(April 2004)

FORM APPROVED Form 3160-5 OMB No. 1004-0135 UNITED STATES Expires: March 31, 2007 DEPARTMENT OF THE INTERIOR 5. LEASE SERIAL NO BUREAU OF LAND MANAGEMENT Contract 464 SUNDRY NOTICES AND REPORTS ON WELLS IPINDIANI ALLOTTEBORTRIBE NAME Do not use this form for proposals to drill, of to re-enter an Jicarilla Apache Nation abandoned well. Use Form 3160-3 (APD) for such proposals? FIRUNITOR CA, AGREEMENT DESIGNATION SUBMIT IN TRIPLICATE 070 F/ RMINISTON NH 8. WELL NAME AND NO. 1 TYPE OF WELL Oil Well Gas Well Jicarilla 464-29 16 2. NAME OF OPERATOR 9. API WELL NO. Black Hills Gas Resources, Inc. 30-039-27776 3. ADDRESS AND TELEPHONE NO. CONTACT: Lvnn Benallv 10. FIELD AND POOL, OR EXPLORATORY AREA PHONE: 505-634-1111 Ext. 27 350 Indiana Street, Suite 400 80401 Fax: 505-634-1116 Golden Dakota 4. LOCATION OF WELL (Footage, T, R, M, or Survey Description) 11. COUNTY OR PARISH, STATE 650' FNL **New Mexico** 2.400' FWL Sec. 29 T 30N R 3W Rio Arriba 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Acidize X Water Shut-Off Deepen Production (start/resume) Reclamation Well Integrity Alter Casing Reclamation Subsequent Report Casing Repair **New Construction** Recomplete Other Change Plans Plug and Abandon Temorarily Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal Describe Proposed or completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) The above referenced well was originally submitted on June 4, 2002, and given API# 30-039-27776. This Sundry Notice will change the total depth of the above referenced well. From: 4,027' Total Depth To: 8,900' Total Depth The Drilling Program is revised as attached. All other information in the APD shall remain the same. his APD is approved for a TD of 8900', however can TD anuture Mee the Morrison is princtrated. Extra hole is granted 14. I hereby certify that the foregoing is true and correct allow for the log stute to be new. Title: Perhat Agent for Black Hills Gas Resources, Inc. Kathy L. Schneebeck, 303-820-4480 Date: June 7, 2005 THIS SPACE FOR FEDERAL OR STATE OFFICE USE 6/21/08 IS/ Adrienne Brumley

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes 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.

Office

Conditions of approval, if any, are attached. Approval of this notice

applicant to conduct operations thereon.

does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the

Submit 5 Copies 10 Appropriate District	State of	New Mex	xico	•	For	m C-103
Office <u>District I</u>	Energy, Minerals	and Natur	ral Resources _		Ma	ay 27, 2004
1625 N. French Dr., Hobbs, NM 88240	83,,			WELL API NO.		
District II	OH CONGERA	7 A TOTAL	DIMIGION	30-039-27776		
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERV			5. Indicate Type	e of Lease	
District III	1220 South	ı St. Fran	cis Dr.	STATE	FEE [7
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe	e, NM 87	505	6. State Oil & G		
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM		, 1 1111 0 7		Contract 464	ias Lease IVO.	
87505				Contract 404		
	ICES AND REPORTS OF	N WELLS		7. Lease Name	or Unit Agreemen	nt Name
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DIFFERENT RESERVOIR. USE "APPLI	CATION FOR PERMIT" (FOR	M C-101) FO	R SUCH	Jicarilla Apache	Nation	
PROPOSALS.)			<u>}</u>	8. Well Number		
1. Type of Well: Oil Well	Gas Well 🛛 Other				464-29 16	
2. Name of Operator				9. OGRID Num		
Black Hills Gas Resources, Inc.					13925	
3. Address of Operator	GO 00404			10. Pool name o	or Wildcat	
350 Indian St., Suite 400, Golden,	CO 80401			Dakota		
4. Well Location						
Unit Letter	650' feet from the	North lin	ne and 2,400' f	eet from the	West line	
Section 29	Township	30N	Range 3W	NMPM	Rio Arriba Cou	nty
18 A 2	11. Elevation (Show wh		RKB, RT, GR, etc.)			
	7,262	GR		4 1		
Pit or Below-grade Tank Application	or Closure 🗌					
Pit type Depth to Groundy	vaterDistance from nea	arest fresh w	ater well Dista	nce from nearest su	rface water	
1					- 	-
Fit Linet Tinckness.	Below-Grade Tank: Vo	Tunie	DDIS; COL	struction Material		
12. Check	Appropriate Box to In	dicate Na	ature of Notice, I	Report or Othe	r Data	
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RICT I Now 1980, Hobbs, M.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

TRICT II Drawer DD, Artesia, N.M. 88211-0719 DRICT III D Rio Brazos Rd., Astee, N.M. 87410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

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Mallon Oil Company Jicarilla 464-29 #16

650' FNL 2,400' FWL (NE/4 NW/4)

Sec. 29 T30N R3W

Rio Arriba County, New Mexico

Lease: Jicarilla 464

DRILLING PROGRAM (Per Rule 320)

SURFACE FORMATION - Upper San Jose

GROUND ELEVATION – 7,262'

