Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.

MDA 701-98-0013, Tract 2

	•		6. If Ind	an, Allottee or Tribe N	lame
APPLICATION FOR PERM	Ji	Jicarilla Apache Nation			
1a. Type of Work X DRILL REE	NTER			t or CA Agreement, N	ame and No.
1b. Type of Well Oil Well X Gas Well Other				e Name and Well No. carilla 29-02-29	14
2. Name of Operator E-ma	ii: lbenally@bh	ep.com	9. API V	Vell No.	CK21
Black Hills Gas Resources, Inc. Contact: Lynn Benally			5	0-039-2	7556
3a. Address 350 Indiana Street, Suite 400		3b. Phone No. (include area	code) 10. Fiel	d and Pool, or Explore	atory
Golden CO 80401		505.634.1111	E	East Blanco Pictured Cliffs	
4. Location of Well (Report location clearly and in accordance with any State	•	NE /A NE /A	11. Sec	., T., R., M., or Blk. an	d Survey or Area
At surface 580' FNL 1,055' FEL		NE /4 NE /4	Se	c. 29 T 29	N R2W
Lat: 36° 42' 03.8" At proposed production zone	Long: 107	03 36.6	— A		
Distance in miles and direction from nearest town or post office. *	 		12 Cot	nty or parish	13. State
	mfield Now Ma	wiee	12.000	Rio Arriba	1
Well is located approximately 57 miles east of Bloom			1		New Mexico
15. Distance from proposed location to nearest Unit= n/a property of lease line, ft. (Also nearest Drig, unit	16. No. of acres			t dedicated to this wel	2005 26 250
line, if any) Lease= ±580'		0,240.0	160 /\	1-4	STRUCTUCY 200
18. Distance from proposed location to nearest Jicaril well, drilling, completed or applied for, on this 29-02-	1			.M/BIA Bond No. on file	
lease, ft. ± 1,500 ' 29-02-		4,000' TVD	NMB000		12 0 %.
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		date work will start *	23. Esti	mated duration⊆ 45–60 daws drig	70, 3, W
7,107 ' GR	May 2	26, 2005		45-60 days drig	F completion
	24. Attac	hments		6.5	ON ON
The following, completed in accordance with the requirements of	Onshore Oil and	Gas Order No. 1, shall be	attached to the	nis form:	(2/1/ 0. C O \ 8
Well plat certified by a registered surveyor.		4. Bond to cover t	he operations	unless covered by	an existing bond
2. A Drilling Plan.		on file (see Iten	-	•	Ū
3. A Surface Use Plan (if the location is on National F		5. Operator certifi			
System Lands, the SUPO shall be filed with the appropriate (a).	propriate	6. Such other site required by the		ation and/or plans cer.	as may be
				·	·
25. Signature	Name (<i>Pri</i> i	nted/Typed)		Date	
Lathy & Schneebelk	Kat	hy L. Schneebeck, 30	03.820.4480	April 2	21, 2005
Title Permit Agent for Black Hills Gas Reso	urces, Inc.				~.3
Approved by (Signature)	Name <i>(Pri</i> i	nted/Typed)		Date	3//
(1)/M	γ			70 //	20/
Title (antice to)	Office				£8/01
AFN	Onice	FFO		A RE	N'
Application approval does not warrant or certify that the applicant holds legal	i or equitable title to	those rights in the subject lear	se which would e	ntitle the applicant to o	
thereon,		-		\$ \$	
Conditiona of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section1212, make it a crim	ne for any person kn	owingly and willfully to make t	o any denadmen	\equiv \supset	led States any folio
fictitious, or fraudulent statements or representations as to any matter within	its jurisdiction.		AUTHORE	PED ARE SET	Sales any laise,
This action is subject to technical and	165.2	DRILLING OPERAT	THE STATE OF THE S	ATTACHED.	2
procedural review pursuant to 43 CFR 3 and appeal pursuant to 43 CFR 3165.4	100.0	"GENERAL REQUIF	REMENTS".		

DISTRICT 1 1825 N. French Dr., Hobbs, N.M. 88240

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

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

¹ API Number

Dedicated Acres

160 acres - NE/4

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 87505 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

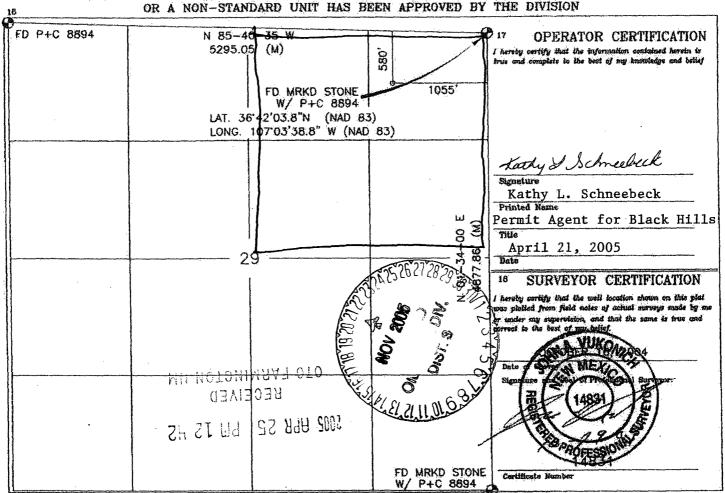
30-039-29	536	7240	00	E. Blanco / Pictured Cliffs				
Property Code 24 252 - 24245		*Property Name				**	* Well Number	
*00RID No. 013925		*Operator Name BLACK HILLS GAS RESOURCES					* Elevation 7107'	
		***************************************	10 Surfa	ace Location				
UL or lot no. Section A 29	1 Township 29-N	Range Lot 2-W	·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Peet from the 1055	East/West line EAST	RIO ARRIBA	
11 Bottom Hole Location If Different From Surface								
UL or lot no. Section	n Township	Renge Lot	Idn Fest from	the North/South	ne Feet from the	East/West line	County	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

16 Order No.

" Consolidation Code

18 Joint or Infill



District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

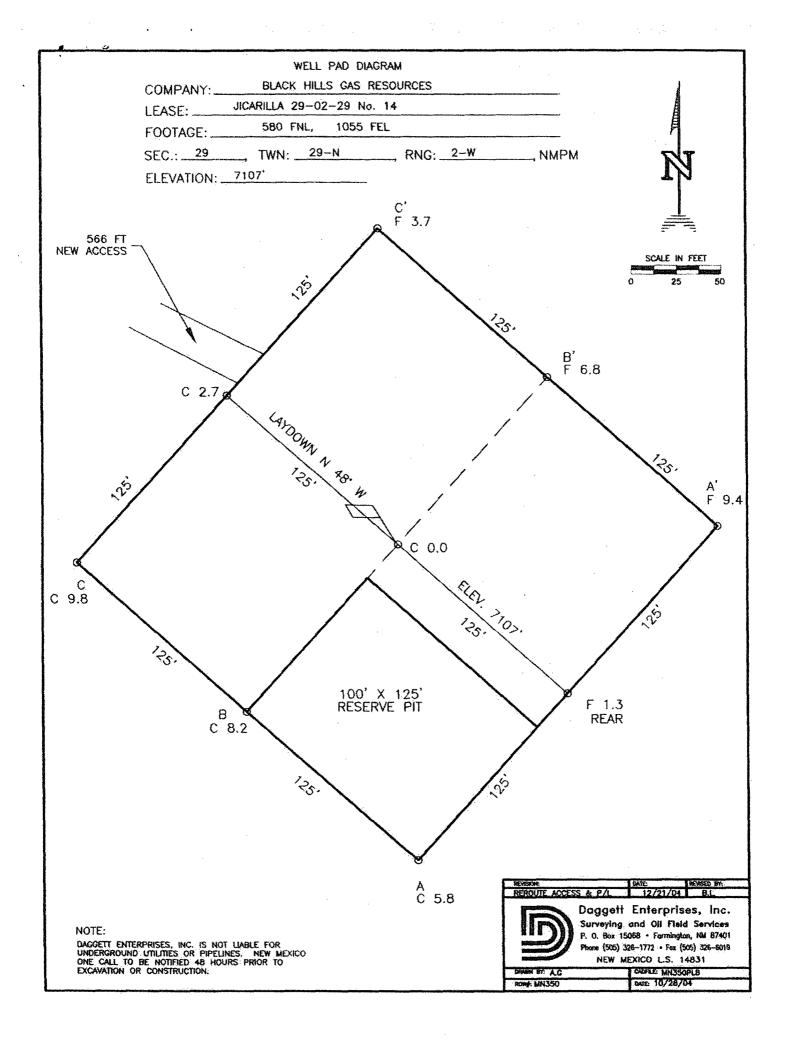
Oil Conservation Division

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe

Form C-144 June 1, 2004

1220 South St. Francis Dr. Santa Fe, NM 87505 Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank						
Operator: Black Hills Gas Resources, Inc. Te Address: 300 Indiana St. Suite 400, Golden, CO 80401 30-		address: <u>lbenally@bhep.com</u>				
Facility or well name: <u>Jicarilla 29-02-29 14</u> API #: County: <u>Rio Arriba</u> Latitude <u>36° 42' 03.8"</u> Longitude <u>107° 03' 3</u>	Pending U/L or Qtr/Qtr NENE	· ·				
Pit Type: Drilling ☑ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☑ Liner type: Synthetic ☐ Thicknessmil Clay ☑ Pit Volume ±17.811bbl	Below-grade tank	not, explain why not.				
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)				
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)				
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)				
'this is a pit closure: (1) attach a diagram of the facility showing the pit's our are burying in place) onsite \(\square\) offsite \(\square\) If offsite, name of facility mediation start date and end date. (4) Groundwater encountered: No \(\square\) ttach soil sample results and a diagram of sample locations and excavation	Yes I f yes, show depth below ground surface_	ral description of remedial action taken including				
Additional Comments: * Local contact in New Mexico is Lynn Benally at 505-634-1111 Ext. 27						
hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline Date: 04/21/05	es ⊠, a general permit □, or an (attached) alte	rnative OCD-approved plan .				
rinted Name/Title <u>Kathy L. Schneebeck / Permit Agent for Black Hills Cour certification and NMOCD approval of this application/closure does not therwise endanger public health or the environment. Nor does it relieve the egulations.</u>	not relieve the operator of liability should the conte					
Approval: GAS GAS CONTROL Trinted Name/Title	Signature	Date: NOV 21 2005				



WELL PAD CROSS-SECTIONAL DIAGRAM

	COMPANY:	BLACK HILLS GAS	RESOURCES		Mindauranensauran, Mindauranensauran
	LEASE:	JICARILLA 29-02-	29 No. 14		***************************************
	FOOTAGE:	580' FNL 10	55' FEL		Married Married Control of the Contr
	SEC.: 29	_, TWN:29-N.	, RNG:	2-W	, NMPM
	ELEVATION:	7107'	neud francescocce	,	
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CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0'-250'	12-1/4"	8-5/8"	J-55 24# ST&C New	To surface (±175 sxs Class B)
0' - T.D.	7-7/8"	5-1/2"	J-55 15.5# LT&C New	TD to surface (±630 sxs lite or 65:35 poz and ±270 sxs 50:50 poz)*

^{*} Actual cement volume to be determined by caliper log.

Yields: Class B yield = $1.18 \text{ ft}^3/\text{sx}$

65:35 Poz yield = $1.62 \text{ ft}^3/\text{sx}$ 50:50 Poz yield = $1.26 \text{ ft}^3/\text{sx}$

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

0' - 250' Fresh water – M.W. 8.5 ppg, Vis 30-33
250' - TD Fresh water - 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

Black Hills Gas Resources, Inc. **Jicarilla 29-02-29 14**

580' FNL 1,055' FEL (NE/4 NE/4) Sec. 29 T29N R2W

Rio Arriba County, New Mexico Lease: MDA 701-98-0013, Tract 2

DRILLING PROGRAM

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 NOS process included an onsite meeting, which was held on November 4, 2004, as determined by BLM, Bureau of Indian Affairs (BIA) and Jicarilla Oil and Gas Administration (JOGA), and at which time the specific concerns of Black Hills Gas Resources, Inc. (Black Hills), BLM, BIA and JOGA were discussed.

SURFACE FORMATION – San Jose

GROUND ELEVATION - 7,107'

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ESTIMATED FORMATION TOPS - (water. Or	i. 2as and/oi (ייוווצ וווע	iomiauons <i>i</i>
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San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	2,056'	Sandstone, shales & siltstones
Ojo Alamo	3,109'	Sandstone, shales & siltstones
Kirkland	3,319°	Sandstone, shales & siltstones
Fruitland Coal	3,404'	Sandstone, shales & siltstones
Pictured Cliffs	3,480'	Sandstone, shales & siltstones
Lewis	3,587'	Sandstone, shales & siltstones

TOTAL DEPTH 4,000'

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

Tertiary

San Jose	surface	Gas
Nacimiento	2,056'	Gas
Ojo Alamo	3,109'	Gas
Fruitland Coal	3,404'	Gas
Pictured Cliffs	3,480'	Gas

LOGGING, CORING, TESTING PROGRAM

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: None anticipated

Estimated bottomhole pressure: 1,240 psi D)

ANTICIPATED START DATE

May 26, 2005

COMPLETION

The location pad will be 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

