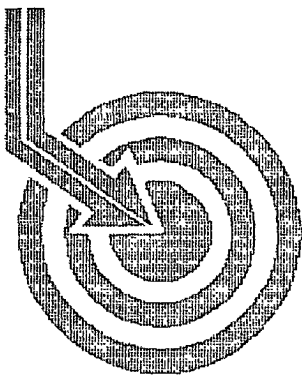




Scientific Drilling

CONOCOPHILLIPS

Field: San Juan 30-039-29855
Site: Rio Arriba County, NM
Well: San Juan 28-5 #102N
Wellpath: DH - Job #33D0707609
Survey: 07/17/07-07/27/07

Surface 830/S 2475/E
BHL 1144/S 1615/W

Section is 5657'
OK South margin

M88923
Tvd 8647

RCVD NOV 14 '07

OIL CONS. DIV.

DIST.

8475

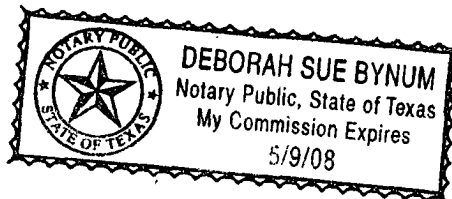
This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 23rd of August, 2007.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas



Submit 'As Drilled' plat



Scientific
Drilling

Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 08/23/2007	Time: 07:58:41	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 28-5 #102N	Section (VS) Reference: Well (0.00N,0.00E,281.33Azi)		
Wellpath: DH - Job #33D0707609	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 07/17/07-07/27/07	Start Date: 07/17/2007
E-field 0'-5705' w/projection @ 5783'	
Company: Scientific Drilling Internatio	Engineer: Vestal/Gillespie/Blosser/Hedge
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	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
386.00	3.36	319.01	385.78	8.96	8.54	-7.42	0.87	11.31	319.01
417.00	3.48	321.15	416.72	10.40	9.96	-8.61	0.57	13.16	319.16
447.00	3.44	323.78	446.67	11.76	11.39	-9.71	0.55	14.97	319.56
507.00	3.37	320.49	506.56	14.46	14.21	-11.90	0.35	18.53	320.06
599.00	4.21	306.85	598.36	19.60	18.32	-16.32	1.33	24.53	318.30
660.00	5.12	304.14	659.16	24.13	21.19	-20.36	1.53	29.39	316.14
721.00	6.05	306.09	719.87	29.56	24.61	-25.21	1.56	35.23	314.31
782.00	7.28	301.77	780.46	36.10	28.54	-31.10	2.18	42.21	312.54
845.00	8.95	298.88	842.82	44.51	33.01	-38.78	2.73	50.93	310.40
908.00	10.25	292.75	904.94	54.68	37.54	-48.24	2.62	61.13	307.89
969.00	12.20	286.76	964.77	66.42	41.50	-59.42	3.72	72.48	304.93
1030.00	13.66	279.98	1024.23	80.04	44.61	-72.69	3.45	85.29	301.54
1094.00	15.38	273.50	1086.19	96.00	46.44	-88.61	3.69	100.04	297.66
1157.00	16.87	268.25	1146.71	113.18	46.67	-106.08	3.31	115.89	293.75
1221.00	18.63	267.77	1207.66	132.17	45.99	-125.58	2.76	133.74	290.11
1283.00	20.15	266.18	1266.14	152.10	44.89	-146.13	2.60	152.87	287.08
