

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. 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

AS DRILLED LOWER LATERAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

OIL CONS. DIV.

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

RCUD JUL 28 '08

☒ AMENDED REPORT

¹ API Number 30-039-30231	² Pool Code 77440	³ Pool Name Gobernador Pictured Cliffs	DIST. 3
⁴ Property Code 301949	⁵ Property Name Many Canyons 29-04-28		⁶ Well Number 121
⁷ OGRID No. 013925	⁸ Operator Name Black Hills Gas Resources, Inc.		⁹ Elevation 7472' GL

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
E	28	29-N	4-W		1895'	NORTH	670'	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
P	28	29-N	4-W		718'	SOUTH	749'	EAST	Rio Arriba

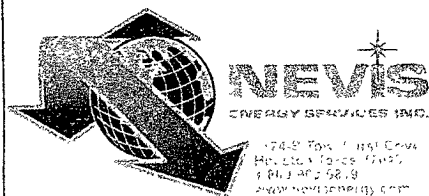
¹² Dedicated Acres 320 - S/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NGL-5827
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

5145.66' ©

	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. Signature: <u>Mike Pippin</u> Date: <u>7/24/08</u> Mike Pippin Printed Name
	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. 6/6/06 Date of Survey Signature and Seal of Professional Surveyor Roy Rush 8894 Certificate Number

5160.11' (C)



Job Number: 0810330
Company: Black Hills Gas Resources
Lease/Well: Many Canyons 29-04-28 #121
Location: Rio Arriba County, NM
Rig Name:
RKB: 13'
G.L. or M.S.L.: 7472'

State/Country: NM/USA
Declination: 10.01822
Grid: 53.63
File name: C:\CURREN-1\081033-1\29042821.SVY
Date/Time: 23-Jul-08 / 11:41
Curve Name: MC 29-04-28 #121 lower lat surveys

API # 30-039-30231

MC 29-04-28 #121 lower lat surveys

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 125.39
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Well

MC 29-4-28 #121
LOWER LATERAL
E
SURF: 1895 FN 670 FW
2653 3741
4548 FN 4411 FW
-5266 -5160
BH: 718' FS 749' FE

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Surface									
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
First Nevis MWD Survey									
246.00	.70	39.90	245.99	.12	1.15	.96	1.50	39.90	.28
433.00	1.00	34.50	432.97	.18	3.37	2.62	4.27	37.84	.17
620.00	1.00	43.00	619.94	.37	5.91	4.66	7.53	38.23	.08
807.00	.50	33.90	806.93	.57	7.78	6.23	9.97	38.66	.27
995.00	.40	27.60	994.92	.46	9.05	6.99	11.43	37.69	.06
1183.00	.50	16.30	1182.92	.10	10.41	7.52	12.85	35.84	.07
1371.00	.20	354.30	1370.91	-.38	11.53	7.72	13.87	33.81	.17
1559.00	.20	277.30	1558.91	-.89	11.90	7.36	13.99	31.75	.13
1748.00	.20	25.30	1747.91	-1.24	12.24	7.18	14.18	30.39	.17
1934.00	.10	36.50	1933.91	-1.29	12.66	7.41	14.67	30.34	.06
2123.00	.20	101.30	2122.91	-.99	12.73	7.83	14.94	31.61	.10
2306.00	.10	121.60	2305.91	-.54	12.58	8.28	15.06	33.35	.06
2487.00	.10	133.20	2486.91	-.22	12.39	8.53	15.04	34.55	.01
2667.00	.20	298.10	2666.91	-.38	12.43	8.37	14.99	33.95	.17
2849.00	1.10	269.40	2848.90	-2.11	12.56	6.34	14.07	26.78	.51
3029.00	.60	306.30	3028.88	-4.45	13.10	3.85	13.66	16.39	.40
3073.00	.90	307.10	3072.87	-5.02	13.45	3.39	13.87	14.16	.68
3099.00	.60	304.80	3098.87	-5.36	13.65	3.12	14.00	12.87	1.16
3129.00	.10	159.30	3128.87	-5.50	13.71	3.00	14.04	12.33	2.28
3159.00	2.80	143.20	3158.86	-4.78	13.10	3.45	13.55	14.74	9.01

