

COPY

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

2006 JUN 15 PM 10:36

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMSF70484A 079 484A	
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name ---	
2. Name of Operator Black Hills Gas Resources, Inc.		7. If Unit or CA Agreement, Name and No. Many Canyons 30-04-12 240	
E-mail: lbenally@bhep.com Contact: Lynn Benally		8. Lease Name and Well No. 30-039-29968	
3a. Address P.O. Box 249 Bloomfield NM 87413	3b. Phone No. (include area code) 505-634-1111	9. API Well No. 30-039-29968	
4. Location of Well (Report location clearly and in accordance with any State Requirements.) At surface 2,535' FNL 135' FEL SE /4 NE /4 Lat: 36° 49' 35.2" Long: 107° 11' 51.4" At proposed production zone 1,980' FNL 660' FWL (SW/4NW/4) Lot 2		10. Field and Pool, or Exploratory East Blanco / Pictured Cliffs	
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 12 T 30N R 4W H New Mexico PM		12. County or parish Rio Arriba	
14. Distance in miles and direction from nearest town or post office. Well is approximately 50 miles east of Bloomfield, New Mexico.		13. State New Mexico	
15. Distance from proposed location to nearest property or lease line, ft. (Also nearest Drig, unit line, if any) Unit= NA Lease= ±135'	16. No. of acres in lease 1530.69	17. Spacing Unit dedicated to this well 313.35 1600 NW	
18. Distance from proposed location to nearest well, drilling, completed or applied for, on this lease, ft. ± 2,062'	19. Proposed depth 4,000' TVD	20. BLM/BIA Bond No. on file NMB000230	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,028' GR	22. Approximate date work will start July 18, 2006	23. Estimated duration 45-60 days drtg + 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:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Kathy L. Schneebeck</i>	Name (Printed/Typed) Kathy L. Schneebeck, 303-820-4480	Date June 15, 2006
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Title
Permit Agent for Black Hills Gas Resources, Inc.

Approved by (Signature) <i>Jim Lovato</i>	Name (Printed/Typed) Office	Date 11/16/06
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Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

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

Submit At application prior
to constructing location.
well site is in vulnerable area.

(continued on page 2)

HOLD C164 FOR Directional survey
and NSL
RCVD NOV 17 06
OIL CONS. DIV.
DIST. 3

NMOC

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

16

QTR. CORNER
FD. 3 1/4" B.C.
B.L.M. 1953

N 89°51'19" W
2619.41' (M)

SEC. CORNER
FD. 3 1/4" B.C.
B.L.M. 1953

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

N 00°13'48" W
2639.97' (M)

2535'

B.H.L.

LAT. 36°49'35.2" N (NAD 83)
LONG. 107°11'51.4" W (NAD 83)

LOT 4

LOT 5

LOT 6

LOT 7

QTR. CORNER
FD. 3 1/4" B.C.
B.L.M. 1953

12

135'

118'

H.E.S. 292

H.E.S. 291

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 or under my supervision, and that the same is true and correct to the best of my belief.

JOHN A. VUKONICH
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
14831

Signature and Seal of Professional Surveyor:

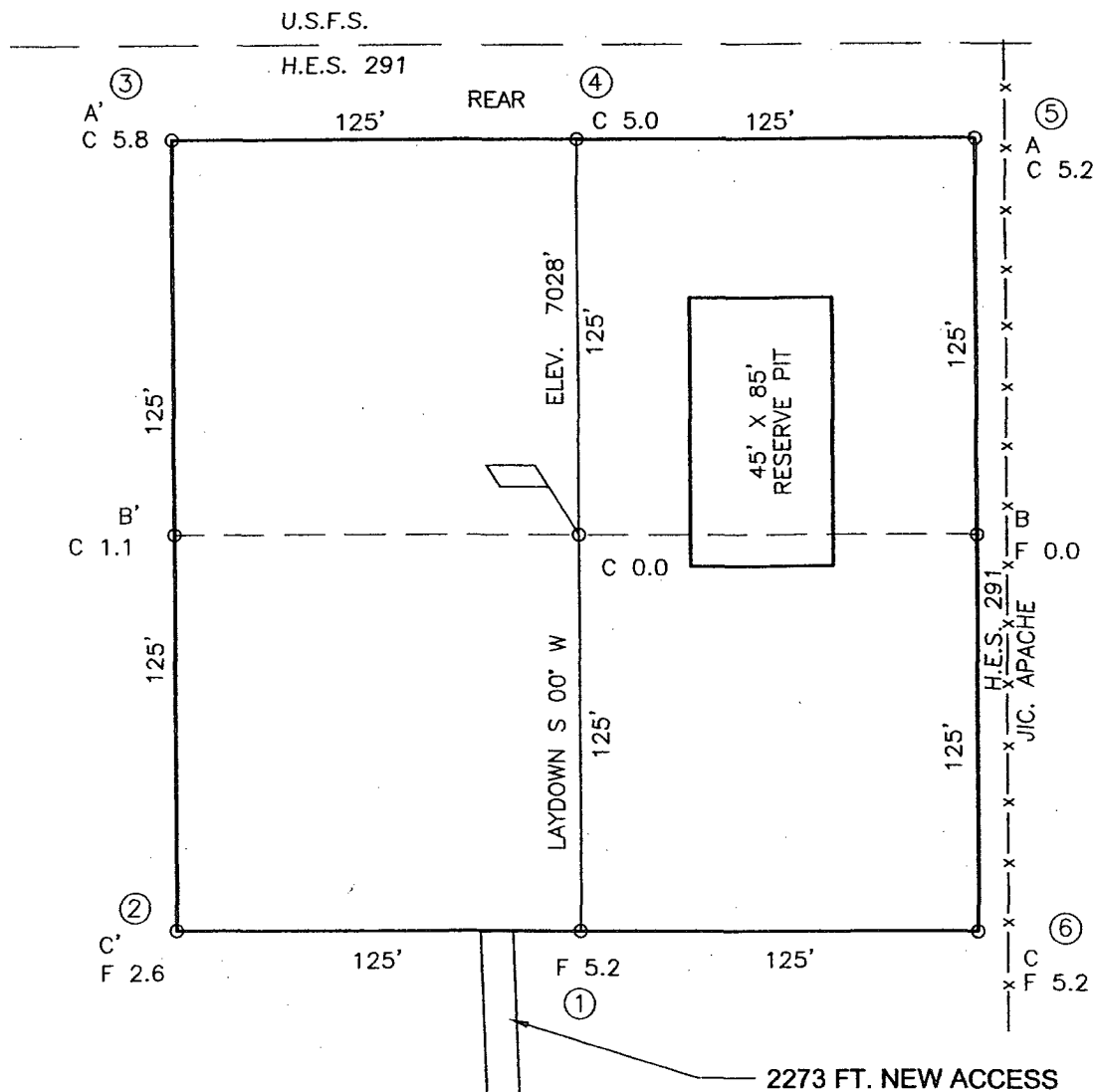
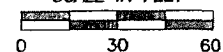
14831

Certificate Number

COMPANY: BLACK HILLS GAS RESOURCES
LEASE: MANY CANYONS 30-04-12 No. 24H
FOOTAGE: 2535 FNL 135 FEL
SEC.: 12, TWN: 30-N, RNG: 4-W, NMPM
ELEVATION: 7028'




SCALE IN FEET



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.

LOCATION IS OFFSET 10' FROM THE EAST
BOUNDARY OF H E S 291.

REVISION:	DATE:	REVISED BY:
CHANGE ACCESS & PIT	11/08/05	B.LEIDY



Daggett Enterprises, Inc.

