

DISTRICT I
1626 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South 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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30172	² Pool Code 72400	³ Pool Name EAST BLANCO/PICTURED CLIFFS
⁴ Property Code 22211	⁵ Property Name JICARILLA 459-17	⁶ Well Number 741
⁷ OGRI No. 013925	⁸ Operator Name BLACK HILLS GAS RESOURCES	⁹ Elevation 7180'

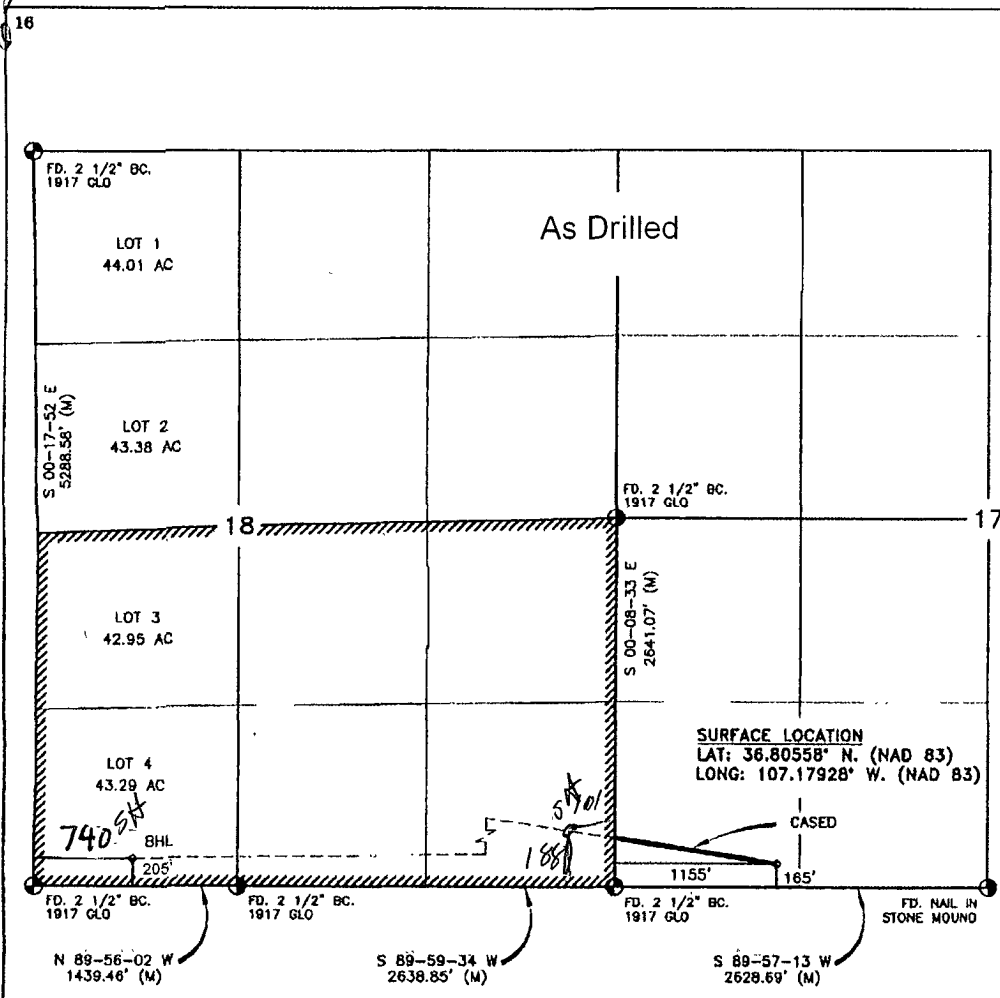
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	30-N	3-W		165	SOUTH	1155	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
N	18	30-N	3-W	4	205	SOUTH	1140'	WEST	RIO ARRIBA
¹² Dedicated Acres 246.24 AC.			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. RCVD OCT 3 '08 OIL CONS. DIV.		

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 DIST. 3



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.

Daniel Manuz 10/2/08
Signature Date
Daniel Manuz
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.

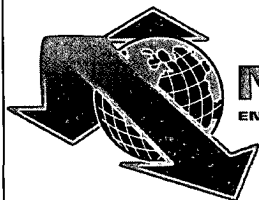
MARCH 29, 2007

Date of Survey

Signature and Seal of Professional Surveyor:

Greg A. Bush
03-19-08
8894

Certificate Number



NEVIS
ENERGY SERVICES INC.

