Form 3160-3
(April 2004)

COPY

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. Lease Serial No.	NMNM13376 ~~& Fee~~
6. If Indian, Allottee or Tribe Name	---
7. If Unit or CA Agreement, Name and No.	
8. Lease Name and Well No.	Many Canyons 30-04-13 11H
9. API Well No.	30-039-29969
10. Field and Pool, or Exploratory	East Blanco / Pictured Cliffs
11. Sec., T., R., M., or Blk. and Survey or Area	Sec. 13 T 30N R 4W New Mexico PM
12. County or parish	Rio Arriba
13. State	New Mexico

1a. Type of Work: [X] DRILL [ ] REENTER

1b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

2. Name of Operator: **Black Hills Gas Resources, Inc.**
E-mail: lbenally@bhep.com
Contact: Lynn Benally

3a. Address: P.O. Box 249, Bloomfield, NM 87413
3b. Phone No. *(include area code)*: 505-634-1111

4. Location of Well *(Report location clearly and in accordance with any State Requirements.*)*
At surface: 590' FNL 1,280' FWL NW /4 NW /4
Lat: 36.82644 Long: 107.19761
At proposed production zone: 1,000' FNL 660' FEL (NE/4 NE/4) - Lot 1

14. Distance in miles and direction from nearest town or post office. *
Well is approximately 52 miles east of Bloomfield, New Mexico.

15. Distance from proposed location to nearest property or lease line, ft. (Also nearest Drlg, unit line, if any) Unit= n/a Lease= ±84'	16. No. of acres in lease: 2042.68	17. Spacing Unit dedicated to this well: ~~319.32~~ 319.32 N/2
18. Distance from proposed location to nearest well, drilling, completed or applied for, on this lease, ft.: MC 30-04-11 44H ± 2,900'	19. Proposed depth: 4,000' TVD	20. BLM/BIA Bond No. on file: NMB000230
21. Elevations (Show whether DF, KDB, RT, GL, etc.): 6,934 ' GR	22. Approximate date work will start *: July 18, 2006	23. Estimated duration: 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:

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	Name *(Printed/Typed)*	Date
Kathy L Schneebeck	Kathy L. Schneebeck, 303-820-4480	June 15, 2006

Title: Permit Agent for Black Hills Gas Resources, Inc.

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
/s/ Manuel Macias		11/9/06
Title: AFM	Office: FFO	

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. 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.

(continued on page 2)

File App for pit permit prior to constructing Location.
HOLD C104 FOR directional survey

NMOCD
11/14/06

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

RECEIVED
2006 JUN 19 PM 1:19
070 FARMINGTON NM

RECEIVED
2006 NOV 14 PM 1:06
BUREAU OF LAND MGMT.
DIST. 3

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-29969	72400	East Blanco / Pictured Cliffs

[4] Property Code	[5] Property Name	[6] Well Number
36130	MANY CANYONS 30-04-13	11

[7] OGRID No.	[8] Operator Name	[9] Elevation
013925	BLACK HILLS GAS RESOURCES	6934'

[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
D	13	30-N	4-W	4	590	NORTH	1280	WEST	RIO ARRIBA

