

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 10 2010

FORM APPROVED  
OMB No 1004-0137  
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side.

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Black Hills Gas Resources

3a. Address

3200 N 1st Street PO Box 249 Bloomfield, NM 87413

3b. Phone No. (include area code)

505-634-1111 ext 28

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: 884' FNL 535' FWL Sec.28 T29N R2W NW/NW Unit D

Bottom Hole: 782' FNL 2581' FWL Sec.28 T29N R2W NE/NW Unit C

5. Lease Serial No.

MDA 701-98-0013, Tract 2

6. Indian, Allottee, or Tribe Name

Jicarilla Apache Tribe

7. If Unit or CA. Agreement Name and/or No

8. Well Name and No

Jicarilla 29-2-28 #1

9. API Well No

30-039-27066

10. Field and Pool, or Exploratory Area

Burro Canyon Tertiary &  
East Blanco Pictured Cliffs

11. County or Parish, State

Rio Arriba, New Mexico

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Altering Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☒ Plug and abandon

☐ Plug back

☐ Production (Start/ Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-off

☐ Well Integrity

☐ Other

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Black Hills Gas Resources intends to plug and abandon Jicarilla 29-02-28 #1 per attached procedure dated 2/4/10. The Jicarilla Apache Nation Department of Water Administration was notified February 9, 2010, of the P&A intent and indicated they do not want this well for a water supply well.

RCVD FEB 17 '10

Notify NMOCD 24 hrs  
prior to beginning  
operations

OIL CONS. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

Daniel Manus

Title

Regulatory Technician

Signature

Date

February 10, 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

FEB 12 2010

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCD

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13* - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396, 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c); and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES. Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number

## BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau of Information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., NW, Washington D.C. 20240

## PLUG AND ABANDONMENT PROCEDURE

February 4, 2010

### Jicarilla 29-02-28 #1

Burro Canyon Tertiary / East Blanco Pictured Cliffs  
Surface: 884' FNL and 535' FWL, Section 28, T29N, R2W  
Bottom Hole: 782' FNL & 2581' FWL, Section 28, T29N, R2W  
Rio Arriba County, New Mexico / API 30-039-27066

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires the Operator to obtain an approved NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes\_\_\_\_, No X, Unknown\_\_\_\_  
Tubing: Yes X, No\_\_\_\_, Unknown\_\_\_\_, Size 2.375", Length 1761'.  
Packer: Yes\_\_\_\_, No X, Unknown\_\_\_\_, Type\_\_\_\_.  
If well has rods or a packer, then modify the work sequence in Step #2 as appropriate.  
Note: will need to pick up additional tubing workstring. Round trip gauge ring or casing scraper to 1284'.
4. **Plug #1 (Pictured Cliffs interval, Fruitland top, Whipstock window at 3518', Kirtland and Ojo Alamo tops, 3480' – 3083')**: RIH and tag existing CIBP at 3480'. Mix and pump 51 sxs Class B cement and spot a balanced plug above CIBP to isolate the Pictured Cliffs interval and cover through the Ojo Alamo top. PUH.
5. **Plug #2 (Nacimiento top, <sup>2004</sup>2133' – <sup>1904</sup>2033')**: Mix 17 sxs Class B cement and spot a balanced plug inside casing to cover the Nacimiento top. TOH.
6. **Plug #3 (San Jose perforations, 1184' – 1084')**: RIH and set CIBP at 1284'. *Pressure test casing to 500 PSI. If casing does not test then spot or tag subsequent plug as appropriate.* Mix 17 Class B cement and spot a balanced plug inside casing above CIBP to isolate the San Jose perforations. PUH.
7. **Plug #4 (8.625" Surface Casing, 320' – Surface)**: Attempt to pressure test the bradenhead annulus to 300#. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 40 sxs Class B cement and spot a balanced plug from 320' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth per BLM / NMOCD requirements and attempt to circulate cement to surface filling the casing and the annulus.

8. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

# Jicarilla 29-02-28 #1

## Proposed P&A

Burro Canyon Tertiary / East Blanco Pictured Cliffs

Surface: 884' FNL & 535' FWL, Section 28, T-29-N, R-2-W

Bottom Hole: 782' FNL & 2581' FWL, Section 28, T-29-N, R-2-W

Rio Arriba County, NM, API #30-039-27066

Today's Date: 2/4/10

Spud: 9/10/02

Completed: 5/3/05

Elevation: 7148' GL

7161' KB

San Jose @ Surface

Nacimiento @ 2083'

Ojo Alamo @ 3133'

Kirtland @ 3208' \*est

Fruitland @ 3438'

Pictured Cliffs @ 3510'

5.5" 15.5#, J-55 Casing set @ 3718' TVD  
Cmt with 1170 sxs

12.25" hole

7.875" Hole

MDTD 3725'  
PBSD 3644'  
MDTD 5620'

TOC @ Surface (CBL)

8.625" 24# Casing set @ 270'

