

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-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Black Hills Gas Resources, Inc. P.O. Box 249 Bloomfield, NM 87413		² OGRID Number 013925
		³ API Number 30 - 039 - 29971
⁴ Property Code 33770	⁵ Property Name Many Canyons 30-04-12	⁶ Well No. 44H
⁹ Proposed Pool 1 Pictured Cliffs		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	30-N	4-W		755'	South	885'	East	Rio Arriba

8 Proposed 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
M	12	30-N	4-W		±775'	South	±660'	West	Rio Arriba

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code Many Canyons	¹⁵ Ground Level Elevation 6,970' GR
¹⁶ Multiple No	¹⁷ Proposed Depth 4,000' TVD	¹⁸ Formation Pictured Cliffs	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater: 100' or more		Distance from nearest fresh water well: 1,000' or more		Distance from nearest surface water: 1,000' or more
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 15 mils thick Clay <input type="checkbox"/> Pit Volume: 17,811 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	8-5/8"	J-55 24# ST&C	0' - 250'	To surface (±175 sxs Standard Cement containing 2% CaCl ₂ and 0.25 lb/sx LCM)	Surface
7-7/8"	5-1/2"	J-55 15.5# LT&C New	0' - 4,000'	TD to surface (Lead: ±300 sxs Lite Standard Cement. Tail: 400 sxs 50:50 POZ containing 0.25 lb/sx LCM)	Surface
4-3/4"	2-7/8"	PH6 (Liner)	3,735' (KOP) - End of Lateral	None	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets 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 and Surface Use Plan.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature:

Printed name: Kathy L. Schneebeck *Kathy L. Schneebeck*

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

E-mail Address: kathys@banko1.com

Date: June 15, 2006

Phone: 303-820-4480

OIL CONSERVATION DIVISION

Approved by:

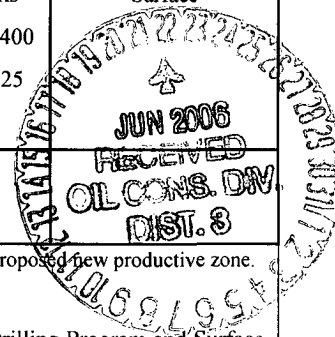
Title: *DEPUTY OIL & GAS INSPECTOR, DIST. 8*

Approval Date: JUN 22 2006

Expiration Date:

Conditions of Approval Attached ☐

*HOLD CLOSURE FOR Directional Survey
2. change in status to
Cinms Com #7*



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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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-29971	² Well Code 72400	³ Pool Name East Blanco / Pictured Cliffs
⁴ Property Code 35770	⁵ Property Name MANY CANYONS 30-04-12	⁶ Well Number 44H
⁷ GRID No. 013925	⁸ Operator Name BLACK HILLS GAS RESOURCES	⁹ Elevation 6970

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
P	12	30-N	4-W		755	SOUTH	885	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
M	12	30-N	4-W		775	SOUTH	660	WEST	RIO ARRIBA

¹² Dedicated Acres See Attached 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

<div>16</div>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Kathy L. Schneebeck</u> Signature</p> <p>Kathy L. Schneebeck Printed Name</p> <p>Permit Agent for Black Hills Title</p> <p>June 15, 2006 Date</p>
	<div>18 SURVEYOR CERTIFICATION</div> <p>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.</p> <p>MAY 14 2006 Date</p> <p><u>JOHN VUKONICH</u> Signature of Professional Surveyor</p> <p>NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 14831 Certificate Number</p>

Submit 3 Copies To Appropriate District Office
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State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other:		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Black Hills Gas Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 249 Bloomfield, NM 87413		7. Lease Name or Unit Agreement Name Many Canyons 30-04-12
4. Well Location Unit Letter: P : 755 feet from the South line and 885 feet from the East line Section: 12 Township 30N Range 4W NMPM County: Rio Arriba		8. Well Number No. 44H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,970'		9. OGRID Number 013925
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat East Blanco / Pictured Cliffs
Pit type: Drilling Pit Depth to Groundwater > 100 Distance from nearest fresh water well > 1000 Distance from nearest surface water > 200		
Pit Liner Thickness: 15 mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: **Pit Registration** ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

DRILLING PIT

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE *Daniel R. Manus* TITLE: Regulatory Technician DATE 6/21/2006

Type or print name: **Daniel R. Manus** E-mail address: **dmanus@bhep.com** Telephone No. **(505) 634-1111 ext. 28**