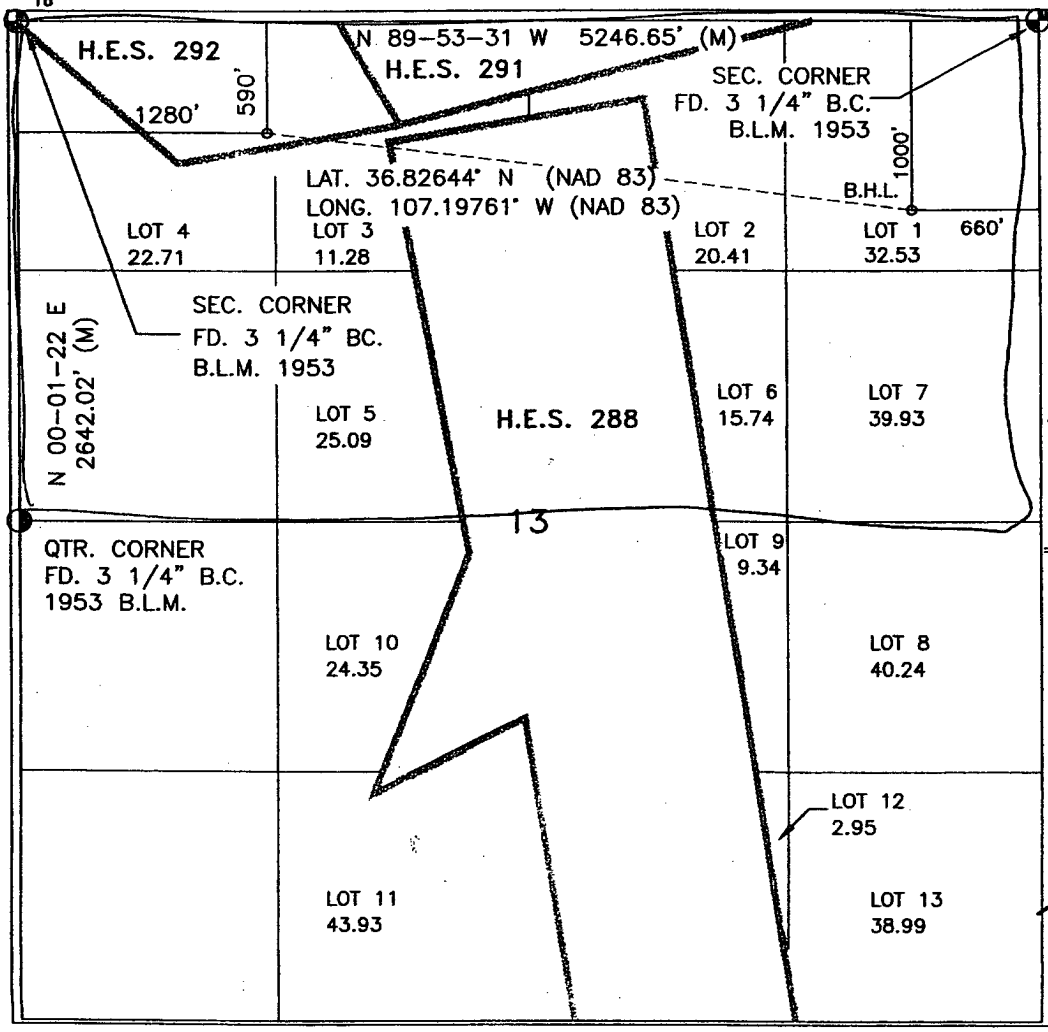
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	13	30-N	4-W	1	1000	NORTH	660	EAST	RIO ARRIBA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
See Attached 319.32			

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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and 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.

Kathy L. Schneebeck June 15, 2006
Signature Date

Kathy L. Schneebeck
Printed Name

Permit Agent for Black Hills

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.

APRIL 25, 2006
Date of Survey

Signature and Seal of Professional Surveyor:

JOHN A. VUKONICH
NEW MEXICO
14831
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number

