

Hart 9H

MD (usft)	CL (usft)	Inc (°)	Azi (°)	TVD (usft)	NS (usft)	EW (usft)	orthing (usft)	asting (usft)	V. Sec (usft)	leg (°/100usft)
0		0	0	0	0	0	516907	1644567	0	0
100	100	0.37	125.04	100	-0.19	0.26	516906.9	1644567	0.32	0.37
125	25	0.3	139.26	125	-0.28	0.37	516906.8	1644567	0.46	0.43
150	25	0.47	129.61	150	-0.4	0.49	516906.6	1644567	0.63	0.73
175	25	0.47	136.76	175	-0.54	0.64	516906.5	1644567	0.83	0.23
200	25	0.52	136.85	200	-0.69	0.79	516906.3	1644567	1.05	0.2
225	25	0.53	122.89	225	-0.84	0.97	516906.2	1644568	1.27	0.51
250	25	0.57	120.54	249.99	-0.97	1.17	516906.1	1644568	1.5	0.18
275	25	0.69	122.06	274.99	-1.11	1.41	516905.9	1644568	1.77	0.48
300	25	0.77	122.42	299.99	-1.28	1.67	516905.7	1644568	2.07	0.32
325	25	0.79	121.86	324.99	-1.46	1.96	516905.6	1644569	2.4	0.09
350	25	0.92	121.53	349.99	-1.66	2.28	516905.4	1644569	2.76	0.52
375	25	0.93	119.74	374.98	-1.86	2.63	516905.2	1644569	3.15	0.12
400	25	0.84	116.26	399.98	-2.04	2.97	516905	1644570	3.51	0.42
425	25	0.8	115.41	424.98	-2.2	3.29	516904.8	1644570	3.84	0.17
450	25	0.75	112.5	449.97	-2.34	3.6	516904.7	1644570	4.15	0.25
475	25	0.53	126.14	474.97	-2.47	3.84	516904.5	1644571	4.41	1.06
500	25	0.33	141.25	499.97	-2.59	3.98	516904.4	1644571	4.6	0.91
525	25	0.2	137.46	524.97	-2.68	4.06	516904.3	1644571	4.71	0.52
550	25	0.13	149.16	549.97	-2.74	4.1	516904.3	1644571	4.78	0.31
575	25	0.25	123.53	574.97	-2.79	4.16	516904.2	1644571	4.87	0.58
600	25	0.32	123.6	599.97	-2.86	4.26	516904.1	1644571	4.99	0.28
625	25	0.2	118.05	624.97	-2.92	4.36	516904.1	1644571	5.1	0.49
650	25	0.11	212.16	649.97	-2.96	4.39	516904	1644571	5.14	0.94
675	25	0.11	292.31	674.97	-2.97	4.35	516904	1644571	5.13	0.57
700	25	0.23	324.01	699.97	-2.92	4.3	516904.1	1644571	5.06	0.59
725	25	0.32	351.59	724.97	-2.81	4.26	516904.2	1644571	4.95	0.63
750	25	0.21	77.78	749.97	-2.73	4.29	516904.3	1644571	4.91	1.48
775	25	0.38	34.82	774.97	-2.65	4.39	516904.3	1644571	4.92	1.07
800	25	0.42	35.01	799.97	-2.51	4.49	516904.5	1644571	4.88	0.16
825	25	0.19	55.34	824.97	-2.41	4.57	516904.6	1644571	4.86	1
850	25	0.27	184.28	849.97	-2.45	4.6	516904.5	1644571	4.91	1.67
851.49	1.49	0.3	185.97	851.46	-2.46	4.6	516904.5	1644571	4.92	2.09

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933	81.51	0.14	230.33	932.97	-2.73	4.5	516904.3	1644571	5.05	0.27
965	32	0.23	250.04	964.97	-2.78	4.41	516904.2	1644571	5.03	0.34
1059	94	0.96	184.7	1058.96	-3.63	4.17	516903.4	1644571	5.49	0.95
1108	49	1.59	183.65	1107.95	-4.71	4.09	516902.3	1644571	6.24	1.29
1154	46	1.86	179.4	1153.93	-6.1	4.06	516900.9	1644571	7.24	0.65
1200	46	2.37	168.41	1199.9	-7.78	4.26	516899.2	1644571	8.62	1.41
1249	49	2.83	160.23	1248.85	-9.91	4.87	516897.1	1644571	10.6	1.2
1298	49	3.51	149.89	1297.77	-12.34	6.03	516894.6	1644573	13.19	1.81