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

Lower San Jose	13'	Sandstone, shales and siltstones
Nacimiento	2,115'	Sandstone, shales and siltstones
Ojo Alamo	3,286'	Sandstone, shales and siltstones
Kirtland	3,527'	Sandstone, shales and siltstones
Fruitland	3,771'	Sandstone, shales and siltstones
Pictured Cliffs	3,811'	Sandstone, shales and siltstones
Lewis	3,927'	Sandstone, shales and siltstones
Point Lookout	6,213'	Sandstone, shales and siltstones
Mancos	7,689'	Sandstone, shales and siltstones
Dakota	8,542'	Sandstone, shales and siltstones, sand with gas
Morrison	8,762'	Sandstone, shales and siltstones
Total Depth	8,900'	Sandstone, shales and siltstones

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

Cretaceous

Mancos 8,762' Gas

TOTAL DEPTH 8,900'

		P				

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0' – 263'	12-1/4"	9-5/8"	J-55 36# ST&C New	To surface (±300 sxs Class B)
0' - 4,020'	8-3/4"	7"	L80 23# LT&C S95 23# LT&C	To surface (±326 sxs Lite and ±300 sxs 50:50 poz)
0' - 8,900'	6-1/4"	4-1/2"	J-55 11.6# LT&C New	TD to 4,020' (±308 sxs lite or 65:35 poz and ±200 sxs 50:50 poz *

Production liner will overlap a minimum of 100.

Actual cement volume to be determined by caliper log.

Yields:

Class B yield =
$$1.8 \, \text{ft}^3/\text{sx}$$
 15. Leppo, 1.20 ft³/8K 65:35 Poz yield = $1.62 \, \text{ft}^3/\text{sx}$ 13.4 ppg, 1.59 ft³/8K 50:50 Poz yield = $1.26 \, \text{ft}^3/\text{sx}$ 14.2 ppg, 1.27 ft³/8K

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and protected.

PRESSURE CONTROL

BOP's 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 rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. Annular type preventors will be pressure tested to 50% of their rated working pressure. All casing strings will be pressure tested to 0.22 psi/ft. or 1,500 psi, whichever is greater, not to exceed 70% of internal yield.

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 2,000 psi 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

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kick" will be available at wellsite:

AUXILIARY EQUIPMENT

- Inside BOP or stab-in valve (available on rig floor) A)
- Mud monitoring will be visually observed. B)

LOGGING, CORING, TESTING PROGRAM

A) Logging: DIL- CNL-FDC-GR - TD - BSC (GR to surface) (Triple Combo)

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: Hydrogen sulfide gas is potentially present in the San Jose and Ojo Alamo formation

and an H₂S drilling plan is attached.

D) Estimated bottomhole pressure: 2,759 psi

ANTICIPATED START DATE

July 1, 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.

Jicarilla 464-29 #16

650' FNL 2,400' FWL NE /4 NW /4

Sec. 29 T 30N

R 3W

Rio Arriba County, New Mexico

Lease: Jicarilla 464

SURFACE CASING AND CENTRALIZER DESIGN

Proposed Total Depth:	8,900 '
Proposed Depth of Surface Casing:	263 '
Estimated Pressure Gradient:	0.31 psi/ft
Bottom Hole Pressure at	8,900 '
0.31 psi/ft x = 8,900 ' =	2,759 psi
Hydrostatic Head of gas/oil mud:	0.22 psi/ft
0.22 psi/ft x = 8,900 =	1,958 psi

Maximum Design Surface Pressure

Casing Strengths

9-5/8" J-55 36# ST&C

Wt.	Tension (lbs)	Burst (psi)	Collapse (psi)		
36 #	394,000	3,520	2,020		
40 #	452,000	2,950	2,570		

Safety Factors

Collapse: 1.125

Tension (Dry):
$$28 \#/ \text{ft} \times 263 = 7,364 \#$$

Safety Factor =
$$\frac{452,000}{7,364} = 61.38$$
 ok

Burst: Safety Factor =
$$\frac{2,950}{801}$$
 psi = 3.68 ok

Collapse: Hydrostatic =
$$0.052 \times 9.0 \text{ ppg } \times 263 \text{ '} = 123 \text{ psi}$$

$$Safety Factor = 2,570 \text{ psi} = 20.88 \text{ ok}$$

Use 2,000 psi minimum casinghead and BOP's

Centralizers

5 Total

1 near surface at 80'

1 10' up on bottom joint

2 on the first, second, and third collar from bottom.

Note that field experience indicates that additional centralizers greatly increase the chance of "sticking" the surface casing prior to reaching surface casing total depth.

Jicarilla 464-29 16 650' FNL 2,400' FWL (NE/4 NW/4) Sec. 29 T 30N R 3W Rio Arriba County, New Mexico

Contract 464

INTERMEDIATE CASING DESIGN

Proposed Total Depth: 8,900 '
Proposed Depth of Surface Casing: 4,020 '
Estimated Pressure Gradient: 0.31 psi/ft
Bottom Hole Pressure at 8,900 '

 $0.31 \text{ psi/ft} \times 8,900 \text{ } = 2,759 \text{ psi}$ Hydrostatic Head of gas/oil mud: 0.22 psi/ft

0.22 psi/ft x 8,900 ' = 1,958 psi

Maximum Design Surface Pressure

Bottom Hole Pressure – Hydrostatic Head =
(0.31 psi/ft x 8,900 ') – (0.22 psi/ft x 8,900 ') =
2,759 psi – 1,958 psi = 801 psi

Use 4,020 ' 7 " L-80 23# LTC New & S95 23# LTC New

Use 2,000 psi minimum casinghead and BOP's

2-M SYSTEM Black Hills Gas Resources, Inc.

ANNULAR PREVENTOR MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTORS BOP PRESSURE TEST TO 1,000 PSI

