UNITED STATES 2006 JUN 14 DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED



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

NMSF79484A	WHEEP.	Δ	794	8	Ų,	ļ

6. If Indian, Allottee or Tribe Name

WE ILE TO ALL PARTY OF LETTINITY	I O DITTE	L ON DEEP EN					
1a. Type of Work X DRILL REEN	7.	If Unit or CA Agreement, Name	and No.				
	8.	Lease Name and Well No.					
1b. Type of Well Oil Well X Gas Well Other	Type of Well Oil Well X Gas Well Other X Single Zone Multiple Zone						
2. Name of Operator E-mail:	9.	API Well No.					
Black Hills Gas Resources, Inc.	ļ	30-039-29	1958				
3a. Address P.O. Box 249	code) 10	. Field and Pool, or Exploratory					
Bloomfield CO 87413		505-634-1111		East Blanco / Pictured	d Cliffs		
4. Location of Well (Report location clearly and in accordance with any State R.	equirements.*)		11	. Sec., T., R, M, or Blk and Su	rvey or Area		
At surface 1,055' FSL 405' FEL		SE /4 SE /4	10	Sec. 14 T 30N	D 444		
Lat: 36° 48' 26.3"	Long: 107	7° 12' 59.5"	I P	Sec. 14 T 30N	R 4W		
At proposed production zone ±1,055' FSL ±660' FWL (SW/4 SW	7/4) Sec. 14 T30	N R4W		New Mexico I	PМ		
14. Distance in miles and direction from nearest town or post office. *		······································	12	. County or parish	13. State		
Well is approximately 50 miles east of Bloomfield, Nev	v Movico			Rio Arriba	NM		
	·		<u> </u>		INIVI		
15. Distance from proposed location to nearest Unit= NA property or lease line, ft. (Also nearest Drig, unit	16. No. of acres		I ' '	g Unit dedicated to this well	المسا		
line, if any) Lease= ±100'		1530.69	3 18.	98 316-16 3			
18. Distance from proposed location to nearest	19. Proposed de	epth	20. BLM/B	IA Bond No. on file			
well, drilling, completed or applied for, on this lease, ft. ± 2,000 '		4,000' TVD	NME	3000230			
21. Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approximate	e date work will start *	23	3. Estimated duration			
7,050 ' GR	July	13, 2006		45–60 days drlg + 0	completion		
	24. Attac	hments					
The following, completed in accordance with the requirements of Or	nshore Oil and (Gas Order No. 1, shall be a	attached to	this form:			
1. Well plat certified by a registered surveyor.		4. Bond to cover the	he operation	ons unless covered by an e	xisting bond		
2. A Drilling Plan.	,	on file (see Item	n 20 above	e).	•		
3. A Surface Use Plan (if the location is on National Fore	•	5. Operator certific					
Lands, the SUPO shall be filed with the appropriate Foreign Service Office).	orest	6. Such other site required by the		formation and/or plans as n	nay be		
dervice diffice).		required by the	aumonzec	onicer.			
25. Signature	Name (Pr	nnted/Typed)		Date			
Kathy L. Schneebeck, 303-82				480 June 13,	2006		
Title Permit Agent for Black Hills Gas Resource	ces, Inc.						
Approved by (Signature)	Name (Pr	nnted/Typed)		Date	1		
Markeeuss 7/2/07							
Title 4 FM							
	I		<u> </u>				
Application approval does not warrant or certify that the applicant holds legal or Conditions of approval, if any, are attached.	equitable title to t	those rights in the subject lease	e which woul	ld entitle the applicant to conduc	t operations thereon		

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 CAP Com C-lo3 prior to construction JUL 2'07

File application for pit possist on (continued on page 2)

UIL CONS. DIU

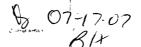
Locution NOTIFY AZTEC OCD 24 HRS.