For State Use Only

APPROVED BY: *[Signature]* TITLE: DEPUTY OIL & GAS INSPECTOR, DIST. 3 DATE JUN 22 2006
Conditions of Approval (if any):

WELL PAD CROSS-SECTIONAL DIAGRAM

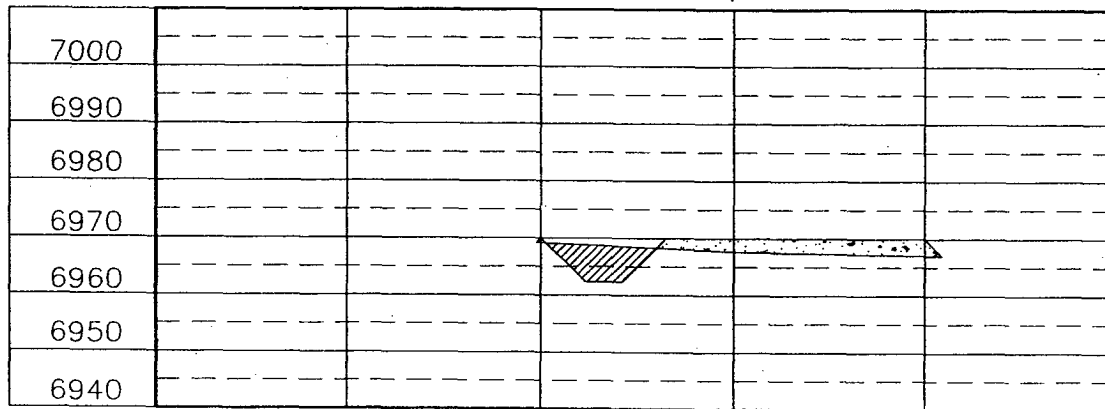
COMPANY: BLACK HILLS GAS RESOURCES
 LEASE: MANY CANYONS 30-04-12 NO. 44H
 FOOTAGE: 755 FSL, 885 FEL
 SEC.: 12, TWN: 30-N, RNG: 4-W, NMMPM
 ELEVATION: 6970'

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.

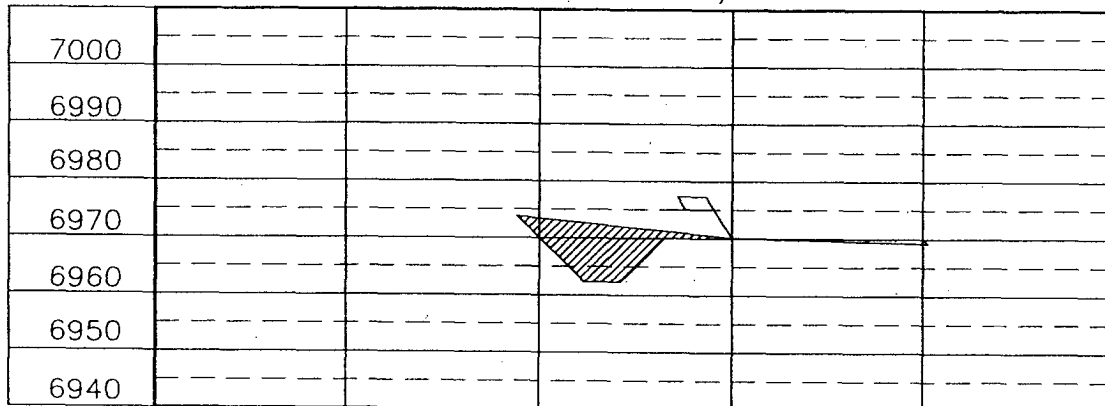
ELEV. A-A'

