

DIVISION: 5765.4 					
BOTTOM HOLE					
SURFACE					

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.

10/3/08

Signature: Mike Pippin

Date:

Printed Name: Mike Pippin

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.

Date of Survey: 5/24/05

Signature and Seal of Professional Surveyor: John A. Vukonich

Certificate Number: 14831



Job Number: 0810511
Company: Black Hills Gas Resources
Lease/Well: ~~Many Canyons~~ ^{CARSON} 29-04 11 # 2
Location: Rio Arriba Co., NM
Rig Name: Patt 741
RKB:
G.L. or M.S.L.:

State/Country: NM/USA
Declination: 9.97839
Grid: -0.31
File name: C:\CURREN-1\08A68D-1\2904112.SVY
Date/Time: 03-Oct-08 / 09:40
Curve Name: Many Canyons 29-04-11 #2 Lower Lat. surveys

API# 30-039-20649

Many Canyons 29-04-11 #2 Lower Lat. survey

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 270.00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

CARSON 29-4-11 #2
LOWER LATERAL
#11
SURF 1770' FN 944' FE
10 3510'
E11 1780' FN 4454' FE
5163'
PMP 709' FW

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
Survey Tie-In									
3690.00	.50	134.90	3689.70	-1.00	38.20	1.00	38.21	1.50	.00
First Nevis MWD Survey									
3730.00	3.70	248.30	3729.67	.08	37.60	-.08	37.60	359.88	9.81
3759.00	15.50	257.50	3758.22	4.75	36.41	-4.75	36.72	352.57	40.90
3789.00	27.60	258.20	3786.07	15.50	34.11	-15.50	37.47	335.56	40.34
3819.00	39.90	259.20	3810.97	31.82	30.88	-31.82	44.34	314.14	41.04
3848.00	50.90	262.80	3831.30	52.18	27.71	-52.18	59.09	297.97	38.94
3881.00	62.40	264.40	3849.41	79.53	24.67	-79.53	83.27	287.23	35.08
3911.00	72.40	267.90	3860.93	107.13	22.84	-107.13	109.54	282.04	35.02
3940.00	74.70	272.20	3869.14	134.93	22.88	-134.93	136.86	279.62	16.28
3970.00	74.70	273.10	3877.06	163.84	24.21	-163.84	165.62	278.41	2.89
3999.00	74.90	272.30	3884.66	191.79	25.53	-191.79	193.48	277.58	2.75
4029.00	76.30	272.30	3892.12	220.83	26.70	-220.83	222.43	276.89	4.67
4058.00	76.50	272.00	3898.94	248.99	27.75	-248.99	250.53	276.36	1.22
4088.00	78.40	271.70	3905.46	278.26	28.70	-278.26	279.74	275.89	6.41
4118.00	80.70	271.30	3910.90	307.75	29.47	-307.75	309.16	275.47	7.78
4147.00	82.60	271.90	3915.11	336.43	30.27	-336.43	337.79	275.14	6.86
4177.00	84.10	272.30	3918.59	366.21	31.37	-366.21	367.55	274.90	5.17
4206.00	86.20	272.10	3921.04	395.08	32.47	-395.08	396.41	274.70	7.27
4236.00	88.50	271.90	3922.43	425.03	33.52	-425.03	426.35	274.51	7.70
4266.00	90.50	270.90	3922.69	455.02	34.25	-455.02	456.30	274.31	7.45
4295.00	90.50	270.40	3922.44	484.01	34.58	-484.01	485.25	274.09	1.72