WELL PAD DIAGRAM

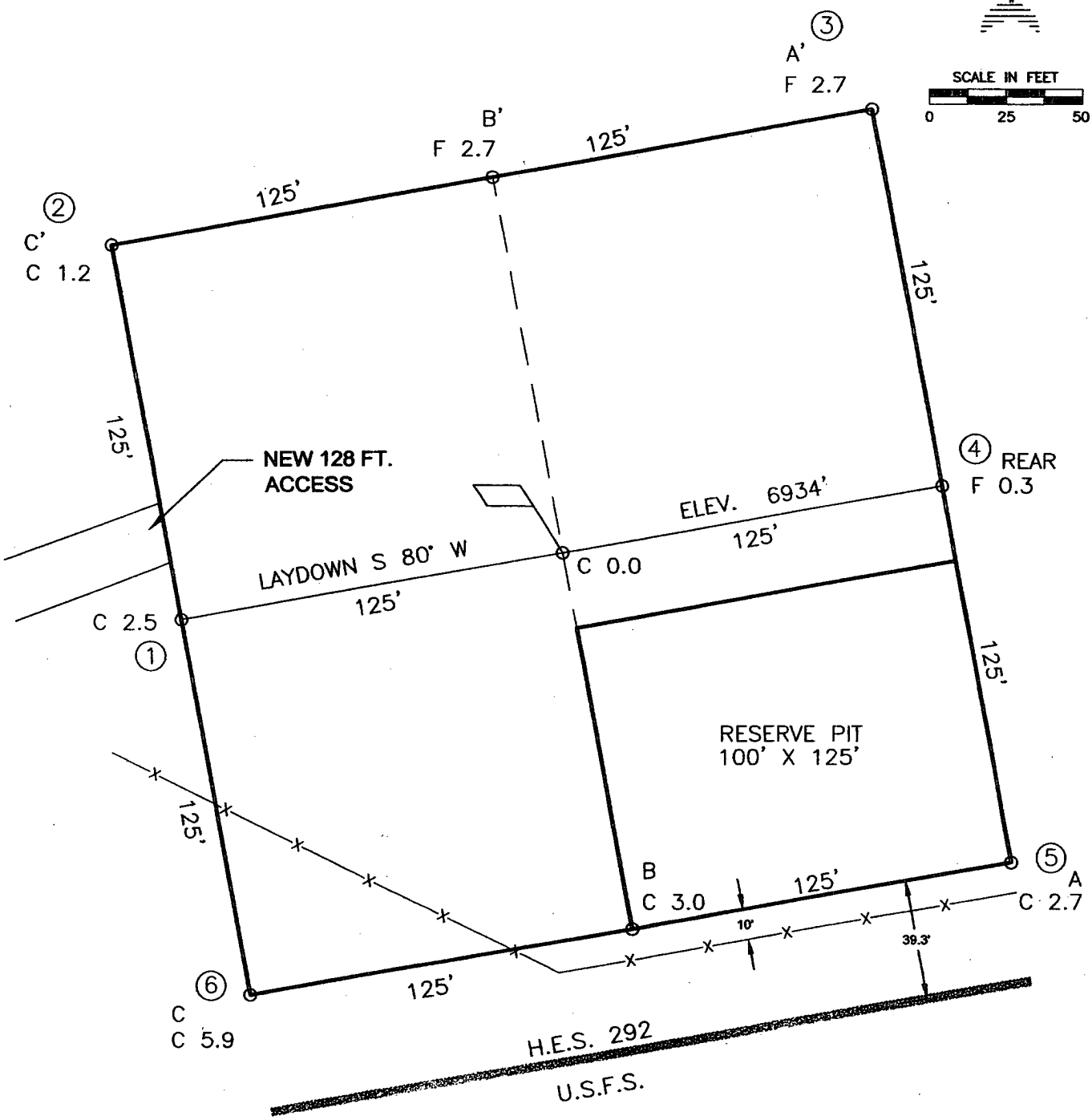
COMPANY: BLACK HILLS GAS RESOURCES

LEASE: MANY CANYONS 30-04-13 No. 11H

FOOTAGE: 590 FNL 1280 FWL

SEC.: 13 TWN: 30-N RNG: 4-W NMPM

ELEVATION: 6934'



REVISION:	DATE:	REVISED BY:
CORRECT ACCESS LENGTH	04/11/06	B.L.

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: MN412PLB
ROW#: MN412	DATE: 06/20/05

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.

