



Scientific Drilling Survey Report

BURLINGTON™
RESOURCES

Company: Burlington Resources Date: 2005/12/07 Time: 15:29:10 Page: 1
Field: Rio Arriba, NM Co-ordinate(NE) Reference: Well: SanJuan 28-5 Unit #81P, Grid North
Site: Sec 26 T28N R5W (SanJuan 28-5) Vertical (TVD) Reference: GL 6753 & 14 6767.0
Well: SanJuan 28-5 Unit #81P Section (VS) Reference: Well (0.00N,0.00E,32.11Azi)
Wellpath: ST01 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Rio Arriba, NM

United States of America

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Western Zone

Coordinate System:

Well Centre

Geomagnetic Model:

bggm2005

30-039-29420

Site: Sec 26 T28N R5W (SanJuan 28-5)

Site Position:

From: Geographic

Position Uncertainty:

Ground Level:

0.00 ft

Northing: 2047724.526 ft

Easting: 646641.171 ft

Latitude: 36 37 35.850 N

Longitude: 107 20 0.954 W

North Reference: Grid

Grid Convergence: 0.30 deg

Well: SanJuan 28-5 Unit #81P

Slot Name:

Well Position: +N/-S 0.00 ft

Northing: 2047724.526 ft

Latitude: 36 37 35.850 N

+E/-W 0.00 ft

Easting: 646641.171 ft

Longitude: 107 20 0.954 W

Position Uncertainty: 0.00 ft

Wellpath: ST01

Current Datum: GL 6753 & 14

Height 6767.00 ft

Magnetic Data: 2005/08/29

Field Strength: 51367 nT

Vertical Section: Depth From (TVD)

ft

+N/-S

ft

Drilled From: Surface

Tie-on Depth: 0.00 ft

Above System Datum: Mean Sea Level

Declination: 10.39 deg

Mag Dip Angle: 63.58 deg

+E/-W

ft

Direction

deg

0.00

0.00

0.00

32.11

Survey: MWD

32D0805641

Start Date:

2005/09/16

Company: Scientific Drilling

Engineer:

Tool: MWD;MWD - Standard ISCWSA

Tied-to:

From Surface

Survey: MWD

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
593.00	0.21	239.22	593.00	-0.09	-0.15	-0.15	0.23	0.23	0.00	MWD
654.00	0.34	256.93	654.00	-0.19	-0.42	-0.38	0.25	0.21	29.03	MWD
715.00	0.58	257.03	715.00	-0.30	-0.90	-0.73	0.39	0.39	0.16	MWD
776.00	0.62	251.20	775.99	-0.47	-1.51	-1.20	0.12	0.07	-9.56	MWD
838.00	0.62	270.61	837.99	-0.58	-2.16	-1.64	0.34	0.00	31.31	MWD
899.00	0.45	276.88	898.99	-0.54	-2.73	-1.91	0.29	-0.28	10.28	MWD
961.00	0.77	279.76	960.98	-0.44	-3.38	-2.17	0.52	0.52	4.65	MWD
1022.00	0.88	257.05	1021.98	-0.48	-4.24	-2.66	0.56	0.18	-37.23	MWD
1083.00	0.98	251.98	1082.97	-0.75	-5.20	-3.39	0.21	0.16	-8.31	MWD
1145.00	0.85	246.19	1144.96	-1.10	-6.12	-4.18	0.26	-0.21	-9.34	MWD
1243.00	1.30	245.63	1242.94	-1.85	-7.80	-5.71	0.46	0.46	-0.57	MWD
1278.00	0.84	262.43	1277.94	-2.05	-8.41	-6.20	1.58	-1.31	48.00	MWD
1310.00	0.57	327.82	1309.94	-1.94	-8.73	-6.28	2.48	-0.84	204.34	MWD
1341.00	1.74	21.92	1340.93	-1.37	-8.64	-5.75	4.77	3.77	174.52	MWD
1372.00	3.31	26.04	1371.90	-0.13	-8.07	-4.40	5.09	5.06	13.29	MWD
1403.00	4.35	31.84	1402.83	1.67	-7.06	-2.34	3.58	3.35	18.71	MWD
1434.00	5.64	32.02	1433.71	3.96	-5.63	0.36	4.16	4.16	0.58	MWD
1466.00	7.01	31.73	1465.52	6.95	-3.77	3.89	4.28	4.28	-0.91	MWD
1496.00	8.08	32.09	1495.26	10.30	-1.68	7.83	3.57	3.57	1.20	MWD
1527.00	9.29	31.74	1525.90	14.27	0.79	12.51	3.91	3.90	-1.13	MWD
1557.00	10.32	33.05	1555.46	18.58	3.53	17.62	3.51	3.43	4.37	MWD
1588.00	11.61	31.32	1585.89	23.58	6.66	23.51	4.29	4.16	-5.58	MWD