Surveying and Oil Field Services

P. O. Box 15068 • Farmington, NM 87401

Phone (505) 326-1772 • Fax (505) 326-6019

NEW MEXICO L.S. 14831

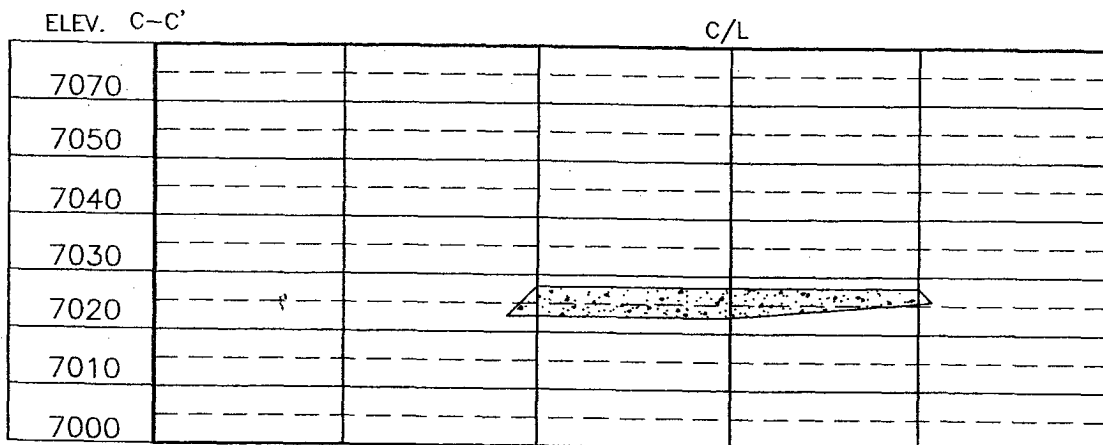
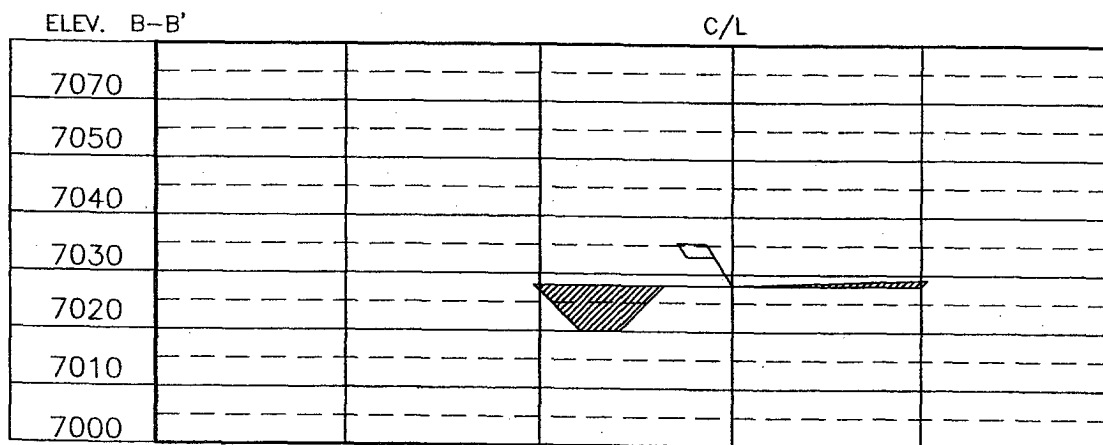
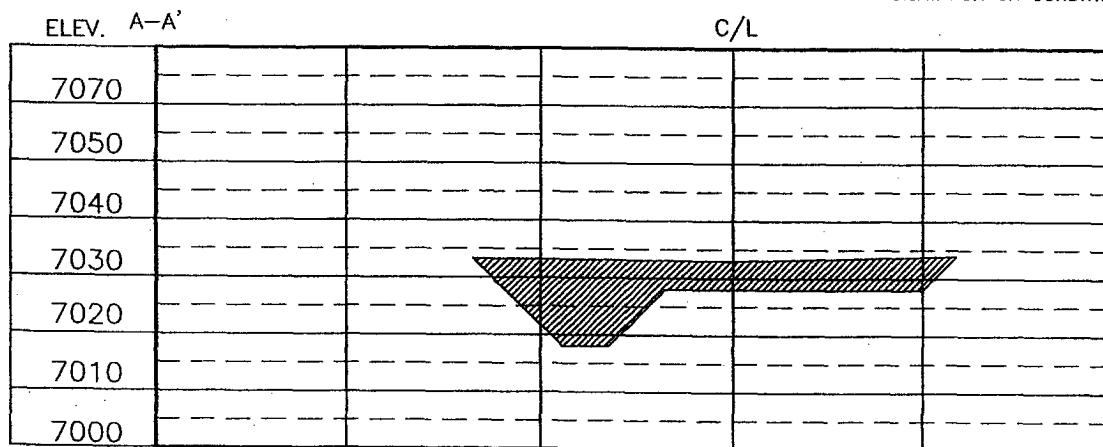
DRAWN BY: B.L.	CADFILE: MN410PLB
ROW#: MN410	DATE: 06/20/05

