

DIST. 3



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

Job Number: 71375
Company: Black Hills Gas Resources
Lease/Well: Many Canyons 29-04-26 #133
Location: Rio Arriba County, NM
Rig Name: Patterson 744
RKB: 13'
G.L. or M.S.L.: 7396'

State/Country: NM/USA
Declination: 10.09229
Grid: -0.31
File name: C:\CURREN-1\713752-1\29426133.SVY
Date/Time: 11-Oct-07/11:02
Curve Name: MC 29-04-26 #133 lower lat surveys

30-039-29988

MC 29-4-26 #133
LOWER LATERRAL

SURF: 1960' FS 1915' FE
J -129' -1219'
BH 669' FS 697' FE
P

Lat. Origin: 1635/5 1587/E
MD 4546
TVL 4262

MC 29-04-26 #133 lower lat surveys

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 136.02

Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

10-31-07

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								
Surface Tie-In									
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
First Nevis MWD Survey									
409.00	.40	319.60	409.00	-1.42	1.09	-.93	1.43	319.60	.10
598.00	1.40	355.10	597.97	-3.88	3.89	-1.55	4.19	338.27	.58
788.00	.80	345.00	787.94	-6.84	7.48	-2.09	7.77	344.38	.33
977.00	.60	355.60	976.92	-8.75	9.75	-2.51	10.06	345.56	.13
1160.00	1.10	25.20	1159.90	-10.12	12.29	-1.83	12.43	351.51	.36
1342.00	.90	46.20	1341.88	-10.73	14.86	-.06	14.86	359.77	.23
1522.00	1.20	110.50	1521.85	-9.03	15.18	2.73	15.42	10.18	.64
1703.00	1.20	117.20	1702.81	-5.52	13.65	6.19	14.99	24.39	.08
1881.00	1.70	179.00	1880.76	-1.83	10.16	7.89	12.86	37.85	.87
2064.00	.90	139.90	2063.72	1.59	6.34	8.86	10.90	54.42	.63
2245.00	1.40	155.70	2244.68	5.09	3.24	10.69	11.17	73.14	.32
2424.00	1.00	165.70	2423.64	8.51	-.27	11.98	11.98	91.28	.25
2607.00	1.10	182.20	2606.61	11.11	-3.57	12.30	12.81	106.18	.17
2796.00	.90	243.40	2795.59	11.92	-6.05	10.91	12.47	119.01	.55
2985.00	1.90	272.30	2984.53	9.22	-6.59	6.45	9.22	135.61	.63
3175.00	2.00	276.90	3174.42	4.37	-6.06	.01	6.06	179.91	.10
3364.00	3.30	263.90	3363.22	-1.53	-6.24	-8.67	10.69	234.26	.75
3554.00	1.90	286.20	3553.02	-7.62	-5.95	-17.14	18.14	250.87	.90
3744.00	1.80	288.80	3742.92	-13.01	-4.10	-22.99	23.35	259.88	.07
3776.00	.70	268.60	3774.91	-13.59	-3.95	-23.66	23.98	260.53	3.65