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	
4324.00	90.40	270.30	3922.21	513.01	34.76	-513.01	514.19	273.88	.49
4354.00	90.60	270.10	3921.95	543.01	34.86	-543.01	544.13	273.67	.94
4383.00	91.10	270.10	3921.52	572.01	34.91	-572.01	573.07	273.49	1.72
4413.00	90.70	269.30	3921.05	602.00	34.76	-602.00	603.00	273.30	2.98
4442.00	89.00	268.80	3921.12	631.00	34.28	-631.00	631.93	273.11	6.11
4471.00	88.70	268.40	3921.70	659.98	33.57	-659.98	660.83	272.91	1.72
4501.00	89.20	268.50	3922.25	689.97	32.76	-689.97	690.74	272.72	1.70
4533.00	90.30	268.90	3922.39	721.96	32.03	-721.96	722.67	272.54	3.66
4565.00	91.30	269.50	3921.95	753.95	31.58	-753.95	754.61	272.40	3.64
4596.00	92.00	269.20	3921.05	784.93	31.23	-784.93	785.56	272.28	2.46
4628.00	90.30	268.90	3920.41	816.92	30.70	-816.92	817.50	272.15	5.39
4660.00	90.90	268.80	3920.08	848.91	30.06	-848.91	849.45	272.03	1.90
4692.00	89.70	268.90	3919.91	880.91	29.42	-880.91	881.40	271.91	3.76
4723.00	90.20	268.40	3919.94	911.90	28.69	-911.90	912.35	271.80	2.28
4755.00	88.70	268.10	3920.24	943.88	27.71	-943.88	944.29	271.68	4.78
4787.00	89.10	267.70	3920.86	975.85	26.54	-975.85	976.21	271.56	1.77
4819.00	89.90	267.80	3921.14	1007.83	25.28	-1007.83	1008.14	271.44	2.52
4851.00	90.70	267.90	3920.97	1039.80	24.08	-1039.80	1040.08	271.33	2.52
4882.00	89.20	268.10	3921.00	1070.78	23.00	-1070.78	1071.03	271.23	4.88
4914.00	89.20	268.10	3921.44	1102.76	21.94	-1102.76	1102.98	271.14	.00
4946.00	90.20	267.90	3921.61	1134.74	20.82	-1134.74	1134.93	271.05	3.19
4978.00	90.90	268.20	3921.30	1166.72	19.73	-1166.72	1166.89	270.97	2.38
5010.00	89.10	269.30	3921.30	1198.71	19.03	-1198.71	1198.86	270.91	6.59
5042.00	89.60	269.20	3921.67	1230.71	18.62	-1230.71	1230.85	270.87	1.59
5073.00	88.40	268.60	3922.21	1261.70	18.02	-1261.70	1261.83	270.82	4.33
5105.00	89.20	268.70	3922.88	1293.68	17.27	-1293.68	1293.80	270.76	2.52
5137.00	90.20	268.50	3923.04	1325.67	16.49	-1325.67	1325.77	270.71	3.19
5169.00	90.90	268.40	3922.74	1357.66	15.62	-1357.66	1357.75	270.66	2.21
5201.00	89.30	269.10	3922.68	1389.65	14.92	-1389.65	1389.73	270.62	5.46
5232.00	89.20	268.50	3923.09	1420.64	14.27	-1420.64	1420.71	270.58	1.96
5264.00	89.90	268.50	3923.34	1452.63	13.44	-1452.63	1452.69	270.53	2.19
5296.00	87.40	268.90	3924.09	1484.61	12.71	-1484.61	1484.66	270.49	7.91
5328.00	87.70	268.90	3925.46	1516.57	12.10	-1516.57	1516.62	270.46	.94
5360.00	87.30	268.00	3926.86	1548.53	11.23	-1548.53	1548.57	270.42	3.08
5391.00	87.30	267.70	3928.32	1579.47	10.07	-1579.47	1579.51	270.37	.97
5423.00	87.70	267.60	3929.71	1611.42	8.76	-1611.42	1611.44	270.31	1.29
5455.00	88.40	267.60	3930.80	1643.37	7.42	-1643.37	1643.39	270.26	2.19
5487.00	89.10	268.60	3931.50	1675.34	6.36	-1675.34	1675.35	270.22	3.81
5519.00	89.90	268.40	3931.78	1707.33	5.52	-1707.33	1707.34	270.19	2.58
5550.00	90.70	268.50	3931.62	1738.32	4.68	-1738.32	1738.32	270.15	2.60
5582.00	91.50	269.00	3931.00	1770.30	3.98	-1770.30	1770.31	270.13	2.95
5614.00	91.50	270.20	3930.16	1802.29	3.76	-1802.29	1802.30	270.12	3.75
5646.00	91.80	270.00	3929.24	1834.28	3.82	-1834.28	1834.28	270.12	1.13
5678.00	88.70	269.40	3929.10	1866.27	3.65	-1866.27	1866.28	270.11	9.87
5709.00	89.10	269.80	3929.70	1897.27	3.43	-1897.27	1897.27	270.10	1.82