DIST. 3

NOTIFY AZTEC OCD 24 HRS. PRIOR TOMOSTING & CEMENT

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165.4

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

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

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

² Pool Code

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

¹ API Number

See Attached

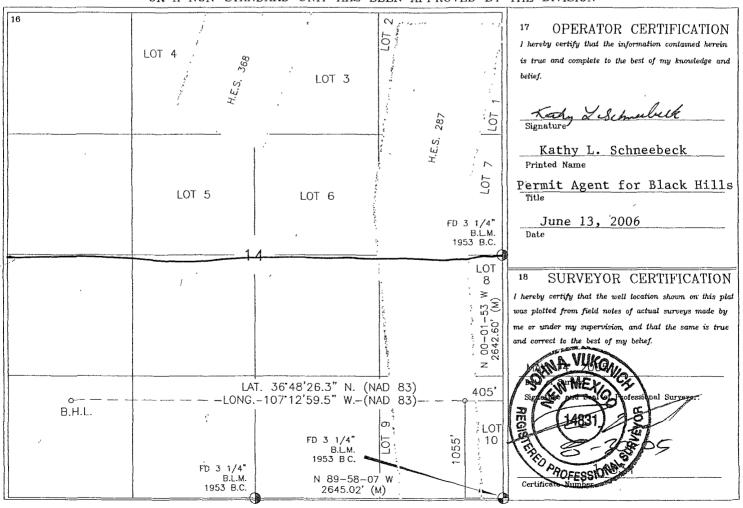
☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-03	80-039-29958 72400 East Blanco / Pictured Cliffs								
Property C		⁶ Property Name						l Number	
3658	5	MANY CANYONS 30-04-14 44H						44H	
OGRID No		⁸ Operator Name ⁹ Elevation						llevation	
013925		BLACK HILLS GAS RESOURCES 7050						7050	
	¹⁰ Surface Location								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	14	30-N	4-W		1055	SOUTH	405	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 line	County
М	14	30-N	4-W		1055	SOUTH	660	WEST	RIO ARRIBA
¹² Dedicated Acre	28		13 Joint or	Infill	14 Consolidation (Code	16 Order No.		

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



C102 Attachment

12) Dedicated Acres

57.02 acres fee 59.466 261.96 acres federal 2 56.69

318.98 total acres 316.16

S/2 (a/d/a Lots 8 – 10, SW/4, W/2SE/4 – Federal, and that portion of HES 287 located in the S/2 of Section 14)

WELL PAD CROSS-SECTIONAL DIAGRAM

	COMPANY:	BLAC	K HILLS GAS	RESOURCES		
	LEASE:		ANYONS 30-0	4-14 NO. 44	H	
	FOOTAGE:	· ·	1055 FSL, 4	05 FEL		
	SEC.: 14		30-N	, RNG:_	4-W	, NMPM
	ELEVATION: _	7050'				
,				UND ONE	GETT ENTERPRISE ERGROUND UTILI	ES, INC. IS NOT LIABLE FOR TIES OR PIPELINES. NEW MEXICO DITIFIED 48 HOURS PRIOR TO ISTRUCTION.
ELEV. A-A'			C,	[/] L		No. (Marania)
7080						
7070						
7060						
7050						
7040						
7030						
7020						**************************************
ELEV. B-B'			c/	L		
7080						
7070						
7060						
7050						
7040						
7030						
7020	CONTRACTOR DATE OF THE PARTY OF					
ELEV. C-C'			C/	Ĺ		lnc. lnc. ilces 87401 -6019
7080						DIAGRAM DIAGRAM REVISED BY C. VELOZ ISOS, Inc. eld Services giqton, NM 87401 14831 14831 175_CF8
7070						WELL PAD DIAGRA PERMIQTON, N. 1483 CAPITE, MAY415_G5 DATE: O6/20/05
7060						WELL P WELL P O3/10 G and Oil 15068 of Oil 15068 of Oil MEXICO L OANTE: OF
7050						PL8 WELL PAD DIAGRAM PL8 WELL PAD DIAGRAM O3.10/06 [G. VELOZ eylog and Oil Field Services Box 15068 - Farmington, NN 87401 (SOS) 326-1772 - Famington, NN 87401 (SOS) 326-1772 - Famington, NN 87401 (SOS) 326-1772 - Famington, NN 87401 EW MEXICO L.S. 14831 EW MEXICO L.S. 14831 OWIE: MN415_CF8