8

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	
3807.00	3.10	122.00	3805.90	-12.90	-4.40	-23.14	23.55	259.24	11.95
3839.00	6.80	123.00	3837.78	-10.22	-5.89	-20.81	21.63	254.21	11.57
3870.00	10.50	122.20	3868.42	-5.68	-8.39	-16.88	18.85	243.57	11.94
3902.00	14.20	124.70	3899.67	1.00	-12.18	-11.19	16.54	222.56	11.68
3934.00	17.80	127.60	3930.43	9.69	-17.40	-4.08	17.88	193.20	11.52
3965.00	21.10	129.20	3959.65	19.92	-23.82	4.00	24.16	170.47	10.78
3997.00	24.60	129.90	3989.14	32.26	-31.74	13.58	34.52	156.84	10.97
4029.00	27.40	130.00	4017.90	46.21	-40.74	24.33	47.46	149.16	8.75
4060.00	30.00	127.70	4045.09	60.98	-50.07	35.93	61.63	144.34	9.11
4092.00	32.50	127.00	4072.44	77.39	-60.14	49.12	77.65	140.76	7.89
4123.00	36.40	128.80	4098.00	94.74	-70.92	62.95	94.83	138.41	13.00
4155.00	41.50	130.60	4122.88	114.73	-83.78	78.41	114.75	136.90	16.32
4187.00	46.40	131.70	4145.91	136.85	-98.39	95.12	136.85	135.97	15.50
4218.00	51.30	132.40	4166.30	160.13	-114.03	112.45	160.14	135.40	15.90
4250.00	56.20	132.40	4185.22	185.88	-131.42	131.50	185.91	134.98	15.31
4281.00	61.20	132.10	4201.32	212.30	-149.22	151.10	212.36	134.64	16.15
4313.00	66.30	134.30	4215.47	240.96	-168.87	172.00	241.04	134.47	17.09
4344.00	71.30	136.00	4226.68	269.85	-189.36	192.37	269.93	134.55	16.92
4376.00	76.40	136.80	4235.58	300.57	-211.61	213.56	300.65	134.74	16.12
4408.00	81.40	137.10	4241.74	331.96	-234.55	234.99	332.02	134.95	15.65
4440.00	80.20	137.10	4246.85	363.54	-257.69	256.49	363.58	135.13	3.75
4471.00	82.20	137.20	4251.59	394.17	-280.15	277.32	394.20	135.29	6.46
4546.00	82.20	137.70	4261.77	468.45	-334.89	327.57	468.46	135.63	.66
4578.00	81.70	137.40	4266.25	500.12	-358.27	348.96	500.13	135.75	1.82
4610.00	82.80	136.70	4270.57	531.83	-381.48	370.56	531.83	135.83	4.06
4642.00	85.40	135.50	4273.86	563.65	-404.41	392.63	563.66	135.85	8.94
4673.00	87.50	134.70	4275.78	594.59	-426.33	414.47	594.59	135.81	7.25
4736.00	89.20	134.90	4277.59	657.55	-470.70	459.15	657.55	135.71	2.72
4799.00	89.40	135.20	4278.36	720.53	-515.28	503.66	720.55	135.65	.57
4862.00	89.30	135.60	4279.08	783.52	-560.14	547.89	783.54	135.63	.65
4924.00	89.50	135.40	4279.72	845.52	-604.35	591.35	845.54	135.62	.46
4987.00	89.40	135.80	4280.33	908.51	-649.36	635.42	908.53	135.62	.65
5050.00	89.30	135.80	4281.04	971.51	-694.53	679.34	971.53	135.63	.16
5113.00	90.30	137.40	4281.26	1034.50	-740.30	722.63	1034.52	135.69	2.99
5176.00	90.20	136.90	4280.99	1097.49	-786.49	765.47	1097.50	135.78	.81
5239.00	90.10	137.50	4280.82	1160.47	-832.71	808.27	1160.48	135.85	.97
5302.00	90.00	137.50	4280.77	1223.45	-879.16	850.84	1223.45	135.94	.16
5365.00	89.80	137.90	4280.88	1286.43	-925.76	893.24	1286.43	136.02	.71
5428.00	89.60	138.40	4281.21	1349.38	-972.68	935.27	1349.38	136.12	.85
5491.00	91.20	138.30	4280.77	1412.33	-1019.75	977.13	1412.33	136.22	2.54
5554.00	91.00	138.90	4279.56	1475.25	-1067.00	1018.79	1475.27	136.32	1.00
5616.00	90.70	139.20	4278.64	1537.16	-1113.82	1059.42	1537.20	136.43	.68
5680.00	90.40	138.20	4278.03	1601.08	-1161.90	1101.66	1601.14	136.52	1.63
5743.00	90.30	137.70	4277.64	1664.05	-1208.68	1143.85	1664.12	136.58	.81
Last Nevis MWD Survey									
5807.00	90.00	138.00	4277.47	1728.01	-1256.13	1186.80	1728.11	136.63	.66

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	
Survey Projection to TD									
5854.00	90.00	138.00	4277.47	1774.98	-1291.06	1218.25	1775.10	136.66	.00



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

Job Number: 71375
Company: Black Hills Gas Resources
Lease/Well: Many Canyons 29-04-26 #133
Location: Rio Arriba County, NM
Rig Name: Patterson 744
RKB: 13'
G.L. or M.S.L.: 7396'

State/Country: NM/USA
Declination: 10.09229
Grid: -0.31
File name: C:\CURREN~1\713752-1\29426133.SVY
Date/Time: 16-Oct-07 / 08:09
Curve Name: MC 29-04-26 #133 upper lat surveys

30-039-29988

Lateral origin 1702/5 1679/E
MC 4438 to 4282

MC 29-04-26 #133 upper lat surveys

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 136.02
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