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Well: SanJuan 28-5 Unit #81P	Section (VS) Reference: Well (0.00N,0.00E,32.11Azi)		
Wellpath: ST01	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: MWD

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1620.00	13.02	32.39	1617.16	29.37	10.27	30.34	4.46	4.41	3.34	MWD
1651.00	14.37	30.13	1647.28	35.65	14.07	37.67	4.68	4.35	-7.29	MWD
1682.00	15.40	31.70	1677.23	42.48	18.17	45.63	3.57	3.32	5.06	MWD
1713.00	15.54	32.05	1707.11	49.50	22.53	53.90	0.54	0.45	1.13	MWD
1745.00	16.00	30.59	1737.91	56.93	27.05	62.60	1.90	1.44	-4.56	MWD
1775.00	16.50	30.38	1766.71	64.16	31.31	70.99	1.68	1.67	-0.70	MWD
1870.00	17.24	31.57	1857.62	87.80	45.50	98.55	0.86	0.78	1.25	MWD
1932.00	17.43	30.53	1916.80	103.62	55.03	117.02	0.59	0.31	-1.68	MWD
2024.00	17.71	31.17	2004.51	127.46	69.27	144.79	0.37	0.30	0.70	MWD
2117.00	17.42	33.74	2093.18	151.14	84.33	172.85	0.89	-0.31	2.76	MWD
2212.00	17.68	33.16	2183.76	175.04	100.11	201.48	0.33	0.27	-0.61	MWD
2305.00	16.91	33.93	2272.55	198.09	115.39	229.12	0.86	-0.83	0.83	MWD
2399.00	16.06	34.68	2362.69	220.13	130.42	255.78	0.93	-0.90	0.80	MWD
2493.00	16.02	34.37	2453.03	241.52	145.14	281.73	0.10	-0.04	-0.33	MWD
2588.00	15.82	34.54	2544.38	263.01	159.88	307.76	0.22	-0.21	0.18	MWD
2649.00	15.72	35.92	2603.09	276.55	169.44	324.31	0.64	-0.16	2.26	MWD
2741.00	15.79	37.35	2691.63	296.60	184.35	349.22	0.43	0.08	1.55	MWD
2804.00	16.06	37.13	2752.21	310.36	194.81	366.43	0.44	0.43	-0.35	MWD
2897.00	16.59	37.00	2841.46	331.22	210.56	392.47	0.57	0.57	-0.14	MWD
2962.00	16.42	35.41	2903.78	346.11	221.47	410.89	0.74	-0.26	-2.45	MWD
3030.02	16.59	34.67	2969.00	361.94	232.57	430.19	0.40	0.25	-1.09	Ojo Alamo
3052.00	16.65	34.43	2990.06	367.12	236.13	436.47	0.40	0.26	-1.08	MWD
3146.00	16.92	33.07	3080.06	389.69	251.21	463.61	0.51	0.29	-1.45	MWD
3220.00	16.13	31.10	3151.00	407.51	262.40	484.65	1.31	-1.07	-2.66	Kirtland
3240.00	15.92	30.54	3170.22	412.25	265.23	490.17	1.31	-1.05	-2.82	MWD
3334.00	15.25	31.25	3260.77	433.93	278.19	515.42	0.74	-0.71	0.76	MWD
3397.00	14.93	30.91	3321.60	447.97	286.66	531.82	0.53	-0.51	-0.54	MWD
3489.00	14.46	35.55	3410.59	467.49	299.42	555.13	1.38	-0.51	5.04	MWD
3504.91	14.36	35.18	3426.00	470.72	301.72	559.09	0.84	-0.61	-2.34	Fruitland
3583.00	13.90	33.28	3501.73	486.48	312.44	578.14	0.84	-0.59	-2.43	MWD
3678.00	15.22	26.43	3593.68	507.18	324.26	601.96	2.28	1.39	-7.21	MWD
3711.52	15.48	26.18	3626.00	515.14	328.19	610.78	0.79	0.77	-0.75	Pic Cliffs
3773.00	15.95	25.74	3685.19	530.11	335.48	627.34	0.79	0.77	-0.71	MWD
3867.00	15.54	27.91	3775.66	552.87	346.98	652.73	0.76	-0.44	2.31	MWD
3923.35	15.14	29.62	3830.00	565.94	354.15	667.62	1.07	-0.70	3.04	Lewis
3962.00	14.88	30.85	3867.33	574.59	359.19	677.62	1.07	-0.68	3.17	MWD
4057.00	14.37	33.01	3959.25	594.95	371.87	701.60	0.79	-0.54	2.27	MWD
4149.00	13.94	35.26	4048.46	613.57	384.49	724.08	0.76	-0.47	2.45	MWD
4242.00	13.31	33.93	4138.84	631.60	396.93	745.97	0.76	-0.68	-1.43	MWD
4336.00	14.25	34.26	4230.14	650.14	409.48	768.35	1.00	1.00	0.35	MWD
4348.23	14.05	34.83	4242.00	652.60	411.18	771.33	1.98	-1.62	4.64	Huerfano Bentonite
4367.00	13.75	35.73	4260.22	656.28	413.78	775.83	1.98	-1.61	4.81	MWD
4399.00	14.15	36.05	4291.27	662.53	418.30	783.53	1.27	1.25	1.00	MWD
4430.00	15.17	34.17	4321.26	668.95	422.81	791.37	3.63	3.29	-6.06	MWD
4461.00	16.73	32.58	4351.07	676.07	427.49	799.88	5.23	5.03	-5.13	MWD
4491.00	18.53	31.57	4379.66	683.77	432.31	808.97	6.09	6.00	-3.37	MWD
4520.00	18.94	31.85	4407.12	691.69	437.21	818.28	1.45	1.41	0.97	MWD
4551.00	18.31	31.73	4436.50	700.11	442.43	828.18	2.04	-2.03	-0.39	MWD
4583.00	17.20	32.89	4466.97	708.36	447.64	837.94	3.64	-3.47	3.62	MWD
4614.00	16.54	33.97	4496.64	715.86	452.59	846.93	2.36	-2.13	3.48	MWD
4645.00	16.57	34.58	4526.36	723.16	457.57	855.76	0.57	0.10	1.97	MWD
4676.00	16.76	31.73	4556.05	730.61	462.43	864.65	2.71	0.61	-9.19	MWD
4708.00	17.47	27.66	4586.64	738.78	467.08	874.05	4.35	2.22	-12.72	MWD