WELL PAD CROSS-SECTIONAL DIAGRAM

COMPANY: BLACK HILLS GAS RESOURCES
 LEASE: MANY CANYONS 30-04-12 No.24H
 FOOTAGE: 2535 FNL, 135' FEL
 SEC.: 12, TWN: 30-N, RNG: 4-W, NMPM
 ELEVATION: 7028'

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.



REF. DWG. MN410PLB WELL PAD DIAGRAM

REVISION	DATE	REVISED BY
CORRECT SEC. NUMBER	11/28/05	B.L.

Daggett Enterprises, Inc.
 Surveying and Oil Field Services
 P. O. Box 15088 • Farmington, NM 87401
 Phone (505) 326-1772 • Fax (505) 326-6019
 NEW MEXICO L.S. 14831
 DRAWN BY: B.L.
 ROW: MN410

Black Hills Gas Resources, Inc.
Many Canyons 30-04-12 24H
Surface: 2,535' FNL 135' FEL (SE/4 NE/4) – H.E.S. 291
BHL: ±1,980' FNL ±660' FWL (SW/4 NW/4)
Sec. 12 T30N R4W
Rio Arriba County, New Mexico
Surface Lease: Fee
Mineral Lease: NMSF79484A & Fee

DRILLING PROGRAM

This APD is filed under the APD process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (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 – 7,028'

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

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1,890'	Sandstone, shales & siltstones
Ojo Alamo	3,115'	Sandstone, shales & siltstones
Kirkland	3,325'	Sandstone, shales & siltstones
Fruitland Coal	3,510'	Sandstone, shales & siltstones
Pictured Cliffs	3,681'	Sandstone, shales & siltstones

TOTAL DEPTH	4,000'	TVD
	8,251.00'	MD (length of horizontal section)

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

Tertiary

San Jose	surface	Gas
Nacimiento	1,890'	Gas
Ojo Alamo	3,115'	Gas
Fruitland Coal	3,510'	Gas
Pictured Cliffs	3,681'	Gas

HORIZONTAL DRILLING PROGRAM

A) Kick Off Point is estimated to be at $\pm 3,673'$ TVD

5 1/2" casing will be set at 4000'. Will come up hole to KOP & mill through casing for horizontal hole.

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 Standard Cement containing 2% CaCl ₂ and 0.25 lb/sx LCM) **
0' - 4,000'	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) * **
3,673' (KOP) - End of Lateral Bore	4-3/4"	2-7/8"	PH-6 (Liner)	None

* Actual cement volume to be determined by caliper log.

** Cement will be circulated to surface.

Yields:

Surface: Standard Cement yield: = $1.2 \text{ ft}^3/\text{sx}$ (mixed at 15.6 lb/gal)

Production: Lite Standard Cement yield: = $1.59 \text{ ft}^3/\text{sx}$ (mixed at 13.4 lb/gal)

50:50 POZ yield = $1.27 \text{ ft}^3/\text{sx}$ (mixed at 14.15 lb/gal)

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
 250 300' - TD' 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

