

SURVEY DATA

BENSON

14-SEP-1997
06:06:07

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
9446.00	0.57	32.77	9445.19	40.81 N	27.39 E	47.98	0.00
9557.00	1.00	35.00	9556.18	42.07 N	28.24 E	49.46	0.39
9652.00	2.00	43.00	9651.15	43.96 N	29.85 E	51.80	1.07
9747.00	3.50	35.00	9746.03	47.55 N	32.65 E	56.16	1.63
9842.00	5.25	27.00	9840.75	53.80 N	36.28 E	63.31	1.95
9937.00	6.50	23.00	9935.25	62.62 N	40.36 E	73.01	1.38
10032.00	7.50	24.00	10029.54	73.23 N	44.98 E	84.57	1.06
10127.00	9.25	25.00	10123.53	85.82 N	50.73 E	98.39	1.85
10222.00	10.75	18.00	10217.09	101.17 N	56.69 E	114.86	2.03
10317.00	12.50	16.00	10310.13	119.48 N	62.27 E	133.94	1.89
10412.00	14.50	15.00	10402.50	140.85 N	68.18 E	156.00	2.12
10507.00	15.75	14.00	10494.21	164.85 N	74.38 E	180.61	1.34
10602.00	15.00	13.00	10585.81	189.34 N	80.26 E	205.56	0.84
10697.00	16.25	12.00	10677.30	214.32 N	85.79 E	230.84	1.35
10792.00	16.75	11.00	10768.39	240.76 N	91.17 E	257.43	0.61
10887.00	17.25	10.00	10859.24	268.07 N	96.22 E	284.71	0.61
10982.00	17.25	9.00	10949.96	295.85 N	100.87 E	312.28	0.31
11077.00	17.25	8.00	11040.69	323.71 N	105.04 E	339.75	0.31
11172.00	17.00	9.00	11131.48	351.38 N	109.17 E	367.02	0.41
11267.00	16.00	10.00	11222.57	377.99 N	113.62 E	393.43	1.09
11362.00	15.00	12.00	11314.11	402.91 N	118.45 E	418.40	1.19
11457.00	13.50	14.00	11406.18	425.70 N	123.68 E	441.53	1.66
11552.00	11.75	15.00	11498.88	445.80 N	128.87 E	462.14	1.86
11647.00	10.00	14.00	11592.17	463.15 N	133.37 E	479.94	1.85
11742.00	11.00	8.00	11685.59	480.13 N	136.63 E	496.94	1.56
11837.00	11.75	14.00	11778.72	498.49 N	140.23 E	515.35	1.47
11932.00	13.00	15.00	11871.51	518.20 N	145.33 E	535.57	1.33
12027.00	14.50	18.00	11963.79	539.83 N	151.78 E	558.06	1.75
12122.00	14.00	19.00	12055.87	562.01 N	159.19 E	581.42	0.59
12217.00	13.50	20.00	12148.14	583.29 N	166.73 E	603.99	0.58
12312.00	13.50	25.00	12240.52	603.76 N	175.21 E	626.14	1.23
12407.00	11.75	27.00	12333.22	622.43 N	184.28 E	646.83	1.90
12502.00	10.00	29.00	12426.51	638.27 N	192.67 E	664.63	1.88
12597.00	10.50	31.00	12520.00	652.90 N	201.13 E	681.34	0.65
12692.00	11.00	33.00	12613.33	667.92 N	210.53 E	698.75	0.66
12787.00	12.75	35.00	12706.29	684.11 N	221.48 E	717.81	1.89
12882.00	14.50	33.00	12798.62	702.67 N	233.97 E	739.65	1.91
12977.00	15.50	30.00	12890.38	723.64 N	246.79 E	763.84	1.33
13072.00	13.75	30.00	12982.30	744.42 N	258.79 E	787.56	1.84
13167.00	12.00	30.00	13074.91	762.75 N	269.37 E	808.48	1.84

THE DOGLEG SEVERITY IS IN DEGREES PER 100 FEET
THE VERTICAL SECTION WAS COMPUTED ALONG 21.32°

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE
DISPLACEMENT IS 808.91 FEET IN THE DIRECTION OF 19.45°