Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND	5. Lease Serial No. MDA 701-98-0013,			
APPLICATION FOR PERMIT		If Indian, Allottee or Tribe Name JICARILLA APACHE NATION		
1a. Type of Work: DRILL REENTER	7. If Unit or CA Agreement, N	Name and No.		
lb. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth			1251	
2. Name of Operator Contact: BLACK HILLS GAS RESOURCES, #MGil: BPMIBIA	KATHY L SCHNEEBECK ackHills@banko1.com /3925	9. API Well No. 30-039-29	7496	
3a. Address 350 INDIANA STREET, SUITE 400 GOLDEN, CO 80401	3b. Phone No. (include area code) Ph: 303-820-4480 Fx: 303-820-4124	10. Field and Pool, or Explora E BLANCO/PICTURE	itory D CLIFFS	
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 SWSW 875FSL 1290FWL		Sec 11 T29N R3W Mer NMP		
At proposed prod. zone SWSW 875FSL 1290FWL		(A)		
14. Distance in miles and direction from nearest town or post 57 MILES FROM BLOOMFIELD, NEW MEXICO		12. County or Parish RIO ARRIBA	13. State NM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to	this well	
1,290' FWL (LEASE LINE)	9920.00	160.00 5 W/4		
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth	20. BLM/BIA Bond No. on fi	le	
completed, applied for, on this lease, ft. 2,700' FROM JICARILLA 29-03-14 2	4000 MD	NMB000230		
21. Elevations (Show whether DF, KB, RT, GL, etc. 7192 GL	22. Approximate date work will start 04/19/2005	23. Estimated duration		
	24. Attachments	<u> </u>		
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 Sys SUPO shall be filed with the appropriate Forest Service Of 	Item 20 above). tem Lands, the 5. Operator certification	ons unless covered by an existing	`	
25. Signature (Electronic Submission)	Name (Printed/Typed) KATHY L SCHNEEBECK Ph: 303-820-	4480	Date 03/15/2005	
PERMIT AGENT FOR BLACK HILLS				
Approved by (Signature)	Name (Printed/Typed)	<u> </u>	Date	
Mayre coursem	Uggar Townsend		2/10/06	
Heting AFM	Office FFO			
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject le	ease which would entitle the appl	icant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representate	make it a crime for any person knowingly and willfully t ions as to any matter within its jurisdiction.	o make to any department or ager	ncy of the United	

Additional Operator Remarks (see next page)

Electronic Submission #54923 verified by the BLM Well Information System For BLACK HILLS GAS RESOURCES, INC, sent to the Rio Puerco

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

erreter i

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

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

DISTRICT III 1000 Rio Brance Rd., Antec, 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

DESTRICT IV 1220 South St. Francis Dr., Santa Pe, NM 87505 ☐ AMENDED REPORT

	V	Y	VELL L	OCATIO	N AND AC	REAGE DEDI	CATION	PLAT		
30-03	Number 9-2	9496	Pool Code Proce Pool Name 72400 E. Blanco / Pictured Cliffs						~	
Property Co			*Property Name						, A	ell Number
2424	: 24	251	✓		JICARILLA 29	-03-11				41 ~
70GRID No 01392			*Operator Name *Elevation BLACK HILLS GAS RESOURCES Inc. 7192'							
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 Surface	Location				
UL or lot no.	Section 11	Township 29-N	Range 3-W	Lot ldn	Feet from the 875	North/South line SOUTH	Feet from ti 1290	be East/We WE		County RIO ARRIBA
	"Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from t	he East/We	st line	County
Dedicated Acre			" Joint or	i Infill	²⁶ Consolidation	Code	²⁵ Order No.	<u> </u>	***************************************	
160 ac	***************************************		SCIONE	\	E COMPLETE	A47 174 194 194 194 194 194 194 194 194 194 19		A		ONEOU ID AMED

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

18			17 OPERATOR CERTIFICATION I hereby certify that the information contained hereis is true and complete to the best of my knowledge and beltef
			Katly & Johnsebeck Signatura Kathy L. Schneebeck
FD. 2 1/2" BC U.S.G.L.O. 1917			Printed Name Permit Agent for Black Hills Title March 15, 2005 Date
75' (M)	LAT. 36'44'05.0"N LONG. 107'07'29.5	(NAD 83) "W (NAD 83)	18 SURVEYOR CERTIFICATION I haveby certify that the well location shown on this plat uses plotted from field noise of actual surveys made by me or under my magnetism, per that the same is true and correct to the street of the second to the
2639.75°			Signatura and Sali 14189 monal Substance
FD. 2 1/2* BC. U.S.G.L.O. 1917	S 89-52-07 W 2639.76' (M)	D. 2 1/2" BC. U.S.G.L.O. 1917	14831 Certificate Number

1025 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 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**

