

## Black Hills Gas Resources, Inc.

*A Black Hills Corporation Enterprise*

RECEIVED  
2010 FEB 26 AM 11:25

1515 Wynkoop Street, Suite 500, Denver, Colorado 80202

David C. Thornquist  
Landman

Bus: (303) 566-9436

Fax: (303) 566-3346

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 451-03 21  
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:

Fruitland Coal Formation  
Pictured Cliffs Formation  
San Jose - Ojo Alamo

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 commingling 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>30-039-29267</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <b>Contract 451</b>
7. Lease Name or Unit Agreement Name
8. Well Number <b>Jicarilla 451-03 #21</b>
9. OGRID Number <b>013925</b>
10. Pool name or Wildcat <b>East Blanco Pictured Cliffs Cabresto Canyon Tertiary Basin Fruitland Coal</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 E : 1800 feet from the North line and 745 feet from the West line  
Section 3 Township 29N Range 3W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**7,145' 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 ☐

OTHER: **Surface Commingle** ☒

SUBSEQUENT REPORT OF:

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

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.

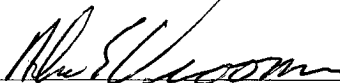
**Black Hills Gas Resources intends to surface commingle the East Blanco Pictured Cliff, the Basin Fruitland Coal, and the Cabresto Canyon Tertiary for the subject well. The correlative rights in the well bore are identical.**

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 451-03 #21

## Wellbore Diagram

API # 30-039-29267

SW/NW, Sec 3, T29N, R3W Rio Arriba, NM

3/12/2008

Elev. GL 7145

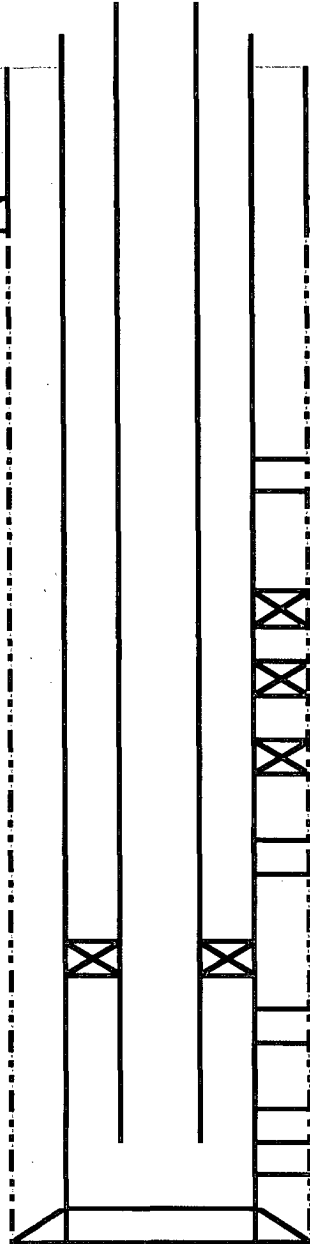
Elev. KB 7158

### SURF CSG

8 5/8" 24# @ 267',  
cmt TOC surf

### PROD CASING

5 1/2" 17# J-55 to  
234' and 15.5# J-55  
to 3834', cement with  
650 sx, circ 3 sx to  
pit.



### Tubing Detail

KB	
2 3/8" tbg, 111 jts	
ON/OFF Tool fullbore 2"	3523
AS-1X 10K packer	3525
2 3/8" tbg, 5 jts	
Profile 1.78" "R"	3691
2 3/8" pup	
Mule-Shoe	
EOT	3694

**San Jose perfs: 2-16-05; 1420-1424.** BD 200 gal HCl & N2, No frac, test 53 mcfd + 6 bwpd.

**U Nacimiento perfs: 2-09-05; 2688-2690, 2728-2732.** BD with 500 gal HCl & N2. No frac, Test wet. **Sqz 2-09-05.**

**M Nacimiento perfs: 1-26-05; 2782-2784, 2788-2790, 2856-2858, 2866-2868, 2916-2918.** BD 500 gal HCl, Frac with 65000# 20/40 and 50Q N2 XL foam, test wet, **Sqz 2-08-05.**

**L Nacimiento perfs: 1-24-05; 3118-3128 ,** BD 500 gal HCl, Tested wet, **Sqz 1-24-05**

**Ojo Alamo perfs: 1-19-05; 3220-3220, 3260-3262.** BD 500 gal HCl + N2, no frac, Tested 59 mcfd + 1 bwph.

Packer @ 3532'

**Fruitland Coal perfs: 1-16-05; 3596-3600, 3602-3604, 3628-3632.** BD 500 gal HCl + N2, no frac Test 579 mcfd + .5 bwph.

