

## Black Hills Gas Resources, Inc.

*A Black Hills Corporation Enterprise*

1515 Wynkoop Street, Suite 500, Denver, Colorado 80202

David C. Thornquist  
Landman

Bus: (303) 566-9436

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E-mail: [david.thornquist@blackhillscorp.com](mailto:david.thornquist@blackhillscorp.com)

February 11, 2010

Mr. William V. Jones PE  
New Mexico Oil Conservation Division  
1200 South St. Francis  
Santa Fe, New Mexico 87505

Re: Consent to Commingle Production  
Jic 29-02-08 04  
Rio Arriba County, New Mexico

Dear Mr. Jones,

It is the wish of Black Hills Gas Resources, Inc. to commingle production from several potential gas producing formations. The correlative rights within these commingled formations remain the same. The formations being commingled under this well are:

Pictured Cliffs Formation  
San Juan Formation

Black Hills appreciates your consideration of this request and looks forward to a favorable approval. Should you have any questions or comments with this request, please do not hesitate to contact me.

Sincerely,

David C. Thornquist  
Landman



Black Hills Gas Resources  
1515 Wynkoop St.  
Suite 500  
Denver, CO 80202

February 25, 2010

Richard Ezeanyim  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

RE: Surface commingle of wells.

Dear Mr. Ezeanyim:

The purpose of this letter is to clarify a conversation between Will Jones and myself on January 12, 2010, regarding commingling production of individual wells at the surface.

Black Hills has a *Total Flow* meter at each well bore and this meter is calibrated regularly, depending on how much the well is capable of producing i.e. if the volume exceeds 100 MCF per day the calibration is quarterly. All royalties are calculated and paid at that point. Up till now the well had the ability to produce from different pools that were completed within the well bore. The correlative rights in the well bore are identical. However surface commingling had not taken place. The well has been produced either up the casing annulus or the tubing string, but not both. Therefore Black Hills has begun surface commingling (see attachment) as directed by Mr. Jones in an e-mail received January 12, 2010, and is submitting documentation required by Mr. Jones.

I would like to thank the staff at the Oil Conservation Division for their prompt and professional manner in dealing with this issue.

Please do not hesitate to call me in the event of any questions.

Sincerely,

Alan Vrooman  
Senior Permitting Coordinator  
Black Hills Exploration & Production  
1515 Wynkoop St.  
Suite 500  
Denver, CO 80202  
303-566-3356

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
June 19, 2008

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

WELL API NO. <b>30-039-26864</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <b>MDA 701-98-0013, tract 4</b>
7. Lease Name or Unit Agreement Name <b>25287</b>
8. Well Number <b>Jicarilla 29-02-08#4</b>
9. OGRID Number <b>013925</b>
10. Pool name or Wildcat <b>East Blanco Pictured Cliffs La Jara Canyon Tertiary</b>

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
**Black Hills Gas Resources**

3. Address of Operator  
**3200 N 1<sup>st</sup> St / P.O. Box 249  
Bloomfield, NM 87413**

4. Well Location

Unit Letter **D** : **500** feet from the **North** line and **865** feet from the **West** line  
Section **8** Township **29N** Range **2W** NMPM County **Rio Arriba**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**7,366 GL**

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: **Surface Commingle** ☒

OTHER: ☐

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.

**Black Hills Gas Resources intend to surface commingle the East Blanco Pictured Cliff and the La Jara Canyon Tertiary for the subject well. The correlative rights in the well bore are identical.**

Spud Date:

Rig Release Date:

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

SIGNATURE



TITLE **Sr. Permitting Coordinator**

DATE **2/24/10**

Type or print name

**Alan Vrooman**

E-mail address:

**Alan.Vrooman@blackhillscorp.com**

PHONE:

**303-566-3356**

**For State Use Only**

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

# Jicarilla 29-02-08 #4

## Wellbore Diagram

API # 30-039-26864

UNIT D NW NW, Sec 08, T29N, R02W Rio Arriba, NM

1/14/2008

Elev. GL= 7425'

