,Form 3160-3 (April 2004)

UNITED STATES

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

APPLICATION FOR PERMIT TO DRILL OR DEEP FOLIABLE 1. 1. 1. 1. 1. 1. 1. 1	DEPARTMENT OF BUREAU OF LAND	THE INTERIOR MANAGEMEÑIN MIR 23	FM 2 Golf	Serial No. Hract 458		
1s. Type of Work X DRILL REENTER 1b. Type of Work X Snigle Zone Multiple Zone Jindrilla 468-06 32 Jindrilla 468-06 34 Jindrilla 468-06 35 Jindrilla 468-06 36 Jindrilla 468-06	APPLICATION FOR PERMIT	TO DRILL OR DEEPEN OF	6. If Indian			
1b. Type of Well Ol Well A Sas Well Other A Single Zone Multiple Zone Jicarilla 458-06 32 2 Name of Operator E-mail; Ibenally@hep.com Black Hills Gas Resources, Inc. So Address P.O. Box 249 Bloomfield NM 87413 4. Location of Well (Report location clearly and in accordance with any State Requirements. 7) At surface 2,230° FSL 1,545° FWL SW /4 (Lot 9) Lat: 36° 50° 22.3° Long: 107° 11' 30.9° 14. Distance in miles and direction from nearest town or post office Well is located approximately 57 miles east of Bloomfield, New Mexico. 15. Distance from proposed becation to nearest Unit: n/a lease ± 1,545° Long: 107° 11' 30.9° 16. No. of acres in lease property of lace in left, N. discrete from the well well, Albor of the well well well, Albor of the well well well, Albor of the well well well, Albor of the wel		0.017	7 If Unit of		e and No	
Black Hills Gas Resources, Inc. Contact: Lynn Benally 30 - 639 - 2985 k 30 - 639 - 298	1b. Type of Well Oll Well X Gas Well Other	X Single Zone Multiple Zo	ł		32	
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	thereon	equitable title to those rights in the subject leas	e which would entit	le the applicant to con	duct operations	
		for any person knewingly and willfully to make to	any department o	r agency of the United	States any false,	

fictitious, or fraudulent stateme

CEMENT ZTEC OCD 24 HRS. NMOCD

RCVD AUG 16'07 OIL CONS. DIV.

B

DRILLING OPERATIONS AUTHORIZED ARE PRIOR TO CASING & CEI SUBJECT TO COMPLIANCE WITH ATTACHED. This action is subject to technical and "GENERAL REQUIREMENTS".

and appeal pursuant to 43 CFR 3165 4

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**

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144

June 30, 2005

Pit or Below-Grade	Tank F	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. Address: P.O. Box 249, Bloomfield, NM 87413	,					
Facility or well name: <u>Jicarilla 458-06 32</u> API #: County: <u>Rio Arriba</u> Latitude <u>36° 50' 22.3"</u> Longitude <u>107° 11' 3</u>	U/L or Qtr/Qtr <u>SW/</u> 00.9" NAD: 1927 ☐ 1983 ⊠ Surface Owner Feder	4 - Lot 9 Sec 6 T 30N R 3W 'al ☐ State ☐ Private ☐ Indian ☒				
Pit Type: Drilling ☑ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☑ Unlined ☐ Liner type: Synthetic ☑ Thickness15mil Clay ☑ Pit Volume±17.811bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes					
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)				
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 for facility						
Attach soil sample results and a diagram of sample locations and excavation						
Additional Comments: RCVD AUG 16 '07 AUL CONS. DIV.						
DIST. 3						
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 . Date: 03/16/06 Printed Name/Title Kathy L. Schneebeck – Permit Agent for Black Hills Gas Resources, Inc. Signature Signatur						
Approval: Deputy Oil & Gas Inspector, Printed Name/Title District #3	Signature	Date UG 2 0 2007				

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

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

2285

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT EBlunco PC 30.039-2985 ⁶ Well Number ⁴ Property Code ^{s°}Property Name 32 JICARILLA 458-06

⁸Operator Name [®] Elevation BLACK HILLS GAS RESOURCES 7060' /3925 ¹⁰ Surface Location Feet from the North/South line Feet from the East/West line UL or lot no. Lot-Idn Township Section Range County 30-N 3-W 9 2230 SOUTH 1545 WEST RIO ARRIBA 6 11 Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the East/West line Section Township Range County 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 8774 Vint 1 168,42