Form C-144

June 1, 2004

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

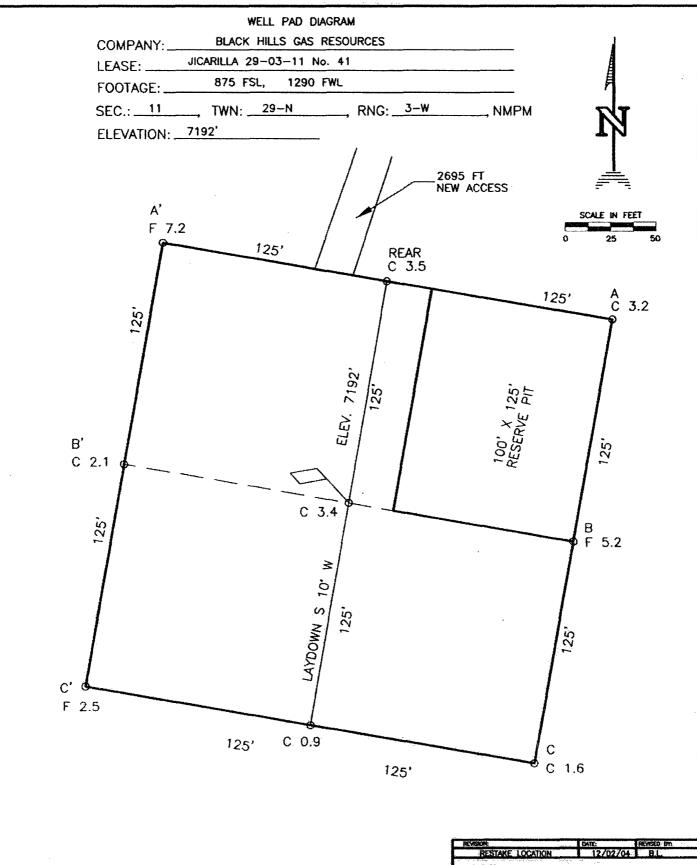
Pit or Below-Grade Tank Registration or Closure

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. Telephone: *720-210-1300 Address: 300 Indiana St. Suite 400, Golden, CO 80401 U/L or Qtr/Qtr SW SW Sec 11 T 29N R 3W Facility or well name: Jicarilla 29-03-11 41 County: Rio Arriba Latitude 36° 44' 05.5" Longitude 107° 07' 29.5" NAD: 1927 🗌 1983 🛭 Surface Owner Federal 🔲 State 🔲 Private 🗀 Indian 🗵 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 ±17,811 Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic (0 points) water source, or less than 1000 feet from all other water sources.) 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) 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) Indicate 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 🗌 Yes 🖸 If yes, show depth below ground surface Attach soil sample results and a diagram of sample locations and excavations. Additional Comments: * Local contact in New Mexico is Lynn Benally at 505-634-1111 Ext. 27 I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines 🗵, a general permit 🔲, or an (attached) alternative OCD-approved plan 🛄 Signature Looky T Solmastrule Printed Name/Title Kathy L. Schneebeck / Permit Agent for Black Hills Gas Resources, Inc. Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations. Approval: Date: FEB 1 3 2006 DEPUTY OIL & GAS INSPECTOR, DIST. #1 Printed Name/Tit

	······································		WELL PAD CR	OSS-SECTIONA	AL DIAGRAM	
		COMPANY:	BLACK HILLS	GAS RESOURC	CES	
		LEASE: JICARILLA 29-03-11 No. 41				
		FOOTAGE:	775' FSL	1145' FWL	, <u></u>	manufili intendenza ad amininto
		SEC.:11	, TWN:	29-N	_, RNG: <u>3-w</u>	, NМРМ
		ELEVATION:	7186'	***************************************		
					UNDERGROUND UTIL	ES, INC. IS NOT LIABLE FOR MES OR PIPELINES. NEW MEXICO OTIFIED 48 HOURS PRIOR TO INSTRUCTION.
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7	200					Daggett Enterprises, Inc. Surveying and Oil Field Services Fo. 8ex 1508 - Famingan, NW 57401 Phose (505) 258-1772 - Fax (505) 358-5015 NEW MEXICO L.S. 14831 NEW MEXICO L.S. 14831 NEW MEXICO L.S. 14831 NEW MEXICO L.S. 14831
7	190	MARIE MATERIAL MATERIAL CALCULATE CA	***************************************		Stranger - Spanish - American and Stranger - Spanish - S	Enterprise and Oil Field BB - famington 6-1772 - famington XICO L.S. 144 GOVER MASS/CO
	180	** ****				WELL P. WELL P. DATE 1 STATE 1
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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.

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. O. Box 15068 • Fermington, NM 87401
Phone (505) 326-1772 • Fax (506) 326-6019
NEW MEXICO L.S. 14831
COURSE MN337PLB

DATE 10/11/04

Black Hills Gas Resources, Inc. **Jicarilla 29-03-11 41** 875' FSL 1,290' FWL (SW/4 SW/4)

Sec. 11 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 - 7,192'

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'	

101AL DEPTH 4,000

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

Tertiary

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: 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

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 BOP PRESSURE TEST TO 1,000 PSI

