Form 3160-5 (April 2004) '

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 tiffs effiler and 5 abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED OMB No. 1004-0135

Expires: March 31, 2007

LEASE SERIAL NO.	•

MDA 701-98-0013 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

5 Jicarilla Apache Nation

SUBMIT IN TRIPLICATE RECEIVED	
1 TYPE OF WELL 070, FARMINGTO	8. WELL NAME AND NO.
Oil Well Gas Well X Other:	Jicarilla 29-2-6 No. 3
2. NAME OF OPERATOR	9. API WELL NO.
Black Hills Gas Resources, Inc.	30-039-26858
3. ADDRESS AND TELEPHONE NO. CONTACT: LYON Benally	10. FIELD AND POOL, OR EXPLORATORY AREA
PO Box 249 PHÓNE: 505,634 1111, Ext. 27 Bloomfield NM 87413	East Blanco / Pictured Cliffs
4. LOCATION OF WELL (Footage, T, R, M, or Survey Description) 710' FNL 460' FWL Sec. 6 T29N 2 R 2W	11. COUNTY OR PARISH, STATE Rio Arriba New Mexico
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION T	YPE OF ACTION
X Notice of Intent Acidize Deepen	Production (start/resume) Water Shut-Off
Alter Casing Reclamation	Reclamation Well Integrity
Subsequent Report Casing Repair New Construction	X Recomplete Other
Change Plans Plug and Abandon	Temorarily Abandon
Final Abandonment Notice Convert to Injection Plug Back	Water Disposal
true vertical depths of all pertinent markers and zones. Attach the Bond under which the wo with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involve completion or recompletion in a new interval, a form 3160-4 shall be filed once testing has be filed only after all requirements, including reclamation, have been completed, and the opera inspection. The location was permitted for Mallon Oil Company now known as Black Hills Application for Permit to Drill (APD) submitted to the Bureau of Land Manage New Mexico Oil Conservation Division (NMOCD) on June 5, 2001. This APD the BLM on October 30, 2001. Black Hills proposed to re-enter and horizontal End of lateral bore is anticipated to be 1,000' FNL and 100' FEL (NE/4 NE/4) Drilling Program, BOP Diagram, Hydrogen Sulfide Drilling Operations Plan at Please send a copy of all correspondence to Banko Petroleum Management Englewood, CO 80112-5849. Please contact David Banko or Kathy Schneeb david@banko1.com or kathys@banko1.com, respectively, if you have any questions.	ed operations. If the operation results in a multiple seen completed. Final Abandonment Notices shall be tor has determined that the site is ready for final as Gas Resources, Inc. (Black Hills) with an ment (BLM) in Farmington, New Mexico, and the was given API# 30-039-26858 and approved by ally drill this location with a southeast lateral bore. of Section 6 T29N R2W. Please find: Revised and Horizontal Drilling Plan.
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.
Laty I Schneibeck Date: July 22	2, 2005
THIS SPACE FOR FEDERAL OR STATE Approved by	OFFICE USE.
translata little to En	Date 8/8/05
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.	

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87413

OIL CONSERVATION INVISION 5 9 15 State Lease - 4 Copies Fee Lease - 3 Copies P.O. Box 2088 Santa Fe, NM 87504-2088 RECEIVED

☐ AMENDED REPORT

PO Box 2088, Santa Fe, NM 87604-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-26858	*Pool Code 72400	East Blanco/Pictured Cliffs
⁴ Property Code 25495	Property Name JICARILLA 29-02-06	• Well Humber 3
70GRID No. 013925	Black Hills Gas Resources Inc	* Elevation 7387'

10 Surface Location

UL or lot no.	Section 6	Township 29-N	Range 2-W	Lot Idn	Post from the 710'	North/South line NORTH	Peet from the 460'	WEST	RIO ARRIBA
			¹¹ Bott	om Hole	Location I	f Different Fr	om Surface		
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	Best/West line	County
A	.6	29-N	2-W		1000'	North	100'	East	Rio Arriba
Dedicated Acre	14 14		" Joint or	Infill	* Consolidation	ode	*Order No.		
14	3-7	325.68	4			:		er en	er er er er er
	~.~!			i a .				and the second second	