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Well: SanJuan 28-5 Unit #81P	Section (VS) Reference: Well (0.00N,0.00E,32.11Azi)		
Wellpath: ST01	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: MWD

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4714.68	17.81	27.12	4593.00	740.58	468.01	876.06	5.65	5.10	-8.06	Chacra
4738.00	19.01	25.39	4615.13	747.19	471.27	883.39	5.65	5.14	-7.43	MWD
4769.00	19.26	24.86	4644.42	756.39	475.58	893.48	0.98	0.81	-1.71	MWD
4800.00	18.97	24.94	4673.71	765.60	479.86	903.55	0.94	-0.94	0.26	MWD
4830.00	18.59	25.58	4702.11	774.33	483.98	913.14	1.44	-1.27	2.13	MWD
4860.00	18.14	27.43	4730.58	782.79	488.20	922.54	2.45	-1.50	6.17	MWD
4892.00	17.70	30.20	4761.03	791.41	492.94	932.37	3.00	-1.37	8.66	MWD
4923.00	17.64	31.57	4790.57	799.49	497.77	941.78	1.36	-0.19	4.42	MWD
4954.00	17.18	33.97	4820.15	807.29	502.78	951.05	2.75	-1.48	7.74	MWD
4986.00	16.89	34.45	4850.74	815.04	508.05	960.42	1.01	-0.91	1.50	MWD
5017.00	16.56	35.75	4880.43	822.34	513.18	969.33	1.61	-1.06	4.19	MWD
5047.00	16.45	35.95	4909.20	829.25	518.17	977.83	0.41	-0.37	0.67	MWD
5078.00	16.83	34.81	4938.90	836.49	523.31	986.69	1.62	1.23	-3.68	MWD
5109.00	17.20	34.68	4968.54	843.94	528.48	995.75	1.20	1.19	-0.42	MWD
5140.00	16.93	33.44	4998.18	851.48	533.58	1004.85	1.46	-0.87	-4.00	MWD
5171.00	16.99	33.90	5027.83	859.00	538.59	1013.89	0.47	0.19	1.48	MWD
5265.00	14.88	34.88	5118.21	880.30	553.16	1039.67	2.26	-2.24	1.04	MWD
5295.00	13.93	35.80	5147.27	886.39	557.47	1047.12	3.26	-3.17	3.07	MWD
5326.00	13.67	35.31	5177.37	892.41	561.77	1054.50	0.92	-0.84	-1.58	MWD
5349.31	14.07	33.04	5200.00	897.03	564.91	1060.09	2.91	1.73	-9.73	Up. Cliff House
5358.00	14.23	32.23	5208.43	898.82	566.05	1062.21	2.91	1.79	-9.35	MWD
5389.00	14.86	28.75	5238.44	905.53	570.00	1069.99	3.47	2.03	-11.23	MWD
5421.00	15.61	26.30	5269.31	912.99	573.88	1078.37	3.09	2.34	-7.66	MWD
5453.00	16.08	25.79	5300.10	920.84	577.71	1087.06	1.53	1.47	-1.59	MWD
5484.00	16.00	25.62	5329.89	928.55	581.43	1095.57	0.30	-0.26	-0.55	MWD
5516.00	15.93	25.25	5360.66	936.50	585.21	1104.31	0.39	-0.22	-1.16	MWD
5547.00	15.95	27.50	5390.46	944.13	588.99	1112.78	1.99	0.06	7.26	MWD
5563.16	15.97	28.52	5406.00	948.05	591.08	1117.21	1.74	0.12	6.33	Mass. Cliff House
5578.00	15.99	29.46	5420.27	951.63	593.06	1121.29	1.74	0.14	6.31	MWD
5609.00	16.32	32.16	5450.04	959.03	597.48	1129.91	2.65	1.06	8.71	MWD
5629.78	16.14	33.32	5470.00	963.92	600.62	1135.72	1.77	-0.85	5.56	Menefee
5641.00	16.05	33.95	5480.78	966.51	602.34	1138.83	1.77	-0.83	5.65	MWD
5672.00	16.57	31.99	5510.53	973.81	607.08	1147.53	2.44	1.68	-6.32	MWD
5702.00	17.41	29.74	5539.22	981.34	611.57	1156.30	3.56	2.80	-7.50	MWD
5732.00	17.70	29.49	5567.82	989.20	616.04	1165.34	1.00	0.97	-0.83	MWD
5793.00	17.58	29.18	5625.95	1005.32	625.10	1183.80	0.25	-0.20	-0.51	MWD
5855.00	17.19	29.45	5685.12	1021.47	634.17	1202.30	0.64	-0.63	0.44	MWD
5887.00	17.25	30.33	5715.69	1029.68	638.89	1211.77	0.84	0.19	2.75	MWD
5950.00	17.50	30.41	5775.81	1045.91	648.40	1230.57	0.40	0.40	0.13	MWD
5966.98	17.73	30.57	5792.00	1050.34	651.01	1235.71	1.37	1.34	0.93	Point Lookout
6012.00	18.33	30.97	5834.81	1062.31	658.13	1249.64	1.37	1.34	0.89	MWD
6074.00	18.35	31.24	5893.66	1079.02	668.21	1269.15	0.14	0.03	0.44	MWD
6167.00	16.57	34.06	5982.37	1102.52	683.23	1297.04	2.12	-1.91	3.03	MWD
6198.00	16.25	34.18	6012.11	1109.77	688.15	1305.79	1.04	-1.03	0.39	MWD
6261.00	15.63	35.57	6072.68	1123.97	698.03	1323.07	1.16	-0.98	2.21	MWD
6352.00	15.28	35.73	6160.39	1143.67	712.17	1347.28	0.39	-0.38	0.18	MWD
6382.00	15.17	37.64	6189.34	1149.99	716.87	1355.13	1.71	-0.37	6.37	MWD
6414.00	15.52	37.82	6220.20	1156.69	722.06	1363.55	1.10	1.09	0.56	MWD
6445.00	15.87	36.14	6250.04	1163.39	727.10	1371.91	1.85	1.13	-5.42	MWD
6477.00	16.61	33.57	6280.77	1170.73	732.21	1380.85	3.22	2.31	-8.03	MWD
6507.00	16.30	33.04	6309.54	1177.83	736.87	1389.34	1.15	-1.03	-1.77	MWD
6511.65	16.22	33.18	6314.00	1178.92	737.58	1390.64	1.94	-1.75	3.04	Manco Shale
6538.00	15.76	34.01	6339.33	1184.97	741.60	1397.90	1.94	-1.74	3.14	MWD



