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Form 3160-3	ריים (בייוס) היים (בייוס) ייסן קרבים ייסן היים (בייוס) ייסן היים (בייוס)	
(April 2004)		OMB No. 1004-0137
UNITED S	TATES 💪 🔪 😫 🗄	Expires March 31, 2007
DEPARTMENT OF	THE INTERIORY)	5. Lease Serial No.
BUREAU OF LAND	MANAGEMENT	MDA 701-98-0013, Tract 2
	_	6. If Indian, Allottee or Tribe Name
APPLICATION FOR PERMIT	TO DRILL OR DEEPEN	Jicarilla Apache Nation
1a. Type of Work X DRILL REEN	TER	7. If Unit or CA Agreement, Name and No.
1b, Type of Weil Oil Well X Gas Well Other	X Single Zone Multiple Zo	8. Lease Name and Well No. Me Jicarilla 28-02-17 44
2. Name of Operator E-mail	benally@bhep.com	9. API Well No.
Black Hills Gas Resources, Inc.	Contact: Lynn Benally	30-039-29550
3a. Address 350 Indiana Street. Suite 400	3b, Phone No. (include area c	ode) 10. Field and Pool, or Exploratory
Golden CO 80401	505.634.1111	East Blanco Pictured Cliffs
4. Location of Well (Report location clearly and in accordance with any State R	equirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface 1,030' FSL 1,140' FEL	SE /4 SE /4	Sec. 17 T 28N R 2W
Lat: 36° 38' 06.9"	Long: 107° 03' 31.9"	
At proposed production zone		
14. Distance in miles and direction from nearest town or post office. *		12. County or parish 13. State
Well is located approximately 57 miles east of Bloomf	ield, New Mexico.	Rio Arriba New Mexico
15. Distance from proposed location to nearest Unit= n/a	16. No. of acres in lease	17. Spacing Unit dedicated to this well
property of lease line, ft. (Also nearest Drig, unit line, if any) Lease= ±1,030'	10,240.0	160 SE/4
18. Distance from proposed location to nearest Jicarilla well, drilling, completed or applied for, on this 28-02-07	19. Proposed depth	20. BLM/BIA Bond No. on file
lease, ft. ± 3,800 ' 22	4,000' TVD	NMB000230
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start *	23. Estimated duration
7,157 ' GR	June 16, 2005	45-60 days drlg + completion
	24. Attachments	
The following, completed in accordance with the requirements of Or	nshore Oil and Gas Order No. 1, shall be a	ttached to this form:
1. Well plat certified by a registered surveyor.	4. Bond to cover the	e operations unless covered by an existing bond
2. A Drilling Plan.	on file (see Item	,
3. A Surface Use Plan (if the location is on National Fore		
Lands, the SUPO shall be filed with the appropriate Financial Service Office).		specific information and/or plans as may be authorized officer.
·		
25. Signature	Name (Printed/Typed)	Date
Lachy I is chneibeck	Kathy L. Schneebeck, 30	3.820.4480 May 12, 2005
Title Permit Agent for Black Hills Gas Resour	ces, Inc.	
Approved by (Signature)	Name (Printed/Typed)	Date
Title Make	Office	-11 14 06
	Опісе	
Application approval does not warrant or certify that the applicant holds legal o	i requitable title to those rights in the subject lease	a which would entitle the applicant to conduct operations
thereon.		$\ddot{\sigma} \leq \bar{c} c$
Conditiona of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section1212, make it a crime	for any nerson knowingly and willfully to make to	
fictitious, or fraudulent statements or representations as to any matter within its		
		E S
	B10/000 -	
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED	preserve and pr	is action is subject to technical and ocedural review pursuant to 43 CFR 3165.3
"GENERAL REQUIREMENTS".		id appeal pursuant to 43 CFR 3165.4

DISTR	lCi	1				
1625	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

DISTRICT IV

1220 South St. Francis Dr., Santa Fe. NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Submit to Appropriate District Office 1220 South St. Francis Dr.

State Lease - 4 Copies Fee Lease - 3 Copies

□ AMENDED REPORT

Revised June 10, 2003

Form C-102

"Pool Code ^oPool Name ¹API Number 30-039-29550 E. Blanco / Pictured Cliffs 72400 ⁴Property Code ^o Well Number ⁵Property Name 24245 36131 YOGRED No. JICARILLA 28-02-17 44 [•]Operator Name ^o Elevation BLACK HILLS GAS RESOURCES 7157 013925 ¹⁰ Surface Location UL or lot no. Feet from the North/South line East/West line County Section Township Range Lot Idn Feet from the P 17 28-N 1030 SOUTH 1140 EAST **RIO ARRIBA** 2--W ¹¹ Bottom Hole Location If Different From Surface East/West line UL or lot no. Lot Idn Feet from the North/South line Feet from the Section Township Range County ^B Dedicated Acres ¹⁰ Joint or Infill ¹⁴ Consolidation Code 15 Order No. 160 acres - SE/4 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 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and helief. Tart, & Schreebeck Kathy L. Schneebeck Printed Name Permit Agent for Black Hills Title May 12, 2005 FD. 2 1/2" U.S.G.L.O. Date 1917 B.C. 18 SURVEYOR CERTIFICATION ш 4 00-03-54 E 2643.56' (M) I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by rision, and that the same is true ME NOLONINUVE CLO 7 RECEIVED \cap 36 6 G [Lat] []36[38'06.9" Ν. (NAD 83) LONG. 107'03'β9.1" W. (NAD 83) UU1140 030 ROFESS FD. 2 1/2' U.S.G.L.O. 1917 B.C. FD. 2 1/2" U.S.G.L.O. N 89-52-11 W 5285.61' (M) Certificate 1917 B.C. В

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 1220 South St. Francis Dr. Santa Fe, NM 87505

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

Form C-144 June 1, 2004

	anta Fe, NM 87505	المانية بين المحينة المربية المحينة في التلكيم والتكريمية المربية المربية المربية المربية المربية المربية الم		
Pit or Below-Gra	ade Tank Registration or Clos	sure		
Is pit or below-grade tar	ik covered by a "general plan"? Yes 🛛 🛛	No		
Type of action: Registration of a pit of	or below-grade tank 🛛 Closure of a pit or below-	grade tank		
Derator: Black Hills Gas Resources, Inc.	elephone: *720-210-1300 e-mail	address: lbenally@bhep.com		
ddress:300 Indiana St, Suite 400, Golden, CO 80401	30-039-29550			
acility or well name: <u>Jicarilla 28-02-17 44</u> API #:	-Pending U/L or Otr/Otr SE SE	Sec 17 T 28N R 2W		
ounty: <u>Rio Arriba</u> Latitude <u>36° 38' 06.9"</u> Longitude <u>107° 03' ;</u>				
it	Below-grade tank			
ype: Drilling 🛛 Production 🗋 Disposal 🗍	Volume:bbl Type of fluid:			
Workover 🔲 Emergency 🗍	Construction material:			
ined Unlined	Double-walled, with leak detection? Yes 🗌 If	If not, explain why not.		
iner type: Synthetic Thickness 1 mil Clay		· · · · · · · · · · · · · · · · · · ·		
it Volume ± 17.811 bbl				
	Less than 50 feet	(20 points)		
epth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)		
igh water elevation of ground water.)	100 feet or more	(0 points)		
Vellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)		
vater source, or less than 1000 feet from all other water sources.)	No	(<u>0 points</u>)		
	Less than 200 feet	(20 points)		
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)		
irrigation canals, ditches, and perennial and ephemeral watercourses.)				
,	1000 feet or more	(0 points)		
this is a pit closure: (1) attach a diagram of the facility showing the pit?	Ranking Score (Total Points) s relationship to other equipment and tanks. (2) In	4 0 points dicate disposal location: (check the onsite box if		
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f. 👞	WELL PAD CROSS-SECTIONAL DIAGRAM
	COMPANY:BLACK HILLS GAS RESOURCES
	LEASE: JICARILLA 28-02-17 #44
	FOOTAGE: 1030 FSL, 1140 FEL
	SEC.: <u>17</u> , TWN: <u>28-N</u> , RNG: <u>2-W</u> , NMPM
	ELEVATION:7157'
	NOTE:
	DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO
	ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.
ELEV. A-/	-A' C/L
7180	
7170	
7160	
7150	
7140	
7130	
7120	
ELEV. B-	-B' C/L
7180	++++
7170	
7160	
7150	
7140	
7130	
7120	
ELEV. C-	
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7170	AD DiAGE
7160	MELL PAD DIAGRAM WELL PAD DIAGRAM WELL PAD DIAGRAM WELL PAD DIAGRAM WELL PAD DIAGRAM WELL PAD DIAGRAM WELL PAD DIAGRAM
7150	PLL PAD DIAGRAM PLL PAD DIAGRAM PLL WELL PAD DIAGRAM PLL PAD DIAGRAM
7140	MN359PLB WELL PAD DIAGRAM MN359PLB WELL PAD DIAGRAM
7130	
7120	

Black Hills Gas Resources, Inc. Jicarilla 28-02-17 44 1,030' FSL 1,140' FEL (SE/4 SE/4) Sec. 17 T28N 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 17, 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 - 7,157'

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

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	2,054'	Sandstone, shales & siltstones
Ojo Alamo	3,030'	Sandstone, shales & siltstones
Kirkland	3,351'	Sandstone, shales & siltstones
Fruitland Coal	3,448'	Sandstone, shales & siltstones
Pictured Cliffs	3,480'	Sandstone, shales & siltstones
Lewis	3,591'	Sandstone, shales & siltstones

TOTAL DEPTH 4,000'

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

i ci tiai y		
San Jose	surface	Gas
Nacimiento	2,054'	Gas
Ojo Alamo	3,030'	Gas
Fruitland Coal	3,448'	Gas
Pictured Cliffs	3,480'	Gas

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

2–M SYSTEM Black Hills Gas Resources, Inc. ANNULAR PREVENTOR MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTORS BOP PRESSURE TEST TO 1,000 PSI



ACY DI AT