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

	OR A NON-STANDARD UNIT HAS E	DEEN AFFROVED BI	THE DIVISION
(1359')	(1314') \$ 89-37-03 E 5300.70' BC 1917	FD. 1 1/2" AC STAMPED "LS 8894"	17 OPERATOR CERTIFICATION / Aeroby certify that the information contained herein is true and complete to the best of my knowledge and better
460'	LOT 3 LOT 2	LOT 1	
	ASS LAT. 36'45'34"N LONG. 107'05'29"W	внг О	
2647.60° 24 333 ¥ 1947.60° 24			Signature Kathy L. Schneebeck Printed Name Permit Agent for Black Hills Gas Resources, Inc. Title July 22, 2005
FD. U.S.G.L.O. BC 1917 LOT 6			Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by one or under my experision, and that the same is true and correct to the best of my belief.
L OT 7			Date of Spreey Signature and Soal of Professional Surveyor. SSGAR SSGAR Cartificate Number

Black Hills Gas Resources, Inc. Jicarilla 29-02-06 3 API #30-039-26858

Surface: 710' FNL 460' FWL (NW/4 NW/4)

End of Horizontal Hole: 1,000' FNL 100' FEL (NE/4 NE/4)

T29N R2W Sec. 6

Rio Arriba County, New Mexico Lease: MDA 701-98-0013

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 and a deepening of the existing well Jicarilla 29-02-06 3 to the Pictured Cliffs Formation. See also the attached Horizontal Re-completion Plan.

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

GROUND ELEVATION - 7,387' 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	2,600'	Sandstone, shales and siltstones
Ojo Alamo	3,030°	Sandstone, shales and siltstones
Kirtland	3,358'	Sandstone, shales and siltstones
Fruitland	3,468'	Sandstone, shales and siltstones
Pictured Cliffs	3,660°	Sandstone, shales and siltstones
Lewis	3,800°	Sandstone, shales and siltstones

TOTAL DEPTH 3,741.' TVD (end of horizontal hole) 4,725.82' TVD (anticipated horizontal section) 8,566.11' MD

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

Tertiary

San Jose	1,300'	Gas
Nacimiento	2,600'	Gas
Ojo Alamo	3,030'	Gas
Fruitland	3,468'	Gas
Pictured Cliffs	3,660'	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) Well was never completed.
- D) Retrievable whipstock to be set at $\pm 3,796$ '.

- E) Window to be milled out of 5-1/2" csg at $\pm 3,780$ ' 3,796'.
- F) Kick-off Point is estimated to be at 3,784' based on collar locations at 3,685'; 3,729'; 3,774'; and 3,819'.

CASING PROGRAM

True Vertical Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0' – 274'	12-1/4"	8-5/8"	K-55 24# ST&C	To surface (previously set)
0' - 3,957'	7-7/8"	5-1/2"	K-55 15.5# LT&C	To surface (previously set)
3,957' – 8,566' (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

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. 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

3,957' - 8,566' 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:

CBL-CCL log will be run prior to beginning squeeze work.

B) Coring:

None

C) Testing:

None

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) H_2S :

See H₂S Plan if H₂S is encountered.

D) Estimated bottomho

Estimated bottomhole pressure: 1,160 psi

ANTICIPATED START DATE

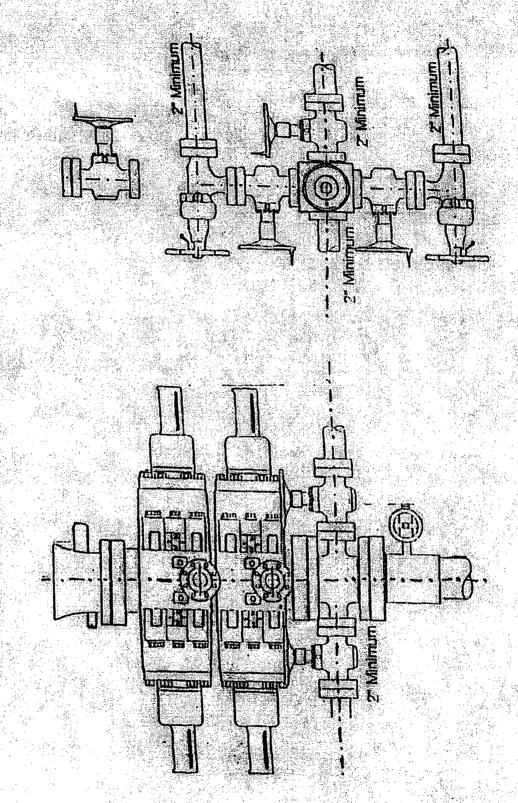
August 15, 2005

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.