1343	45	4.23	143.8	1342.67	-14.87	7.71	516892.1	1644574	16.18	1.84
1438	95	5.1	138.58	1437.36	-20.87	12.57	516886	1644579	23.89	1.02
1533	95	5.12	136.3	1531.98	-27.1	18.29	516879.7	1644585	32.35	0.21
1628	95	4.38	134.77	1626.65	-32.72	23.8	516874	1644590	40.21	0.79
1722	94	2.55	138.09	1720.48	-36.8	27.74	516869.9	1644594	45.89	1.96
1817	95	1.88	140.67	1815.4	-39.58	30.14	516867.1	1644596	49.55	0.71
1912	95	1.96	134.33	1910.35	-41.92	32.29	516864.7	1644598	52.73	0.24
2005	93	2.22	116.09	2003.29	-43.83	35.05	516862.8	1644601	56	0.76
2100	95	2.36	89.28	2098.22	-44.61	38.65	516861.9	1644605	59.01	1.13
2158	58	2.36	77.31	2156.17	-44.33	41.01	516862.2	1644607	60.39	0.85
2269	111	1.98	64.01	2267.09	-42.99	44.97	516863.5	1644611	62.06	0.57
2363	94	1.67	59.13	2361.04	-41.58	47.6	516864.9	1644614	62.8	0.37
2458	95	1.04	39.99	2456.01	-40.2	49.34	516866.2	1644616	62.96	0.81
2553	95	0.67	44.92	2551	-39.15	50.29	516867.3	1644616	62.82	0.4
2648	95	0.62	10.49	2646	-38.25	50.78	516868.1	1644617	62.48	0.41
2742	94	0.92	0.96	2739.99	-37	50.88	516869.4	1644617	61.62	0.35
2837	95	0.99	337.76	2834.98	-35.48	50.58	516870.9	1644617	60.3	0.41
2932	95	0.65	346.3	2929.97	-34.19	50.14	516872.2	1644616	59.05	0.38
3027	95	0.72	313.61	3024.96	-33.26	49.58	516873.2	1644616	57.99	0.41
3121	94	0.9	319.24	3118.95	-32.29	48.68	516874.1	1644615	56.66	0.21
3215	94	0.8	342.66	3212.94	-31.1	48	516875.3	1644614	55.33	0.38
3310	95	0.68	349.12	3307.93	-29.92	47.69	516876.5	1644614	54.24	0.15
3405	95	0.59	339.64	3402.93	-28.91	47.42	516877.5	1644614	53.31	0.15
3499	94	0.73	290.46	3496.92	-28.24	46.69	516878.2	1644613	52.33	0.6
3594	95	0.99	324.49	3591.91	-27.36	45.64	516879.1	1644612	50.98	0.59
3689	95	0.33	322.48	3686.9	-26.48	45	516880	1644611	49.89	0.7
3784	95	0.39	315.85	3781.9	-26.03	44.61	516880.4	1644611	49.29	0.08
3879	95	0.68	342.16	3876.9	-25.26	44.21	516881.2	1644611	48.46	0.39
3973	94	0.51	311.06	3970.89	-24.46	43.72	516882	1644610	47.53	0.38

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4068	95	0.98	325.31	4065.89	-23.51	42.94	516883	1644609	46.31	0.53
4162	94	0.66	302.49	4159.88	-22.56	42.03	516883.9	1644608	44.99	0.48
4257	95	0.5	308.05	4254.87	-22.01	41.24	516884.5	1644608	44.05	0.18
4352	95	0.92	325.17	4349.86	-21.13	40.48	516885.4	1644607	42.89	0.49
4446	94	0.86	325.69	4443.85	-19.92	39.65	516886.6	1644606	41.44	0.06
4540	94	0.7	292.42	4537.84	-19.12	38.72	516887.4	1644605	40.22	0.5
4635	95	0.91	278.54	4632.83	-18.79	37.44	516887.8	1644604	39.11	0.3
4730	95	0.43	321.75	4727.83	-18.4	36.47	516888.2	1644603	38.17	0.7
4824	94	0.75	326.23	4821.82	-17.61	35.91	516889	1644602	37.21	0.34
4918	94	0.74	308.7	4915.82	-16.72	35.1	516889.9	1644602	36	0.24
