Form 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

2007 MAY 22 AM 10 52

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED
070 FARMINGTON NM

5. Lease Serial No.
NMNM18316

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA/Agreement, Name and/or No.
NA

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
Many Canyons 29-04-11 #34H

2. Name of Operator
Black Hills Gas Resources, Inc. Contact: Lynn H. Benally

9. API Well No.
30-039-29981

3a. Address
3200 N 1st Street PO Box 249 Bloomfield, NM 87413

3b. Phone No. *(include area code)*
505-634-1111 ext 27

10. Field and Pool, or Exploratory Area
East Blanco/Pictured Cliffs

4. Location of Well *(Footage, Sec., T, R., M., or Survey Description)*
Surface: NE/SE 1,955' FSL 1,095' FEL Unit I
Directional Bottom Hole NW/SW ±1,600' FSL ± 760' FWL Unit L

11. County or Parish, State
Rio Arriba, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Change Drilling Angle
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. 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 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 initial APD was approved and dated March 30, 2007 and given API number 30-039-29981. After evaluation from recent drilling, BHGR is submitting this Sundry and an updated drilling plan to change the drilling angle to 85 degrees, included is the updated Nevis Drilling Plan.

The surface and bottom hole footages will remain the same, therfore no update to the C-102 is needed.

Surface disturbance will not change from the initial APD, therefore the Surface Use Plan will not be updated or modified.

BHGR is also requesting changing the well name from the Many Canyons 29-04-11 #34H to the Many Canyons 29-04-11 #131

RECEIVED
MAY 2007
OIL CONS. DIV. DIST. 3

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Lynn H. Benally

Title Regulatory Specialist

Signature

Date 5/21/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *(Signature)* Jy L Salyers

Name *(Printed/Typed)* Troy L Salyers

Title PE

Office FFO

Date 5/29/07

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

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.

(Continued on next page)

NMOCD

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3 and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c); and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.) requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0135), Bureau Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington, D.C. 20240.

Black Hills Gas Resources

Black Hills Gas Resources (BHGR)
Many Canyons 29-04-11 #~~34H~~ 131
Surface Location: NE/SE 1,955' FSL 1,095' FEL Unit I
Bottom Hole Location: NW/SW ±1,600' FSL ± 760' FWL Unit L
Sec. 11 T29N R4W
Rio Arriba County, New Mexico
Federal Lease NMNM18316

DRILLING PROGRAM
(Per Rule 320)

The Application for Permit to Drill (APD) was initiated under the NOS process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. This APD process includes an onsite meeting as determined by Bureau of Land Management (BLM) and Carson National Forest Service, at which time the specific concerns of Black Hills Gas Resources (BHGR) were discussed.

The APD for this well was permitted and approved on March 30, 2007. This new drilling plan addresses changing the drilling angle of the un-drilled well to 85° degrees.

SURFACE FORMATION – San Jose

GROUND ELEVATION – 7,049'

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

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	2,360'	Sandstone, shales & siltstones
Ojo Alamo	3,435'	Sandstone, shales & siltstones
Kirtland	3,450'	Sandstone, shales & siltstones
Fruitland Coal	3,640'	Sandstone, shales & siltstones
Pictured Cliffs	3,732'	Sandstone, shales & siltstones
TOTAL DEPTH	**3,800'**	**TVD**

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

Tertiary		
San Jose	surface	Gas
Nacimiento	2,360'	Gas
Ojo Alamo	3,435'	Gas
Kirtland	3,450'	Gas
Fruitland Coal	3,640'	Gas
Pictured Cliffs	3,732'	Gas

HORIZONTAL DRILLING PROGRAM
Kick Off Point is estimated to be ± 2878' TVD

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0-250' TVD	12-¼"	8 ⅝"	J-55 24# ST&C New	To surface (± 175 sxs Standard cement containing 2% $CaCl_2$ and 0.25lb/sx LCM) **
0-3702 TVD	8-¾"	7 "	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) * **
2878' TVD (KOP)- End of Lateral Bore	6-⅛"	4-½"	J-55 15.5# LT&C New	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 conditions. 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'	-	250'	Fresh water – M.W. 8.5 ppg, Vis 30-33
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 well site.