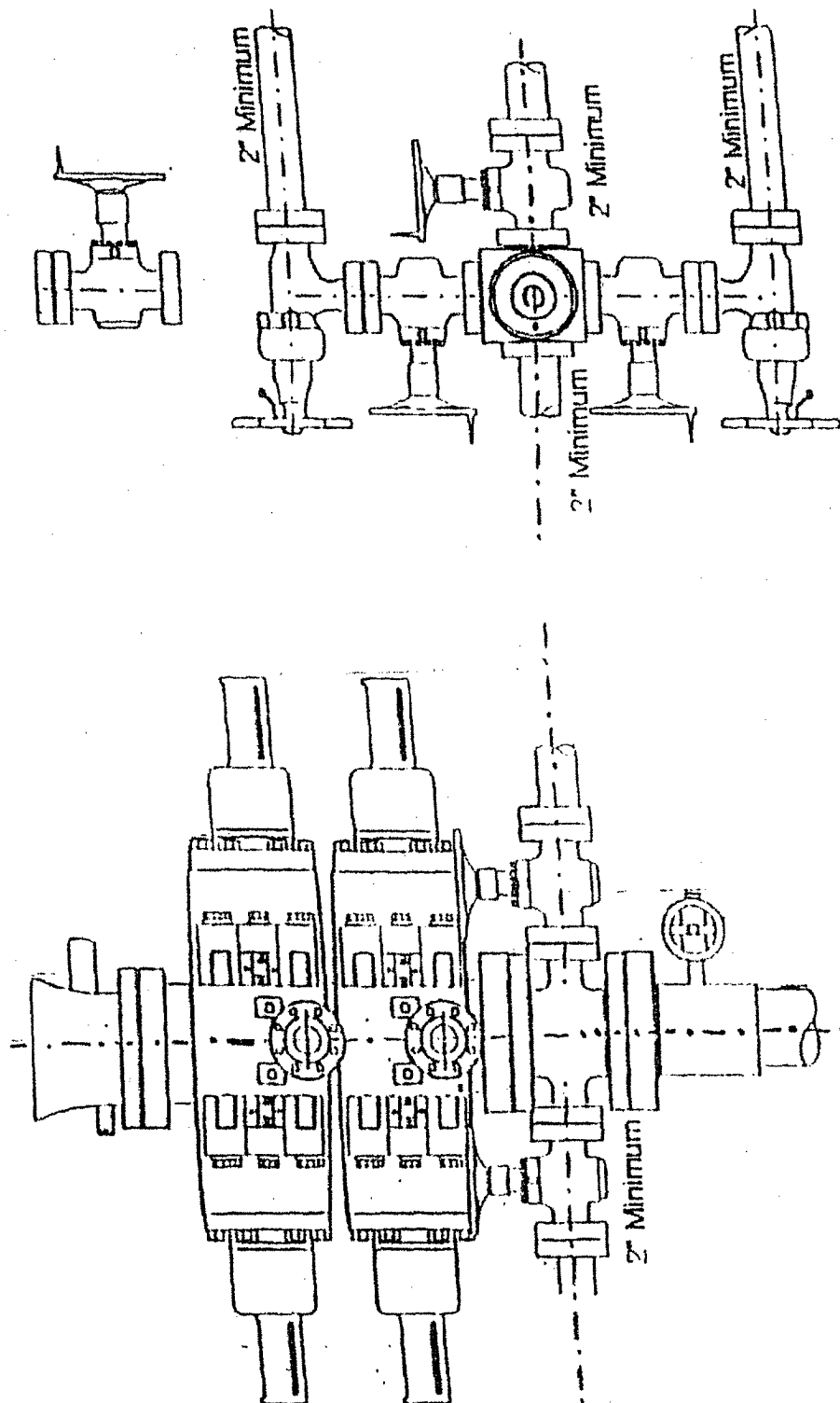
ABNORMAL CONDITIONS

- A) Pressures: No abnormal conditions are anticipated
Bottom hole pressure gradient - 0.31 psi/ft
- B) Temperatures: No abnormal conditions are anticipated
- C) H₂S: See H₂S Plan if H₂S is encountered.
- D) Estimated bottomhole pressure: 1,240 psi