1724-B Townhurst Drive
Houston Texas 77043
1-800-909-9819
www.nevisenergy.com

Job Number: 810161

Company: Black Hills Gas Resources

Lease/Well: Jicarilla 459-17 #741

Location: Rio Arriba County, NM

Rig Name:

RKB: 13'

G.L. or M.S.L.: 7180'

State/Country: NM/USA

Declination: 10.48927

Grid: 0.84

File name: C:\CURREN-1\810161-1\45917741.SVY

Date/Time: 30-May-08 / 08:03

Curve Name: Jicarilla 459-17 #741 ST surveys

Jicarilla 459-17 #741 ST surveys

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 270.44
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

RCVD OCT 3 '08
OIL CONS. DIV.
DIST. 3

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								
Nevis Survey Tie-In, begin ST									
2857.00	6.60	276.80	2856.20	9.59	-27.60	-9.80	29.29	199.55	.00
2898.00	8.50	273.50	2896.84	14.96	-27.14	-15.16	31.09	209.20	4.75
2928.00	10.50	272.30	2926.43	19.90	-26.89	-20.11	33.58	216.79	6.70
2959.00	10.40	271.60	2956.92	25.52	-26.70	-25.73	37.08	223.94	.52
2989.00	12.10	275.10	2986.34	31.36	-26.34	-31.57	41.12	230.15	6.10
3019.00	15.20	285.30	3015.49	38.30	-25.03	-38.50	45.92	236.97	13.05
3047.00	16.80	287.30	3042.41	45.72	-22.85	-45.90	51.28	243.53	6.04
3077.00	18.30	286.80	3071.01	54.39	-20.20	-54.55	58.17	249.68	5.03
3106.00	19.80	285.20	3098.42	63.51	-17.60	-63.65	66.04	254.54	5.48
3136.00	21.30	281.00	3126.51	73.78	-15.23	-73.90	75.45	258.36	7.01
3165.00	22.70	278.10	3153.40	84.51	-13.43	-84.61	85.67	260.98	6.11
3195.00	24.00	276.40	3180.94	96.31	-11.94	-96.41	97.14	262.94	4.88
3226.00	25.90	276.30	3209.05	109.32	-10.49	-109.40	109.90	264.52	6.13
3256.00	28.20	275.00	3235.77	122.90	-9.16	-122.98	123.32	265.74	7.92
3286.00	30.60	276.70	3261.90	137.56	-7.65	-137.63	137.84	266.82	8.47
3317.00	32.70	276.00	3288.29	153.74	-5.85	-153.79	153.90	267.82	6.88
3347.00	34.80	273.90	3313.23	170.35	-4.42	-170.39	170.45	268.51	8.01
3377.00	37.10	274.20	3337.52	187.93	-3.18	-187.96	187.99	269.03	7.69
3408.00	39.30	274.30	3361.88	207.06	-1.75	-207.08	207.09	269.51	7.10
3439.00	41.50	273.90	3385.48	227.11	-.32	-227.12	227.12	269.92	7.15
3471.00	43.10	271.30	3409.15	248.62	.65	-248.63	248.63	270.15	7.41
3502.00	44.80	269.80	3431.47	270.14	.85	-270.14	270.14	270.18	6.43
3533.00	47.40	270.30	3452.96	292.47	.87	-292.47	292.48	270.17	8.47