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 attached H_2S plan in event H_2S is encountered.
D)	Estimated bottomhole pressure:	1,178 psi

ANTICIPATED START DATE

June 4, 2007

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.

1724-B Townhurst Dr, Houston, Tx 77043
(713) 827-8302
www.nevisenergy.com

Job Number: 71xxx
Company: Black Hills Gas Resources
Lease/Well: Many Canyons 29-04-11 ~~#134~~ 131
Location: Rio Arriba County, NM
Rig Name: Patt 744
RKB: 13'
G.L. or M.S.L.: 7049'

State/Country: NM/USA
Declination: □
Grid: □
File name: Z:\BLACKH~1\NEWWEL~1\MC29-0~2\29411134.SVY
Date/Time: 21-May-07 / 11:42
Curve Name: MC 29-04-11 #134 Plan 5-21-07

MC 29-04-11 #134 Plan 5-21-07

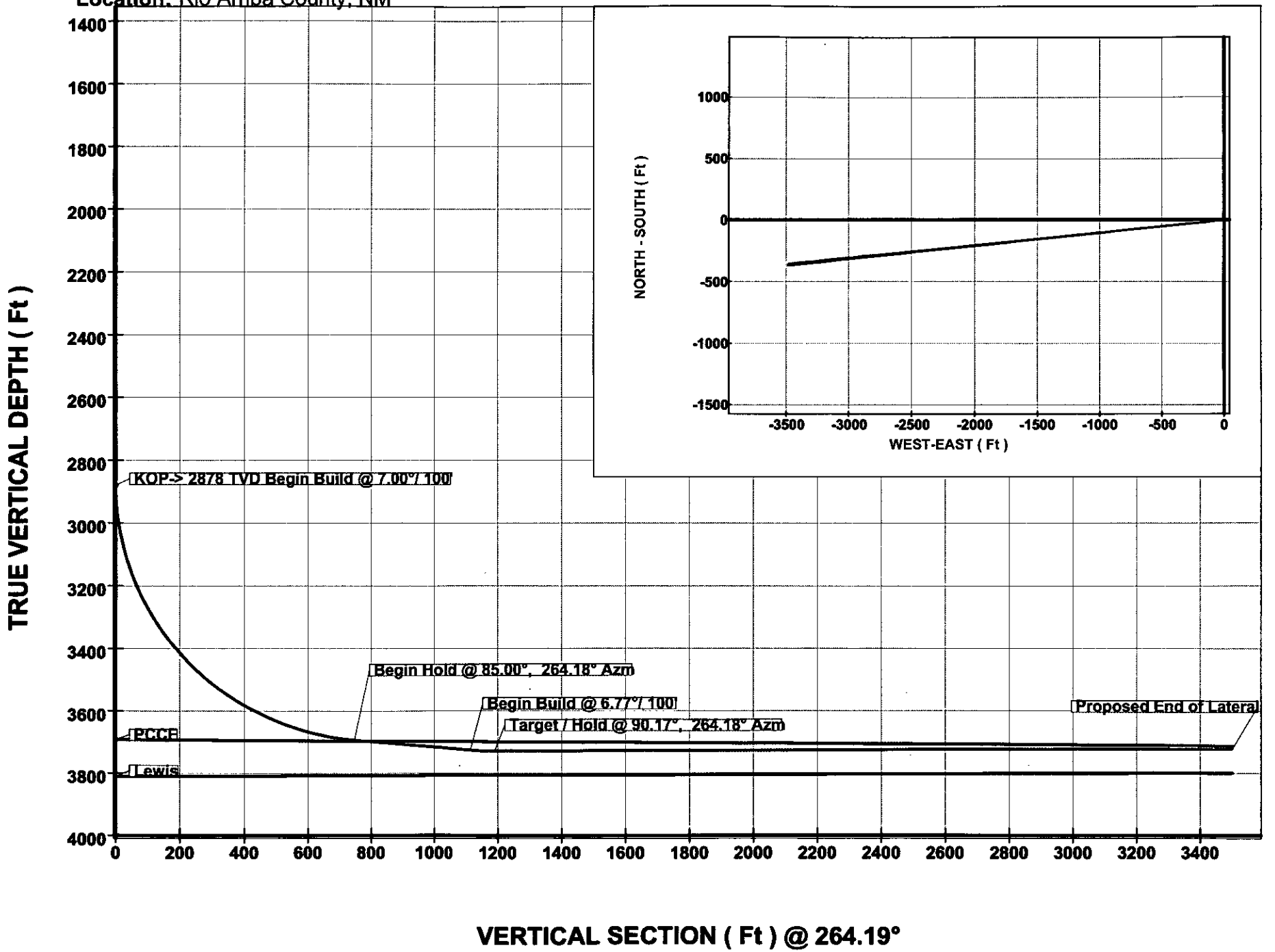
WINSERVE PROPOSAL REPORT
Minimum Curvature Method
Vertical Section Plane 264.19
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
KOP-> 2878 TVD Begin Build @ 7.00°/ 100'									
2878.00	.00	264.18	2878.00	.00	.00	.00	.00	.00	.00
2908.00	2.10	264.18	2907.99	.55	-.06	-.55	.55	264.18	7.00
2938.00	4.20	264.18	2937.95	2.20	-.22	-2.19	2.20	264.18	7.00
2968.00	6.30	264.18	2967.82	4.95	-.50	-4.92	4.95	264.18	7.00
2998.00	8.40	264.18	2997.57	8.78	-.89	-8.74	8.78	264.18	7.00
3028.00	10.51	264.18	3027.16	13.71	-1.39	-13.64	13.71	264.18	7.00
3058.00	12.61	264.18	3056.55	19.72	-2.00	-19.62	19.72	264.18	7.00
3088.00	14.71	264.18	3085.70	26.80	-2.72	-26.67	26.80	264.18	7.00
3118.00	16.81	264.18	3114.57	34.95	-3.54	-34.77	34.95	264.18	7.00
3148.00	18.91	264.18	3143.13	44.15	-4.48	-43.92	44.15	264.18	7.00
3178.00	21.01	264.18	3171.32	54.39	-5.51	-54.11	54.39	264.18	7.00
3208.00	23.11	264.18	3199.12	65.66	-6.66	-65.32	65.66	264.18	7.00
3238.00	25.21	264.18	3226.49	77.94	-7.90	-77.54	77.94	264.18	7.00
3268.00	27.31	264.18	3253.40	91.21	-9.25	-90.74	91.21	264.18	7.00
3298.00	29.41	264.18	3279.79	105.46	-10.69	-104.92	105.46	264.18	7.00
3328.00	31.52	264.18	3305.65	120.67	-12.23	-120.05	120.67	264.18	7.00
3358.00	33.62	264.18	3330.93	136.82	-13.87	-136.11	136.82	264.18	7.00
3388.00	35.72	264.18	3355.60	153.88	-15.60	-153.09	153.88	264.18	7.00