Cement with 150 sxs, circulated to surface

Plug #4: 320' - 0'  
Class B cement, 40 sxs

CIBP @ 1184'

San Jose Perforations:  
1244' - 1709'

Plug #3: 1184' - 1084'  
Class B cement, 17 sxs

Plug #2: 2133' - 2033'  
Class B cement, 17 sxs

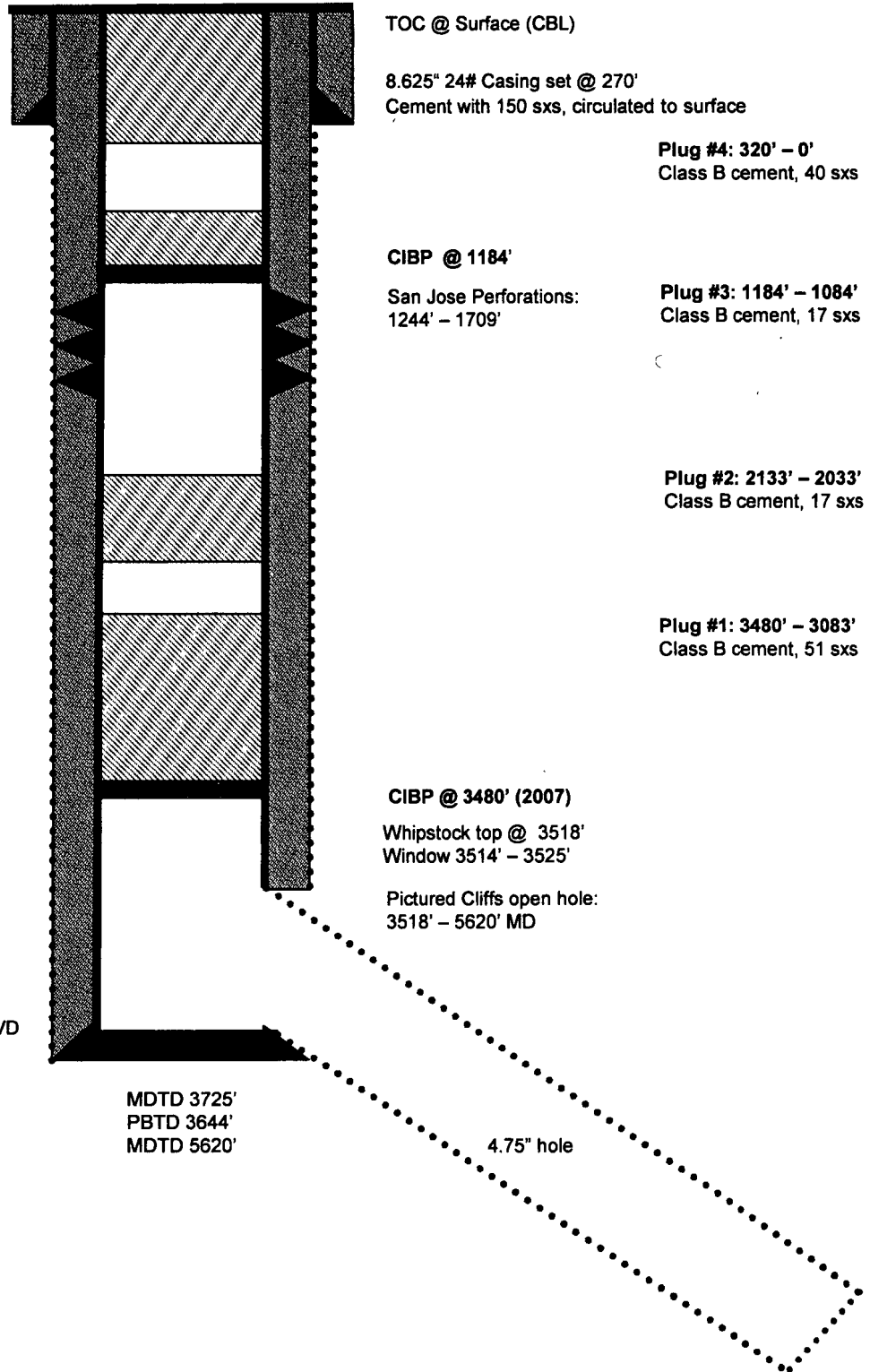
Plug #1: 3480' - 3083'  
Class B cement, 51 sxs

CIBP @ 3480' (2007)

Whipstock top @ 3518'  
Window 3514' - 3525'

Pictured Cliffs open hole:  
3518' - 5620' MD

4.75" hole



# Jicarilla 29-02-28 #1

## Current

Burro Canyon Tertiary / East Blanco Pictured Cliffs

Surface: 884' FNL & 535' FWL, Section 28, T-29-N, R-2-W

Bottom Hole: 782' FNL & 2581' FWL, Section 28, T-29-N, R-2-W

Rio Arriba County, NM, API #30-039-27066

Today's Date: 2/4/10

Spud: 9/10/02

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Elevation: 7148' GL

7161' KB

San Jose @ Surface

Nacimiento @ 2083'