5013	95	0.58	2.56	5010.81	-15.85	34.64	516890.7	1644601	35.06	0.65
5107	94	0.31	272.4	5104.81	-15.37	34.41	516891.2	1644601	34.54	0.7
5202	95	0.53	314.73	5199.81	-15.05	33.84	516891.6	1644600	33.92	0.39
5296	94	1.01	306.98	5293.8	-14.24	32.87	516892.4	1644599	32.67	0.52
5391	95	0.74	317.03	5388.79	-13.29	31.78	516893.3	1644598	31.24	0.33
5486	95	0.46	289.29	5483.78	-12.72	31	516893.9	1644598	30.29	0.42
5580	94	0.75	274.89	5577.78	-12.54	30.03	516894.1	1644597	29.5	0.35
5675	95	0.74	272.08	5672.77	-12.46	28.8	516894.2	1644595	28.62	0.04
5713	38	1.11	280.22	5710.76	-12.39	28.19	516894.3	1644595	28.15	1.03
5761	48	0.87	289.07	5758.76	-12.19	27.39	516894.5	1644594	27.46	0.59
5855	94	5.19	120.07	5852.64	-14.09	30.4	516892.6	1644597	30.89	6.43
5950	95	11.38	118.32	5946.61	-20.69	42.38	516885.8	1644609	43.85	6.52
6045	95	13.53	119.13	6039.37	-30.55	60.34	516875.7	1644627	63.23	2.27
6139	94	18.44	116.59	6129.7	-42.56	83.25	516863.4	1644649	87.55	5.27
6234	95	28.66	115.55	6216.68	-59.16	117.33	516846.4	1644683	122.78	10.77
6328	94	36.82	120.59	6295.69	-83.26	162	516821.7	1644728	170.69	9.15
6422	94	45.6	120.01	6366.34	-114.45	215.43	516789.8	1644781	229.74	9.35
6517	95	56.31	117.57	6426.1	-149.82	280.05	516753.6	1644845	299.42	11.45
6611	94	63.46	116.62	6473.23	-186.81	352.4	516715.7	1644917	375.5	7.66
6705	94	67.38	125.4	6512.39	-230.87	425.5	516670.7	1644989	457.32	9.46
6800	95	72.72	129.31	6544.8	-285.06	496.41	516615.6	1645059	545.14	6.82
6895	95	80.23	135.38	6567.03	-347.26	564.54	516552.6	1645127	637.01	10.05
6989	94	88.74	138.43	6576.05	-415.52	628.39	516483.5	1645190	730.47	9.61
7084	95	88.98	138.46	6577.94	-486.6	691.39	516411.6	1645252	825.44	0.25
7178	94	88.95	138.1	6579.64	-556.75	753.94	516340.6	1645313	919.42	0.38
7273	95	88.92	138.23	6581.41	-627.52	817.29	516269.1	1645376	1014.4	0.14
7368	95	88.89	138.93	6583.22	-698.75	880.13	516197	1645438	1109.36	0.74

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7462	94	88.92	138.3	6585.02	-769.26	942.26	516125.7	1645499	1203.33	0.67
7557	95	88.89	137.92	6586.83	-839.97	1005.68	516054.2	1645561	1298.31	0.4
7651	94	88.4	137	6589.06	-909.21	1069.21	515984.2	1645624	1392.28	1.11
7746	95	88.43	136.37	6591.68	-978.3	1134.36	515914.2	1645688	1487.23	0.66
7840	94	88.4	136.19	6594.28	-1046.21	1199.3	515845.5	1645752	1581.17	0.19
7935	95	88.55	135.76	6596.81	-1114.5	1265.3	515776.4	1645818	1676.1	0.48
8030	95	89.23	136.5	6598.65	-1182.97	1331.13	515707.1	1645883	1771.05	1.06
8124	94	89.29	135.98	6599.87	-1250.85	1396.13	515638.3	1645947	1865.01	0.56
8219	95	89.26	130.37	6601.07	-1315.82	1465.38	515572.5	1646015	1959.68	5.9
8314	95	89.42	130.45	6602.16	-1377.4	1537.71	515510	1646087	2053.92	0.19
8408	94	89.23	136.11	6603.27	-1441.82	1606.11	515444.7	1646154	2147.6	6.02
