Form 3160- 5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004- 0137

	BUREAU OF LAND MAN	IAGEMENT		:	Expires: March 31, 2007	
SUNDRY NOTICES AND REPORTS ON WELLS					5. Lease Serial No.	
				Contract 461 6. If Indian, Allottee, or Tribe Name		
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (ARD);for;such proposals.						
				Jicarilla Apa	. Agreement Name and/or No.	
1. Type of Well	IPLICATE - Other Instructions			7. If Ollit of CA	. Agreement Name and of No.	
Oil Well	Other	EC 182007		8. Well Name a	nd No.	
2. Name of Operator				Jicarilla 461	-13 #13	
Black Hills Gas Resources	Bureau	u of Land Mana	Janes	9. API Well No.		
3a. Address	^F 36	Phone No. (includ	le area code)	30-039-293		
3200 N 1st Street PO Box 2	49 Bloomfield, NM 87413 50	05-634-1111 e:	xt 27	10. Field and Po	ol, or Exploratory Area	
4. Location of Well (Footage, Sec., T.	• • •			E. Blanco/Pictured Cliffs		
Surface: 1,130' FNL 1797 FF	EL NW/NE Unit B Sec 13 T3	ON R3W		11. County or Parish, State Rio Arriba, New Mexico		
CHECK APPROP	PRIATE BOX(S) TO INDICATE	NATURE OF N				
TYPE OF SUBMISSION		TYP	E OF ACTION			
Notice of Intent	Acidize De	eepen	Production (St	art/ Resume)	Water Shut-off	
:	Altering Casing Fra	acture Treat	Reclamation		Well Integrity	
Subsequent Report		ew Construction	Recomplete		Other	
Suosequent Report		ag and abandon	Temporarily Al	bandon	Convert Dakota well	
					to San Jose	
Final Abandonment Notice	Convert to Injection Phoperation (clearly state all pertinent details in	ug back	Water Disposa			
determined that the site is ready for The Jicarilla 461-13 #1 evaluation of data from determined that this we plan and a revised NM	bandonment Notice shall be filed only after final inspection.) 13 was approved as a Dakon recently drilled wells in the ell is best drilled into the Sail State Form C-102, to chan will not change from the initial	ta (DK) well, v immediate a n Jose (SJ) fo ge the well fro	with an API nu rea, Black Hill ormation. BHO om a DK well t	mber 30-03 s Gas Reso SR is subm to a SJ well	39-29308. After ources (BHGR) has itting an updated drilling	
14. I hereby certify that the foregoing is Name (Printed/ Typed)	true and correct.	1				
Lynn H. Benally		Title	Re	egulatory Sp	ecialist	
Signature Musery		Date Dec	18,2007			
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
Orlainet of					DEC 1 9 2007	
Approved by Onginal Si Conditions of approval, if any are attack	gned: Stephen Mason hed. Approval of this notice does not wan	Title rant or		D	ate	
certify that the applicant holds legal or	equitable title to those rights in the subjec					
	tle 43 U.S.C. Section 1212, make it a cr			lly to make any	department or agency of the United	
(Instructions on page 2)	atements or representations as to any matter	widin its jurisdiction	L.			

NMOCD \mathscr{H}

File current plat

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 requited 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 information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

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DISTRICT I 1625 M. French Dr., Hobbs, N.M. 88240

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

DISTRICT III 1000 Rio Brezos Rd., Artec, N.M. 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 67606 ☐ AMENDED REPORT

¹ API Number	Pool Code Proof Name 97037 CABRESTO CANYO		
30-039-29308			ON TERTIARY
Property Code	*Property Name JICARILLA 461-13		* Well Number
23817			13
OGRID No.	Operator Name		* Elevation
013925	Black Hills Gas Resources		7528'

WELL LOCATION AND ACREAGE DEDICATION PLAT

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 13 30-N 3-W 1130 RIO ARRIBA 1797 **EAST NORTH** 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Dedicated Acres 12 Joint or Infill ²⁴ Consolidation Code ²⁵ Order No. 160

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

16				
PFD. U.S.G.L.O. BC. 1917	N 89-53-28	E 5259.76' (M)	FD. U.S.G.L.O. BC. 1917	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	LAT. 36-48-59 N LONG. 107-05-58 W	(NAD 83) (NAD 83)	1797'	
	1	3	5278.02'	Signature Lynn H. Benally Printed Name, Lesulutary Specialist Title Des 18, 7007
			0-	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 to true and correct, to the best of my belief.
				Date of Sur MEV
LOT 1	LOT 2	L ОТ 3	LOT 4 FD. U.S.G.L.O.	Signature Miniber 14831
			BC. 1917	Cerunoses attinber



Jicarilla 461-13 #13

Surface Location: 1,130' FNL 1,797' FEL Unit B (NW/NE)

Sec.13 T30N R03W

Rio Arriba County, New Mexico

Lease: Contract 461

DRILLING PROGRAM (Per Rule 320)

This Application for Permit to Drill (APD) was initiated under the NOS process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. This APD process includes an onsite meeting which was held on August 11, 2004 as determined by Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA) and Jicarilla Oil & Gas Administration (JOGA), and at which time the specific concerns of Black Hills Gas Resources (BHGR) were discussed.

This well was originally permitted and approved as a vertical PC well. This new drilling plan addresses changing the un-drilled well to a vertical SJ well.

SURFACE FORMATION - San Jose

GROUND ELEVATION -7,528'

ESTIMATED FORMATION TOPS - (mineral-bearing formations)

San Jose

Surface

Sandstone, shales & siltstones

TOTAL DEPTH

2200'

TVD

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

Tertiary

San Jose

surface

Gas

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0-250' TVD	12-1/4"	7"	J-55 23# ST&C New	To surface (± 175 sxs ClassB) **
0'-2200'	6-1/4"	4-1/2"	J-55 11.6# LT&C New	TD to surface (\pm 630 sxs lite or 65:35 poz and \pm 270 sxs 50:50 poz) *

* Actual cement volume to be determined by caliper log.

** Cement will be circulated to surface

Yields:

Surface: Standard cement yield = $1.2 \text{ ft}^3/\text{sx}$ (mixed at 15.6 lb/gal)

Production: Lite Standard Cement yield: = $1.59 \text{ ft}^3/\text{sx}$ (mixed at 13.4 lb/gal)

 $50:50 \text{ poz yield} = 1.27 \text{ ft}^3/\text{sx} \text{ (mixed at } 14.15 \text{ lb/gal)}$

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 conditions. 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

0' - 250' Fresh water – M.W. 8.5 ppg, Vis 30-33
250' - 2200' Clean Faze - 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 well site.

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

LOGGING, CORING, TESTING PROGRAM

A) Logging: DIL-CNL-FDC-GR - TD - BSC (GR to surface)

Sonic (BSC to TD)

B) Coring: None

C) Testing: Possible DST – None anticipated. Drill stem tests may be run on shows of interest

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 attached H₂S plan in event H₂S is encountered.

D) Estimated bottomhole pressure: 930 psi

ANTICIPATED START DATE

January 10, 2007

COMPLETION

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