Black Hills Gas Resources, Inc. Many Canyons 30-04-14 44H

1,055' FSL 405' FEL (SE/4 SE/4) – H.E.S. 287 BHL: ±1,055' FSL ±660' FWL (SW/4 SW/4)

Sec. 14 T30N R4W
Rio Arriba County, New Mexico
Surface Lease: Fee
Mineral Lease: NMSF79484A & Fe

DRILLING PROGRAM

This APD is filed under the APD process as stated in Onshore Order No. 1 and supporting BLM documents. This APD process may include an on-site meeting as determined by BLM, at which time the specific concerns of Black Hills Gas Resources, Inc. (Black Hills) and BLM will be discussed. Best efforts will be made to address specific concerns of the BLM representatives.

Please contact Lynn Benally at 505-634-1111 (office) or 505-793-6336 (cell) to schedule an on-site meeting, if necessary.

This is a new vertical and horizontal well to be drilled into the Pictured Cliffs formation. See also the attached Horizontal Drilling Program.

SURFACE FORMATION - San Jose

GROUND ELEVATION - 7,050'

ESTIMATED FORMATION TOPS - ((Water, oi	l, gas and/or o	other mineral-	-bearing:	formations)

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1,960'	Sandstone, shales & siltstones
Ojo Alamo	3,200'	Sandstone, shales & siltstones
Kirkland	3,430'	Sandstone, shales & siltstones
Fruitland Coal	3,610'	Sandstone, shales & siltstones
Pictured Cliffs	3,803'	Sandstone, shales & siltstones
TOTAL DEPTH	4,000'	TVD
	8,071.11'	MD (length of horizontal section)

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

Tertiary

San Jose	surface	Gas
Nacimiento	1,960'	Gas
Ojo Alamo	3,200'	Gas
Fruitland Coal	3,610'	Gas
Pictured Cliffs	3,803'	Gas

HORIZONTAL DRILLING PROGRAM

A) Kick Off Point is estimated to be at ±3,795' TVD

5'12" cassing will be set to 4000'. Will come up hole to KOP & mill Through casing CASING PROGRAM for horizontal hole.

CHOINGI ROCKANI 181 YILITI ZONI (ILL.)						
Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement		
0' ~ 2 5 0' T√D	12-1/4"	8-5/8"	J-55 24# ST&C New	To surface (±175 sxs Standard Cement containing 2% CaCl2 and 0.25 lb/sx LCM) **		
0' – 4,000' TVD	7-7/8"	5-1/2"	J-55 15.5# LT&C New	TD to surface (Lead: ±300 sxs Lite Standard Cement. Tail: 400 sxs 50:50 POZ containing 0.25 lb/sx LCM)* **		
3,795' TVD (KOP) – End of Lateral Bore	4-3/4"	2-7/8"	PH-6 (Liner)	None		

^{*} Actual cement volume to be determined by caliper log.

Yields:

Surface: Standard Cement yield: = 1.2 ft³/sx (mixed at 15.6 lb/gal)

Production: Lite Standard Cement yield: = 1.59 ft³/sx (mixed at 13.4 lb/gal)

 $50.50 \text{ POZ yield} = 1.27 \text{ ft}^3/\text{sx} \text{ (mixed at } 14.15 \text{ lb/gal)}$

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

^{**} Cement circulated to surface

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 250

300' TD'

' Fresh water – M.W. 8.5 ppg, Vis 30-33

Clean Faze - 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 H_2S Plan if H_2S is encountered.