3418.00	37.82	264.18	3379.63	171.84	-17.42	-170.95	171.84	264.18	7.00
3448.00	39.92	264.18	3402.99	190.66	-19.33	-189.68	190.66	264.18	7.00
3478.00	42.02	264.18	3425.64	210.33	-21.32	-209.25	210.33	264.18	7.00
3508.00	44.12	264.18	3447.56	230.82	-23.40	-229.63	230.82	264.18	7.00
3538.00	46.22	264.18	3468.70	252.09	-25.55	-250.79	252.09	264.18	7.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
3568.00	48.32	264.18	3489.06	274.13	-27.79	-272.72	274.13	264.18	7.00
3598.00	50.42	264.18	3508.59	296.90	-30.09	-295.37	296.90	264.18	7.00
3628.00	52.53	264.18	3527.27	320.37	-32.47	-318.72	320.37	264.18	7.00
3658.00	54.63	264.18	3545.09	344.50	-34.92	-342.73	344.50	264.18	7.00
3688.00	56.73	264.18	3562.00	369.28	-37.43	-367.38	369.28	264.18	7.00
3718.00	58.83	264.18	3578.00	394.66	-40.00	-392.63	394.66	264.18	7.00
3748.00	60.93	264.18	3593.05	420.61	-42.63	-418.44	420.61	264.18	7.00
3778.00	63.03	264.18	3607.14	447.09	-45.32	-444.78	447.09	264.18	7.00
3808.00	65.13	264.18	3620.26	474.07	-48.05	-471.63	474.07	264.18	7.00
3838.00	67.23	264.18	3632.37	501.51	-50.83	-498.93	501.51	264.18	7.00
3868.00	69.33	264.18	3643.47	529.38	-53.66	-526.65	529.38	264.18	7.00
3898.00	71.43	264.18	3653.54	557.64	-56.52	-554.77	557.64	264.18	7.00
3928.00	73.54	264.18	3662.57	586.25	-59.42	-583.23	586.25	264.18	7.00
3958.00	75.64	264.18	3670.54	615.17	-62.35	-612.00	615.17	264.18	7.00
3988.00	77.74	264.18	3677.45	644.36	-65.31	-641.04	644.36	264.18	7.00
4018.00	79.84	264.18	3683.28	673.78	-68.29	-670.31	673.78	264.18	7.00
4048.00	81.94	264.18	3688.03	703.40	-71.30	-699.78	703.40	264.18	7.00
4078.00	84.04	264.18	3691.69	733.18	-74.32	-729.40	733.18	264.18	7.00
Begin Hold @ 85.00°, 264.18° Azm									
4091.70	85.00	264.18	3693.00	746.81	-75.70	-742.96	746.81	264.18	7.00
4191.70	85.00	264.18	3701.72	846.43	-85.79	-842.07	846.43	264.18	.00
4291.70	85.00	264.18	3710.43	946.05	-95.89	-941.18	946.05	264.18	.00
4391.70	85.00	264.18	3719.15	1045.67	-105.99	-1040.28	1045.67	264.18	.00
Begin Build @ 6.77°/ 100'									