MC 29-4-26 #133
UPPER LATERAL
SURF 1960' FS -1284' 1915' FE -1241'
J 676' FS 674' FE
BH
P

10-31-07

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
Lower Lateral Tie-In									
4092.00	32.50	127.00	4072.44	77.38	-60.14	49.12	77.65	140.76	.00
4123.00	38.00	130.00	4097.75	95.12	-71.30	63.09	95.20	138.49	18.60
4155.00	43.80	132.10	4121.93	115.98	-85.06	78.87	116.00	137.16	18.63
4186.00	49.10	133.50	4143.28	138.40	-100.33	95.34	138.41	136.46	17.41
4218.00	54.40	132.10	4163.08	163.48	-117.39	113.78	163.48	135.90	16.91
4249.00	59.80	133.50	4179.92	189.46	-135.08	132.86	189.47	135.47	17.83
4281.00	65.30	132.80	4194.66	217.81	-154.49	153.58	217.83	135.17	17.30
4313.00	70.20	133.50	4206.77	247.38	-174.74	175.17	247.43	134.93	15.45
4345.00	73.50	132.10	4216.74	277.74	-195.39	197.48	277.81	134.69	11.12
4375.00	78.10	133.10	4224.10	306.76	-215.07	218.88	306.87	134.50	15.67
4407.00	82.90	133.10	4229.38	338.27	-236.63	241.92	338.41	134.37	15.00
4438.00	86.90	133.10	4232.13	369.10	-257.73	264.46	369.27	134.26	12.90
4477.00	93.00	133.50	4232.17	408.04	-284.46	292.83	408.25	134.17	15.67
4509.00	97.90	134.70	4229.13	439.87	-306.62	315.70	440.10	134.16	15.76
4540.00	102.80	134.80	4223.56	470.34	-328.08	337.35	470.58	134.20	15.81
4571.00	105.20	134.30	4216.06	500.41	-349.18	358.79	500.66	134.22	7.90
4603.00	105.10	134.40	4207.70	531.29	-370.78	380.87	531.55	134.23	.43
4634.00	104.40	135.00	4199.81	561.26	-391.86	402.18	561.52	134.26	2.93
4666.00	104.30	135.40	4191.88	592.25	-413.86	424.03	592.52	134.30	1.25
4698.00	104.50	135.00	4183.92	623.25	-435.85	445.87	623.51	134.35	1.36
4730.00	103.70	136.50	4176.12	654.28	-458.08	467.52	654.54	134.42	5.19
4761.00	103.60	136.70	4168.81	684.40	-479.97	488.22	684.64	134.51	.71
4792.00	103.00	137.40	4161.67	714.57	-502.05	508.78	714.78	134.62	2.93

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	
4823.00	102.90	137.40	4154.73	744.77	-524.29	529.23	744.96	134.73	.32
4855.00	101.20	137.70	4148.05	776.05	-547.38	550.35	776.21	134.85	5.39
4886.00	101.10	137.70	4142.05	806.45	-569.88	570.82	806.59	134.95	.32
4918.00	99.20	138.00	4136.41	837.94	-593.23	591.95	838.05	135.06	6.01
4949.00	99.00	138.00	4131.51	868.53	-615.98	612.44	868.62	135.17	.65
4980.00	97.40	137.80	4127.09	899.19	-638.74	633.01	899.27	135.26	5.20
5012.00	94.90	138.00	4123.66	930.99	-662.35	654.33	931.05	135.35	7.84
5043.00	91.90	138.50	4121.82	961.91	-685.43	674.94	961.96	135.44	9.81
5075.00	91.40	138.70	4120.90	993.86	-709.43	696.09	993.90	135.54	1.68
5106.00	91.30	138.80	4120.17	1024.82	-732.73	716.52	1024.84	135.64	.46
5138.00	91.50	138.60	4119.39	1056.77	-756.76	737.64	1056.79	135.73	.88
5169.00	91.10	138.70	4118.69	1087.73	-780.03	758.11	1087.74	135.82	1.33
5201.00	90.80	138.90	4118.16	1119.69	-804.10	779.19	1119.69	135.90	1.13
5264.00	91.40	137.80	4116.95	1182.62	-851.16	821.05	1182.62	136.03	1.99
5327.00	91.60	137.00	4115.30	1245.58	-897.52	863.68	1245.59	136.10	1.31
5390.00	90.60	136.30	4114.09	1308.57	-943.33	906.91	1308.57	136.13	1.94
5453.00	90.50	136.50	4113.48	1371.56	-988.95	950.36	1371.57	136.14	.35
5516.00	89.70	135.90	4113.37	1434.56	-1034.42	993.96	1434.57	136.14	1.59
5579.00	90.40	135.50	4113.32	1497.56	-1079.50	1037.96	1497.56	136.12	1.28
5642.00	90.50	135.70	4112.82	1560.56	-1124.51	1082.04	1560.56	136.10	.35
5705.00	90.20	135.40	4112.44	1623.55	-1169.49	1126.16	1623.55	136.08	.67
5768.00	90.00	135.20	4112.33	1686.55	-1214.27	1170.47	1686.55	136.05	.45
Last Nevis MWD Survey									
5819.00	89.80	134.70	4112.42	1737.54	-1250.30	1206.56	1737.54	136.02	1.06
Survey Projection to TD									
5867.00	89.40	134.20	4112.75	1785.52	-1283.91	1240.83	1785.52	135.98	1.33

10/16/2007

Many Canyons 29-04-26 #133
Current Dual Lateral Well Bore Diagram
Sec. 26, T29N, R04W

RCVD OCT 19 '07

OIL CONS. DIV.

DIST. 3