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	
3565.00	47.90	269.60	3474.52	316.12	.85	-316.12	316.12	270.15	2.25
3595.00	48.50	269.40	3494.52	338.48	.66	-338.49	338.49	270.11	2.06
3626.00	48.90	269.40	3514.98	361.77	.41	-361.77	361.77	270.07	1.29
3657.00	50.70	269.80	3534.99	385.44	.25	-385.45	385.45	270.04	5.89
3689.00	51.30	268.60	3555.12	410.30	-.10	-410.32	410.32	269.99	3.47
3720.00	54.00	269.20	3573.93	434.93	-.57	-434.95	434.95	269.92	8.84
3752.00	57.00	269.60	3592.05	461.30	-.85	-461.32	461.32	269.90	9.43
3783.00	58.90	270.80	3608.50	487.57	-.75	-487.59	487.59	269.91	6.95
3814.00	60.10	270.60	3624.24	514.28	-.42	-514.30	514.30	269.95	3.91
3845.00	61.10	270.90	3639.45	541.29	-.07	-541.31	541.31	269.99	3.33
3876.00	63.10	271.80	3653.96	568.68	.58	-568.69	568.69	270.06	6.94
3907.00	64.90	272.00	3667.55	596.53	1.50	-596.54	596.54	270.14	5.84
3938.00	66.50	271.90	3680.30	624.78	2.46	-624.77	624.78	270.23	5.17
3969.00	68.30	272.20	3692.22	653.38	3.49	-653.37	653.38	270.31	5.87
4001.00	69.40	272.50	3703.76	683.21	4.71	-683.19	683.21	270.40	3.55
4032.00	72.00	272.10	3714.01	712.45	5.88	-712.43	712.45	270.47	8.48
4064.00	73.90	272.10	3723.39	743.03	7.00	-743.00	743.03	270.54	5.94
4096.00	75.90	273.10	3731.73	773.90	8.41	-773.86	773.90	270.62	6.94
4127.00	76.50	272.00	3739.12	803.98	9.75	-803.93	803.99	270.69	3.95
4158.00	79.30	273.20	3745.62	834.27	11.12	-834.21	834.28	270.76	9.79
4189.00	82.30	271.70	3750.58	864.85	12.43	-864.78	864.87	270.82	10.79
4221.00	85.20	271.40	3754.06	896.65	13.29	-896.57	896.67	270.85	9.11
4250.00	85.80	272.00	3756.33	925.55	14.15	-925.47	925.58	270.88	2.92
4281.00	86.60	272.10	3758.39	956.47	15.25	-956.38	956.50	270.91	2.60
4312.00	87.40	271.90	3760.01	987.42	16.33	-987.32	987.46	270.95	2.66
4344.00	87.80	271.60	3761.35	1019.38	17.31	-1019.28	1019.42	270.97	1.56
4376.00	87.60	271.30	3762.63	1051.35	18.12	-1051.24	1051.40	270.99	1.13
4407.00	87.80	271.20	3763.88	1082.32	18.79	-1082.21	1082.37	270.99	.72
4439.00	86.40	271.40	3765.50	1114.28	19.52	-1114.16	1114.33	271.00	4.42
4470.00	86.60	271.60	3767.39	1145.21	20.33	-1145.09	1145.27	271.02	.91
4581.00	88.20	271.10	3772.43	1256.08	22.94	-1255.94	1256.15	271.05	1.51
4612.00	88.40	271.10	3773.35	1287.07	23.54	-1286.92	1287.14	271.05	.65
4643.00	88.60	270.80	3774.16	1318.05	24.05	-1317.91	1318.13	271.05	1.16
4675.00	86.90	271.00	3775.41	1350.03	24.55	-1349.88	1350.10	271.04	5.35
4706.00	86.80	270.80	3777.12	1380.98	25.04	-1380.83	1381.05	271.04	.72
4738.00	87.00	270.60	3778.85	1412.93	25.43	-1412.78	1413.01	271.03	.88
4770.00	87.40	270.70	3780.41	1444.89	25.79	-1444.74	1444.97	271.02	1.29
4801.00	87.80	270.10	3781.71	1475.87	26.01	-1475.71	1475.94	271.01	2.32
4831.00	88.10	269.80	3782.78	1505.85	25.98	-1505.69	1505.91	270.99	1.41
4862.00	87.10	269.50	3784.08	1536.81	25.79	-1536.66	1536.88	270.96	3.37
4893.00	86.90	269.40	3785.70	1567.77	25.50	-1567.62	1567.83	270.93	.72
4925.00	86.20	270.70	3787.63	1599.71	25.52	-1599.56	1599.76	270.91	4.61
4955.00	86.30	271.00	3789.59	1629.64	25.97	-1629.49	1629.70	270.91	1.05
4987.00	86.60	270.50	3791.57	1661.58	26.39	-1661.43	1661.64	270.91	1.82
5017.00	86.50	270.70	3793.38	1691.53	26.70	-1691.37	1691.58	270.90	.74