WELL PAD CROSS-SECTIONAL DIAGRAM

COMPANY: BLACK HILLS GAS RESOURCES

LEASE: MANY CANYONS 30-04-13 No.11H

FOOTAGE: 590 FNL, 1280' FWL

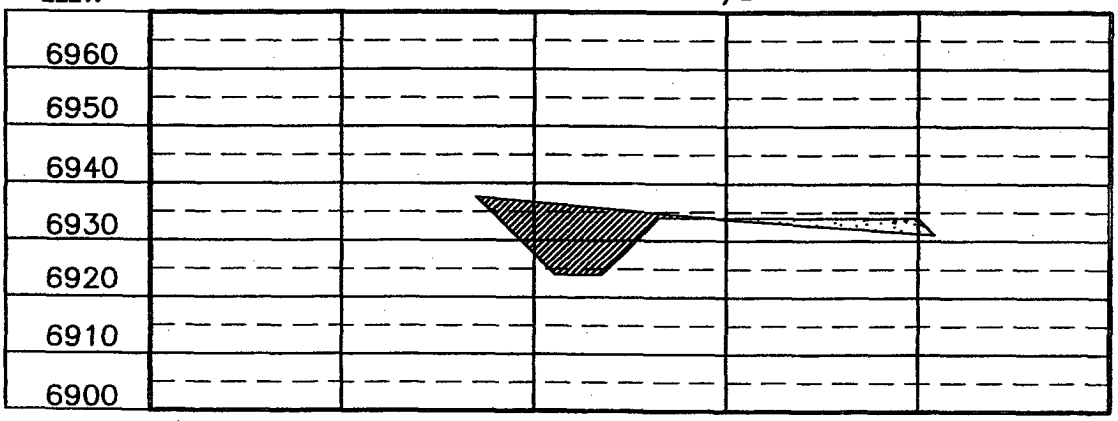
SEC.: 13, TWN: 30-N, RNG: 4-W, NMPM

ELEVATION: 6934'

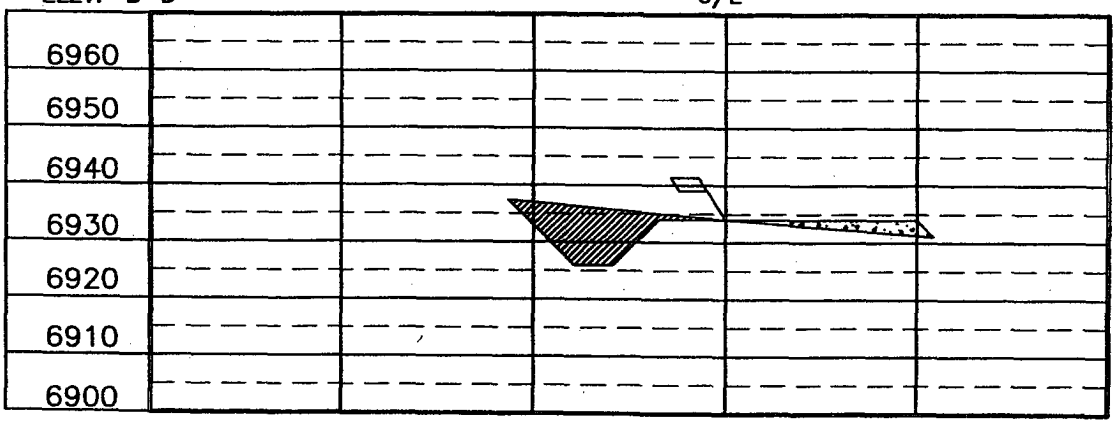
NOTE:

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.

