



Job Number: 04178
 Company: Devon Energy Production Co.
 Lease/Well: NEBU #460A
 Location: San Juan County, Sec. 7-31N-6W
 Rig Name: D&J #1
 RKB:
 G.L. or M.S.L.: 6489'

State/Country: New Mexico / USA
 Declination: 10.92° East
 Grid:
 File name: C:\CUST04\SURVEYS\DEVON\04178.SVY
 Date/Time: 09-Aug-04 / 08:07
 Curve Name: As Drilled

30-045-32279

Surface: 935/S 1340/E
 BHL: 1497/S 1253/E



WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 9.05
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
302.00	.50	63.40	302.00	.77	.59	1.18	1.32	63.40	.17
395.00	2.30	355.40	394.97	2.82	2.63	1.39	2.98	27.86	2.33
485.00	4.80	.50	484.79	8.30	8.20	1.28	8.30	8.87	2.80
576.00	7.60	7.80	575.25	18.08	17.97	2.13	18.10	6.76	3.19
668.00	10.90	7.90	666.04	32.86	32.62	4.15	32.88	7.25	3.59
762.00	12.70	9.90	758.05	52.08	51.60	7.15	52.09	7.89	1.96
858.00	14.20	9.50	851.41	74.41	73.61	10.91	74.41	8.43	1.57
951.00	14.30	8.30	941.55	97.30	96.23	14.45	97.31	8.54	.34
1046.00	14.60	10.00	1033.55	121.00	119.63	18.22	121.01	8.66	.55
1138.00	14.60	8.90	1122.58	144.19	142.50	22.03	144.19	8.79	.30
1232.00	14.90	9.50	1213.48	168.13	166.13	25.86	168.13	8.85	.36
1326.00	14.20	10.80	1304.46	191.73	189.37	30.01	191.73	9.01	.82
1420.00	14.20	8.10	1395.59	214.79	212.11	33.80	214.79	9.05	.70
1513.00	14.70	10.30	1485.65	237.99	235.01	37.51	237.99	9.07	.80
1607.00	15.00	11.00	1576.51	262.07	258.69	41.97	262.07	9.21	.37
1699.00	14.70	10.60	1665.44	285.64	281.85	46.39	285.64	9.35	.34
1791.00	14.50	7.70	1754.47	308.82	304.74	50.08	308.83	9.33	.82
1885.00	14.70	8.50	1845.43	332.51	328.20	53.42	332.51	9.24	.30
1979.00	15.40	8.10	1936.21	356.92	352.35	56.94	356.92	9.18	.75
2073.00	14.50	9.20	2027.03	381.17	376.32	60.58	381.17	9.14	1.00
2165.00	14.10	9.60	2116.18	403.89	398.74	64.29	403.89	9.16	.45
2258.00	14.30	8.90	2206.33	426.70	421.26	67.95	426.70	9.16	.28
2351.00	14.70	8.90	2296.37	449.99	444.26	71.56	449.99	9.15	.43
2445.00	15.00	9.50	2387.23	474.08	468.04	75.41	474.08	9.15	.36

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2538.00	15.20	5.80	2477.02	498.29	492.04	78.63	498.29	9.08	1.06
2633.00	13.60	5.60	2569.04	521.87	515.55	80.98	521.87	8.93	1.69
2726.00	10.90	7.90	2659.91	541.58	535.15	83.25	541.58	8.84	2.95
2819.00	6.90	9.50	2751.77	555.96	549.37	85.38	555.97	8.83	4.31
2912.00	3.00	9.90	2844.41	563.99	557.28	86.72	563.99	8.85	4.19
3006.00	1.10	4.60	2938.34	567.34	560.60	87.22	567.35	8.84	2.03
3096.00	.30	293.80	3028.34	568.27	561.56	87.07	568.27	8.81	1.16