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Site: Sec 26 T28N R5W (SanJuan 28-5)	Vertical (TVD) Reference:	GL 6753 & 14 6767.0	
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Survey: MWD

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6601.00	15.61	33.85	6399.99	1199.10	751.11	1414.92	0.25	-0.24	-0.25	MWD
6632.00	15.03	35.62	6429.89	1205.83	755.77	1423.10	2.40	-1.87	5.71	MWD
6664.00	14.88	35.58	6460.80	1212.55	760.58	1431.35	0.47	-0.47	-0.12	MWD
6695.00	14.92	34.42	6490.76	1219.08	765.15	1439.31	0.97	0.13	-3.74	MWD
6727.00	15.16	34.70	6521.66	1225.92	769.86	1447.60	0.78	0.75	0.87	MWD
6758.00	15.17	33.14	6551.58	1232.64	774.39	1455.71	1.32	0.03	-5.03	MWD
6789.00	15.60	33.94	6581.47	1239.50	778.93	1463.93	1.55	1.39	2.58	MWD
6820.00	16.14	34.49	6611.29	1246.51	783.70	1472.40	1.81	1.74	1.77	MWD
6851.00	15.78	35.80	6641.10	1253.48	788.60	1480.91	1.64	-1.16	4.23	MWD
6883.00	15.83	34.48	6671.89	1260.61	793.62	1489.62	1.13	0.16	-4.12	MWD
6914.00	16.27	34.23	6701.68	1267.68	798.46	1498.18	1.44	1.42	-0.81	MWD
6945.00	16.11	33.77	6731.45	1274.85	803.29	1506.82	0.66	-0.52	-1.48	MWD
6978.00	16.36	31.94	6763.13	1282.60	808.29	1516.04	1.73	0.76	-5.55	MWD
7008.00	16.50	31.58	6791.91	1289.81	812.76	1524.53	0.58	0.47	-1.20	MWD
7039.00	15.63	33.15	6821.70	1297.06	817.35	1533.10	3.14	-2.81	5.06	MWD
7071.00	14.54	33.91	6852.59	1304.00	821.95	1541.43	3.46	-3.41	2.37	MWD
7103.00	12.77	30.36	6883.69	1310.39	825.98	1548.98	6.12	-5.53	-11.09	MWD
7134.00	11.62	20.42	6913.99	1316.27	828.80	1555.46	7.71	-3.71	-32.06	MWD
7166.00	12.65	16.20	6945.28	1322.66	830.90	1561.99	4.25	3.22	-13.19	MWD
7195.00	14.16	16.77	6973.49	1329.10	832.81	1568.46	5.23	5.21	1.97	MWD
7229.00	15.43	20.76	7006.36	1337.31	835.61	1576.91	4.79	3.74	11.74	MWD
7236.93	15.74	20.81	7014.00	1339.31	836.37	1579.00	3.91	3.90	0.65	Gallup
7260.00	16.64	20.95	7036.15	1345.31	838.66	1585.31	3.91	3.90	0.60	MWD
7292.00	17.05	21.50	7066.78	1353.96	842.02	1594.42	1.37	1.28	1.72	MWD
7323.00	17.23	23.51	7096.40	1362.40	845.52	1603.42	2.00	0.58	6.48	MWD