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
5047.00	86.90	270.20	3795.10	1721.48	26.93	-1721.32	1721.53	270.90	2.13
5077.00	87.10	269.90	3796.67	1751.43	26.96	-1751.28	1751.49	270.88	1.20
5107.00	86.20	270.00	3798.43	1781.38	26.93	-1781.23	1781.43	270.87	3.02
5138.00	86.20	270.00	3800.48	1812.31	26.93	-1812.16	1812.36	270.85	.00
5167.00	86.20	269.60	3802.40	1841.25	26.83	-1841.10	1841.29	270.84	1.38
5197.00	86.40	269.40	3804.34	1871.18	26.57	-1871.03	1871.22	270.81	.94
5227.00	86.40	269.20	3806.22	1901.12	26.21	-1900.97	1901.15	270.79	.67
5257.00	86.60	269.10	3808.05	1931.05	25.76	-1930.91	1931.08	270.76	.75
5288.00	86.50	269.10	3809.92	1961.99	25.28	-1961.85	1962.01	270.74	.32
5318.00	86.70	268.70	3811.70	1991.92	24.70	-1991.79	1991.95	270.71	1.49
5349.00	87.70	269.10	3813.21	2022.87	24.11	-2022.75	2022.89	270.68	3.47
5379.00	88.10	269.30	3814.31	2052.85	23.69	-2052.73	2052.86	270.66	1.49
5409.00	88.20	268.80	3815.28	2082.82	23.19	-2082.71	2082.84	270.64	1.70
5438.00	88.00	268.70	3816.24	2111.79	22.56	-2111.68	2111.80	270.61	.77
5469.00	88.30	268.60	3817.24	2142.76	21.83	-2142.66	2142.77	270.58	1.02
5498.00	88.70	268.30	3818.00	2171.74	21.04	-2171.64	2171.74	270.56	1.72
5528.00	88.90	268.20	3818.63	2201.71	20.13	-2201.62	2201.71	270.52	.75
5558.00	89.40	268.30	3819.08	2231.68	19.21	-2231.60	2231.68	270.49	1.70
5588.00	89.70	268.50	3819.31	2261.66	18.37	-2261.59	2261.66	270.47	1.20
5619.00	90.00	268.50	3819.39	2292.64	17.56	-2292.58	2292.64	270.44	.97
5648.00	89.70	269.10	3819.47	2321.63	16.96	-2321.57	2321.63	270.42	2.31
5678.00	90.00	269.10	3819.55	2351.62	16.48	-2351.57	2351.62	270.40	1.00
5709.00	89.20	269.40	3819.76	2382.62	16.08	-2382.56	2382.62	270.39	2.76
5739.00	89.30	268.90	3820.16	2412.61	15.63	-2412.56	2412.61	270.37	1.70
5770.00	87.60	269.20	3820.99	2443.58	15.12	-2443.54	2443.59	270.35	5.57
5800.00	87.40	269.20	3822.30	2473.55	14.70	-2473.51	2473.55	270.34	.67
5829.00	87.40	269.50	3823.62	2502.51	14.37	-2502.48	2502.52	270.33	1.03
5858.00	88.10	269.10	3824.76	2531.48	14.02	-2531.45	2531.49	270.32	2.78
5888.00	88.20	269.60	3825.73	2561.46	13.68	-2561.43	2561.47	270.31	1.70
5917.00	88.50	269.60	3826.56	2590.45	13.48	-2590.42	2590.46	270.30	1.03
6006.00	88.90	270.80	3828.58	2679.42	13.79	-2679.40	2679.43	270.29	1.42
6036.00	90.30	271.10	3828.79	2709.42	14.28	-2709.39	2709.43	270.30	4.77
6067.00	90.70	271.20	3828.52	2740.42	14.91	-2740.38	2740.42	270.31	1.33
6097.00	90.80	270.80	3828.13	2770.41	15.43	-2770.38	2770.42	270.32	1.37
6127.00	91.00	271.40	3827.66	2800.41	16.01	-2800.37	2800.41	270.33	2.11
6157.00	91.20	271.10	3827.08	2830.40	16.66	-2830.35	2830.40	270.34	1.20
6188.00	89.90	271.90	3826.78	2861.39	17.47	-2861.34	2861.39	270.35	4.92
6219.00	89.60	272.20	3826.92	2892.38	18.58	-2892.32	2892.38	270.37	1.37
6249.00	88.00	272.90	3827.55	2922.35	19.92	-2922.28	2922.35	270.39	5.82
6280.00	87.70	273.00	3828.71	2953.30	21.51	-2953.22	2953.30	270.42	1.02
6312.00	87.70	272.90	3829.99	2985.24	23.15	-2985.15	2985.24	270.44	.31
6343.00	88.00	273.00	3831.16	3016.19	24.75	-3016.09	3016.19	270.47	1.02
6375.00	88.30	273.10	3832.19	3048.14	26.45	-3048.03	3048.14	270.50	.99
6406.00	88.20	273.40	3833.14	3079.09	28.21	-3078.96	3079.09	270.52	1.02
6437.00	88.50	273.10	3834.03	3110.04	29.96	-3109.90	3110.04	270.55	1.37

