

Directional Survey Data

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1422.20	11.22	343.21	1415.89	83.46 N	78.93 E	31.13	TIE-IN
1448.92	11.13	335.09	1442.11	88.29 N	77.09 E	36.18	1.77
1478.50	11.21	333.76	1471.13	93.46 N	74.62 E	41.86	0.27
1505.80	13.36	330.94	1497.80	98.60 N	71.91 E	47.64	2.46
1534.10	15.06	328.17	1525.23	104.58 N	68.39 E	54.58	1.94
1562.60	14.46	326.79	1552.79	110.70 N	64.48 E	61.84	0.73
1591.10	15.41	325.21	1580.33	116.79 N	60.37 E	69.18	1.09
1619.90	16.97	325.08	1607.99	123.38 N	55.78 E	77.21	1.62
1648.40	19.06	324.95	1635.09	130.60 N	50.73 E	86.02	2.20
1676.30	21.07	324.92	1661.29	138.43 N	45.23 E	95.58	2.16
1704.70	22.48	322.82	1687.67	146.94 N	39.02 E	106.10	1.71
1733.51	24.18	319.82	1714.12	155.83 N	31.88 E	117.45	2.15
1762.70	25.94	317.82	1740.56	165.13 N	23.74 E	129.69	2.01
1790.19	26.09	317.09	1765.27	174.02 N	15.58 E	141.59	0.39
1818.80	25.92	317.21	1790.98	183.21 N	7.05 E	153.95	0.19
1847.14	25.86	317.01	1816.48	192.28 N	1.37 W	166.15	0.11
1874.99	25.95	316.86	1841.53	201.17 N	9.68 W	178.13	0.12
1903.23	26.11	316.97	1866.90	210.22 N	18.14 W	190.34	0.18
1931.75	26.41	317.03	1892.48	219.45 N	26.75 W	202.77	0.32
1960.20	26.58	317.27	1917.94	228.75 N	35.38 W	215.28	0.21
1988.64	26.69	317.39	1943.36	238.13 N	44.02 W	227.86	0.13
2017.50	27.13	317.56	1969.10	247.75 N	52.85 W	240.74	0.47
2044.50	26.86	317.53	1993.16	256.80 N	61.12 W	252.84	0.30
2072.70	26.68	317.64	2018.33	266.18 N	69.69 W	265.38	0.20
2101.20	26.33	317.93	2043.84	275.60 N	78.24 W	277.94	0.40
2129.90	26.31	318.14	2069.56	285.06 N	86.75 W	290.51	0.10
2158.10	26.09	317.78	2094.86	294.30 N	95.08 W	302.81	0.28
2186.50	26.25	318.01	2120.35	303.60 N	103.48 W	315.18	0.20
2214.90	26.83	318.53	2145.76	313.07 N	111.93 W	327.73	0.66
2243.70	27.01	318.44	2171.44	322.83 N	120.57 W	340.63	0.19
2273.40	27.10	318.20	2197.89	332.92 N	129.56 W	353.99	0.14
2299.40	27.47	318.10	2221.00	341.80 N	137.51 W	365.77	0.43
2328.10	27.48	317.78	2246.46	351.63 N	146.38 W	378.85	0.15
2356.75	26.94	317.55	2271.94	361.31 N	155.20 W	391.78	0.58
2385.31	26.43	317.27	2297.46	370.76 N	163.88 W	404.43	0.55
2413.65	26.42	317.17	2322.84	380.01 N	172.44 W	416.87	0.05
2441.95	26.71	317.47	2348.15	389.32 N	181.02 W	429.35	0.34
2470.60	27.16	317.72	2373.69	398.90 N	189.77 W	442.16	0.48
2499.50	27.73	317.98	2399.34	408.77 N	198.71 W	455.31	0.61
2528.20	27.79	317.62	2424.74	418.68 N	207.69 W	468.51	0.18

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2555.70	28.01	317.89	2449.04	428.20 N	216.34 W	481.22	0.28
2584.30	28.12	317.32	2474.28	438.14 N	225.41 W	494.50	0.31
2612.60	28.53	317.31	2499.19	448.01 N	234.52 W	507.74	0.43
2641.10	28.87	317.52	2524.19	458.09 N	243.78 W	521.24	0.37
2670.20	29.48	317.74	2549.60	468.57 N	253.34 W	535.24	0.64
2697.70	28.91	317.83	2573.60	478.50 N	262.35 W	548.49	0.62
2726.40	29.06	318.19	2598.71	488.84 N	271.66 W	562.23	0.24
2754.70	29.77	318.24	2623.36	499.20 N	280.92 W	575.98	0.76
2783.10	30.38	318.74	2647.93	509.86 N	290.35 W	590.06	0.69
2811.60	30.37	318.47	2672.52	520.67 N	299.88 W	604.32	0.14
2840.20	30.86	318.89	2697.13	531.61 N	309.50 W	618.74	0.56
2953.40	32.74	319.04	2793.34	576.60 N	348.65 W	677.81	0.50
3074.10	34.58	319.20	2893.81	627.18 N	392.43 W	744.09	0.46
3098.40	34.55	319.50	2913.82	637.64 N	401.41 W	757.76	0.21
3126.50	35.92	319.21	2936.77	649.94 N	411.97 W	773.83	1.47
3156.00	36.61	319.68	2960.56	663.20 N	423.31 W	791.14	0.76
3163.20	36.72	319.51	2966.33	666.47 N	426.10 W	795.40	0.62
3182.40	36.95	319.91	2981.70	675.25 N	433.54 W	806.82	0.52
3211.10	36.61	320.18	3004.69	688.42 N	444.57 W	823.88	0.39
3239.20	35.04	320.93	3027.47	701.12 N	455.02 W	840.23	1.74
3268.00	34.40	321.36	3051.14	713.89 N	465.32 W	856.55	0.72
3305.00	34.40	321.36	3081.67	730.22 N	478.37 W	877.36	0.00

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CALCULATION BASED ON Minimum Curvature METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT

TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD

VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 326.86 DEGREES (GRID)

A TOTAL CORRECTION OF -1.94 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.

HORIZONTAL DISPLACEMENT(CLOSURE) AT 3305.00 METRES

IS 877.36 METRES ALONG 326.69 DEGREES (GRID)