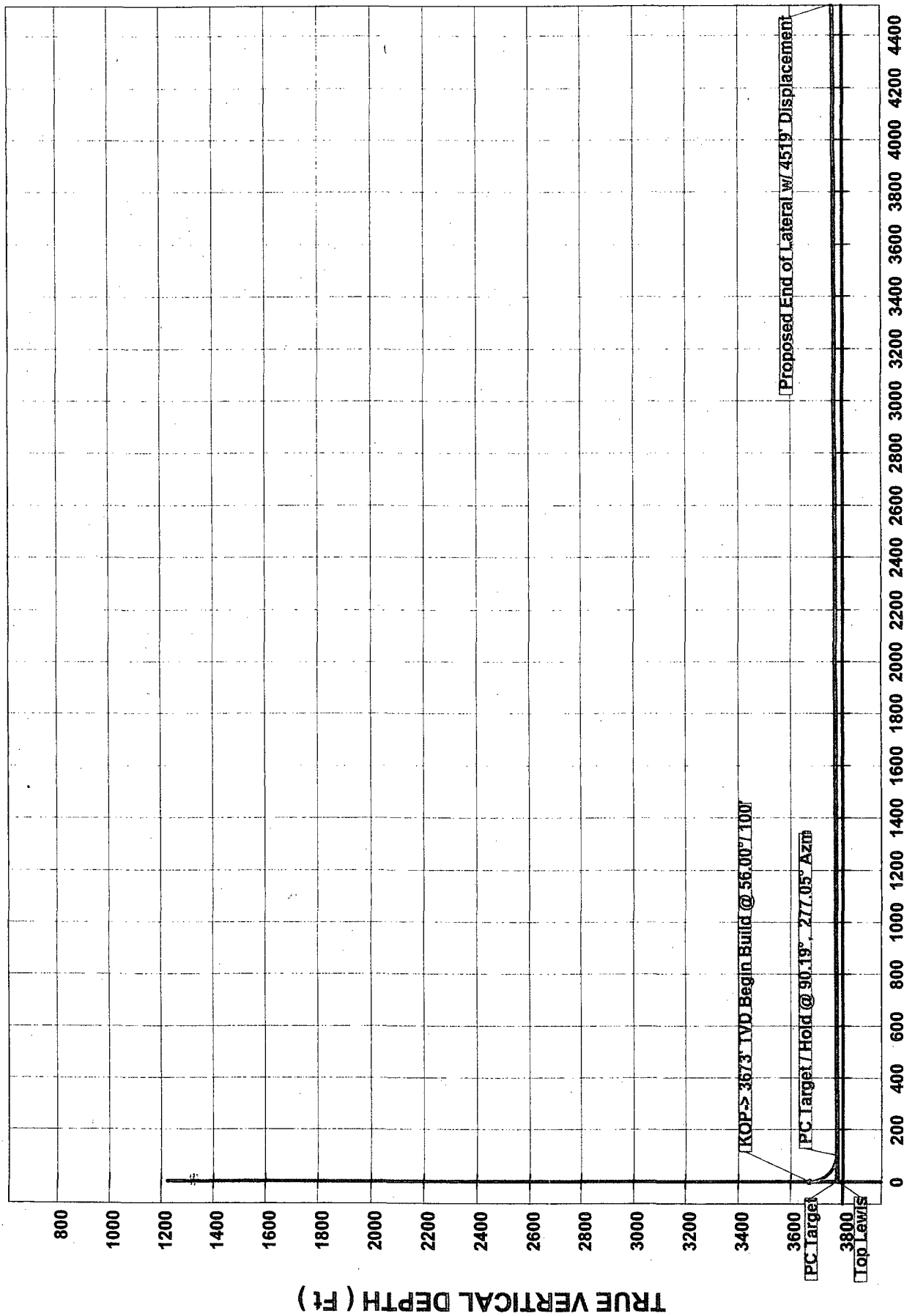
2-M SYSTEM

Black Hills Gas Resources, Inc.

