

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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, Inc.

3a. Address
P.O. Box 249 Bloomfield, NM 87413

3b. Phone No. (include area code)
505-634-1111

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit H, Sec 21, T30N, R03W 1450' FNL & 824' FEL

5. Lease Serial No.

Contract 460

6. If Indian, Allottee, or Tribe Name
Jicarilla Apache Tribe

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

8. Well Name and No.

Jicarilla 460-21 #2

9. API Well No.

30-039-25867

10. Field and Pool, or Exploratory Area

Cabresto Canyon, Tertiary

11. County or Parish, State

Rio Arriba, NM

12. 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 reclamantion, 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 this well as per the attached procedure dated 9-26-2006.



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

Name (Printed/ Typed)

Loren Diede

Title

Consultant (Agent)

Signature

Date

9-28, 2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

SEP 29 2006

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

Black Hills Gas Resources

P&A Procedure

For the

JICARILLA 460-21 #2

API # 30-039-25867

SE NE Sec 21, T30N, R3W

Rio Arriba County, New Mexico

GL=7260', KB=7273', TD=4040', PBTD= 3902'

Surface casing:	8-5/8", 24 lb/ft, @ 551', TOC = surf	
Production casing:	5 1/2" 15.5lb/ft, J-55 @ 4013' 2 stg cement, TOC=Surf	
Production Tubing:	None, (Well is TA)	
Current Perforations:	Ojo Alamo	3253-3299 under CIBP@ 3127'

Proposed Work: Re complete the Nacimiento

This well has the potential for H2S production; all personnel on location are to be H2S current.

1. Conduct safety meeting with all personnel to discuss the scope of this completion.
2. MIRU completion rig, ND WH, NU BOP.
3. TIH with workstring and drill/mill out CIBP @ 3127'. See note above regarding H2S. TOOH.
4. TIH with workstring, bit and scraper to +/- 3250'. TOOH.
5. TIH with workstring to +/- 3825'.
6. MIRU cementers. Pump a balanced plug (32 cu ft, 23 sx) of Type III cement from 3825' to 3586' to cover the Pictured Cliffs, Fruitland Coal formation tops.
7. Pull up to 3543'. Pump a balanced plug (20.8 cu ft, 15 sx) of Type III cement from 3543' to 3393'. To cover the Kirtland formation top. TOOH.
8. TIH with cement retainer and set retainer @ 3201'. Pump (13.9 cu ft, 10 sx) Type III cement through retainer. Sting out of the retainer and pump (13.9 cu ft, 10 sx) Type III cement on top of the retainer.
9. Pull up to 2139'. Pump a balanced plug (20.8 cu ft, 15 sx) of Type III cement from 2139 to 1989' to cover the Nacimiento formation top.
10. Pull up to 601'. Pump a balanced plug (20.8 cu ft, 15 sx) of Type III cement from 601' to 451'.

11. Pull up to 50'. Pump a cement plug (7 cu ft, 5 sx) of Type III cement from 50' to surface. Top off as needed.
12. Remove all surface equipment and prepare the location for reclamation.

Type III cement @ 14.5 ppg = 1.39 cu ft/sx
Type V cement @ 14.8 ppg = 1.32 cu ft/sx
Class B cement @ 15.6 ppg = 1.18 cu ft/sx

Formation tops:

Nacimiento	2089
Ojo Alamo	3251
Kirtland	3493
Fruitland Coal	3686
Pictured Cliffs	3775
Lewis	3857

Initiated by:

Loren Diede, 9-26-06

Approved by:

Leslie Lam

First call for services will be:

P&A	:	A-Plus	325-1211
Cement:		A-Plus	325-1211
Tools:		open	
Trucking:		open	

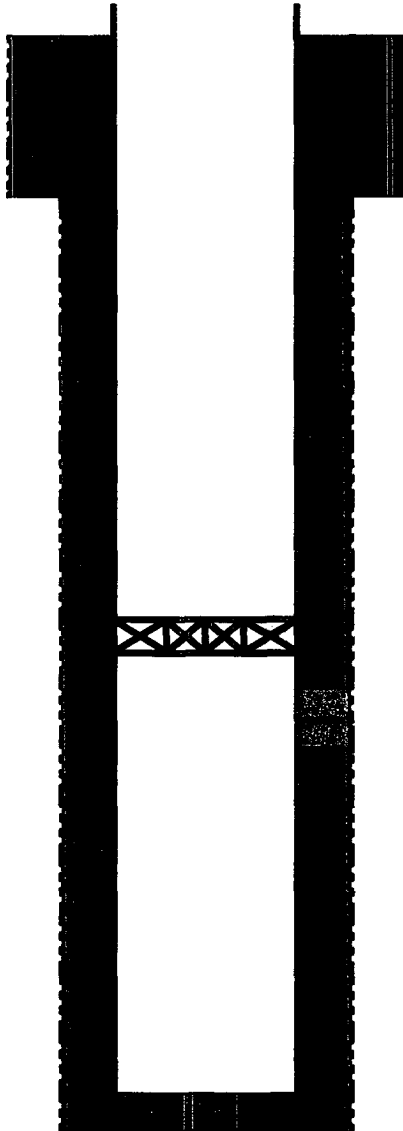
JICARLLA EMERGENCY NUMBERS

Hospital/Ambulance	911
Helicopter	505 334-6622
Fire/ Rescue	505 759-3254
Non Emergency	505 334-6622
Sheriff (San Juan)	505-334-6622
State Police	505 325-7547
Jicarilla PD	505 759-3222
Non Emergency	505 334-6622

Jicarilla 460-21 #2
Current Wellbore Diagram
API #30-039-25867
UNIT H SE NE, Sec 21, T30N, R03W Rio Arriba, NM

Elev. GL= 7260'
Elev. KB= 7273 '

SURF CSG
8 5/8" 24# @ 551'
KB, TOC surf



PROD CSG
5 1/2" 15.5# @ 4013'
KB; cmt; 2 stage,
TOC = surf

TA CIBP @ 3127

Ojo Alamo perfs: 3253-3299 4 jspl, frac 7-9-1998 w/
51800# 12/20 foam frac

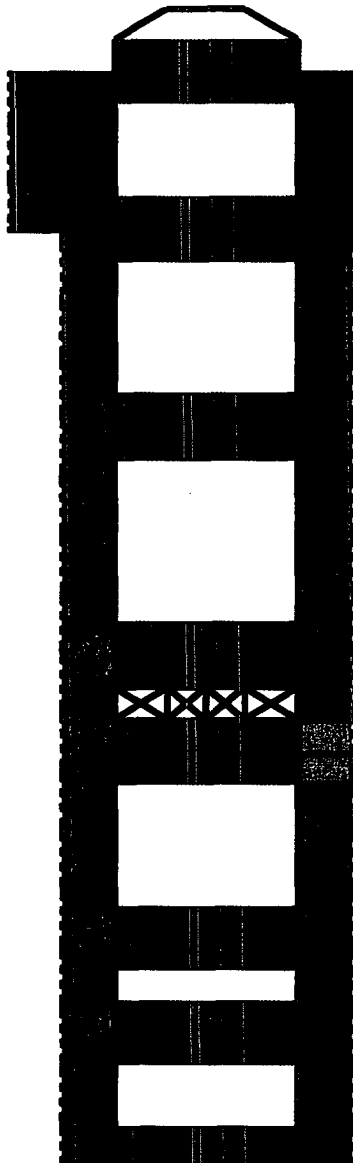
PBTD=3902'
TD=4040' KB

Prepared: 26-Sep-06

Jicarilla 460-21 #2
P & A Wellbore Diagram
API #30-039-25867
UNIT H SE NE, Sec 21, T30N, R03W Rio Arriba, NM

Elev. GL= 7260'
Elev. KB= 7273'

SURF CSG
8 5/8" 24# @ 551'
KB, TOC surf



Plug #6, 0-50 ft

Plug #5, 451-601 ft

Plug #4, 1989-2139 ft

Plug #3 3051-3201 ft, 3201-3299 ft
Retainer @ 3201

Ojo Alamo perms: 3253-3299 4 js pf, frac 7-9-1998 w/
51800# 12/20 foam frac

Plug #2, 3393-3543 ft

Plug #1, 3586-3825 ft

PROD CSG
5 1/2" 15.5# @4013'
KB; cmt; 2 stage,
TOC = surf

PBTD=3902'
TD=4040' KB

Prepared: 26-Sep-06

The Jicarilla Apache Nation requires 45 days to evaluate this well beginning from 9/29/06 in order to determine if they would like to assume ownership of the well. If the Jicarilla Apache Nation has not contacted your office before the end of the 45 days you may proceed with plugging operations.