7354.00	16.55	27.13	7126.07	1370.54	849.36	1612.36	4.04	-2.19	11.68	MWD
7386.00	16.77	28.41	7156.72	1378.65	853.64	1621.51	1.34	0.69	4.00	MWD
7417.00	16.90	29.64	7186.40	1386.50	857.99	1630.47	1.22	0.42	3.97	MWD
7448.00	17.52	30.68	7216.01	1394.43	862.60	1639.64	2.23	2.00	3.35	MWD
7479.00	17.97	31.81	7245.53	1402.51	867.50	1649.09	1.83	1.45	3.65	MWD
7510.00	18.14	33.40	7275.01	1410.60	872.68	1658.69	1.68	0.55	5.13	MWD
7542.00	18.07	34.33	7305.42	1418.86	878.22	1668.63	0.93	-0.22	2.91	MWD
7574.00	18.46	34.38	7335.81	1427.14	883.88	1678.65	1.22	1.22	0.16	MWD
7603.00	18.00	34.68	7363.35	1434.61	889.02	1687.72	1.62	-1.59	1.03	MWD
7635.00	17.98	35.84	7393.79	1442.68	894.73	1697.58	1.12	-0.06	3.62	MWD
7666.00	17.09	36.94	7423.35	1450.20	900.27	1706.90	3.06	-2.87	3.55	MWD
7698.00	16.04	33.68	7454.02	1457.64	905.55	1716.00	4.38	-3.28	-10.19	MWD
7729.00	14.74	29.68	7483.91	1464.63	909.87	1724.23	5.41	-4.19	-12.90	MWD
7760.00	14.45	29.24	7513.91	1471.43	913.72	1732.03	1.00	-0.94	-1.42	MWD
7791.00	14.60	26.33	7543.92	1478.31	917.34	1739.78	2.40	0.48	-9.39	MWD
7822.00	15.76	25.79	7573.84	1485.60	920.90	1747.85	3.77	3.74	-1.74	MWD
7854.00	17.34	26.16	7604.51	1493.79	924.90	1756.91	4.95	4.94	1.16	MWD
7884.00	18.65	27.65	7633.04	1502.06	929.09	1766.14	4.63	4.37	4.97	MWD
7915.00	19.87	29.95	7662.31	1511.01	934.02	1776.35	4.63	3.94	7.42	MWD
7947.00	20.16	32.94	7692.38	1520.35	939.74	1787.30	3.32	0.91	9.34	MWD
7962.56	19.86	33.94	7707.00	1524.80	942.67	1792.62	2.94	-1.95	6.45	Greenhom
7977.00	19.58	34.90	7720.59	1528.81	945.42	1797.49	2.94	-1.91	6.63	MWD
8008.00	19.06	35.50	7749.84	1537.20	951.34	1807.73	1.80	-1.68	1.94	MWD
8033.51	18.41	36.28	7774.00	1543.83	956.14	1815.91	2.72	-2.53	3.07	Graneros
8040.00	18.25	36.49	7780.16	1545.48	957.35	1817.94	2.72	-2.52	3.20	MWD
8070.00	17.68	37.59	7808.70	1552.86	962.92	1827.16	2.21	-1.90	3.67	MWD
8081.86	17.70	38.14	7820.00	1555.71	965.13	1830.75	1.41	0.15	4.62	Two Wells
8101.00	17.73	39.02	7838.23	1560.26	968.77	1836.53	1.41	0.17	4.61	MWD
8132.00	17.74	39.85	7867.76	1567.55	974.76	1845.90	0.82	0.03	2.68	MWD