C/L



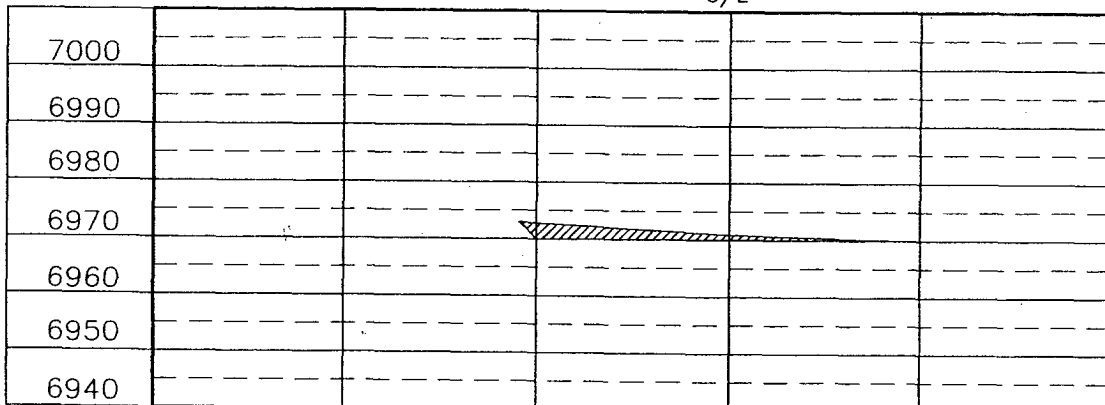
ELEV. B-B'

C/L



ELEV. C-C'

C/L



REF. DWG. MN423_PL8 WELL PAD DIAGRAM

REVISION: NAME CHANGE DATE: 10/11/05 BY: B.L.

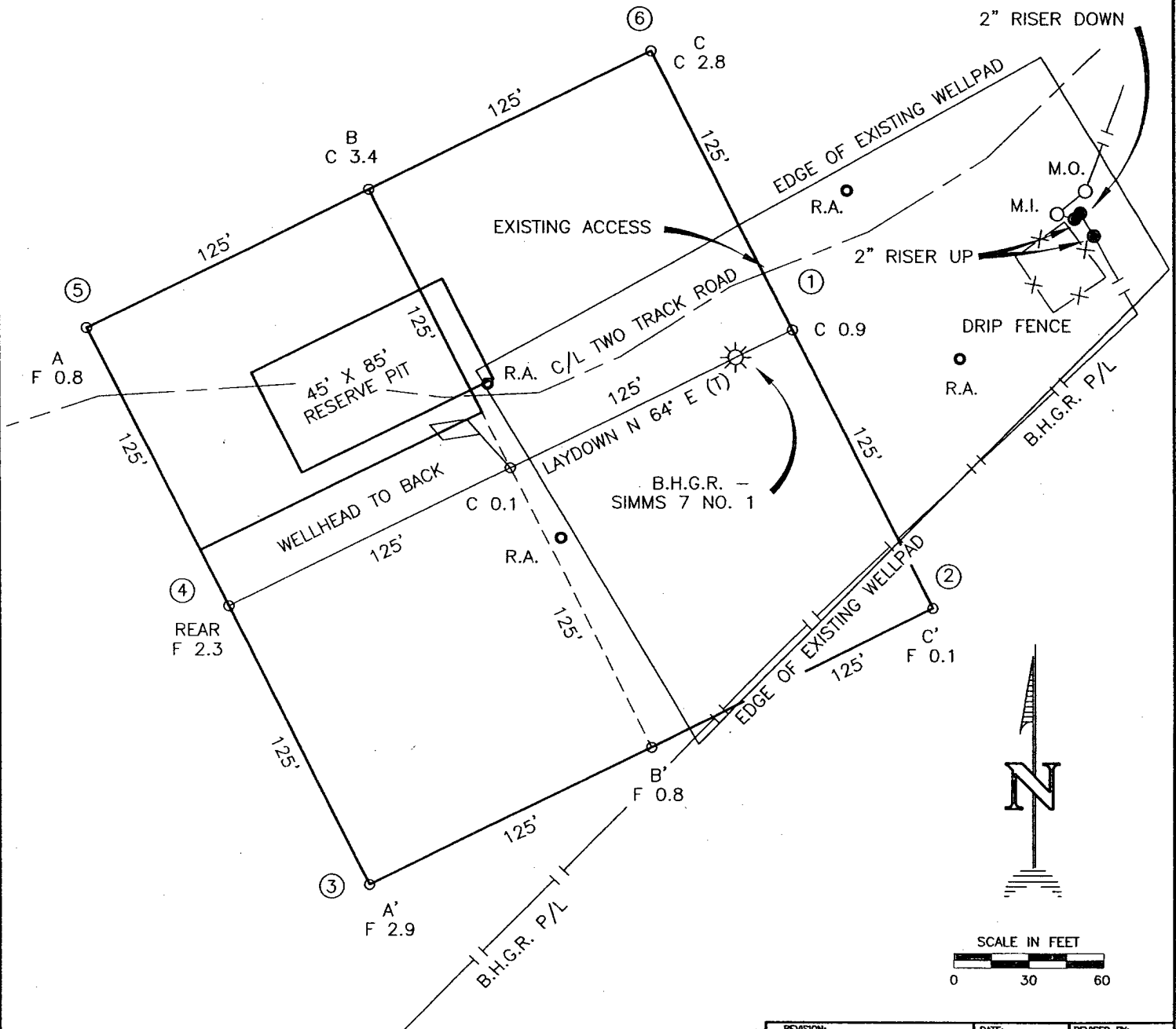
Daggett Enterprises, Inc.
 Surveying and Oil Field Services
 P. O. Box 15068 • Farmington, NM 87401
 Phone (505) 326-1772 • Fax (505) 326-6019
 NEW MEXICO L.S. 14831



