

Scientific Drilling

ROUND JAMES OT
GIL CONS. DIV.
DIST. 3

30-039-29911

BURLINGTON RESOURCES

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 27-5 #144P
Wellpath: VH - Job #32D0906737
Survey: 09/10/06-09/27/06

Surface 1200/S 2370/W
Int. TD 574/S 2095/E

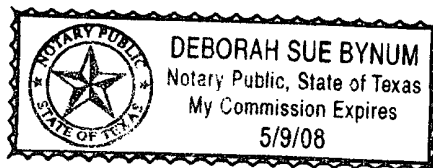
HOLD C104 FOR NSL

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Richard.....Company Representative

Notorized this date 2nd of December, 2006.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas



88



Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 27-5 #144P
Wellpath: VH - Job #32D0906737

Date: 11/29/2006 **Time:** 15:17:35 **Page:** 1
Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,129.10Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 09/10/06-09/27/06 **Start Date:** 09/10/2006
Company: Scientific Drilling Internatio **Engineer:** Calvert/Lowe/Heikkinen/Stelzer
Tool: E-field;E-field **Tied-to:** From Surface

Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
395.00	0.10	212.69	395.00	0.04	-0.29	-0.19	0.03	0.34	212.69
426.00	1.08	127.81	426.00	0.33	-0.49	0.03	3.47	0.49	176.51
457.00	2.02	127.00	456.99	1.17	-1.00	0.70	3.03	1.22	145.11
488.00	3.41	124.80	487.95	2.64	-1.85	1.89	4.50	2.65	134.45
518.00	4.49	130.97	517.88	4.70	-3.13	3.51	3.86	4.71	131.76
549.00	5.54	133.72	548.76	7.40	-4.96	5.51	3.47	7.41	132.03
579.00	6.57	135.35	578.59	10.55	-7.19	7.76	3.48	10.58	132.80
610.00	7.33	130.57	609.36	14.29	-9.73	10.51	3.08	14.32	132.81
641.00	8.27	133.41	640.08	18.49	-12.55	13.63	3.28	18.53	132.64
672.00	9.32	132.12	670.71	23.22	-15.77	17.11	3.45	23.27	132.66
703.00	9.86	131.54	701.28	28.38	-19.21	20.96	1.77	28.43	132.51
734.00	11.18	131.57	731.76	34.04	-22.97	25.20	4.26	34.09	132.35
765.00	12.29	131.48	762.11	40.34	-27.15	29.92	3.58	40.40	132.22
796.00	13.36	130.42	792.34	47.21	-31.65	35.12	3.53	47.28	132.03
827.00	14.36	129.23	822.43	54.64	-36.41	40.82	3.35	54.70	131.73
859.00	15.16	125.32	853.38	62.78	-41.34	47.31	3.99	62.82	131.15
890.00	15.81	126.66	883.25	71.05	-46.20	54.00	2.39	71.07	130.55
922.00	16.80	124.14	913.96	80.01	-51.40	61.33	3.80	80.02	129.97
953.00	17.62	124.40	943.58	89.15	-56.56	68.91	2.66	89.15	129.38
985.00	18.42	125.37	974.01	99.02	-62.23	77.03	2.67	99.02	128.93
1017.00	19.21	124.56	1004.30	109.31	-68.14	85.48	2.60	109.32	128.56
1048.00	19.73	127.16	1033.52	119.63	-74.19	93.86	3.26	119.64	128.33
1080.00	20.23	130.17	1063.60	130.56	-81.03	102.39	3.57	130.57	128.36
1142.00	20.75	131.60	1121.68	152.25	-95.23	118.79	1.16	152.25	128.72
1205.00	21.34	129.33	1180.48	174.86	-109.91	136.00	1.60	174.86	128.94
1269.00	21.95	127.39	1239.96	198.46	-124.55	154.52	1.47	198.47	128.87
1333.00	21.39	131.28	1299.44	222.08	-139.52	172.79	2.41	222.08	128.92
1398.00	21.83	133.37	1358.02	245.25	-155.14	189.94	1.41	245.25	129.24
1459.00	21.83	131.73	1416.50	268.63	-170.98	207.20	0.97	268.63	129.53
1520.00	22.14	133.46	1473.06	291.42	-186.44	224.00	1.18	291.44	129.77
1584.00	21.97	128.11	1532.39	315.42	-202.12	242.18	3.15	315.44	129.85
1645.00	20.80	125.92	1589.19	337.64	-215.52	259.93	2.32	337.66	129.66
1708.00	20.99	126.66	1648.04	360.08	-228.82	278.04	0.52	360.09	129.45
1769.00	21.19	124.21	1704.96	381.98	-241.54	295.92	1.48	381.98	129.22
1831.00	21.63	124.04	1762.68	404.53	-254.24	314.66	0.72	404.53	128.94
1895.00	20.67	125.60	1822.37	427.55	-267.41	333.62	1.74	427.56	128.71
1958.00	20.44	130.55	1881.36	449.65	-281.04	351.02	2.78	449.66	128.68
2020.00	20.82	130.10	1939.39	471.49	-295.17	367.67	0.66	471.50	128.76
2083.00	21.12	129.04	1998.21	494.04	-309.54	385.05	0.77	494.04	128.80
2146.00	21.20	127.78	2056.97	516.77	-323.66	402.87	0.73	516.78	128.78
2210.00	21.24	130.14	2116.63	539.93	-338.23	420.88	1.34	539.94	128.79
2273.00	21.65	133.10	2175.27	562.94	-353.52	438.09	1.84	562.94	128.90
2336.00	21.80	130.85	2233.79	586.22	-369.12	455.43	1.34	586.22	129.02
2398.00	22.11	132.01	2291.30	609.38	-384.46	472.80	0.86	609.38	129.12
2461.00	22.14	131.78	2349.66	633.08	-400.30	490.47	0.15	633.08	129.22
2522.00	22.39	132.66	2406.11	656.16	-415.83	507.58	0.68	656.17	129.33
2585.00	21.57	131.05	2464.53	679.71	-431.57	525.14	1.62	679.72	129.41
2647.00	21.88	129.88	2522.13	702.65	-446.46	542.60	0.86	702.67	129.45



