API # 30-039-30024
RCVD APR12'07
OIL CONS. DIV.
DIST. 3

Scientific Drilling

in PA.

Surface 2370/N 200/E Sec 26
BHL 2501/N 66/W Sec 25

CONOCOPHILLIPS

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-7 #222F
Wellpath: DH - Job #32D0107056
Survey: 01/15/07-02/01/07

→ File amended C102 (both pools) for actual BHL.

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

.....Company Representative

Notorized this date 14th of March, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
DEBORAH SUE BYNUM
Notary Public, State of Texas
My Commission Expires
5/9/08

Scientific Drilling

Scientific Drilling International
Survey Report

Company:	CONOCOPHILLIPS	**Date:**	03/13/2007	**Time:** 14:54:14	**Page:** 1
Field:	San Juan	**Co-ordinate(NE) Reference:**	Site: Rio Arriba County, NM, Grid North		
Site:	Rio Arriba County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	San Juan 28-7 #222F	**Section (VS) Reference:**	Well (0.00N,0.00E,116.57Azi)		
Wellpath:	DH - Job #32D0107056	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	01/15/07-02/01/07 E-field 0'-3645'	**Start Date:**	01/15/2007
Company:	Scientific Drilling Internatio	**Engineer:**	Calvert/Lowe/Stevens/Rassmusse
Tool:	E-field;E-field MWD	**Tied-to:**	From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	CIsD ft	CIsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
338.00	0.70	216.88	337.99	-0.37	-1.65	-1.24	0.21	2.06	216.88
461.00	0.48	218.54	460.98	-0.61	-2.66	-2.01	0.18	3.33	217.14
584.00	0.19	359.93	583.98	-0.81	-2.85	-2.33	0.52	3.69	219.25
707.00	0.44	2.61	706.98	-1.09	-2.18	-2.31	0.20	3.18	226.69
831.00	0.77	11.88	830.97	-1.50	-0.89	-2.12	0.28	2.30	247.26
989.00	0.43	64.05	988.97	-1.41	0.41	-1.37	0.39	1.43	286.72
1114.00	0.30	96.35	1113.96	-0.81	0.58	-0.62	0.19	0.85	313.11
1239.00	0.27	129.85	1238.96	-0.22	0.35	-0.07	0.13	0.36	349.17
1365.00	0.34	88.89	1364.96	0.40	0.17	0.53	0.18	0.56	72.18
1491.00	0.38	183.62	1490.96	0.89	-0.24	0.88	0.42	0.91	105.12
1616.00	0.30	170.01	1615.96	1.25	-0.97	0.91	0.09	1.33	136.89
1743.00	0.54	178.01	1742.95	1.74	-1.90	0.99	0.19	2.14	152.47
1806.00	0.82	141.23	1805.95	2.29	-2.55	1.28	0.80	2.85	153.27
1869.00	1.39	128.98	1868.94	3.44	-3.38	2.16	0.97	4.01	147.43
1932.00	3.57	121.58	1931.88	6.14	-4.89	4.42	3.49	6.59	137.85
1996.00	5.22	117.61	1995.69	11.04	-7.28	8.70	2.62	11.35	129.92
2057.00	7.29	118.99	2056.32	17.68	-10.44	14.55	3.40	17.91	125.67
2119.00	8.87	113.85	2117.70	26.39	-14.28	22.36	2.80	26.53	122.57
2181.00	11.00	119.22	2178.77	37.07	-19.10	31.90	3.74	37.18	120.92
2244.00	12.28	120.35	2240.47	49.76	-25.42	42.92	2.06	49.89	120.64
2307.00	13.89	116.61	2301.84	64.01	-32.20	55.47	2.89	64.13	120.13
2368.00	14.35	114.72	2360.99	78.89	-38.64	68.88	1.07	78.98	119.29
2432.00	14.98	112.55	2422.91	95.07	-45.13	83.72	1.31	95.11	118.32
2494.00	15.11	115.81	2482.78	111.14	-51.72	98.40	1.38	111.16	117.73
2557.00	14.71	112.94	2543.66	127.33	-58.41	113.16	1.33	127.34	117.30
2619.00	14.46	111.27	2603.67	142.90	-64.29	127.62	0.79	142.90	116.74
2683.00	13.43	112.98	2665.78	158.27	-70.09	141.91	1.73	158.27	116.28
2745.00	12.65	117.18	2726.18	172.25	-76.00	154.58	1.98	172.25	116.18
2808.00	12.61	116.42	2787.66	186.02	-82.21	166.87	0.27	186.02	116.23
2871.00	12.26	116.51	2849.18	199.59	-88.26	179.02	0.56	199.59	116.24
2934.00	12.80	116.68	2910.68	213.25	-94.37	191.24	0.86	213.26	116.27
2997.00	12.31	115.91	2972.17	226.95	-100.44	203.51	0.82	226.95	116.27
3058.00	11.67	117.70	3031.84	239.62	-106.15	214.83	1.21	239.62	116.30
3121.00	10.87	113.97	3093.63	251.92	-111.53	225.90	1.72	251.93	116.28
3183.00	9.26	107.07	3154.67	262.68	-115.37	236.01	3.24	262.70	116.05
3247.00	7.10	108.37	3218.02	271.68	-118.12	244.68	3.39	271.71	115.77
3310.00	5.84	113.06	3280.62	278.73	-120.61	251.33	2.17	278.77	115.64
3374.00	4.38	129.70	3344.36	284.36	-123.44	256.21	3.23	284.39	115.73
3436.00	3.91	135.70	3406.20	288.67	-126.47	259.50	1.03	288.68	115.98
3498.00	3.03	129.47	3468.09	292.26	-129.02	262.25	1.54	292.27	116.20
3562.00	1.96	108.75	3532.03	294.99	-130.45	264.59	2.16	295.00	116.24
3601.00	1.15	86.80	3571.01	295.99	-130.64	265.61	2.54	296.00	116.19
3645.00	0.24	62.04	3615.01	296.43	-130.58	266.13	2.13	296.44	116.13

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Site: Rio Arriba County, NM
Well: San Juan 28-7 #222F
Wellpath: DH - Job #32D0107056
Survey: 01/15/07-02/01/07