DRAWN BY: G.V. ROWF: MN423
 CADDLE: MN423_CFB
 DATE: 06/21/05


WELL PAD DIAGRAM

COMPANY: BLACK HILLS GAS RESOURCES
 LEASE: MANY CANYONS 30-04-12 NO. 44H
 FOOTAGE: 755 FSL, 885 FEL
 SEC.: 12, TWN: 30-N, RNG: 4-W, NMPM
 ELEVATION: 6970'



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.

REVISION:	DATE:	REVISED BY:
NAME CHANGE	10/11/05	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: G.V.	CADFILE: MN423_PL8	
ROW#: MN423	DATE: 06/21/05	

Black Hills Gas Resources, Inc.
Many Canyons 30-04-12 44H
Surface: 755' FSL 885' FEL (SE/4 SE/4) – H.E.S. 291
BHL: ±775' FSL ±660' FWL (SW/4 SW/4) – H.E.S. 292
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 – 6,970'

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	3,295'	Sandstone, shales & siltstones
Fruitland Coal	3,450'	Sandstone, shales & siltstones
Pictured Cliffs	3,638'	Sandstone, shales & siltstones

TOTAL DEPTH	4,000'	TVD
	7,537.91'	MD (length of horizontal bore)

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	3,450'	Gas
Pictured Cliffs	3,638'	Gas

HORIZONTAL DRILLING PROGRAM

A) Kick Off Point is estimated to be at $\pm 3,735'$ TVD

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0' – 250' TVD	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' 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)* **
3,735' 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.

** 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
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

Many Canyons 30-04-12 44H

Surface: 755' FSL 885' FEL (SE 1/4 SE 1/4)
Sec. 12 T 30N R 4W
BHL: 775' FSL 660' FWL (SW/4 SW/4)
Rio Arriba County, New Mexico
NMSF79484A

SURFACE CASING AND CENTRALIZER DESIGN

Proposed Total Depth: 4,000 ' TVD
Proposed Depth of Surface Casing: 250 '
Estimated Pressure Gradient: 0.31 psi/ft
Bottom Hole Pressure at 4,000 '
 $0.31 \text{ psi/ft} \times 4,000 ' = 1,240 \text{ psi}$
Hydrostatic Head of gas/oil mud: 0.22 psi/ft
 $0.22 \text{ psi/ft} \times 4,000 ' = 880 \text{ psi}$

Maximum Design Surface Pressure

Bottom Hole Pressure - Hydrostatic Head =
 $(0.31 \text{ psi/ft} \times 4,000 ') - (0.22 \text{ psi/ft} \times 4,000 ') =$
 $1,240 \text{ psi} - 880 \text{ psi} = 360 \text{ psi}$

Casing Strengths 8-5/8" J-55 24# ST&C New

Wt.	Tension (lbs)	Burst (psi)	Collapse (psi)
24 #	244,000	2,950	1,370
32 #	372,000	3,930	2,530

Safety Factors

Tension (Dry): 1.8 Burst: 1.0 Collapse: 1.125

Tension (Dry): $24 \text{ # / ft} \times 250 ' = 6,000 \text{ #}$
Safety Factor = $\frac{244,000}{6,000} = 40.67$ ok

Burst: Safety Factor = $\frac{2,950 \text{ psi}}{360 \text{ psi}} = 8.19$ ok

Collapse: Hydrostatic = $0.052 \times 9.0 \text{ ppg} \times 250 ' = 117 \text{ psi}$
Safety Factor = $\frac{1,370 \text{ psi}}{117 \text{ psi}} = 11.71$ ok

Use 250 ' 8-5/8" J-55 24# ST&C New

Use 2,000 psi minimum casinghead and BOP's

Centralizers

5 Total

1 near surface at 40'

2 -1 each at middle of bottom joint, second joint, third joint

2 -1 each at every other joint $\pm 40 ' \text{ spacing}$

Total centralized $\pm 200 ' (50 ' - 250 ')$

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

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 .