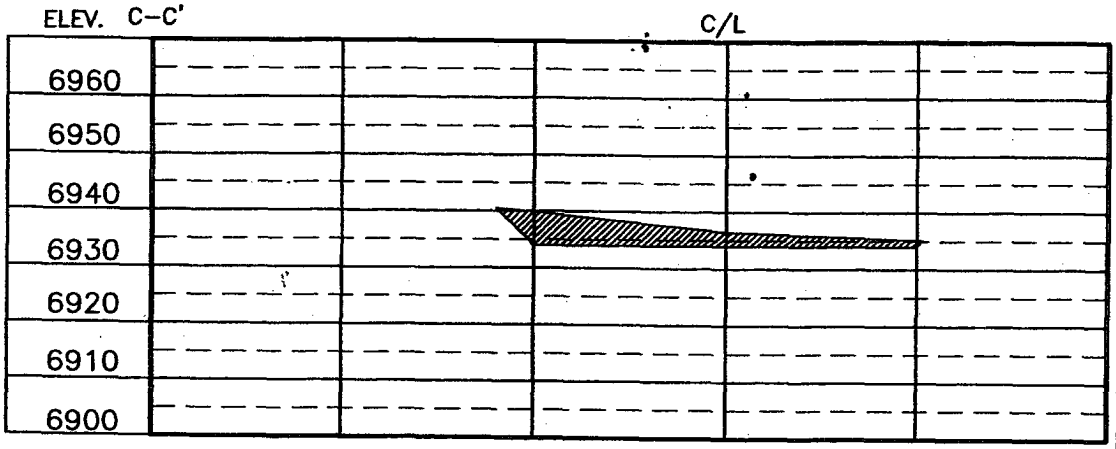
ELEV. A-A'



ELEV. B-B'



ELEV. C-C'



REF. DWG. MN412PL8 WELL PAD DIAGRAM

REVISION	DATE	REVISED BY:

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: MN412CP8 | DATE: 06/20/05 | ROW#: MN412

C102 Attachment

12) Dedicated Acres

~~102.14~~ acres fee
~~217.18~~ acres federal
~~319.32~~ total acres

N/2: (a/d/a Lots 1-7, SW/4NW/4 – federal, and that portion of H.E.S. 288, H.E.S. 291 and H.E.S. 292 located in the N/2 of Section 13)

Black Hills Gas Resources, Inc.
Many Canyons 30-04-13 11H
Surface: 590' FNL 1,280' FWL (NW/4 NW/4) – H.E.S. 292
BHL: ±1,000' FNL ±660' FEL (NE/4 NE/4) – Lot 1
Sec. 13 T30N R4W
Rio Arriba County, New Mexico
Surface Lease: Fee
Mineral Lease: NMNM13376 & ~~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 – 6,934'

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

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1,870'	Sandstone, shales & siltstones
Ojo Alamo	3,080'	Sandstone, shales & siltstones
Kirkland	3,300'	Sandstone, shales & siltstones
Fruitland Coal	3,440'	Sandstone, shales & siltstones
Pictured Cliffs	3,644'	Sandstone, shales & siltstones

TOTAL DEPTH	4,000'	TVD
	7,077.71'	MD (length of horizontal section)

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

Tertiary		
San Jose	surface	Gas
Nacimiento	1,870'	Gas
Ojo Alamo	3,080'	Gas
Fruitland Coal	3,440'	Gas
Pictured Cliffs	3,644'	Gas

HORIZONTAL DRILLING PROGRAM

A) Kick Off Point is estimated to be at ±3,648' TVD

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

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 Standard Cement containing 2% CaCl2 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)* **
3,648' (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 ft^3/sx (mixed at 15.6 lb/gal)

Production: Lite Standard Cement yield: = 1.59 ft^3/sx (mixed at 13.4 lb/gal)
50:50 POZ yield = 1.27 ft^3/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 con++-dition. 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'~~ 250'	Fresh water – M.W. 8.5 ppg, Vis 30-33
~~300'~~ 250'	-	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