8503	95	89.32	140.09	6604.48	-1512.51	1669.54	515373.2	1646217	2242.57	4.19
8597	94	88.62	145.95	6606.17	-1587.55	1726.05	515297.4	1646272	2336.1	6.28
8692	95	88.25	148.38	6608.76	-1667.34	1777.54	515217	1646323	2429.75	2.59
8786	94	88.86	150.47	6611.13	-1748.24	1825.33	515135.5	1646369	2521.73	2.32
8881	95	88.92	148.8	6612.97	-1830.19	1873.35	515052.9	1646416	2614.63	1.76
8975	94	89.08	144.34	6614.61	-1908.61	1925.11	514973.9	1646467	2707.45	4.75
9069	94	89.11	143.18	6616.1	-1984.41	1980.67	514897.3	1646522	2800.9	1.23
9164	95	89.05	140.14	6617.62	-2058.9	2039.59	514822.1	1646580	2895.64	3.2
9259	95	88.95	136.87	6619.28	-2130.04	2102.51	514750.2	1646642	2990.6	3.44
9353	94	88.95	137.21	6621.01	-2198.82	2166.56	514680.6	1646705	3084.58	0.36
9448	95	88.89	139.44	6622.8	-2269.76	2229.71	514608.8	1646767	3179.55	2.35
9542	94	89.2	135.97	6624.36	-2339.27	2292.95	514538.5	1646829	3273.53	3.71
9637	95	89.51	135.82	6625.43	-2407.48	2359.07	514469.4	1646895	3368.48	0.36
9731	94	89.42	137.22	6626.31	-2475.69	2423.74	514400.4	1646958	3462.45	1.49
9826	95	89.48	136.88	6627.22	-2545.22	2488.47	514330	1647022	3557.44	0.36
9921	95	89.2	135.17	6628.32	-2613.58	2554.42	514260.8	1647087	3652.4	1.82
10015	94	89.29	137.01	6629.56	-2681.29	2619.61	514192.3	1647152	3746.35	1.96
10110	95	89.35	138.81	6630.68	-2751.78	2683.28	514121	1647214	3841.34	1.9
10205	95	89.2	138.35	6631.89	-2823.01	2746.12	514049	1647276	3936.32	0.51
10299	94	89.11	138.76	6633.27	-2893.47	2808.34	513977.7	1647338	4030.29	0.45
10394	95	89.08	138.44	6634.77	-2964.72	2871.15	513905.7	1647399	4125.27	0.34
10489	95	89.11	138.04	6636.27	-3035.57	2934.41	513834	1647462	4220.25	0.42
10583	94	89.05	138.85	6637.78	-3105.91	2996.76	513762.9	1647523	4314.23	0.86
10678	95	89.2	138.71	6639.23	-3177.36	3059.35	513690.6	1647585	4409.2	0.22
10772	94	89.08	136.76	6640.64	-3246.91	3122.56	513620.3	1647647	4503.18	2.08
10867	95	88.98	137.6	6642.25	-3316.58	3187.13	513549.8	1647711	4598.17	0.89

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10961	94	89.17	138.61	6643.77	-3386.54	3249.89	513479	1647773	4692.15	1.09
11056	95	89.14	138.07	6645.17	-3457.51	3313.03	513407.2	1647835	4787.13	0.57
11150	94	89.11	138.51	6646.61	-3527.67	3375.56	513336.3	1647897	4881.11	0.47
11245	95	89.23	137.43	6647.98	-3598.23	3439.16	513264.9	1647959	4976.1	1.14
11339	94	89.17	135.95	6649.29	-3666.62	3503.63	513195.7	1648023	5070.08	1.58
11434	95	89.29	136.13	6650.57	-3735	3569.57	513126.5	1648088	5165.03	0.23
11529	95	89.2	136.68	6651.82	-3803.79	3635.07	513056.8	1648153	5260	0.59
11623	94	89.17	139.79	6653.16	-3873.89	3697.67	512985.9	1648214	5353.97	3.31
11718	95	89.23	140.33	6654.49	-3946.72	3758.65	512912.3	1648274	5448.88	0.57