2-M SYSTEM Black Hills Gas Resources, Inc.

ANNULAR PREVENTOR MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTORS BOP PRESSURE TEST TO 1,000 PSI



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 (H₂S).
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S 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 H₂S 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 H₂S 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. H₂S 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.
- 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:

- 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:

 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.

Black Hills Gas Resources Jicarilla 29-02-06 #3H

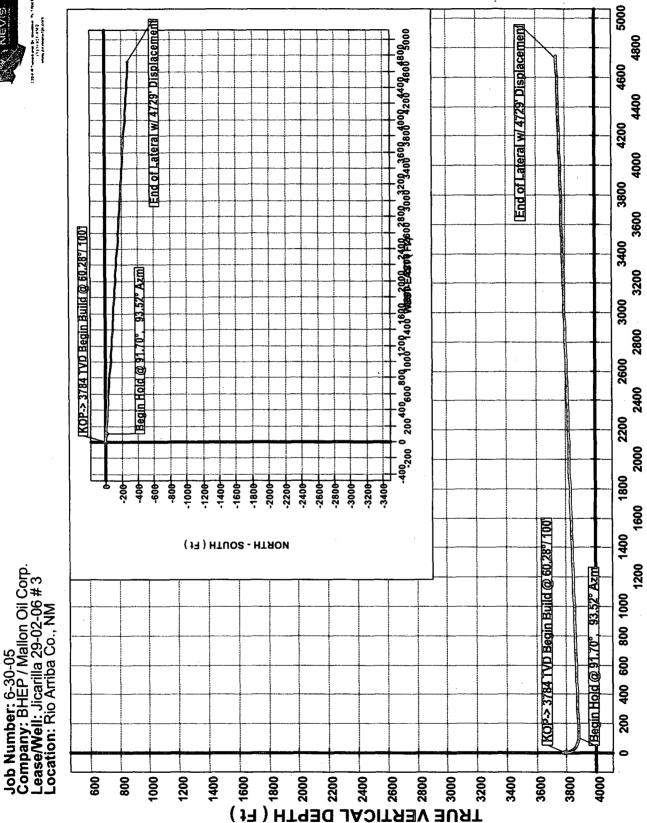
API No. 3003926858 710' FNL & 460' FWL (NWNW) Unit D Lot 4 Section 6 T29N - R02W

East Blanco Field, Rio Arriba County, New Mexico

Top of Coal:	3665		Ground Elevation:	7387'
Bottom of Coal:	3764	1	KB Elevation:	7400' (13' KB)
KOP:	3784		Surface Casing:	8-5/8" 24# K-55 ST&C @ 274'
At Well - (NWNW) SE) SEC 6 T29N - R02W		Production Casing:	5-1/2" 15.5# K-55 LT&C @ 3957'
Top of PC:	3777	Ī	Plugback TD:	3300'
PC Target Line:	3838		Perfs: San Jose:	
Bottom of PC:	3880	4	Perfs: Nacimiento:	
Top of Lewis:	3880	1	Perfs: Ojo Alamo:	
At BHL - (NENE) SEC	(NENE) SEC 6 T29N - R02W	F	Perfs: Pictured Cliffs:	
Proposed BHL:	1000 FNL & 100 FEL		Completion:	Never completed
Azimuth	93.52			No Tubing in the Hole
Top of PC:	3740			
PC Target Line:	3745			

Note: Window for kick-off will be cut from 3780 - 3896. KOP is estimated to be at 3784'. Collar locations at 3685, 3729, 3774 & 3819. Lateral will be drilled from sump to TD at constant build.





VERTICAL SECTION (Ft) @ 93.52°