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and LOT 3 LOT 2 LOT 1 belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division LOT 4 LOT 5 LOT 6 Signature Date 03/20/06 QTR. CORNER Kathy L. Schneebeck FD. 2 1/2" B.C. Printed Name G.L.O. 1917 Permit Agent for Black Hills SURVEYOR CERTIFICATION LAT. 36'50'22.3" N (NAD 83) 1545 LONG. 107'11'30.9" W (NAD 83) 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 is true and LOT 8 LOT 9 LOT 7 correct to the best of my belief. Date of LOT 11 LOT 10 LOT 12 SEC. CORNER QTR. CORNER FD. 2 1/2" B.C. G.L.O. 1917 FD. 2 1/2" B.C. S 88°03'31" W Certificate Number G.L.O. 1917 4517.54' (M)

Black Hills Gas Resources, Inc. **Jicarilla 458-06 32** 2,230' FSL 1,545' FWL (SW/4) – Lot 9

Sec. 6 T30N R3W Rio Arriba County, New Mexico Lease: Contract 458

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 February 15, 2006, as determined by 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 - 7,060'

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

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1,982'	Sandstone, shales & siltstones
Ojo Alamo	3,137'	Sandstone, shales & siltstones
Kirkland	3,387'	Sandstone, shales & siltstones
Fruitland Coal	3,627	Sandstone, shales & siltstones
Pictured Cliffs	3,712'	Sandstone, shales & siltstones
Lewis	3,837'	Sandstone, shales & siltstones
TOTAL DEPTH	4.0002	i e
TOTAL DEPTH	4,000'	

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

Tertiary

San Jose	surface	Gas
Nacimiento	1,982'	Gas
Ojo Alamo	3,137'	Gas
Fruitland Coal	3,627'	Gas
Pictured Cliffs	3,712'	Gas

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0'-300'	12-1/4"	9-5/8"	J-55 36# ST&C New	To surface (±305 sxs Class B)
0' - T.D.	8-3/4"	7"	N-80 23# LT&C New	TD to surface (±800 sxs lite or 65:35 poz and ±170 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' - 300' Fresh water – M.W. 8.5 ppg, Vis 30-33
300' - 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) H_2S : See attached H_2S plan in the event H_2S is encountered.

D) Estimated bottomhole pressure: 1,240 psi

ANTICIPATED START DATE

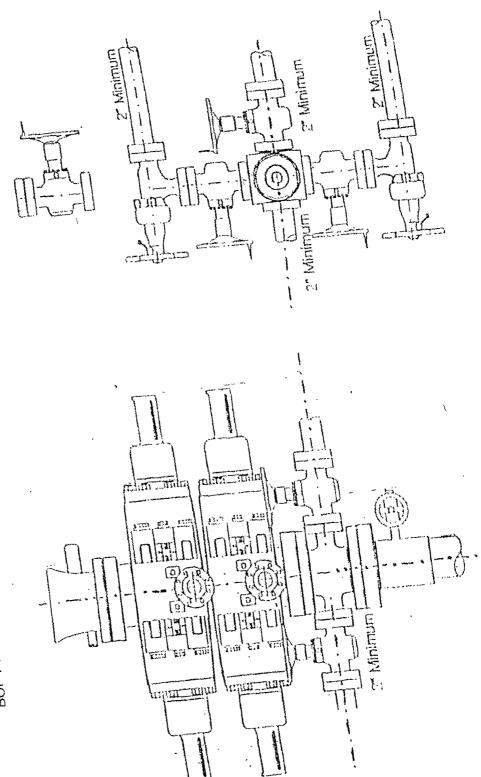
April 20, 2006

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



Hydrogen Sulfide Drilling Operations Plan

I. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S).
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H₂S Safety Equipment and Systems

Note: All H_2S safety equipment and systems, if necessary, will be installed, tested, and operational when drilling reaches a depth of 500 feet above or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

A. Well control equipment:

- Choke manifold with a minimum of one remote choke.
- Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

- B. Protective equipment for essential personnel:
 - 1. Mark II Surviveair 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.
- C. H₂S detection and monitoring equipment:
 - 1. Two portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 10 ppm are reached.
- D. Visual warning systems:
 - 1. Wind direction indicators as shown on well site diagram.
 - Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate. See example attached.

E. Mud program:

1. The mud program has been designed to minimize the volume of H_2S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.

