LONG.=107-03-54 W (NAD 83)</p> <p>SEC. CORNER FD. MKD STONE W/ P+C "LS 8894"</p>	<p>N 89-24-16 W 5354.9' (M)</p> <p>SEC. CORNER FD. MKD STONE W/ P+C "LS 8894"</p>

  

<p>LAT.=36-43-10 N. (NAD 83) LONG.=107-03-54 W (NAD 83)</p> <p>SEC. CORNER FD. MKD STONE W/ P+C "LS 8894"</p>	<p><b>18 SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>DECEMBER 22, 2003 Date of Survey</p> <p><u>[Signature]</u> Signature and Seal of Professional Surveyor:</p> <p>Certificate Number _____</p>
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