

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

1. TYPE OF WELL Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: _____		5. LEASE SERIAL NO. MDA 701-98-0013, Tract 4
2. NAME OF OPERATOR Black Hills Gas Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache Nation
3. ADDRESS AND TELEPHONE NO. P.O. Box 249 Bloomfield NM 87413 CONTACT: Lynn Benally PHONE: 505.634.1111 Fax: 505.634.1116		7. IF UNIT OR CA, AGREEMENT DESIGNATION -
4. LOCATION OF WELL (Footage, T, R, M, or Survey Description) 1,105' FNL 1,085' FWL Sec. 4 T 29N R 2W		8. WELL NAME AND NO. Jicarilla 29-02-04 21
9. API WELL NO. 30-039-27674		10. FIELD AND POOL, OR EXPLORATORY AREA East Blanco / Pictured Cliffs
11. COUNTY OR PARISH, STATE Rio Arriba, New Mexico		

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Production (start/resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 of all pertinent markers and zones. Attach the Bond under which the work will be 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 Notices 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.)

- See violation letter dated 11/10/05.

The APD for this well was submitted to Bureau of Land Management (BLM) in Rio Puerco and to the New Mexico Oil Conservation Division (NMOCD) on May 13, 2003. The well was approved by the BLM on March 24, 2004, and given API#: 30-039-27674. Black Hills Gas Resources, Inc. plans to re-enter and directionally drill to the Pictured Cliffs formation with the horizontal bore ending at 1,675' FNL and 1,894' FEL in Section 4 T29N R2W.

Bond #: NMB000230

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

Name (Printed/Typed) Kathy L. Schneebeck, 303.820.4480	Title: Permit Agent for Black Hills Gas Resources, Inc.
Signature <i>Kathy L. Schneebeck</i>	Date: February 2, 2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE.

Approved by	Title	Date
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.	Office	ACCEPTED FOR RECORD MAR 20 2006

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

Directional Survey Attached

NMOCD

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised June 10, 2003

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

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

1220 South St. Francis Dr.

State Lease - 4 Copies

Fee Lease - 3 Copies

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

Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-039-27674	'Pool Code 72400	'Pool Name E. Blanco PL San Jose Territory
'Property Code	'Property Name JICARILLA 29-2-4	'Well Number 21
'OGRID No. 013925	'Operator Name BLACK HILLS GAS RESOURCES	'Elevation 7712'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	4	29-N	2-W		1105'	NORTH	1085'	WEST	RIO ARRIBA

11 Bottom Hole Location If Different From Surface

UL or lot no. H	Section 4	Township 29-N	Range 2-W	Lot 14n	Feet from the 1675'	North/South line NORTH	Feet from the 1894'	East/West line EAST	County RIO ARriba
²² Dedicated Acres 320 N2 160 acres - NW/4			²³ Joint or Infill		²⁴ Consolidation Code		²⁵ 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

14 FD. MARKED STONE	EAST	5280' (R)	CALC'D CORNER	
LOT 4	LOT 3	LOT 2	LOT 1	
1105' 1085'	LAT. 36°45.5' N (NAD 83) LONG. 107°03.2' W (NAD 83)			
5311.0' (N)	BHL			
S 02-11-16 W	4			
CALC'D CORNER				


17 OPERATOR CERTIFICATION

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

Kathy L. Schneebeck
 Signature
 Kathy L. Schneebeck
 Printed Name
 Permit Agent for Black Hills
 Title
 February 2, 2006
 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.

APRIL 9 2003
 Date of Survey
ROY A. RUSH
 Signature and Seal of Registered Professional Surveyor

 Certificate Number

17 OPERATOR CERTIFICATION

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

Kathy L Schnebeck

Signature
Kathy L. Schneebeck

Printed Name
Permit Agent for Black Hills

Title
February 2, 2006

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.

APR 9 1963
Date of Survey

Signature and Seal of Professional Surveyor.

Certificate Number

Black Hills Gas Resources, Inc.

Jicarilla 29-02-04 21

API#: 30-039-27674

Surface: 1,105' FNL 1,085' FWL (NW/4 NW/4) – Lot 4

End of Horizontal Bore: 1,675' FNL 1,894' FEL (SW/4 NE/4)

Sec. 4 T29N R2W

Rio Arriba County, New Mexico

Lease: MDA 701-98-0013. Tract 4

DRILLING PROGRAM

This Sundry Notice is submitted per CFR 3162.3-2. The existing well pad and reserve pit will be utilized “as is.”

This is a horizontal entry into of the existing Jicarilla 29-02-04 21 well to the San Jose Tertiary Formation.
See also the attached Horizontal Re-completion Plan.

SURFACE FORMATION – San Jose. Surface water protection plan: Surface casing will be cemented to surface.

GROUND ELEVATION – 7,712' GL

ESTIMATED FORMATION TOPS (Water, oil, gas and/or other mineral-bearing formations).