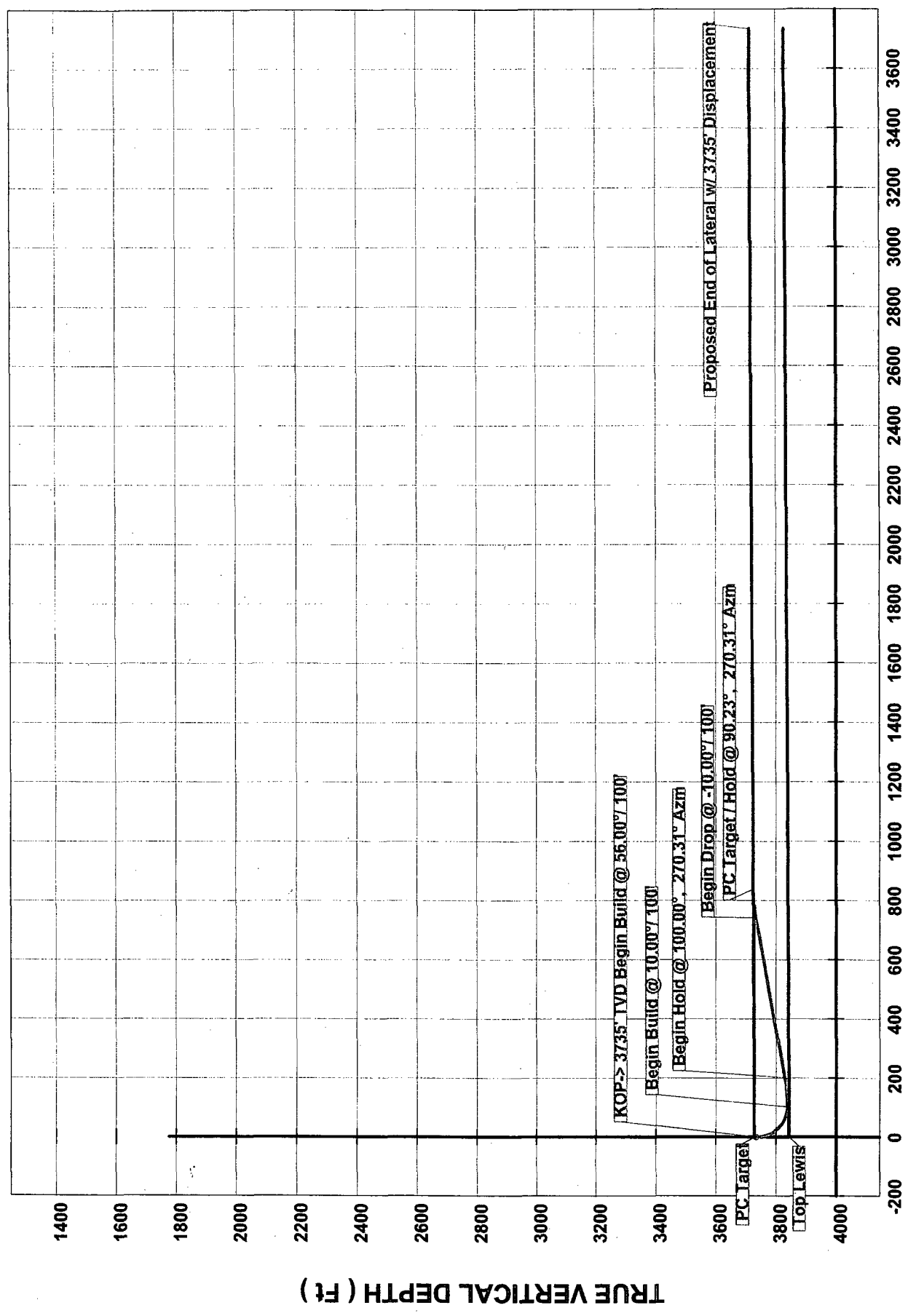
A. Well control equipment:

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.

Black Hills Gas Resources, Inc.