Scientific Drilling International Survey Report

Company: BURLINGTON RESOURCES
Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 27-5 #144P
Wellpath: VH - Job #32D0906737

Date: 11/29/2006 Time: 15:17:35 Page: 2
Co-ordinate(N/E) Reference: Site: Rio Arriba County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,129.10Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

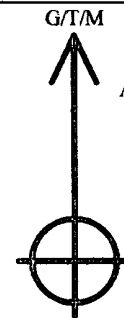
Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ChD ft	ChA deg
2710.00	22.11	130.21	2580.54	726.24	-461.64	560.66	0.41	726.26	129.47
2772.00	21.80	125.37	2638.09	749.30	-475.78	578.88	3.02	749.31	129.42
2834.00	21.40	128.00	2695.78	772.00	-489.35	597.10	1.59	772.00	129.34
2897.00	20.76	126.14	2754.56	794.64	-503.01	615.17	1.47	794.64	129.27
2960.00	19.92	124.68	2813.63	816.49	-515.70	633.02	1.56	816.49	129.17
3023.00	18.79	125.01	2873.07	837.31	-527.63	650.15	1.80	837.31	129.06
3086.00	18.22	127.52	2932.82	857.28	-539.45	666.27	1.55	857.28	129.00
3150.00	17.63	126.01	2993.71	876.96	-551.24	682.05	1.17	876.96	128.95
3212.00	15.19	129.56	3053.18	894.46	-561.94	695.91	4.25	894.46	128.92
3275.00	13.97	131.83	3114.15	910.31	-572.27	707.94	2.14	910.31	128.95
3338.00	13.85	130.93	3175.30	925.44	-582.28	719.30	0.39	925.44	128.99
3401.00	12.15	128.66	3236.89	939.61	-591.36	730.18	2.82	939.61	129.00
3463.00	10.43	126.66	3297.49	951.74	-598.79	739.77	2.84	951.74	128.99
3525.00	10.15	125.57	3358.49	962.80	-605.32	748.72	0.55	962.80	128.95
3589.00	9.35	127.10	3421.56	973.63	-611.73	757.45	1.31	973.63	128.92
3652.00	7.81	126.39	3483.86	983.02	-617.36	764.98	2.45	983.02	128.90
3714.00	5.45	127.27	3545.44	990.17	-621.64	770.72	3.81	990.17	128.89
3777.00	3.20	129.82	3608.25	994.92	-624.58	774.45	3.58	994.92	128.89
3788.00	2.68	133.08	3619.24	995.48	-624.95	774.87	4.96	995.49	128.89
3833.00	0.55	146.42	3664.22	996.74	-625.85	775.76	4.77	996.74	128.90



**Scientific
Drilling**

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 27-5 #144P
Wellpath: VH - Job #32D0906737
Survey: 09/10/06-09/27/06



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 11/29/2006
Model: igrf2000

West(-)/East(+) [100ft/in]

South(-)/North(+) [100ft/in]