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	
5741.00	89.30	269.80	3930.14	1929.26	3.32	-1929.26	1929.27	270.10	.62
5773.00	89.50	269.50	3930.48	1961.26	3.13	-1961.26	1961.26	270.09	1.13
5805.00	90.10	269.70	3930.59	1993.26	2.90	-1993.26	1993.26	270.08	1.98
5837.00	90.10	269.50	3930.54	2025.26	2.68	-2025.26	2025.26	270.08	.62
5869.00	90.30	269.20	3930.42	2057.26	2.32	-2057.26	2057.26	270.06	1.13
5900.00	90.40	269.10	3930.23	2088.25	1.86	-2088.25	2088.25	270.05	.46
5932.00	90.50	269.00	3929.98	2120.25	1.33	-2120.25	2120.25	270.04	.44
5964.00	90.80	268.90	3929.62	2152.24	.74	-2152.24	2152.24	270.02	.99
5996.00	91.10	268.80	3929.09	2184.23	.10	-2184.23	2184.23	270.00	.99
6028.00	91.30	268.40	3928.42	2216.21	-.68	-2216.21	2216.21	269.98	1.40
6059.00	89.30	269.00	3928.26	2247.20	-1.39	-2247.20	2247.20	269.96	6.74
6091.00	89.50	269.10	3928.59	2279.20	-1.92	-2279.20	2279.20	269.95	.70
6123.00	89.60	268.90	3928.84	2311.19	-2.48	-2311.19	2311.19	269.94	.70
6155.00	89.80	269.10	3929.01	2343.19	-3.04	-2343.19	2343.19	269.93	.88
6187.00	89.80	268.60	3929.12	2375.18	-3.68	-2375.18	2375.18	269.91	1.56
6219.00	88.60	269.10	3929.57	2407.17	-4.32	-2407.17	2407.17	269.90	4.06
6250.00	88.90	269.50	3930.25	2438.16	-4.70	-2438.16	2438.16	269.89	1.61
6282.00	88.90	269.20	3930.86	2470.15	-5.06	-2470.15	2470.16	269.88	.94
6314.00	88.90	269.30	3931.47	2502.14	-5.48	-2502.14	2502.15	269.87	.31
6346.00	88.70	269.00	3932.14	2534.13	-5.95	-2534.13	2534.14	269.87	1.13
6377.00	88.30	268.60	3932.96	2565.11	-6.60	-2565.11	2565.12	269.85	1.82
6409.00	88.00	268.40	3933.99	2597.09	-7.44	-2597.09	2597.10	269.84	1.13
6441.00	87.70	267.80	3935.19	2629.05	-8.50	-2629.05	2629.06	269.81	2.10
6473.00	87.70	268.00	3936.47	2661.00	-9.67	-2661.00	2661.02	269.79	.62
6505.00	87.80	268.00	3937.73	2692.95	-10.79	-2692.95	2692.98	269.77	.31
6536.00	87.80	267.60	3938.92	2723.91	-11.98	-2723.91	2723.94	269.75	1.29
6568.00	87.40	267.70	3940.26	2755.85	-13.29	-2755.85	2755.89	269.72	1.29
6600.00	88.00	267.90	3941.54	2787.80	-14.52	-2787.80	2787.84	269.70	1.98
6632.00	87.70	268.30	3942.75	2819.76	-15.58	-2819.76	2819.81	269.68	1.56
6663.00	88.80	269.30	3943.69	2850.74	-16.23	-2850.74	2850.79	269.67	4.79
6695.00	88.60	269.10	3944.42	2882.73	-16.67	-2882.73	2882.78	269.67	.88
6727.00	88.40	269.70	3945.26	2914.72	-17.01	-2914.72	2914.77	269.67	1.98
6758.00	89.60	270.50	3945.80	2945.71	-16.95	-2945.71	2945.76	269.67	4.65
6790.00	89.50	270.50	3946.05	2977.71	-16.67	-2977.71	2977.76	269.68	.31
6822.00	89.30	270.30	3946.38	3009.71	-16.45	-3009.71	3009.75	269.69	.88
6854.00	89.90	271.10	3946.61	3041.70	-16.06	-3041.70	3041.75	269.70	3.12
6885.00	90.40	271.90	3946.53	3072.69	-15.25	-3072.69	3072.73	269.72	3.04
6917.00	90.50	272.00	3946.27	3104.67	-14.16	-3104.67	3104.71	269.74	.44
6949.00	90.50	271.40	3945.99	3136.66	-13.21	-3136.66	3136.69	269.76	1.87
6981.00	90.70	271.50	3945.66	3168.65	-12.40	-3168.65	3168.67	269.78	.70
7012.00	90.70	271.30	3945.28	3199.63	-11.64	-3199.63	3199.66	269.79	.65
7044.00	90.60	271.00	3944.92	3231.63	-11.00	-3231.63	3231.64	269.80	.99
7076.00	90.70	270.80	3944.55	3263.62	-10.50	-3263.62	3263.64	269.82	.70
7108.00	90.70	270.10	3944.16	3295.62	-10.25	-3295.62	3295.63	269.82	2.19
7140.00	90.80	270.10	3943.75	3327.61	-10.19	-3327.61	3327.63	269.82	.31

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	
7171.00	90.90	270.30	3943.29	3358.61	-10.08	-3358.61	3358.62	269.83	.72
7203.00	90.30	269.90	3942.95	3390.61	-10.03	-3390.61	3390.62	269.83	2.25
7235.00	90.90	270.10	3942.62	3422.61	-10.03	-3422.61	3422.62	269.83	1.98
Last Nevis MWD Survey									
7267.00	90.60	269.90	3942.20	3454.60	-10.03	-3454.60	3454.62	269.83	1.13
Survey Projection to TD									
7322.00	90.70	269.90	3941.57	3509.60	-10.12	-3509.60	3509.61	269.83	.18