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6468.00	88.50	272.00	3834.84	3141.01	31.34	-3140.86	3141.01	270.57	3.55
6500.00	88.60	272.00	3835.65	3172.98	32.46	-3172.83	3172.99	270.59	.31
6532.00	88.60	272.10	3836.43	3204.96	33.60	-3204.80	3204.97	270.60	.31
6563.00	88.60	271.80	3837.19	3235.94	34.66	-3235.77	3235.96	270.61	.97
6595.00	88.60	271.80	3837.97	3267.92	35.66	-3267.75	3267.94	270.63	.00
6626.00	88.80	269.70	3838.67	3298.91	36.07	-3298.73	3298.93	270.63	6.80
6658.00	88.90	269.60	3839.32	3330.90	35.87	-3330.73	3330.92	270.62	.44
6689.00	89.10	269.60	3839.86	3361.90	35.66	-3361.72	3361.91	270.61	.65
6721.00	89.00	269.70	3840.39	3393.89	35.46	-3393.72	3393.90	270.60	.44
6753.00	89.70	269.70	3840.75	3425.88	35.29	-3425.71	3425.89	270.59	2.19
6784.00	89.70	270.10	3840.91	3456.88	35.24	-3456.71	3456.89	270.58	1.29
6816.00	89.90	270.00	3841.02	3488.88	35.27	-3488.71	3488.89	270.58	.70
6847.00	90.20	270.00	3841.00	3519.88	35.27	-3519.71	3519.89	270.57	.97
6879.00	90.40	270.00	3840.83	3551.88	35.27	-3551.71	3551.89	270.57	.62
6910.00	90.40	270.40	3840.61	3582.88	35.38	-3582.71	3582.89	270.57	1.29
6942.00	90.80	270.40	3840.28	3614.87	35.60	-3614.71	3614.88	270.56	1.25
6973.00	91.00	270.30	3839.79	3645.87	35.79	-3645.70	3645.88	270.56	.72
7004.00	91.00	270.50	3839.25	3676.87	36.01	-3676.70	3676.87	270.56	.65
7035.00	91.00	270.00	3838.71	3707.86	36.14	-3707.69	3707.87	270.56	1.61
7067.00	91.30	270.00	3838.07	3739.85	36.14	-3739.69	3739.86	270.55	.94
7098.00	88.60	270.80	3838.09	3770.85	36.36	-3770.68	3770.86	270.55	9.08
7130.00	88.60	270.20	3838.88	3802.84	36.64	-3802.67	3802.85	270.55	1.87
7160.00	88.70	271.00	3839.58	3832.83	36.95	-3832.66	3832.84	270.55	2.69
7191.00	89.00	271.10	3840.20	3863.82	37.52	-3863.65	3863.83	270.56	1.02
7222.00	89.20	271.10	3840.69	3894.82	38.11	-3894.64	3894.83	270.56	.65
7254.00	89.40	270.80	3841.08	3926.81	38.64	-3926.63	3926.82	270.56	1.13
7286.00	89.70	270.70	3841.33	3958.81	39.06	-3958.63	3958.82	270.57	.99
7317.00	90.00	270.70	3841.42	3989.81	39.44	-3989.63	3989.82	270.57	.97
7349.00	90.00	270.50	3841.42	4021.81	39.78	-4021.63	4021.82	270.57	.63
7380.00	89.00	269.70	3841.69	4052.81	39.83	-4052.62	4052.82	270.56	4.13
7411.00	89.60	270.20	3842.06	4083.81	39.80	-4083.62	4083.82	270.56	2.52
7444.00	90.10	270.40	3842.15	4116.81	39.98	-4116.62	4116.81	270.56	1.63
7474.00	87.80	270.50	3842.70	4146.80	40.21	-4146.61	4146.81	270.56	7.67
7506.00	87.30	270.00	3844.07	4178.77	40.35	-4178.58	4178.78	270.55	2.21
7537.00	86.90	270.00	3845.64	4209.73	40.35	-4209.54	4209.74	270.55	1.29
7569.00	86.90	269.80	3847.37	4241.68	40.30	-4241.50	4241.69	270.54	.62
7601.00	86.80	269.90	3849.13	4273.63	40.21	-4273.45	4273.64	270.54	.44
7632.00	86.90	270.20	3850.83	4304.58	40.24	-4304.40	4304.59	270.54	1.02
7664.00	87.10	270.10	3852.50	4336.54	40.32	-4336.36	4336.54	270.53	.70
7695.00	87.60	269.70	3853.94	4367.50	40.27	-4367.32	4367.51	270.53	2.06
7727.00	87.70	269.70	3855.25	4399.47	40.10	-4399.30	4399.48	270.52	.31
7758.00	88.00	270.00	3856.41	4430.45	40.02	-4430.27	4430.45	270.52	1.37
7790.00	88.20	269.90	3857.47	4462.43	39.99	-4462.26	4462.44	270.51	.70
Last Nevis MWD Survey									
7821.00	88.40	269.80	3858.39	4493.42	39.91	-4493.24	4493.42	270.51	.72