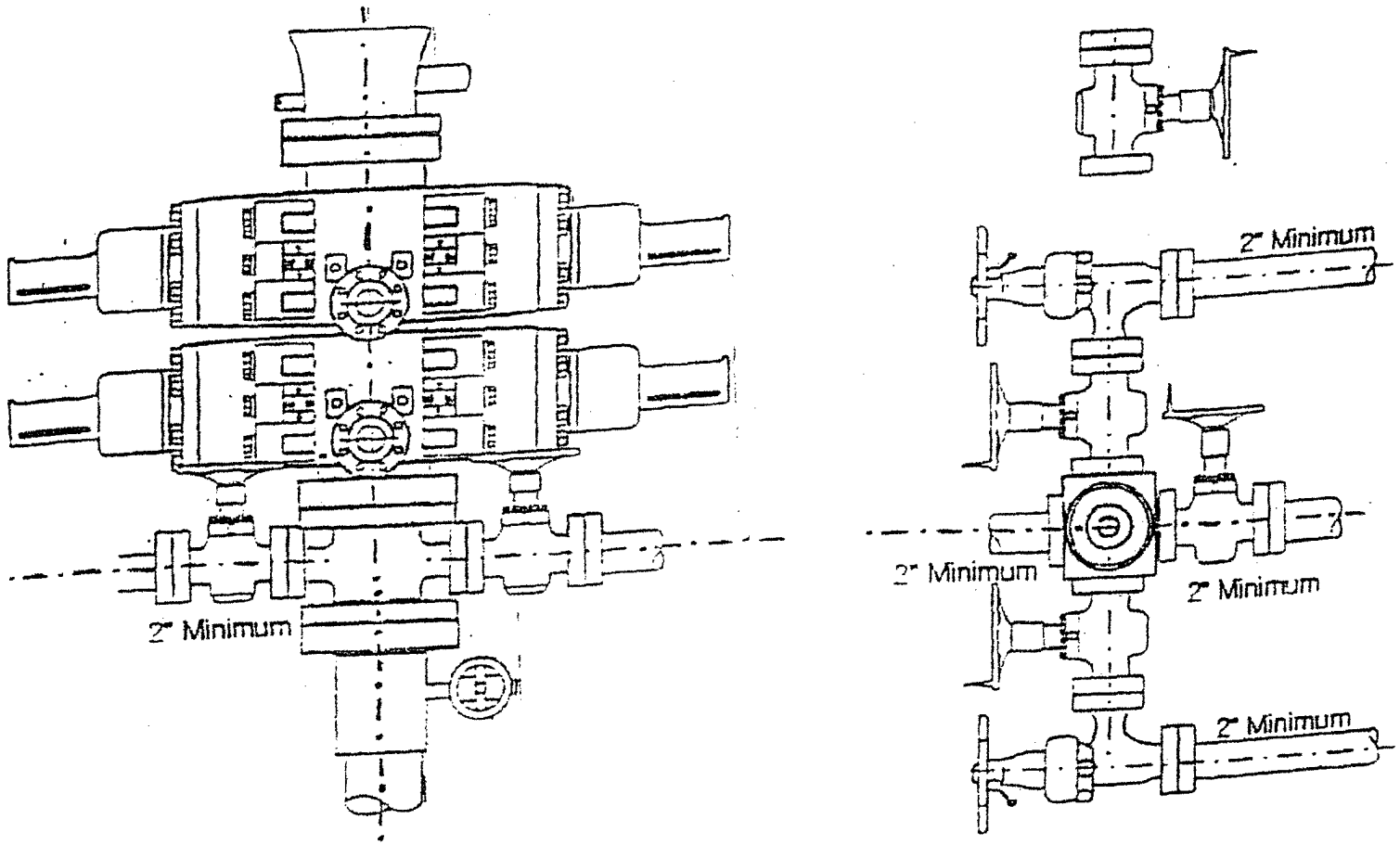
ABNORMAL CONDITIONS

A)	Pressures:	No abnormal conditions are anticipated Bottom hole pressure gradient – 0.31 psi/ft
B)	Temperatures:	No abnormal conditions are anticipated
C)	H_2S:	See H_2S Plan if H_2S is encountered.
D)	Estimated bottomhole pressure:	1,240 psi

