



Directional Services

Job Number: 0532175091009
 Company: Conocophillips Company
 Lease/Well: San Juan 29-6, Well #33F
 Location: Rio Arriba County, NM
 Rig Name: Production/Schlumberger
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico/USA
 Declination: 11.00°
 Grid: East To Grid
 File name: F:\2005SU~1\CONOCO~1\SJUAN33F.SVY
 Date/Time: 25-Apr-05 / 08:37
 Curve Name: 4,300' - 8,138' M.D.

Handwritten:
 Surface 2385' N 1695'E
 B/L 2494' N 1547'E

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 4300 MD to 8138 MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.

Signature: Dale Dyer
 Multi-Shot Date 4-25-05

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Assumed Vertical									
4200.00	.00	.00	4200.00	.00	.00	.00	.00	.00	.00
4300.00	1.93	152.52	4299.98	-1.49	.78	-1.49	1.68	152.52	1.93
4400.00	4.71	156.72	4399.80	-6.76	3.18	-6.76	7.47	154.83	2.79
4500.00	6.23	157.75	4499.35	-15.55	6.85	-15.55	17.00	156.22	1.52
4600.00	8.30	148.87	4598.54	-26.76	12.64	-26.76	29.59	154.71	2.35
4700.00	9.96	152.24	4697.27	-40.59	20.40	-40.59	45.43	153.31	1.74
4800.00	8.46	151.73	4795.98	-54.72	27.91	-54.72	61.43	152.97	1.50
4900.00	7.51	152.08	4895.01	-66.97	34.46	-66.97	75.32	152.77	.95
5000.00	6.26	152.92	4994.28	-77.60	40.00	-77.60	87.31	152.73	1.25
5100.00	4.44	151.79	5093.85	-85.87	44.31	-85.87	96.63	152.70	1.82

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5200.00	3.21	149.33	5193.62	-91.69	47.57	-91.69	103.29	152.58	1.24
5300.00	2.11	145.61	5293.51	-95.62	50.04	-95.62	107.92	152.38	1.11
5400.00	1.44	138.94	5393.46	-98.08	51.90	-98.08	110.97	152.11	.70
5500.00	1.18	127.23	5493.44	-99.65	53.55	-99.65	113.13	151.75	.37
5600.00	.79	146.97	5593.42	-100.85	54.74	-100.85	114.75	151.51	.51
5700.00	.53	149.69	5693.42	-101.83	55.35	-101.83	115.90	151.47	.26
5800.00	.19	201.01	5793.41	-102.38	55.53	-102.38	116.47	151.53	.44
5900.00	.33	121.85	5893.41	-102.69	55.71	-102.69	116.83	151.52	.35
6100.00	.38	181.56	6093.41	-103.66	56.18	-103.66	117.91	151.54	.18
6200.00	.41	192.15	6193.41	-104.34	56.10	-104.34	118.46	151.73	.08
6300.00	.33	216.16	6293.41	-104.92	55.85	-104.92	118.86	151.97	.17
6400.00	.26	247.67	6393.40	-105.24	55.47	-105.24	118.97	152.21	.17
6500.00	.48	249.13	6493.40	-105.48	54.87	-105.48	118.90	152.51	.22
6600.00	.35	223.82	6593.40	-105.85	54.27	-105.85	118.95	152.85	.22
6700.00	.24	211.56	6693.40	-106.24	53.95	-106.24	119.16	153.08	.13
6800.00	.31	191.52	6793.40	-106.69	53.79	-106.69	119.48	153.25	.12
6900.00	.65	183.68	6893.39	-107.52	53.69	-107.52	120.18	153.46	.35
7000.00	.31	9.34	6993.39	-107.82	53.70	-107.82	120.45	153.52	.96
7200.00	.09	140.84	7193.39	-107.41	53.89	-107.41	120.17	153.36	.19
7300.00	.40	230.84	7293.39	-107.69	53.67	-107.69	120.32	153.51	.41
7400.00	.45	214.99	7393.39	-108.23	53.17	-108.23	120.59	153.84	.13
7500.00	.59	207.52	7493.38	-109.01	52.71	-109.01	121.08	154.19	.16
7600.00	.31	161.20	7593.38	-109.72	52.56	-109.72	121.66	154.40	.44
7700.00	.71	266.40	7693.38	-110.02	52.03	-110.02	121.70	154.69	.85
7800.00	.67	259.21	7793.37	-110.16	50.83	-110.16	121.33	155.23	.10
7900.00	1.01	276.75	7893.36	-110.17	49.39	-110.17	120.73	155.86	.42
8000.00	1.56	297.63	7993.33	-109.44	47.30	-109.44	119.22	156.62	.71
8100.00	1.65	91.09	8093.32	-108.83	47.54	-108.83	118.76	156.40	3.12
Last Survey Depth Recorded									
8138.00	1.60	302.46	8131.31	-108.56	47.64	-108.56	118.55	156.31	8.23