**Pictured Cliffs perfs: 1-05-05; 3680-3684, 3702-3712, 3754-3760',** BD 500 gal HCl, Fraced with 98000# 20/40 and 65Q N2 foam, Tested 250mcfd + 1 bwph.

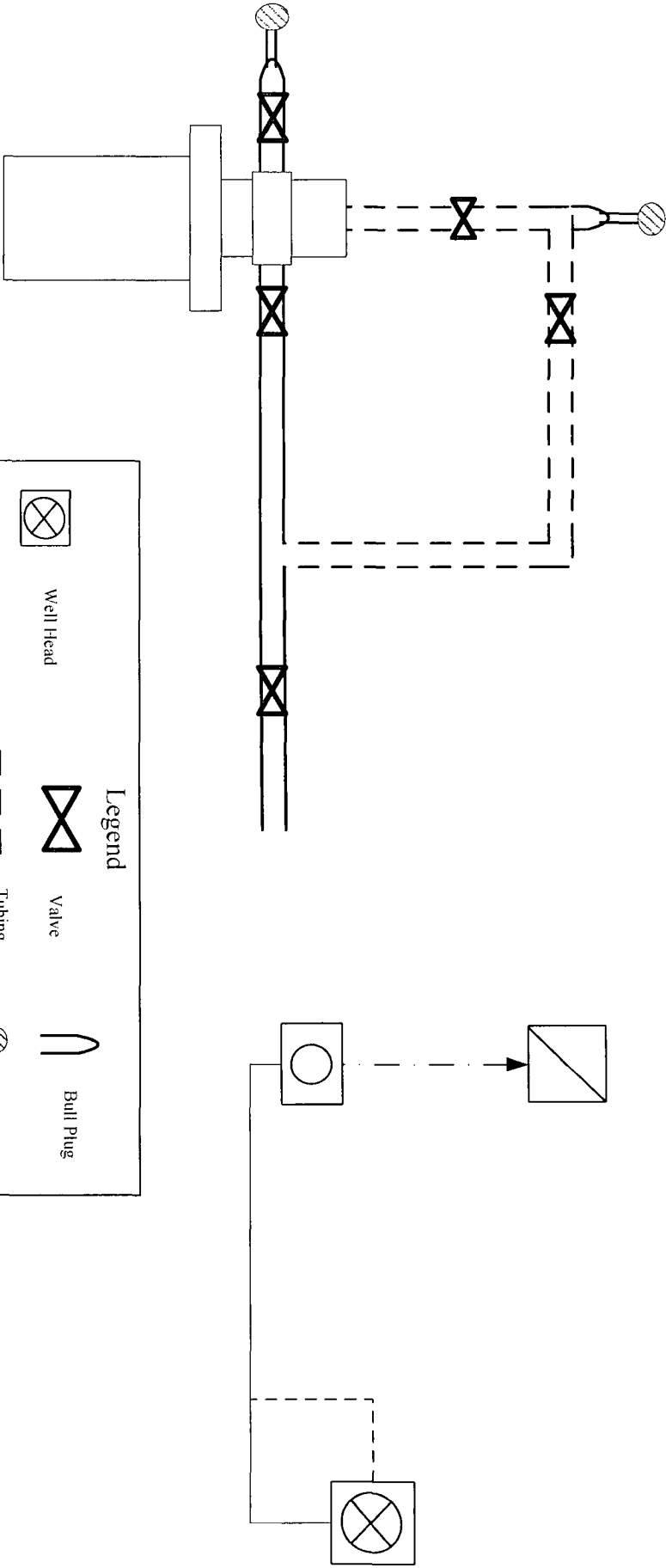
PBTD = 3810'

TD = 3850

Black Hills Exploration and Production  
Surface Commingling Diagram

Well Name	<u>Jicarilla 451-03 #21</u>	Location	<u>Rio Arriba County, NM</u>	API #	<u>3003929267</u>
Township	<u>29 N</u>	Latitude	<u>N 36.75616</u>		
Range	<u>3 W</u>	Longitude	<u>W 107.14466</u>		
Section	<u>SWNW 3</u>				

Aerial View of Surface Facilities



Not to Scale

## 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:

**Recipient**

Sharp, Karen, EMNRD

Perrin, Charlie, EMNRD

Brooks, David K., EMNRD

Ezeanyim, Richard, EMNRD

'Mike Pippin'

**Read**

Read: 1/12/2010 1:00 PM

Read: 1/12/2010 1:29 PM

Read: 1/12/2010 1:10 PM