2-M SYSTEM

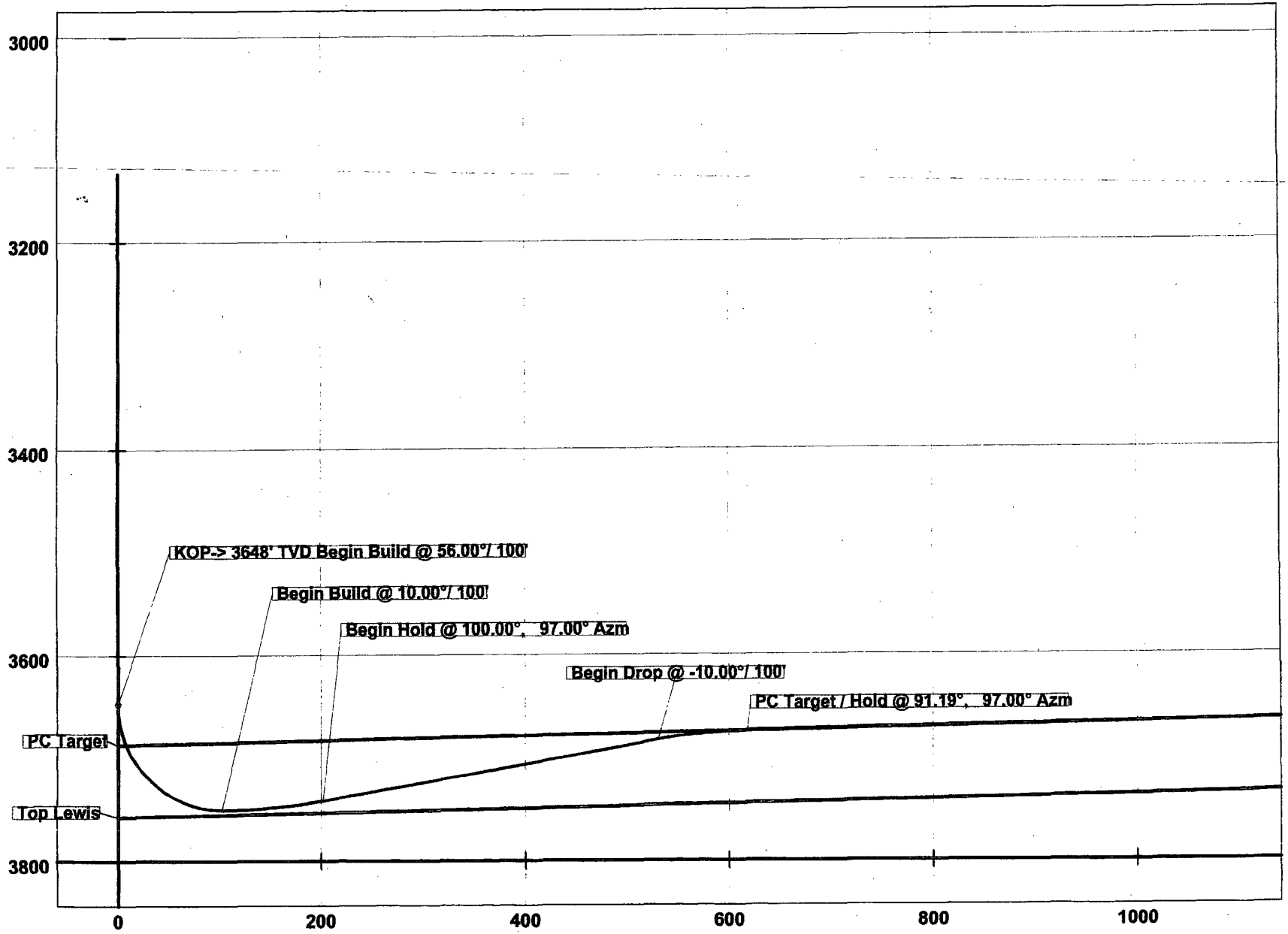
Black Hills Gas Resources, Inc.