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3189.00	4.60	143.40	3188.79	-2.94	11.55	4.60	12.43	21.73	6.00
3219.00	7.10	140.30	3218.64	.00	9.16	6.50	11.23	35.39	8.40
3249.00	10.10	142.80	3248.29	4.30	5.63	9.28	10.86	58.74	10.08
3278.00	12.20	144.20	3276.75	9.63	1.12	12.61	12.66	84.91	7.30
3309.00	14.20	147.10	3306.93	16.26	-4.73	16.59	17.25	105.90	6.79
3339.00	15.70	149.10	3335.91	23.40	-11.30	20.68	23.56	118.66	5.29
3368.00	17.70	150.80	3363.69	30.97	-18.52	24.84	30.98	126.70	7.10
3400.00	19.90	152.50	3393.98	40.22	-27.59	29.73	40.56	132.87	7.08
3431.00	21.60	153.90	3422.96	49.93	-37.40	34.68	51.00	137.16	5.71
3463.00	23.10	152.40	3452.56	60.70	-48.25	40.18	62.79	140.22	5.01
3495.00	24.80	150.80	3481.80	72.35	-59.67	46.36	75.57	142.16	5.69
3526.00	25.80	154.80	3509.83	84.10	-71.45	52.40	88.61	143.74	6.39
3555.00	27.40	158.40	3535.76	95.20	-83.37	57.55	101.30	145.38	7.83
3587.00	29.70	159.30	3563.87	107.95	-97.63	63.06	116.23	147.14	7.31
3618.00	31.90	160.10	3590.50	121.06	-112.52	68.57	131.77	148.64	7.22
3650.00	33.20	160.10	3617.47	135.21	-128.71	74.43	148.68	149.96	4.06
3682.00	34.50	158.40	3644.05	150.02	-145.38	80.74	166.29	150.95	5.03
3713.00	36.90	156.90	3669.22	165.32	-162.10	87.63	184.27	151.61	8.24
3745.00	38.80	156.20	3694.49	182.12	-180.11	95.44	203.84	152.08	6.09
3776.00	40.20	157.30	3718.41	198.95	-198.23	103.22	223.50	152.49	5.05
3807.00	40.70	159.40	3742.00	215.83	-216.92	110.64	243.51	152.98	4.68
3838.00	41.80	160.30	3765.30	232.68	-236.11	117.68	263.81	153.51	4.03
3870.00	43.10	160.90	3788.92	250.32	-256.48	124.85	285.26	154.04	4.26
3901.00	45.20	160.10	3811.16	267.99	-276.83	132.06	306.72	154.50	7.01
3932.00	47.00	158.80	3832.65	286.49	-297.75	139.91	328.98	154.83	6.55
3963.00	48.90	158.40	3853.41	305.75	-319.18	148.31	351.95	155.08	6.20
3995.00	51.00	156.40	3874.01	326.52	-341.79	157.73	376.42	155.23	8.12
4026.00	53.50	155.50	3892.98	347.63	-364.17	167.72	400.93	155.27	8.38
4057.00	55.90	154.80	3910.90	369.59	-387.12	178.35	426.23	155.26	7.96
4088.00	58.30	153.40	3927.73	392.42	-410.53	189.72	452.25	155.20	8.62
4119.00	59.30	153.10	3943.79	415.86	-434.21	201.66	478.75	155.09	3.33
4151.00	59.60	152.80	3960.06	440.29	-458.75	214.19	506.29	154.97	1.24
4182.00	59.70	152.10	3975.72	464.12	-482.47	226.56	533.02	154.85	1.98
4213.00	59.50	153.60	3991.41	487.84	-506.26	238.76	559.74	154.75	4.22
4244.00	59.50	154.80	4007.14	511.25	-530.31	250.39	586.45	154.73	3.34
4275.00	59.60	154.90	4022.85	534.51	-554.50	261.75	613.17	154.73	.43
4307.00	59.50	153.90	4039.07	558.64	-579.38	273.67	640.76	154.72	2.71
4338.00	59.50	153.80	4054.80	582.12	-603.35	285.44	667.46	154.68	.28
4370.00	59.30	153.40	4071.09	606.39	-628.02	297.68	695.00	154.64	1.24
4402.00	59.30	153.10	4087.43	630.72	-652.59	310.07	722.51	154.59	.81
4433.00	59.80	153.40	4103.14	654.35	-676.46	322.10	749.23	154.54	1.82
4465.00	59.90	152.90	4119.21	678.83	-701.15	334.60	776.89	154.49	1.39
4496.00	59.80	153.10	4134.78	702.59	-725.03	346.76	803.69	154.44	.64
4528.00	59.30	154.20	4151.00	726.88	-749.75	359.01	831.27	154.41	3.35
4559.00	59.10	154.20	4166.87	750.22	-773.72	370.60	857.90	154.41	.65