Elev. KB= 7437'

22' 12 3/4" conductor  
pipe

### SURF CSG

8 5/8" 24# J-55 @  
275' KB, TOC surf

### PROD TBG DETAIL:

120 jts 2 3/8" 4.7# J-55 tbg  
SN  
1 jt 2 3/8" J-55 tbg  
collar

EOT

3767.00

San Jose perms: 7-23-03, 1373-1379, 1466-1472, 1473-  
1479, 1514-1515, 1526-1528. BD HCl + balls, Frac 66500#  
20/40 + 34500# 20/40 SLC in 15# XL gel. Test 942 mcf/d +  
.7 bwph.

DV tool = 2602'.

### PROD CASING

5 1/2" 15.5# @ 3969'  
KB; Cement in 2 stgs  
(DV tool @ 2602');  
Stg1, 142 bbls 12.5#  
lite cement, circ 15  
bbls off DV tool.  
Stg2, 230 bbls 12.5#  
lite cement. TOC =  
surf.

PC perms: 7-16-03; 3775-3780. BD KCl water, frac 17400#  
20/40 + 8200# SLC and XL N2 foam. Test 85 mcf/d + 2  
bwph.

PBTD=3940'

TD=3970' KB

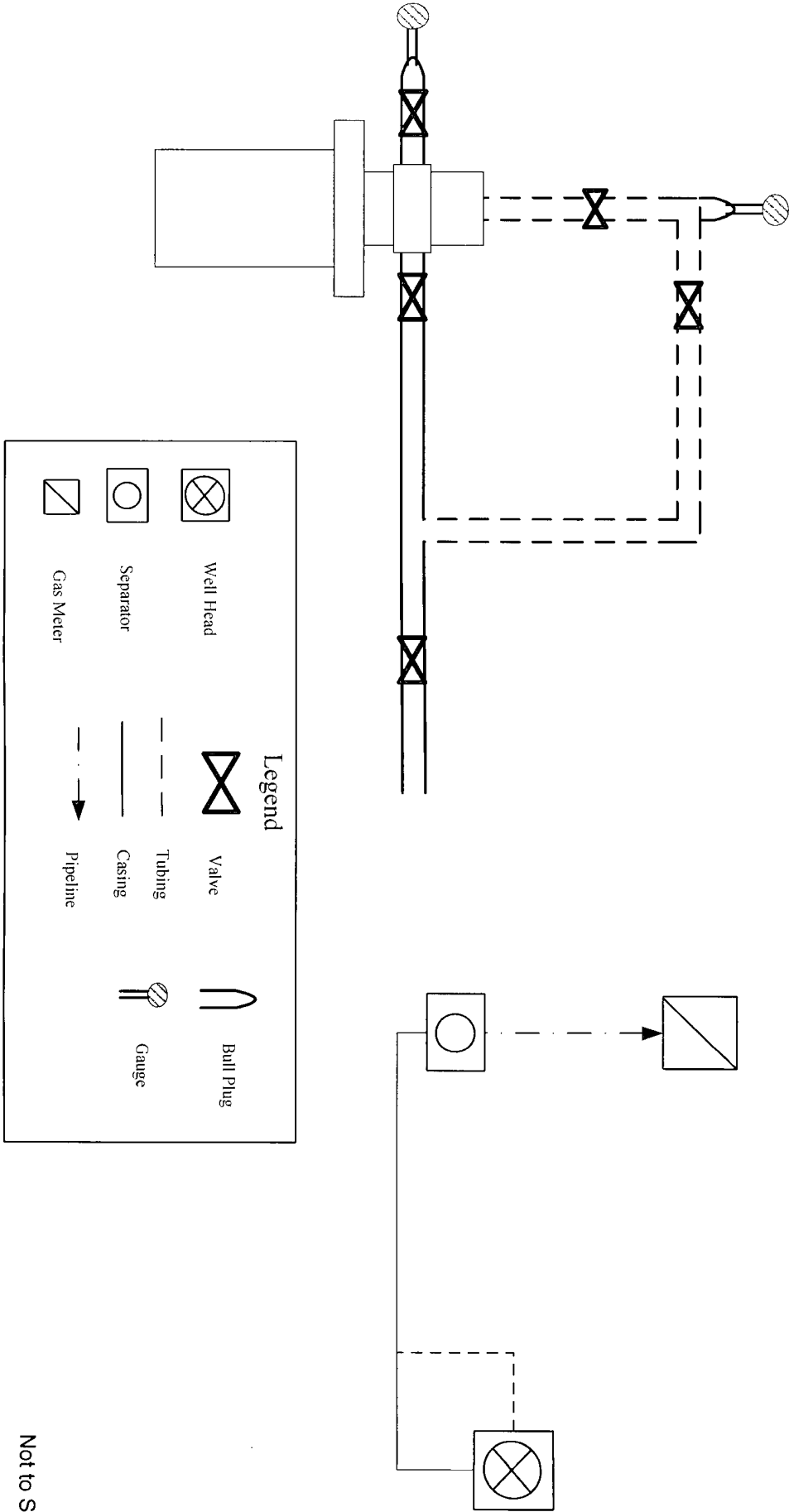
Black Hills Exploration and Production  
Surface Commingling Diagram