11812	94	89.14	140.93	6655.82	-4019.38	3818.27	512838.9	1648333	5542.74	0.65
11907	95	89.11	140.94	6657.28	-4093.13	3878.13	512764.4	1648392	5637.57	0.03
12001	94	89.08	141.61	6658.76	-4166.46	3936.93	512690.3	1648450	5731.37	0.71
12095	94	88.89	138.05	6660.43	-4238.26	3997.55	512617.7	1648509	5825.27	3.79
12190	95	88.86	135.26	6662.29	-4307.33	4062.73	512547.8	1648574	5920.23	2.94
12285	95	88.4	137.46	6664.56	-4376.06	4128.27	512478.3	1648638	6015.17	2.37
12379	94	88.43	139.78	6667.16	-4446.56	4190.38	512407	1648700	6109.12	2.47
12474	95	88.46	139.38	6669.74	-4518.86	4251.96	512333.9	1648760	6204.03	0.42
12569	95	88.4	139.86	6672.34	-4591.2	4313.48	512260.8	1648821	6298.93	0.51
12663	94	88.52	138.55	6674.87	-4662.33	4374.87	512188.9	1648881	6392.86	1.4
12758	95	88.46	138.71	6677.37	-4733.6	4437.64	512116.8	1648943	6487.81	0.18
12852	94	88.68	139.42	6679.72	-4804.59	4499.21	512045	1649004	6581.75	0.79
12947	95	89.23	143.21	6681.45	-4878.72	4558.57	511970.1	1649062	6676.52	4.03
13041	94	89.38	142.01	6682.59	-4953.4	4615.64	511894.7	1649118	6770.16	1.29
13135	94	89.54	142.58	6683.48	-5027.76	4673.13	511819.6	1649175	6863.85	0.63
13230	95	89.69	144.87	6684.12	-5104.35	4729.33	511742.3	1649230	6958.3	2.42
13324	94	89.35	143.95	6684.9	-5180.78	4784.03	511665.2	1649284	7051.64	1.04
13419	95	89.42	140.69	6685.92	-5255.96	4842.09	511589.3	1649341	7146.3	3.43
13514	95	89.32	139.35	6686.97	-5328.74	4903.13	511515.7	1649401	7241.21	1.41
13608	94	89.35	137.1	6688.06	-5398.84	4965.74	511444.8	1649463	7335.2	2.39
13703	95	89.45	135.19	6689.06	-5467.33	5031.55	511375.5	1649528	7430.15	2.01
13797	94	89.29	136.07	6690.09	-5534.52	5097.28	511307.5	1649592	7524.09	0.95
13891	94	89.42	135.48	6691.15	-5601.88	5162.84	511239.3	1649657	7618.03	0.64
13986	95	89.05	135.11	6692.42	-5669.4	5229.66	511170.9	1649723	7712.95	0.55
14081	95	89.45	136.15	6693.66	-5737.3	5296.09	511102.1	1649789	7807.88	1.17
14176	95	88.83	136.22	6695.08	-5805.84	5361.85	511032.8	1649853	7902.84	0.66
14270	94	88.95	139.13	6696.91	-5875.32	5425.13	510962.5	1649916	7996.81	3.1
14365	95	88.83	142.32	6698.75	-5948.83	5485.25	510888.2	1649975	8091.64	3.36

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MD (usft)	CL (usft)	Inc (°)	Azi (°)	TVD (usft)	NS (usft)	EW (usft)	orthing (usft)	asting (usft)	V.Sec (usft)	leg (°/100usft)
14460	95	88.46	142.84	6700.99	-6024.26	5542.96	510812	1650032	8186.26	0.67
14555	95	88.92	142.64	6703.17	-6099.85	5600.46	510735.7	1650088	8280.86	0.53
14649	94	88.98	142.76	6704.89	-6174.61	5657.41	510660.2	1650144	8374.47	0.14
14744	95	88.95	143.21	6706.6	-6250.46	5714.6	510583.6	1650200	8469.04	0.47
14847	103	88.95	143.21	6708.49	-6332.93	5776.27	510500.4	1650261	8571.54	0

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