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

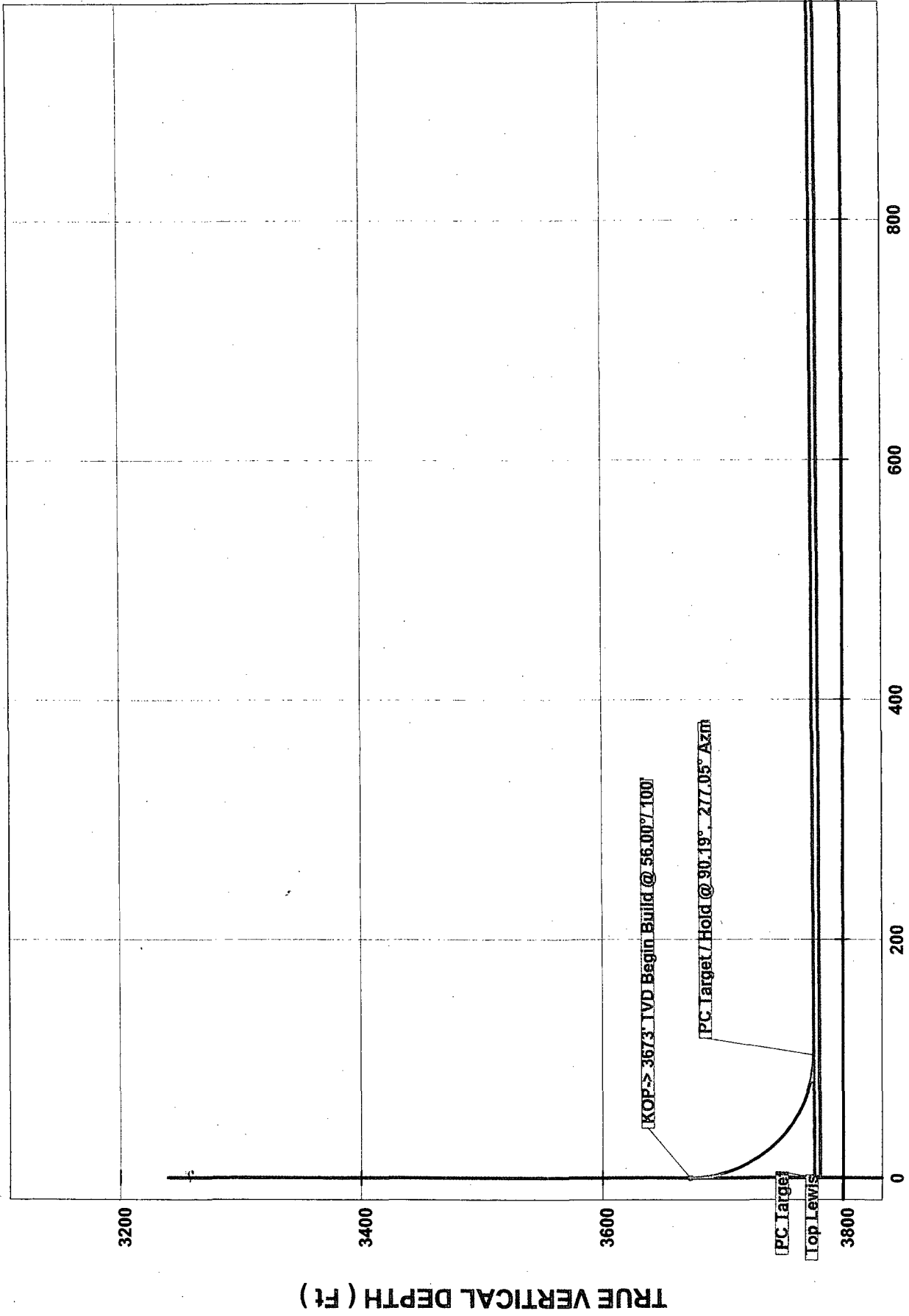


Job Number: 61xxx
Company: Black Hills E&P
Lease/Well: Many Canyons 30-04-12 #24H
Location: Rio Arriba Co., NM



VERTICAL SECTION (Ft) @ 277.05°

Job Number: 61xxx
Company: Black Hills E&P
Lease/Well: Many Canyons 30-04-12 #24H
Location: Rio Arriba Co., NM



VERTICAL SECTION (Ft) @ 277.05°

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:

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 H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S 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 H₂S 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 H₂S.

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.



Black Hills Gas Resources, Inc.

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.
2. 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 H₂S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H₂S scavengers will minimize hazards when penetrating H₂S 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 H₂S 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.