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4590.00	59.00	154.80	4182.82	773.44	-797.72	382.04	884.48	154.41	1.69
4622.00	59.50	154.40	4199.18	797.45	-822.56	393.84	911.98	154.41	1.90
4653.00	59.70	154.50	4214.87	820.82	-846.68	405.37	938.72	154.42	.70
4684.00	61.20	154.50	4230.15	844.38	-871.02	416.98	965.69	154.42	4.84
4716.00	63.20	155.70	4245.08	868.96	-896.70	428.90	993.99	154.44	7.08
4747.00	65.70	156.30	4258.45	893.03	-922.25	440.27	1021.95	154.48	8.25
4778.00	67.70	156.80	4270.71	917.39	-948.37	451.60	1050.40	154.54	6.62
4809.00	69.60	156.40	4281.99	942.09	-974.86	463.07	1079.25	154.59	6.25
4842.00	71.10	156.00	4293.09	968.78	-1003.30	475.61	1110.32	154.64	4.69
4873.00	72.10	156.70	4302.88	994.00	-1030.24	487.41	1139.72	154.68	3.87
4904.00	73.80	156.30	4311.97	1019.37	-1057.42	499.22	1169.34	154.73	5.62
4936.00	75.80	156.00	4320.36	1045.91	-1085.66	511.71	1200.21	154.76	6.32
4967.00	76.90	155.70	4327.67	1071.88	-1113.15	524.04	1230.33	154.79	3.67
4998.00	78.60	155.00	4334.25	1098.12	-1140.68	536.67	1260.62	154.80	5.91
5030.00	79.70	154.10	4340.27	1125.57	-1169.06	550.18	1292.05	154.80	4.41
5060.00	81.10	154.70	4345.27	1151.43	-1195.73	562.96	1321.63	154.79	5.07
5091.00	82.90	154.60	4349.59	1178.21	-1223.47	576.10	1352.32	154.79	5.82
5123.00	83.80	154.60	4353.29	1205.96	-1252.19	589.73	1384.11	154.78	2.81
5155.00	84.70	153.80	4356.50	1233.85	-1280.85	603.59	1415.94	154.77	3.75
5186.00	85.30	154.60	4359.20	1260.91	-1308.65	617.03	1446.83	154.76	3.22
5211.00	85.50	154.70	4361.21	1282.65	-1331.17	627.70	1471.74	154.75	.89
5299.00	86.20	156.10	4367.58	1358.65	-1410.98	664.23	1559.51	154.79	1.77
5329.00	85.70	157.50	4369.70	1384.19	-1438.48	676.02	1589.41	154.83	4.94
5361.00	87.30	153.80	4371.65	1411.78	-1467.57	689.19	1621.34	154.84	12.58
5393.00	87.80	151.60	4373.02	1440.18	-1495.98	703.85	1653.29	154.80	7.04
5424.00	86.30	148.80	4374.61	1468.28	-1522.84	719.24	1684.15	154.72	10.24
5456.00	84.40	146.10	4377.21	1497.83	-1549.72	736.39	1715.78	154.58	10.29
5488.00	84.30	143.50	4380.36	1527.87	-1575.74	754.75	1747.17	154.41	8.09
5519.00	84.20	140.40	4383.47	1557.43	-1600.03	773.76	1777.30	154.19	9.95
5550.00	84.50	137.70	4386.52	1587.40	-1623.33	793.97	1807.09	153.94	8.72
5580.00	84.70	135.40	4389.34	1616.70	-1645.01	814.51	1835.61	153.66	7.66
5611.00	84.90	132.80	4392.15	1647.21	-1666.49	836.68	1864.73	153.34	8.38
5641.00	85.20	130.00	4394.74	1676.94	-1686.25	859.10	1892.48	153.00	9.35
5671.00	85.20	127.30	4397.25	1706.78	-1704.92	882.44	1919.76	152.63	8.97
5702.00	85.60	124.00	4399.74	1737.67	-1722.93	907.55	1947.34	152.22	10.69
5733.00	85.40	120.80	4402.17	1768.53	-1739.49	933.64	1974.21	151.78	10.31
5763.00	85.40	117.30	4404.58	1798.25	-1754.00	959.78	1999.43	151.31	11.63
5793.00	85.10	114.70	4407.06	1827.74	-1767.11	986.64	2023.89	150.82	8.69
5821.00	86.10	111.20	4409.21	1855.00	-1777.99	1012.35	2046.00	150.34	12.96
5851.00	87.00	109.10	4411.02	1883.89	-1788.31	1040.46	2068.96	149.81	7.60
5881.00	87.60	107.50	4412.43	1912.53	-1797.72	1068.91	2091.49	149.26	5.69
5911.00	87.30	107.90	4413.76	1941.09	-1806.83	1097.46	2114.01	148.73	1.67
5942.00	87.20	107.70	4415.25	1970.60	-1816.29	1126.94	2137.50	148.18	.72
6031.00	87.50	107.90	4419.37	2055.35	-1843.47	1211.59	2205.98	146.69	.40
6122.00	87.80	107.60	4423.10	2142.00	-1871.19	1298.19	2277.42	145.25	.47