1346.00	22.45	264.33	1324.84	174.09	42.98	-168.93	3.80	174.32	284.27
1409.00	24.76	265.15	1382.56	198.26	40.67	-194.05	3.70	198.27	281.84
1472.00	25.72	268.16	1439.55	224.25	39.12	-220.86	2.54	224.30	280.04
1566.00	26.09	271.23	1524.11	264.46	38.91	-261.92	1.48	264.79	278.45
1630.00	25.71	271.25	1581.68	291.98	39.51	-289.87	0.59	292.55	277.76
1693.00	24.51	273.73	1638.73	318.39	40.66	-316.57	2.53	319.17	277.32
1755.00	22.85	276.31	1695.50	343.13	42.82	-341.37	3.16	344.05	277.15
1818.00	22.93	278.72	1753.55	367.58	46.03	-365.66	1.49	368.55	277.17
1881.00	22.44	281.38	1811.67	391.86	50.26	-389.58	1.80	392.81	277.35
1944.00	22.43	283.74	1869.91	415.89	55.49	-413.04	1.43	416.75	277.65
2009.00	22.07	285.18	1930.07	440.47	61.63	-436.87	1.01	441.20	278.03
2072.00	22.54	285.50	1988.35	464.32	67.95	-459.93	0.77	464.93	278.40
2134.00	22.08	286.45	2045.71	487.78	74.43	-482.56	0.94	488.27	278.77
2197.00	22.21	286.63	2104.06	511.43	81.19	-505.32	0.23	511.81	279.13
2260.00	22.92	286.93	2162.24	535.49	88.17	-528.47	1.14	535.77	279.47
2323.00	22.94	287.09	2220.26	559.92	95.35	-551.94	0.10	560.12	279.80
2385.00	23.42	287.03	2277.26	584.20	102.51	-575.27	0.78	584.33	280.10
2449.00	22.58	285.53	2336.17	609.11	109.53	-599.27	1.60	609.20	280.36
2513.00	22.03	284.13	2395.38	633.35	115.75	-622.75	1.19	633.42	280.53
2576.00	20.86	281.60	2454.02	656.37	120.89	-645.20	2.37	656.42	280.61
2640.00	20.43	281.35	2513.91	678.94	125.38	-667.31	0.69	678.99	280.64
2703.00	20.65	281.52	2572.90	701.04	129.76	-688.98	0.36	701.09	280.67
2765.00	19.68	281.52	2631.10	722.41	134.03	-709.92	1.56	722.46	280.69
2828.00	19.35	281.59	2690.48	743.46	138.24	-730.54	0.53	743.50	280.72
2891.00	18.84	282.11	2750.02	764.07	142.47	-750.71	0.85	764.11	280.75
2954.00	18.19	282.43	2809.76	784.07	146.72	-770.26	1.04	784.11	280.78
3018.00	18.45	283.40	2870.51	804.18	151.22	-789.86	0.63	804.21	280.84
3081.00	18.38	282.65	2930.29	824.07	155.71	-809.25	0.39	824.10	280.89
3142.00	18.62	281.98	2988.13	843.42	159.83	-828.16	0.53	843.45	280.92
3204.00	19.51	281.53	3046.73	863.68	163.96	-847.99	1.45	863.70	280.94
3265.00	20.31	280.91	3104.09	884.45	168.00	-868.37	1.36	884.47	280.95
3326.00	20.82	281.21	3161.20	905.88	172.11	-889.40	0.85	905.89	280.95



