Form 3160-3 (April 2004)

thereon.

Conditiona of approval, if any, are attached.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

The state of the s FORM APPROVED OMB No. 1004-0137

Expires March 31, 2007

5. Lease Serial No.	
MDA 701-98-0013, Tract 2	٠
6. If Indian, Allottee or Tribe Name	

7. If Unit or CA Agreement, Name and No. 1a. Type of Work 1b. Type of Well Oil Well X Gas Well Other X Single Zone Multiple Zone Jicarilla 28-02-07 44 2. Name of Operator E-mail: Ibenally@bhep.com	4			
1b. Type of Well Oil Well X Gas Well Other X Single Zone Multiple Zone Jicarilla 28-02-07 44	4			
1b. Type of Well Oil Well X Gas Well Other X Single Zone Multiple Zone Jicarilla 28-02-07 44	4			
2. Name of Operator E-mail: Ibenally@bhep.com 9. API Weil No.	4			
	4			
Black Hills Gas Resources, Inc. Contact: Lynn Benally 30-039-293 4				
3a. Address 350 Indiana Street, Suite 400 3b. Phone No. (Include area code) 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 Requirements.*) 11. Sec., T., R., M., or Blk. and Survey or Ar	ea			
At surface 845' FSL 1,255' FEL SE /4 SE /4 D Sec. 7 T 28N R 2W				
Lat: 36° 38' 57.4" Long: 107° 04' 45.2"				
J 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 Bloomfield, New Mexico. Rio Arriba New Mexico.	lexico			
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= ±4,025' 10,240.0	_			
18. Distance from proposed location to nearest Jicarilla 19. Proposed depth 20. BLM/BIA Bond No. on file				
well, drilling, completed or applied for, on this lease, ft. ± 3,500 ' 28-02-07 1 4,000' TVD NMB000230				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start * 23. Estimated duration				
7,263 ' GR June 9, 2005 45–60 days drlg + completion				
24. Attachments				
The following, completed in accordance with the requirements 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 System Lands, the SUPO shall be filed with the appropriate Bond to cover the operations unless covered by an existing to on file (see Item 20 above). Operator certification. Such other site specific information and/or plans as may be 	ond			
Forest Service Office). required by the authorized officer.				
25. Signature Name (Printed/Typed) Date				
Locky Schneeleck Kathy L. Schneebeck, 303.820.4480 May 5, 2005				
Permit Agent for Black Hills Gas Resources, Inc.				
Approved by (Signature) Name (Printed/Typed)				
tun bolak	6			
Title Acting ACM Minerals Office				

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

5



DISTRICT I 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

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	<u> </u>
30-039-2954	*Pool Code 72400	Pool Name E. Blanco / Pictured	Cliffs
Property Code	⁶ Property Name		• Well Number
24245 36/56	JICARILLA 28-02-07		44
OGRID No.	⁶ Ope	rator Name	° Elevation
013925	BLACK HILLS GAS RESOURCES		7263'
	10 ~ .		

¹⁰ Surface Location UL or lot no. Section Range Feet from the North/South line Feet from the East/West line Township Lot ldn County SOUTH 1255 **EAST** RIO ARRIBA Ρ 7 28-N 2-W 845 ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Lot Idn Feet from the North/South line Feet from the Bast/West line Township Range County Dedicated Acres ¹⁵ Order No. Soint or Infill "Consolidation Code 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			SEC. CORNER FD. 2 1/2" BC. G.L.O. 1917	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
LOT 1			·	
LOT 2	LAT. 36°38'57.4" N LONG. 107°04'45.2"		5279.41' (M)	Karty & Schneelack Signature Kathy L. Schneebeck Printed Name Permit Agent for Black Hills Title May 5, 2005
			-08-06 E	Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me
LOT 3	Fi	1	00 Z	or under my supervision, and that the same is true and correct to the bast of the MONO CO. 4
LOT 4	QTR. CORNER FD. 2 1/2" B.C.	3.26-46-68 s	SEC. CORNER of FD. 2 1/2" BC.	Strature del sali of Probability Property of 14831
	G.L.O. 1917	2638.56' (M)	G.L.O. 1917	Certificate Number