4461.70	85.00	264.18	3725.25	1115.41	-113.06	-1109.66	1115.41	264.18	.00
4491.70	87.03	264.18	3727.33	1145.33	-116.09	-1139.43	1145.33	264.18	6.77
4521.70	89.06	264.18	3728.36	1175.31	-119.13	-1169.26	1175.31	264.18	6.77
Target / Hold @ 90.17°, 264.18° Azm									
4538.07	90.17	264.18	3728.47	1191.68	-120.79	-1185.54	1191.68	264.18	6.77
4638.07	90.17	264.18	3728.17	1291.68	-130.92	-1285.03	1291.68	264.18	.00
4738.07	90.17	264.18	3727.87	1391.68	-141.06	-1384.51	1391.68	264.18	.00
4838.07	90.17	264.18	3727.58	1491.68	-151.20	-1484.00	1491.68	264.18	.00
4938.07	90.17	264.18	3727.28	1591.68	-161.33	-1583.48	1591.68	264.18	.00
5038.07	90.17	264.18	3726.98	1691.68	-171.47	-1682.97	1691.68	264.18	.00
5138.07	90.17	264.18	3726.69	1791.68	-181.60	-1782.45	1791.68	264.18	.00
5238.07	90.17	264.18	3726.39	1891.68	-191.74	-1881.93	1891.68	264.18	.00
5338.07	90.17	264.18	3726.09	1991.68	-201.88	-1981.42	1991.68	264.18	.00
5438.07	90.17	264.18	3725.79	2091.68	-212.01	-2080.90	2091.68	264.18	.00
5538.07	90.17	264.18	3725.50	2191.68	-222.15	-2180.39	2191.68	264.18	.00
5638.07	90.17	264.18	3725.20	2291.68	-232.28	-2279.87	2291.68	264.18	.00
5738.07	90.17	264.18	3724.90	2391.67	-242.42	-2379.36	2391.67	264.18	.00
5838.07	90.17	264.18	3724.61	2491.67	-252.55	-2478.84	2491.67	264.18	.00
5938.07	90.17	264.18	3724.31	2591.67	-262.69	-2578.33	2591.67	264.18	.00
6038.07	90.17	264.18	3724.01	2691.67	-272.83	-2677.81	2691.67	264.18	.00
6138.07	90.17	264.18	3723.72	2791.67	-282.96	-2777.30	2791.67	264.18	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
6238.07	90.17	264.18	3723.42	2891.67	-293.10	-2876.78	2891.67	264.18	.00
6338.07	90.17	264.18	3723.12	2991.67	-303.23	-2976.26	2991.67	264.18	.00
6438.07	90.17	264.18	3722.83	3091.67	-313.37	-3075.75	3091.67	264.18	.00
6538.07	90.17	264.18	3722.53	3191.67	-323.50	-3175.23	3191.67	264.18	.00
6638.07	90.17	264.18	3722.23	3291.67	-333.64	-3274.72	3291.67	264.18	.00
6738.07	90.17	264.18	3721.94	3391.67	-343.78	-3374.21	3391.67	264.18	.00
Proposed End of Lateral									
6848.83	90.17	264.19	3721.61	3502.43	-355.00	-3484.40	3502.43	264.18	.00