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6212.00	88.30	106.70	4426.16	2227.43	-1897.71	1384.13	2348.86	143.89	1.14
6301.00	88.00	107.20	4429.03	2311.81	-1923.65	1469.22	2420.54	142.63	.65
6391.00	87.90	107.00	4432.25	2397.21	-1950.09	1555.19	2494.29	141.43	.25
6483.00	89.60	107.00	4434.26	2484.49	-1976.98	1643.14	2570.68	140.27	1.85
6572.00	89.70	107.90	4434.80	2569.16	-2003.67	1728.05	2645.91	139.22	1.02
6662.00	90.20	105.60	4434.88	2654.43	-2029.61	1814.22	2722.26	138.21	2.62
6755.00	89.70	105.90	4434.96	2742.02	-2054.85	1903.73	2801.18	137.19	.63
6850.00	90.50	105.20	4434.80	2831.38	-2080.32	1995.25	2882.49	136.20	1.12
6944.00	91.00	104.60	4433.57	2919.42	-2104.49	2086.08	2963.21	135.25	.83
7038.00	91.30	104.40	4431.68	3007.23	-2128.02	2177.07	3044.35	134.35	.38
7131.00	91.50	105.30	4429.41	3094.29	-2151.85	2266.93	3125.61	133.51	.99
7225.00	90.90	107.70	4427.44	3183.20	-2178.54	2357.04	3209.62	132.75	2.63
7320.00	91.80	107.10	4425.20	3273.53	-2206.94	2447.66	3295.70	132.04	1.14
7414.00	90.60	108.00	4423.23	3362.99	-2235.27	2537.27	3381.44	131.38	1.60
7508.00	88.70	108.90	4423.81	3452.90	-2265.02	2626.43	3468.20	130.77	2.24
7602.00	89.70	108.30	4425.12	3542.88	-2295.00	2715.51	3555.42	130.20	1.24
7697.00	90.70	108.30	4424.79	3633.69	-2324.83	2805.70	3643.73	129.65	1.05
7792.00	90.20	109.50	4424.04	3724.77	-2355.60	2895.57	3732.72	129.13	1.37
7886.00	90.90	109.60	4423.14	3815.20	-2387.05	2984.15	3821.41	128.66	.75
7981.00	90.50	109.70	4421.98	3906.63	-2419.00	3073.61	3911.35	128.20	.43
8076.00	90.90	109.80	4420.82	3998.11	-2451.10	3163.02	4001.57	127.77	.43
8170.00	91.90	109.90	4418.52	4088.64	-2483.00	3251.40	4091.08	127.37	1.07
8264.00	93.10	109.00	4414.42	4178.94	-2514.27	3339.95	4180.53	126.97	1.60
8359.00	93.80	109.40	4408.70	4270.01	-2545.46	3429.50	4270.93	126.58	.85
8516.00	95.70	109.10	4395.70	4420.29	-2597.04	3577.21	4420.53	125.98	1.23
8610.00	97.10	109.10	4385.23	4509.95	-2627.61	3665.48	4510.00	125.63	1.49
Last Nevis MWD Survey									
8641.00	97.70	108.50	4381.23	4539.42	-2637.51	3694.58	4539.43	125.52	2.73
Survey Projection to TD									
8690.00	98.00	108.50	4374.54	4585.86	-2652.92	3740.61	4585.87	125.35	.61

711 MC 29-4-28 #121
 75260' LOWER LAT
 1895 FN 670 FW
 1385 653
 3280' FN 1323 FW
 5277
 1997 FS
 TOP OF PC = MD 4634'
 1895 FN 670 FW
 823 394
 2718 FN 1064' FW
 5277
 2559 FS