All Depths are True Vertical Depth (TVD)

San Jose	Surface	Sandstone, shales and siltstones
Nacimiento	2,466'	Sandstone, shales and siltstones
Ojo Alamo	3,634'	Sandstone, shales and siltstones
Kirtland	3,812'	Sandstone, shales and siltstones
Fruitland	4,054'	Sandstone, shales and siltstones
Pictured Cliffs	4,280'	Sandstone, shales and siltstones

TOTAL DEPTH 3,991.50' TVD (projected end of horizontal hole)
 6,208.00' MD (projected end of horizontal hole)

Estimated depths of anticipated fresh water, oil, or gas:

Tertiary

San Jose	1,333'	Gas
Nacimiento	2,466'	Gas
Ojo Alamo	3,634'	Gas
Fruitland	4,054'	Gas
Pictured Cliffs	4,280'	Gas

RE-ENTRY – HORIZONTAL DRILLING PROGRAM

- A) A 2,000-psi WP double-gated BOP will be installed on the tubing head with blind rams on bottom and pipe rams on top controlled by an accumulator placed within easy access to drill and other crew members.
- B) No annular preventor will be placed above BOP stack.
- C) There is currently no whipstock set in the hole.
- D) A bridge plug was placed at 1,700' in the San Jose.
- E) The current well spud on May 4, 2004.

- F) A DV Tool was initially set at 3,533' and drilled out at completion of the current well.
 G) Window to be milled out of 5-1/2" csg at $\pm 3,570'$.
 H) Kick-off Point is estimated to be at $\pm 3,570'$.

CASING & TUBING PROGRAM

True Vertical Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0' – 235'	12-1/4"	8-5/8"	K-55 24# ST&C	To surface (previously set)
0' – 4,494'	7-7/8"	5-1/2"	J-55 17# LT&C	To surface (previously set)
0' – 5,318' (MD)	4-3/4"	2-3/8"	Tubing	None
5,318' – 6,208' (MD)	4-3/4"	Open hole	None	None

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and protected.

PRESSURE CONTROL

BOPs and choke manifold will be installed and pressure tested before drilling out under surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOP's will be pressure tested at least once every 30 days. Ram type preventors and related pressure control equipment will be pressure tested to 1,000 psi. Annular type preventor will be pressure tested to 50% of the rated working pressure, not to exceed 1,000 psi. All casing strings will be pressure tested to 0.22 psi/ft. or 1,000 psi, whichever is greater, not to exceed 70% of internal yield.

BOP to be either double gate rams or an annular preventor as per Onshore Order No. 2.

Statement on Accumulator System and Location of Hydraulic Controls

Manual and/or hydraulic controls will be in compliance with Onshore Order No. 2 for 2M systems.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at the time of the BLM supervised BOP test.

MUD PROGRAM

3,570' - 6,208' MD Low solids non-dispersed
 M.W. 8.5 – 9.2 ppg
 Vis 28 – 50 sec
 W.L. 15cc or less

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kick" will be available at wellsite.

AUXILIARY EQUIPMENT

- A) A Kelly cock will be kept in the drill string at all times
- B) Inside BOP or stab-in valve (available on rig floor)
- C) Mud monitoring will be visually observed
- D) Testing: None anticipated.

LOGGING, CORING, TESTING PROGRAM

- A) Logging: None
- B) Coring: None
- C) Testing: A flow test will be run after completions but no other testing is anticipated.

ABNORMAL CONDITIONS

- A) Pressures: No abnormal conditions are anticipated
Bottom hole pressure gradient – 0.31 psi/ft
- B) Temperatures: No abnormal conditions are anticipated
- C) H₂S: See H₂S Plan if H₂S is encountered.
- D) Estimated bottomhole pressure: 1,240 psi

ANTICIPATED START DATE

May 4, 2005

COMPLETION

The location pad is of sufficient size to accommodate all completion activities and equipment. A string of 2-3/8" J-55 4.7#/ft tubing will be run for a flowing string. A Sundry Notice will be submitted with a revised completion program if warranted.

Hydrogen Sulfide Drilling Operations Plan

I. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H_2S).
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H_2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H_2S Safety Equipment and Systems

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

A. Well control equipment:

1. Choke manifold with a minimum of one remote choke.
2. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

B. Protective equipment for essential personnel:

1. Mark II Surviveair 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

C. H₂S detection and monitoring equipment:

1. Two portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 10 ppm are reached.

D. Visual warning systems:

1. Wind direction indicators as shown on well site diagram.
2. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate. See example attached.

E. Mud program:

1. The mud program has been designed to minimize the volume of H₂S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

F. Metallurgy:

1. All drill strings, casings, tubing, wellhead, blowout preventors, drilling spools, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
2. All elastomers used for packing and seals shall be H₂S trim.

G. Communication:

1. Cellular telephone communications in company vehicles.

H. Well testing:

1. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill stem testing operations conducted in an H₂S environment will use the closed chamber method of testing.