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

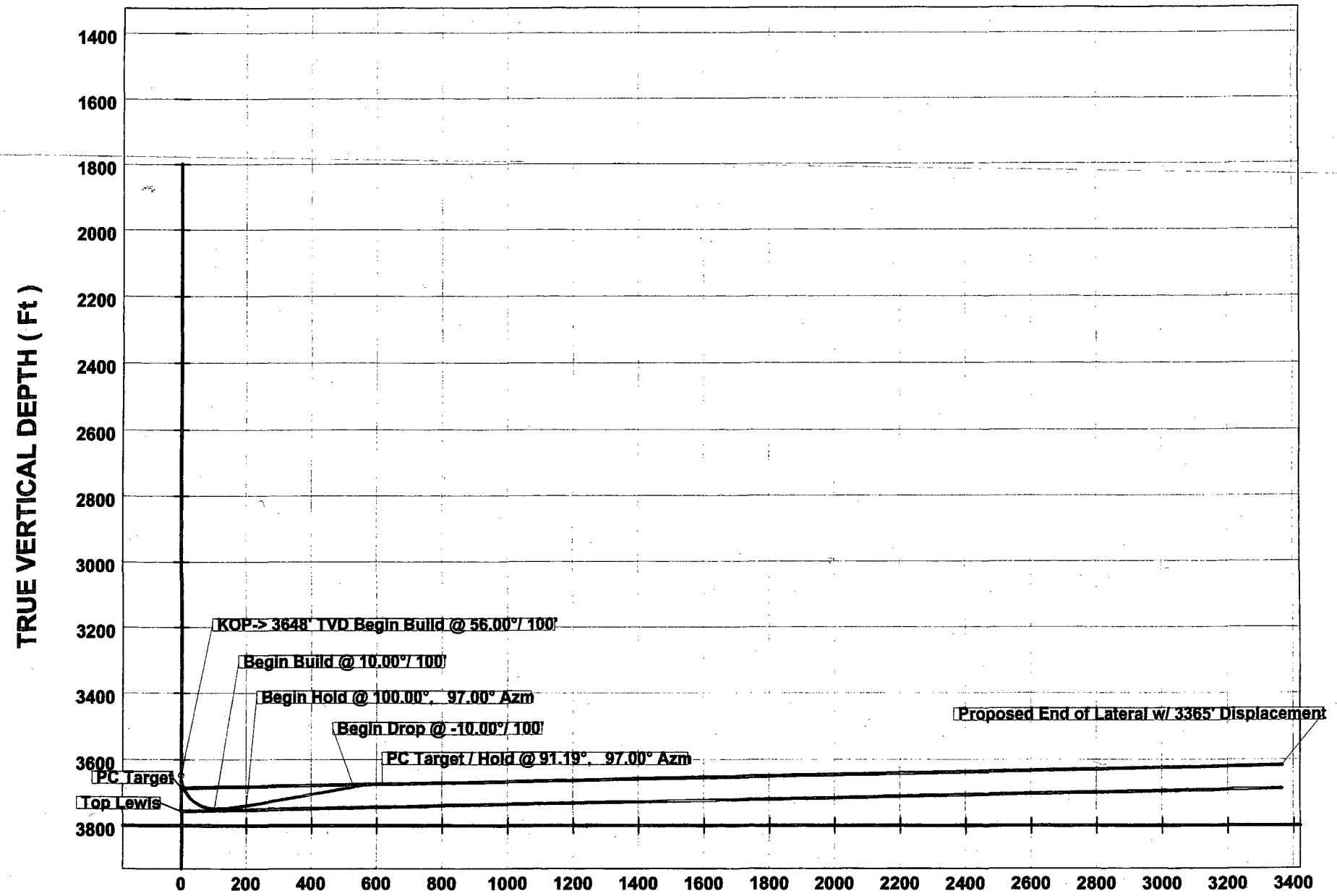


BOP PLAT

Job Number: 61xxx
Company: Black Hills E&P
Lease/Well: Many Canyons 30-04-13 #11H
Location: Rio Arriba Co., NM



Job Number: 61xxx
Company: Black Hills E&P
Lease/Well: Many Canyons 30-04-13 #11H
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 (H_2S).
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.
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 H_2S 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 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. H_2S 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. H_2S detection and monitoring equipment:

1. Two portable H_2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H_2S 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 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 H_2S 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 H_2S environment will use the closed chamber method of testing.