Job Number: 71xxx
Company: Black Hills Gas Resources
Lease/Well: Many Canyons 29-04-11 #~~134~~ 131
Location: Rio Arriba County, NM



Many Canyons 29-04-11 ~~#34H~~ #31
1,955' FSL 1095' FEL (NE /4 SE /4) Surface Location
1600' FSL 760' FEL (NE /4 SE /4) Bottom Of Directional Bore
Sec. 11 T 29 R 4
Rio Arriba County, New Mexico
Federal Lease NMNM18316

SURFACE CASING AND CENTRALIZER DESIGN

Proposed Total Depth:			3,800 '
Proposed Depth of Surface Casing:			250 '
Estimated Pressure Gradient:			0.31 psi/ft
Bottom Hole Pressure at			3,800 '
0.31 psi/ft	x 3,800 '	=	1,178 psi
Hydrostatic Head of gas/oil mud:			0.22 psi/ft
0.22 psi/ft	x 3,800 '	=	836 psi

Maximum Design Surface Pressure

Bottom Hole Pressure	–	Hydrostatic Head	=
(0.31 psi/ft x 3,800 ')	–	(0.22 psi/ft x 3,800 ')	=
1,178 psi	–	836 psi	= 342 psi

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

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 # / ft x 250 ' = 6,000 #

Safety Factor = 244,000 / 6,000 = 40.67 ok

Burst: Safety Factor = 2,950 psi / 342 psi = 8.63 ok

Collapse: Hydrostatic = 0.052 x 9.0 ppg x 250 ' = 117 psi

Safety Factor = 1,370 psi / 117 psi = 11.71 ok

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

Use 2,000 psi minimum casinghead and BOP's but will test to 1,000 psi

Centralizers
5 Total
1 near surface at 40'
2 -1 each at middle of bottom joint, second joint
2 -1 each at every other joint 40' spacing

Total centralized ± 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.