Scientific
Drilling

Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 08/23/2007	Time: 07:58:41	Page: 2
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-28-5 #102N	Section (VS) Reference:	Well (0.00N,0.00E,281.33Azi)	
Wellpath: DH - Job #33D0707609	Survey Calculation Method:	Minimum Curvature Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3387.00	21.30	282.40	3218.12	927.79	176.60	-910.85	1.05	927.81	280.97
3450.00	20.48	282.06	3276.98	950.25	181.36	-932.80	1.32	950.27	281.00
3514.00	21.38	282.74	3336.76	973.11	186.27	-955.13	1.46	973.13	281.04
3575.00	21.62	283.55	3393.52	995.46	191.35	-976.90	0.63	995.47	281.08
3636.00	21.31	283.28	3450.28	1017.76	196.53	-998.61	0.53	1017.77	281.13
3699.00	20.41	282.47	3509.15	1040.19	201.53	-1020.48	1.50	1040.19	281.17
3761.00	19.59	283.13	3567.42	1061.39	206.23	-1041.16	1.37	1061.39	281.20
3824.00	19.80	283.73	3626.73	1082.60	211.16	-1061.81	0.46	1082.60	281.25
3888.00	21.19	283.47	3686.68	1104.99	216.43	-1083.59	2.18	1104.99	281.30
3949.00	22.38	284.53	3743.32	1127.61	221.91	-1105.56	2.05	1127.61	281.35
4012.00	21.34	283.33	3801.79	1151.04	227.56	-1128.32	1.80	1151.04	281.40
4075.00	20.85	283.10	3860.57	1173.70	232.75	-1150.39	0.79	1173.70	281.44
4139.00	20.24	280.85	3920.50	1196.15	237.41	-1172.36	1.56	1196.16	281.45
4203.00	19.47	279.41	3980.69	1217.89	241.24	-1193.76	1.43	1217.89	281.42
4266.00	18.83	278.44	4040.21	1238.53	244.45	-1214.17	1.13	1238.53	281.38
4327.00	18.51	278.75	4098.00	1258.04	247.37	-1233.48	0.55	1258.04	281.34
4391.00	18.59	278.82	4158.67	1278.38	250.48	-1253.60	0.13	1278.38	281.30
4454.00	17.70	280.75	4218.54	1297.99	253.80	-1272.93	1.70	1297.99	281.28
4517.00	17.47	280.57	4278.59	1317.02	257.32	-1291.64	0.38	1317.02	281.27
4578.00	18.84	282.33	4336.56	1336.02	261.11	-1310.26	2.42	1336.03	281.27
4640.00	19.27	283.83	4395.16	1356.25	265.69	-1329.98	1.05	1356.25	281.30
4703.00	18.88	283.86	4454.70	1376.82	270.62	-1349.97	0.62	1376.82	281.34
4769.00	18.55	284.69	4517.21	1397.97	275.84	-1370.49	0.64	1397.97	281.38
4828.00	18.73	285.13	4573.12	1416.79	280.69	-1388.71	0.39	1416.79	281.43
4889.00	18.66	284.27	4630.90	1436.31	285.65	-1407.62	0.47	1436.31	281.47
4951.00	17.56	281.91	4689.83	1455.57	290.03	-1426.39	2.13	1455.58	281.49
5013.00	15.87	281.91	4749.20	1473.40	293.71	-1443.84	2.73	1473.41	281.50
5076.00	14.56	279.34	4810.00	1489.93	296.77	-1460.08	2.34	1489.93	281.49
5137.00	13.12	277.82	4869.22	1504.50	298.95	-1474.50	2.43	1504.51	281.46
5201.00	12.68	276.86	4931.61	1518.75	300.78	-1488.67	0.76	1518.76	281.42
5265.00	11.59	278.01	4994.18	1532.18	302.52	-1502.02	1.74	1532.18	281.39
5327.00	10.74	277.88	5055.00	1544.16	304.18	-1513.91	1.37	1544.16	281.36
5391.00	10.38	278.78	5117.92	1555.87	305.87	-1525.51	0.62	1555.87	281.34
5485.00	7.28	281.09	5210.79	1570.29	308.31	-1539.73	3.32	1570.29	281.32
5517.00	6.31	282.80	5242.57	1574.08	309.09	-1543.43	3.10	1574.08	281.32
5580.00	5.39	279.78	5305.24	1580.50	310.36	-1549.72	1.54	1580.50	281.32
5641.00	5.14	277.86	5365.98	1586.09	311.22	-1555.25	0.50	1586.09	281.32
5705.00	5.09	282.50	5429.73	1591.79	312.23	-1560.87	0.65	1591.79	281.31
5783.00	5.09	282.50	5507.42	1598.71	313.73	-1567.62	0.00	1598.71	281.32



Scientific
Drilling

Field: San Juan
Site: Rio Arriba County, NM
Well: San Juan 28-5 #102N
Wellpath: DH - Job #33D0707609
Survey: 07/17/07-07/27/07

