

Hart 8H

MD (usft)	CL (usft)	Inc (°)	Azi (°)	TVD (usft)	NS (usft)	EW (usft)	Northing (usft)	Easting (usft)	V. Sec Office of Oil and Gas RECEIVED DEC 4 2018	Drift of 1/10 deg WV Department of Environmental Protection
0		0	0	0	0	0	516922.8	1644547		0
100	100	0.41	167.03	100	-0.35	0.08	516922.4	1644547	-0.22	0.41
125	25	0.3	157.36	125	-0.5	0.13	516922.3	1644547	-0.41	0.5
150	25	0.16	125.02	150	-0.58	0.18	516922.2	1644547	-0.5	0.74
175	25	0.17	138.45	175	-0.62	0.23	516922.1	1644547	-0.58	0.16
200	25	0.19	137.56	200	-0.68	0.29	516922.1	1644547	-0.65	0.08
225	25	0.25	142.39	225	-0.76	0.35	516922	1644547	-0.75	0.25
250	25	0.18	166.97	250	-0.84	0.39	516921.9	1644547	-0.83	0.46
275	25	0.17	155.62	275	-0.91	0.41	516921.8	1644547	-0.9	0.14
300	25	0.18	151.12	300	-0.98	0.45	516921.8	1644547	-0.97	0.07
325	25	0.22	124.39	325	-1.04	0.51	516921.7	1644547	-1.05	0.4
350	25	0.26	121.98	350	-1.1	0.59	516921.7	1644548	-1.15	0.16
375	25	0.21	105.42	375	-1.14	0.69	516921.6	1644548	-1.25	0.34
400	25	0.19	100.31	400	-1.16	0.77	516921.6	1644548	-1.33	0.11
425	25	0.25	104.6	425	-1.18	0.86	516921.6	1644548	-1.42	0.25
450	25	0.25	114.65	450	-1.22	0.97	516921.5	1644548	-1.52	0.18
475	25	0.28	126.07	475	-1.28	1.07	516921.5	1644548	-1.63	0.24
500	25	0.2	120.39	500	-1.33	1.15	516921.4	1644548	-1.74	0.33
525	25	0.09	106.08	525	-1.36	1.21	516921.4	1644548	-1.8	0.46
550	25	0.04	320.14	550	-1.36	1.22	516921.4	1644548	-1.81	0.5
575	25	0.11	304.54	575	-1.34	1.2	516921.4	1644548	-1.77	0.29
600	25	0.1	274.17	600	-1.32	1.16	516921.4	1644548	-1.73	0.22
625	25	0.11	251.93	625	-1.33	1.11	516921.4	1644548	-1.7	0.17
650	25	0.13	283.98	650	-1.33	1.06	516921.4	1644548	-1.66	0.28
675	25	0.16	297.48	675	-1.31	1	516921.4	1644548	-1.6	0.18
700	25	0.32	326.78	700	-1.23	0.93	516921.5	1644548	-1.5	0.79
725	25	0.19	330.43	725	-1.14	0.87	516921.6	1644548	-1.4	0.52
750	25	0.2	11.58	750	-1.06	0.86	516921.7	1644548	-1.34	0.55
775	25	0.36	6.17	774.99	-0.94	0.88	516921.8	1644548	-1.28	0.65
800	25	0.47	5.21	799.99	-0.76	0.9	516922	1644548	-1.17	0.44
825	25	0.99	23.08	824.99	-0.46	0.99	516922.3	1644548	-1.06	2.25
832	7	1.14	25.16	831.99	-0.34	1.04	516922.4	1644548	-1.02	2.21
965	133	0.36	131.62	964.98	0.58	1.92	516923.3	1644549	-1.12	0.97