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

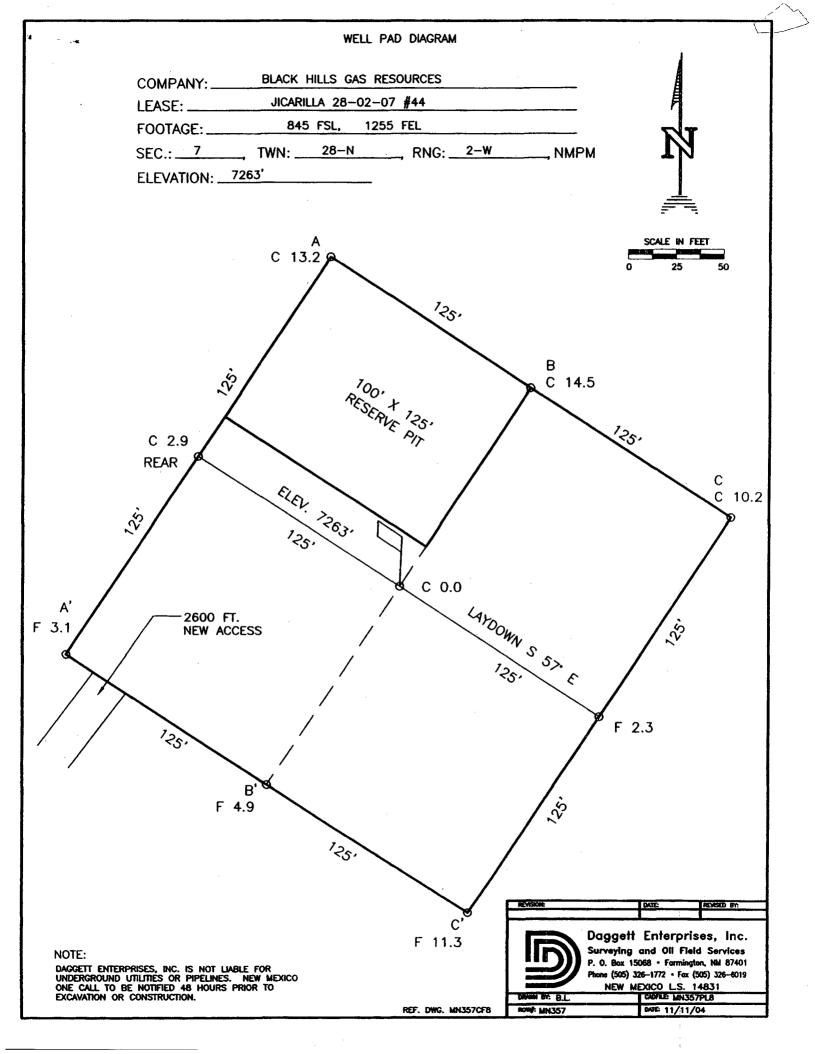
State of New Mexico Energy Minerals and Natural Resources

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 ☐	
faction: Registration of a pit or below-grade tank 🖾 Closure of a pit or below-grade tank	

Type of action. Registration of a pit of	1 DEIOM-Stane talk	A 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
Operator: Black Hills Gas Resources, Inc. Te	lephone: *720-210-1300 e-mail addr	ress:lbenally@bhep.com			
20 039 295111					
Facility or well name: Jicarilla 28-02-07 44 API #: Pending U/L or Qtr/Qtr SE SE Sec 7 T 28N R 2W County: Rio Arriba Latitude 36° 38' 57.4" Longitude 107° 04' 45.2" NAD: 1927 1983 Surface Owner Federal State Private Indian S					
County. Rio Antion Lautiude 30 38 37.4 Longitude 107 04	1927 1963 Z Surface Owner reder	a D state D 111vate D metal 2			
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	boundary with look deconors. Too E in 1995	Capacita way area			
Pit Volume ±17.811 bbl					
1 it Volume <u>117,811</u> 001	Less than 50 feet	(20 points)			
Depth to ground water (vertical distance from bottom of pit to seasonal		(10 points)			
high water elevation of ground water.)	50 feet or more, but less than 100 feet				
	100 feet or more	(0 points)			
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)			
water source, or less than 1000 feet from all other water sources.)	<u>No</u>	(0 points)			
	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)			
	1000 lest of more				
	Ranking Score (Total Points)	3 0 points			
f this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if			
our are burying in place) onsite offsite If offsite, name of facility_	. (3) Attach a general d	escription of remedial action taken including			
emediation start date and end date. (4) Groundwater encountered: No []					
ttach soil sample results and a diagram of sample locations and excavation					
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 has been/will be constructed or closed according to NMOCD guideline Date:05/05/05	of my knowledge and belief. I further certify that thes $oxtimes$, a general permit $oxdot$, or an (attached) alterna	ne above-described pit or below-grade tank tive OCD-approved plan .			
Printed Name/Title Kathy L. Schneebeck / Permit Agent for Black Hills C	Gas Resources, Inc. Signature	by Schneibeck			
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve to regulations.					
Approval: DEPUTY OIL & GAS INSPECTOR, DIST. FI	Signature	MOV 2 0 200c			