Well Name Jicarilla 29-02-08 #4  
Township 29 N  
Range 2 W  
Section NW NW 8

Location Rio Arriba County, NM  
Latitude N 36.74541  
Longitude W 107.07277

API # 3003926864

Aerial View of Surface Facilities



## Jones, William V., EMNRD

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**From:** Jones, William V., EMNRD  
**Sent:** Tuesday, January 12, 2010 12:23 PM  
**To:** Sharp, Karen, EMNRD; Perrin, Charlie, EMNRD  
**Cc:** Brooks, David K., EMNRD; Ezeanyim, Richard, EMNRD; 'Mike Pippin'  
**Subject:** Black Hills Commingling production on the Jicarilla Tribal Lands

Hello Karen or Charlie:

To comply with the open records act, would you please print this email and save it in the "Black Hills" company file -- we don't have those here.

Then please forward this email to the appropriate Black Hills person. Alan called this morning and I can't seem to get him on the phone.

Alan:

I ran this by Richard E., Terry Warnell, and our attorney David Brooks.

We understand you have DHC permits in place and a Total Flow (sales gas meter) on each well and these are all Tribal wells operated (100% WI) by Black Hills with identical royalty ownership between Pools.

Please commence production as soon as is practical from all completed Pools in wells that have a DHC order approved and in order to ensure correlative rights are protected and our rules are followed....submit the following information to this office by March 1, 2010. This data will be copied and placed in the well files or DHC permit files for each well involved.

- a. Send a cover letter addressed to the Engineering Bureau in Santa Fe stating the overall ownership situation on the Jicarilla and that these Total Flow gas meters are installed on all wells and these meters are considered to be "sales" meters for purposes of royalty payments.
- b. Send a list of all the wells involved including each API number and each DHC permit number for each well. List the Pool Names approved for commingling in the DHC permit and what percentage allocation you are approved to use.
- c. Send another letter signed by a Landman or Attorney stating the ownership situation between the completed Pools in each well. If ownership is identical (ORRI, RI, WI the same) between Pools, have that stated and the letter signed. You can send in only one letter and just list the identically owned wells/pools within that letter.

If in this investigation, your landman finds differing overrides or differing WI from any Pool completed in any of these wells, please prepare diversely owned surface commingle application for each diverse well, send out notices, and send the application in to Santa Fe for approval.

If you have wells not yet covered by DHC orders and are completed as duals or triples, then you could apply for a surface commingle permit on those -- most likely under category: "identically owned Pool Commingles".

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

Tracking: