Form 3160-3 (August 1999)

FORM APPROVED OMB No. 1004-0136 pires November 30, 2000

JAN 2006

OLCONS. DIV

UNITED ST		Expires November 30, 2000	
DEPARTMENT OF T BUREAU OF LAND N		5. Lease Serial No.	
BUREAU OF LAND I	MDA 701-98-0013,		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name JICARILLA APACHE NATION	
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
·		8 Local Name and Wall Na	
lb. Type of Well: ☐ Oil Well 🔀 Gas Well ☐ Oth		8. Lease Name and Well No. JIC 29-03-24 14 35403	
BLACK HILLS GAS RESOURCES, ENGIL: BPMIBIA	KATHY L SCHNEEBECK ckHills@banko1.com	9. API Well No. 30-039-29498	
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory	
350 INDIANA STREET, SUITE 400 GOLDEN, CO 80401	Ph: 303-820-4480 Fx: 303-820-4124	E BLANCO/PICTURED CLIFFS	
·		72400	
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area	
At surface NENE 790FNL 910FEL		Sec 24 T29N R3W Mer NMP	
At proposed prod. zone NENE 790FNL 910FEL		A	
14. Distance in miles and direction from nearest town or post 57 MILES FROM BLOOMFIELD, NEW MEXICO		12. County or Parish 13. State RIO ARRIBA NM	
15. Distance from proposed location to nearest property or	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well	
lease line, ft. (Also to nearest drig. unit line, if any) 4,370' FWL (LEASE LINE)	9920.00	160.00 NE/H	
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth	20. BLM/BIA Bond No. on file	
completed, applied for, on this lease, ft. 2,500' FROM JICARILLA 29-03-24 34	4000 MD	NMB000230	
21. Elevations (Show whether DF, KB, RT, GL, etc. 7098 GL	22. Approximate date work will start 04/19/2005	23. Estimated duration	
	24. Attachments		
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syssup Supo shall be filed with the appropriate Forest Service Of 	4. Bond to cover the operation Item 20 above).	ons unless covered by an existing lond on file (se SEE ATTACHED FOR ONLY on file (se SEE ATTACHED FOR APPERCANCE by the	
25. Signature	Name (Printed/Typed)	Date	
(Electronic Submission)	KATHY L SCHNEEBECK Ph: 303-820-	4480 03/15/2005	
Title PERMIT AGENT FOR BLACK HILLS			
Approved by (Signature)	Name (Printed/Typed)	Date /	
(Jun lovalo		1/27/04	
Title Adding AM	Office		
Application approval does not warrant or certify the applicant ho	lds legal or equitable title to those rights in the subject le	ease which would entitle the applicant to conduct	
operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1	make it a crime for any person knowingly and willfully to	o make to any department or agency of the United	

Additional Operator Remarks (see next page)

Electronic Submission #54928 verified by the BLM Well Information System For BLACK HILLS GAS RESOURCES, INC, sent to the Rio Puerco

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

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

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

☐ AMENDED REPORT

DISTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410 DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		1	Pool Code			Pool Nam	•	
<i>5</i> 0-03	30-039-29498		1498 72400 -			E. Blanco / Pictured Cliffs			_
Property C			³ Property Name						* Well Number
24245	- 35	403 -							14 _
TOGRID No		, <u> </u>	*Operator Name						* Elevation
013925	5 ~		BLACK HILLS GAS RESOURCES					-	7098'
¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lis	ne County
A	24	29-N	3-W		790	NORTH	910	EAST	RIO ARRIBA
·	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 li	ne County
Dedicated Acre	38		is Joint or	Infili	¹⁴ Consolidation	Code	¹⁸ Order No.	***************************************	
160 acre	es - N	E/4							
			SSICNE	ונוידי חיד ח	S COMBLEGE	IONI TINITITI ATT	INTEDESTS	IANE DEEN	I CONSOLIDATED
NO ALLON	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				_					
10		FD. MARKE	D STONE		9-57-07 W	FD. 2 1/2 U.S.G.L.O.	B 17 /	PERATOR	CERTIFICATION
				23	91.50' (M)	1 1	I hereby certi		nation contained turein is
						790,	frue and com	placa so sha bast s	of my knowledge and belief
			LAT.	36'42'56	.3"N (NAD 8	33) 910'			
					'47.2" W (NA		11		
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				1					
				1			Kacher	Lichnell	ack
				1			Signature		-
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							. Marc	h 15, 200)5
		#(////////////////////////////////////		21		<u>5</u>	Date ci		
		•				9	18 SU	RVEYOR C	ERTIFICATION
						z	I hereby certi		ecation shown on this plat
									actual surveys made by me hat the same is true and
								hestery tree-baller.	
								A VUKON	2004
	1						Dyla of fa	W MEXX	X
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								14831	
						FD. MARKED STO	NE Certificate	himper	

District II
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

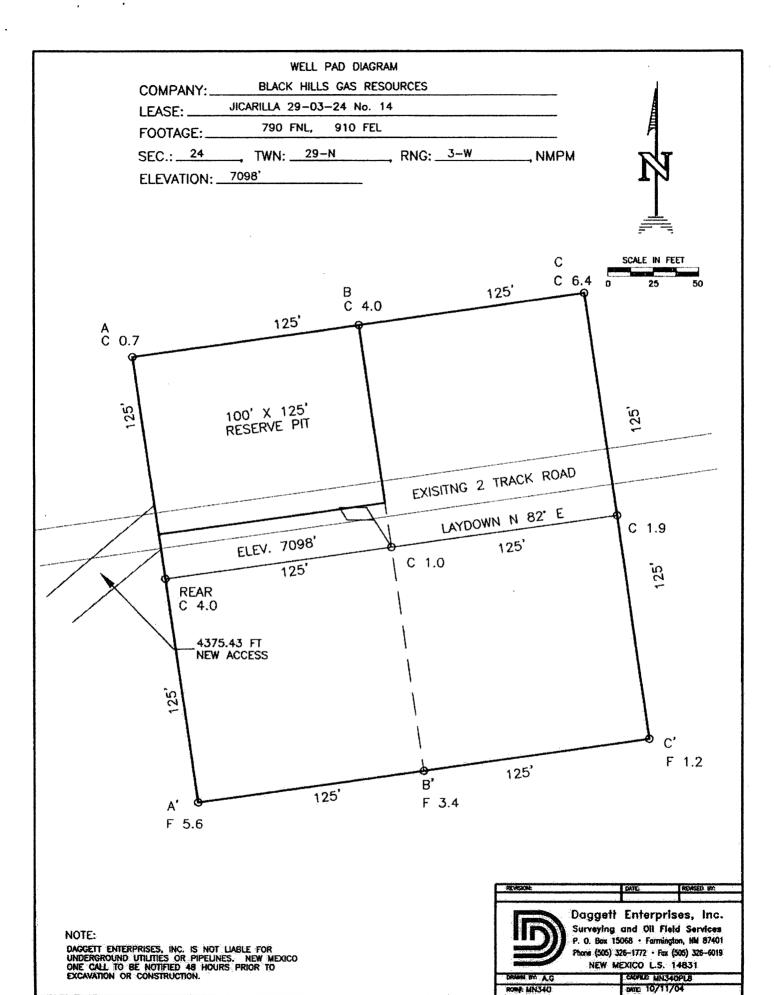
State of New Mexico Energy Minerals and Natural Resources

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

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-gra	ade tank 📋		
Operator: Black Hills Gas Resources, Inc. T	elenhane: *720-210-1300 e-mail od	ldress: lhenalls@hhen.com		
Address: 300 Indiana St. Suite 400 Golden CO 80401	20 1949 8	meod. <u>mojanyazniep.com</u>		
Address: 300 Indiana St, Suite 400, Golden, CO 80401 Facility or well name: Jicarilla 29-03-24 14 API #:	Pending U/L or Qtr/Qtr NE NE S	Sec. 24 T 29N R 3W		
County: Rio Arriba Latitude 36° 42' 56.3" Longitude 107° 05'				
The state of the s	tuend of the state	Secret Stand O' Secret Stand Stand Stand		
Pit	Below-grade tank			
Type: Drilling ☑ Production ☐ Disposal ☐ Volume:bbl Type of fluid:				
Workover Emergency Construction material:				
Lined ☐ Unlined ☑	Double-walled, with leak detection? Yes If not, explain why not.			
Liner type: Synthetic Thickness mil Clay				
Pit Volume <u>±17,811</u> bbl				
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)		
	50 feet or more, but less than 100 feet	(10 points)		
high water elevation of ground water.)	100 feet or more	(0 points)		
W 16 () 2 () 4 (200 2) 6	Yes	(20 points)		
Wellhead protection area: (Less than 200 feet from a private domestic	No	(0 points)		
water source, or less than 1000 feet from all other water sources.)				
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)		
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)		
	1000 feet or more	(0 points)		
	Ranking Score (Total Points)	/ 0 points		
If this is a pit closure: (1) attach a diagram of the facility showing the pit	s relationship to other equipment and tanks. (2) Indic	ate disposal location: (check the onsite box if		
your are burying in place) onsite [] offsite [] If offsite, name of facility_	. (3) Attach a general	description of remedial action taken including		
remediation start date and end date. (4) Groundwater encountered: No				
Attach soil sample results and a diagram of sample locations and excavation		······································		
Additional Comments:	1.13			
* Local contact in New Mexico is Lynn Benally at 505-634-1111 Ext. 27				
Local contact if New Mexico is Lynn Deliany at 303-034-1111 Ext. 27	SECULORIES CONTROL CON			
		Mark destination and the state and the state of the state		
A second	· · · · · · · · · · · · · · · · · · ·			
I hereby certify that the information above is true and complete to the bes has been/will be constructed or closed according to NMOCD guidelin Date: 03/15/05				
Printed Name/Title Kathy L. Schneebeek / Permit Agent for Black Hills	Gas Resources, Inc. Signature	iky & Schniebert		
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve regulations.	not relieve the operator of liability should the content	is of the pit or tank contaminate ground water or		
Approval: Printed Name/Title OEPUTY OIL & GAS INSPECTOR, DIST.	Signature Signature	JAN 3 0 2006		



WELL PAD CROSS-SECTIONAL DIAGRAM BLACK HILLS GAS RESOURCES COMPANY: JICARILLA 29-03-24 No. 14 LEASE: _ 790' FNL 910' FEL FOOTAGE:___ ____, RNG: <u>3-W</u> 29-N SEC.: 24 TWN: ___ ____, NMPM 7098' **ELEVATION:** _ 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' 7120 7110 7100 7090 7080 7070 7060 ELEV. B-B' C/L 7120 7110 7100 7090 7080 7070 7060 ELEV. C-C' C/L Surveying and Oil Field Services P. 0. Box 15068 · Formington, NIA 87401 Phone (\$05) 326-1772 · Fox (\$05) 326-6019 NEW MEXICO L.S. 14831 7120 PAD DIAGRAM 7110 7100 및 7090 MN340PLB 7080 7070 7060

Black Hills Gas Resources, Inc. **Jicarilla 29-03-24 14** 790' FNL 910' FEL (NE/4 NE/4) Sec. 24 T29N R3W

Rio Arriba County, New Mexico Lease: MDA 701-98-0013, Tract 1

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 October 14, 2004, as determined by BLM, Bureau of Indian Affairs (BIA) and Jicarilla Oil & 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 – 7,098'

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

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1,977'	Sandstone, shales & siltstones
Ojo Alamo	3,185'	Sandstone, shales & siltstones
Fruitland	3,611'	Sandstone, shales & siltstones
Pictured Cliffs	3,700'	Sandstone, shales & siltstones
Lewis	3,808'	Sandstone, shales & siltstones
TOTAL DEPTH	4.000'	

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

Tertiary

1 Citialy		
San Jose	surface	Gas
Nacimiento	1,977'	Gas
Ojo Alamo	3,185	Gas
Fruitland	3,611'	Gas
Pictured Cliffs	3,700'	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

LOGGING, CORING, TESTING PROGRAM

A) Logging:

DIL- CNL-FDC-GR - TD - BSC (GR to surface)

Sonic (BSC to TD)

B) Coring:

C) Testing:

Possible DST – None anticipated. Drill stem tests may be run on shows of

interest

None

ABNORMAL CONDITIONS

A) Pressures:

No abnormal conditions are anticipated

Bottom hole pressure gradient - 0.31 psi/ft

B) Temperat

Temperatures: No abnormal conditions are anticipated

C) H_2S :

None anticipated

D) Estimated bottomhole pressure: 1,240 psi

ANTICIPATED START DATE

April 19, 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 BOY PRESSURE TEST TO 1,000 PSI