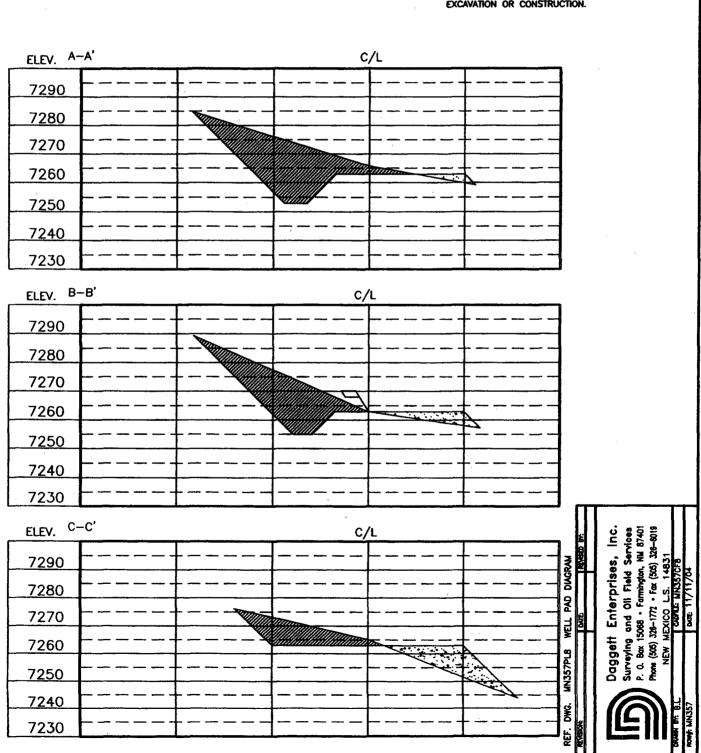


WELL PAD CROSS-SECTIONAL DIAGRAM

COMPANY:	BLACK HILLS GAS R	RESOURCES	·
LEASE:	1104BH 1 4 00 00 4	07 #44	
FOOTAGE:	845 FSL, 1255	FEL	
SEC.: 07	_, TWN:28-N	, RNG: <u>2-W</u>	, NMPM
ELEVATION:	7263'		

NOTE:

DAGGETT, ENTERPRISES, INC. IS NOT LIABLE FOR UNDERCROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



Black Hills Gas Resources, Inc. Jicarilla 28-02-07 44 845' FSL 1,255' FEL (SE/4 SE/4)

Sec. 7 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 - 7,264'

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

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	2,205'	Sandstone, shales & siltstones
Ojo Alamo	3,120'	Sandstone, shales & siltstones
Kirkland	3,502'	Sandstone, shales & siltstones
Fruitland Coal	3,604'	Sandstone, shales & siltstones
Pictured Cliffs	3,636'	Sandstone, shales & siltstones
Lewis	3,746'	Sandstone, shales & siltstones
TOTAL DEPTH	4,000'	

•

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

Tertiary

San Jose	surface	Gas
Nacimiento	2,205'	Gas
Ojo Alamo	3,120'	Gas
Fruitland Coal	3,604'	Gas
Pictured Cliffs	3,636'	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

ABNORMAL CONDITIONS

Pressures: A)

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

June 9, 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