Scientific Drilling Survey Report

BURLINGTON™
RESOURCES

Company: Burlington Resources	Date: 2005/12/07	Time: 15:29:10	Page: 5
Field: Rio Arriba, NM	Co-ordinate(NE) Reference:	Well: SanJuan 28-5 Unit #81P, Grid North	
Site: Sec 26 T28N R5W (SanJuan 28-5)	Vertical (TVD) Reference:	GL 6753 & 14 6767.0	
Well: SanJuan 28-5 Unit #81P	Section (VS) Reference:	Well (0.00N,0.00E,32.11Azi)	
Wellpath: ST01	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: MWD

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8163.00	17.56	40.11	7897.30	1574.76	980.80	1855.21	0.63	-0.58	0.84	MWD

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3030.02	2969.00	Ojo Alamo		0.00	0.00
3220.00	3151.00	Kirtland		0.00	0.00
3504.91	3426.00	Fruitland		0.00	0.00
3711.52	3626.00	Pic Cliffs		0.00	0.00
3923.35	3830.00	Lewis		0.00	0.00
4348.23	4242.00	Huerfano Bentonite		0.00	0.00
4714.68	4593.00	Chacra		0.00	0.00
5349.31	5200.00	Up. Cliff House		0.00	0.00
5563.16	5406.00	Mass. Cliff House		0.00	0.00
5629.78	5470.00	Menefee		0.00	0.00
5966.98	5792.00	Point Lookout		0.00	0.00
6511.65	6314.00	Manco Shale		0.00	0.00
7236.93	7014.00	Gallup		0.00	0.00
7962.56	7707.00	Greenhorn		0.00	0.00
8033.51	7774.00	Graneros		0.00	0.00
8081.86	7820.00	Two Wells		0.00	0.00
	0.00	Up. Cubero		0.00	0.00
	0.00	Formation 19		0.00	0.00
	0.00	Oak Canyon		0.00	0.00
	0.00	Encinal		0.00	0.00