F. Metallurgy:

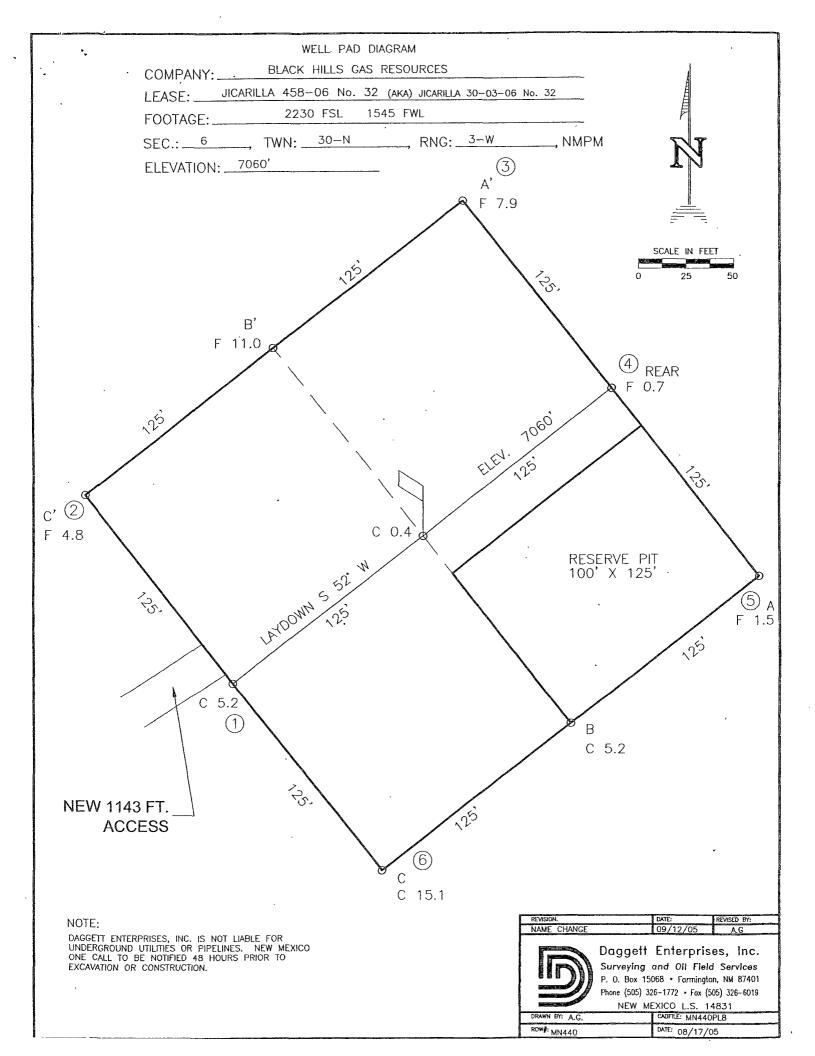
- 1. All drill strings, casings, tubing, wellhead, blowout preventors, drilling spools, kill lines, choke manifold and lines, and valves shall be suitable for H_2S service.
- 2. All elastomers used for packing and seals shall be H₂S trim.

G. Communication:

1. Cellular telephone communications in company vehicles.

H. Well testing:

1. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill stem testing operations conducted in an H₂S environment will use the closed chamber method of testing.



WELL PAD CROSS-SECTIONAL DIAGRAM

	COMPANY:BLA	CK HILLS GAS	RESOURCES		And (17 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -
	LEASE: JICARILLA 45	58-06 No. 32	(AKA) JICARILL	A 30-03-06 No.	32
	FOOTAGE: 223	30 FSL, 1545	FWL		
	SEC.:6, TWN	l: <u>30-N</u>	, RNG:_	3-W	, NMPM
	ELEVATION: 7060'		_		
	,		UNE ONE	GETT ENTERPRISES, INC.	PIPELINES. NEW MEXICO 48 HOURS PRIOR TO
ELEV. A-A'		C	/L		
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ELEV. B-B'		C/	<u>~</u>		
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ELEV. C-C'		C/	L		D 97: Inc. Vices 87401 6-6019
7080				DIACODAM	705 Reven by 705 Reven by 705 Reven by 10 Field Services ornington, NM 87401 • Fox (505) 326–6019 MA440CF8 8/17/05
7070				DAG OF	Enterprises, Inc. Enterprises, Inc. and Oil Fleld Services 68 • Farmington, NW 87401 XICO L.S. 14831 CAPILE MN440CF8 out: 08/17/05
7060					1 Ente 99/17 1 Ente 9 and 0 15068 • F 326-1772 MEXICO GADRIE: Q
7050					ggett veylng . Box 15(e (505) 32 NEW ME
7040				MX 4400	Daggett Enter Surveying and Oil P. 0. Box 15068 • Fo Phone (505) 326-1772 • NEW MEXICO L
7030					
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