D) Estimated bottomhole pressure: 1,240 psi

ANTICIPATED START DATE

July 17, 2006

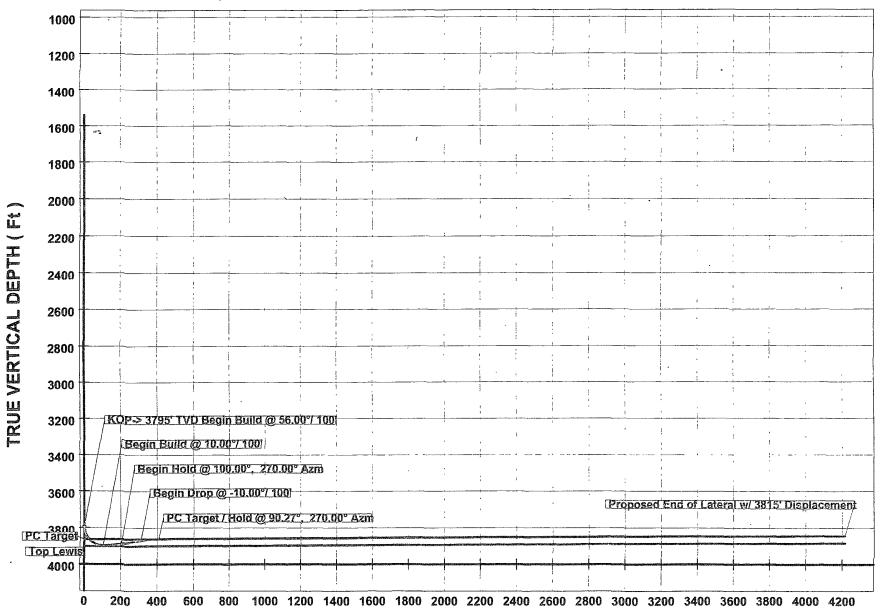
COMPLETION

The location pad will be of sufficient size to accommodate all completion activities and equipment. A string of 2-7/8" PH-6 tubing will be run for a flowing string. A Sundry Notice will be submitted with a revised completion program if warranted.

Job Number: 61xxx

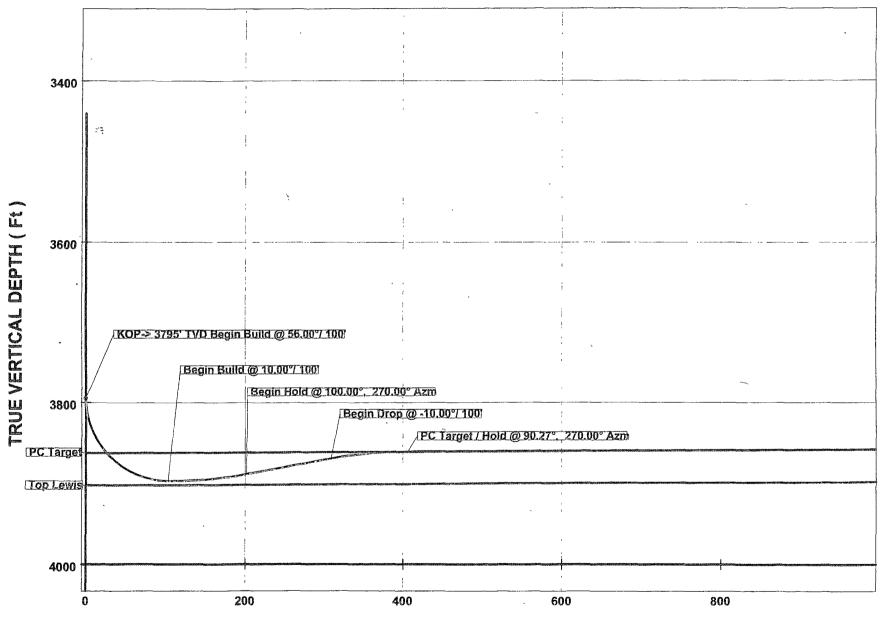
Company: Black Hills E&P Lease/Well: Many Canyons 30-04-14 #44H Location: Rio Arriba Co., NM





Job Number: 61xxx Company: Black Hills E&P Lease/Well: Many Canyons 30-04-14 #44H Location: Rio Arriba Co., NM





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 H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

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

- The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 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 H_2S 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:

- 1. Choke manifold with a minimum of one remote choke.
- 2. 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.

2-M SYSTEM

Black Hills Gas Resources, Inc.

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