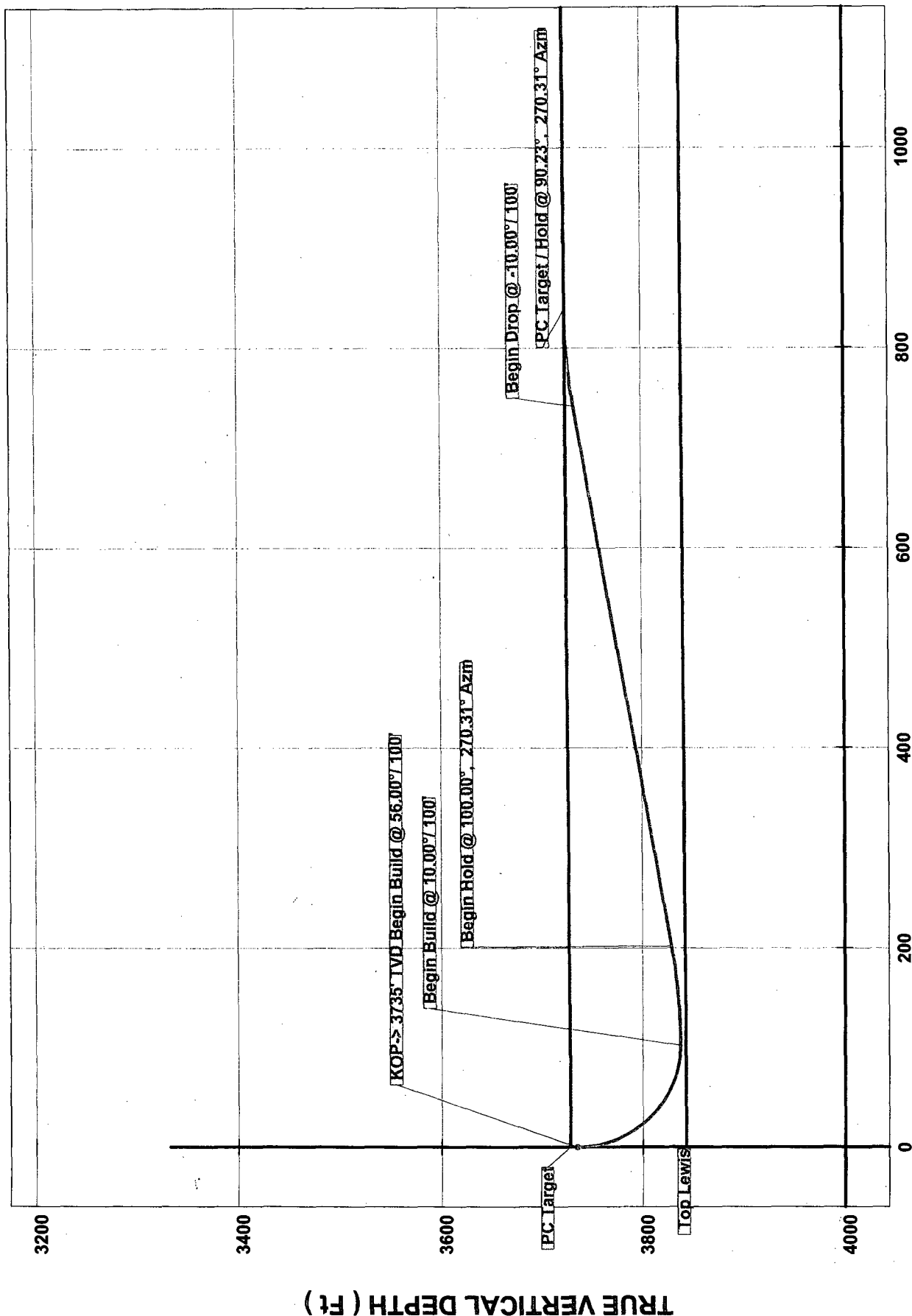
- B. Protective equipment for essential personnel:
 - 1. Mark II Surviveair 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.
- C. H₂S detection and monitoring equipment:
 - 1. Two portable H₂S monitors positioned on location for best coverage and response. 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.

Job Number: 61xxx
 Company: Black Hills E&P
 Lease/Well: Many Canyons 30-04-12 #44H
 Location: Rio Arriba Co., NM



VERTICAL SECTION (Ft) @ 270.31°

Job Number: 61xxx
 Company: Black Hills E&P
 Lease/Well: Many Canyons 30-04-12 #44H
 Location: Rio Arriba Co., NM



VERTICAL SECTION (Ft) @ 270.31°

2-M SYSTEM

Black Hills Gas Resources, Inc.

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