Ojo Alamo @ 3133'

Kirtland @ 3208' \*est

Fruitland @ 3438'

Pictured Cliffs @ 3510'

5.5" 15.5#, J-55 Casing set @ 3718' TVD  
Cmt with 1170 sxs

12.25" hole

7.875" Hole

MDTD 3725'  
PBSD 3644'  
MDTD 5620'

TOC @ Surface (CBL)

8.625" 24# Casing set @ 270'  
Cement with 150 sxs, circulated to surface

2.375" tubing at 1761'  
(54 jts and SN)

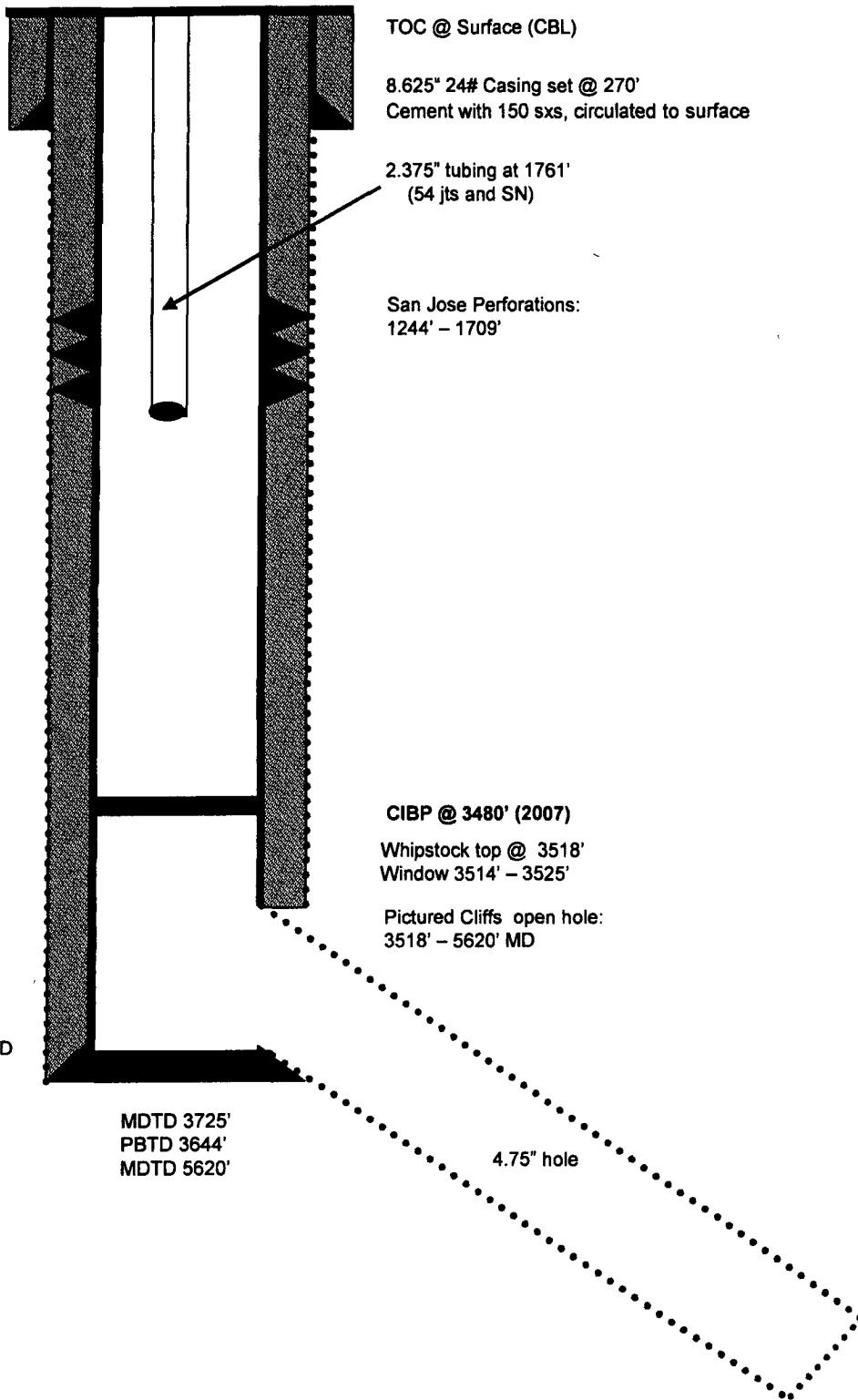
San Jose Perforations:  
1244' - 1709'

CIBP @ 3480' (2007)

Whipstock top @ 3518'  
Window 3514' - 3525'

Pictured Cliffs open hole:  
3518' - 5620' MD

4.75" hole



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: 1 Jicarilla 29-2-28

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made:
  - a) Place the Nacimiento plug from 2004' – 1904'.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.