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1014	49	0.75	144.28	1013.98	0.22	2.22	516923	1644549	-1.58	0.83
1059	45	1.35	154.74	1058.97	-0.5	2.62	516922.2	1644550	-2.34	1.39
1108	49	1.97	163.36	1107.95	-1.83	3.11	516920.9	1644550	-3.56	1.36
1154	46	2.71	171.66	1153.91	-3.66	3.49	516919.1	1644550	-5.02	1.77
1203	49	3.5	183.86	1202.84	-6.3	3.56	516916.4	1644550	-6.75	2.09
1249	46	3.91	179.88	1248.74	-9.27	3.47	516913.5	1644550	-8.56	1.05
1297	48	4.68	183.13	1296.61	-12.86	3.36	516909.9	1644550	-10.76	1.68
1343	46	5.68	183.65	1342.42	-17.01	3.12	516905.7	1644550	-13.2	2.18
1438	95	4.87	176.89	1437.02	-25.73	3.04	516897	1644550	-18.67	1.07
1533	95	3.65	167.19	1531.76	-32.7	3.93	516890	1644550	-23.78	1.49
1628	95	3.02	157.72	1626.6	-37.97	5.54	516884.7	1644552	-28.37	0.88
1722	94	1.7	143.52	1720.51	-41.38	7.31	516881.3	1644554	-31.9	1.53
1817	95	1.49	120.21	1815.48	-43.13	9.22	516879.5	1644556	-34.49	0.71
1912	95	1.45	72.59	1910.45	-43.4	11.43	516879.2	1644558	-36.37	1.25
2005	93	1.98	53.86	2003.41	-42.1	13.85	516880.5	1644560	-37.41	0.82
2101	96	2.59	48.7	2099.33	-39.69	16.82	516882.9	1644563	-38.18	0.67
2169	68	2.46	53.93	2167.27	-37.81	19.16	516884.7	1644566	-38.79	0.39
2281	112	2.54	52.95	2279.16	-34.9	23.08	516887.6	1644570	-39.98	0.08
2375	94	1.17	65.67	2373.11	-33.25	25.62	516889.2	1644572	-40.9	1.51
2470	95	1.36	149.6	2468.09	-33.82	27.07	516888.6	1644574	-42.38	1.79
2565	95	2.62	183.11	2563.04	-36.97	27.52	516885.4	1644574	-44.73	1.75
2660	95	2.54	184.23	2657.94	-41.23	27.25	516881.2	1644574	-47.22	0.1
2754	94	3.04	191.29	2751.83	-45.75	26.61	516876.7	1644573	-49.59	0.64
2849	95	3.08	192.53	2846.69	-50.72	25.56	516871.7	1644572	-51.93	0.08
2944	95	2.42	196.62	2941.58	-55.13	24.43	516867.3	1644571	-53.86	0.72
3039	95	1.9	203.02	3036.52	-58.5	23.24	516864	1644569	-55.08	0.6
3133	94	1.54	203.88	3130.47	-61.09	22.12	516861.4	1644568	-55.85	0.38
3228	95	1.17	211.08	3225.45	-63.09	21.11	516859.4	1644567	-56.34	0.43
3322	94	0.84	221.68	3319.43	-64.42	20.15	516858.1	1644566	-56.45	0.4
3417	95	0.51	241.55	3414.43	-65.15	19.32	516857.4	1644565	-56.26	0.42
3511	94	0.78	247.1	3508.42	-65.59	18.36	516856.9	1644564	-55.8	0.29
3606	95	0.89	270.8	3603.41	-65.84	17.03	516856.7	1644563	-54.93	0.38
3701	95	1	259.05	3698.4	-65.98	15.48	516856.6	1644562	-53.82	0.23
3796	95	0.36	264.63	3793.39	-66.17	14.36	516856.4	1644560	-53.08	0.68
3891	95	0.45	278.24	3888.39	-66.14	13.7	516856.5	1644560	-52.55	0.14
3985	94	0.51	266.39	3982.38	-66.12	12.92	516856.5	1644559	-51.92	0.12
4080	95	0.52	308.23	4077.38	-65.88	12.15	516856.7	1644558	-51.18	0.39

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4174	94	0.75	296.63	4171.37	-65.34	11.27	516857.3	1644557	-50.16	0.28
4256	82	0.77	293.85	4253.37	-64.87	10.29	516857.8	1644556	-49.1	0.05
4351	95	0.1	354.16	4348.36	-64.53	9.69	516858.1	1644556	-48.43	0.76
4445	94	0.33	288.19	4442.36	-64.37	9.43	516858.3	1644556	-48.12	0.32
4540	95	0.64	276.71	4537.36	-64.22	8.64	516858.4	1644555	-47.42	0.34
4635	95	0.31	212.52	4632.36	-64.37	7.98	516858.3	1644554	-47	0.61
4729	94	0.51	263.79	4726.35	-64.63	7.42	516858	1644554	-46.74	0.42
4824	95	0.62	277.29	4821.35	-64.61	6.49	516858.1	1644553	-46.01	0.18
4918	94	0.76	284.11	4915.34	-64.4	5.38	516858.3	1644551	-45.01	0.08
5012	94	0.62	300.97	5009.34	-63.98	4.34	516858.7	1644550	-43.95	0.08
5107	95	0.65	296.66	5104.33	-63.48	3.42	516859.2	1644550	-42.91	0.08
5192	85	0.4	294.43	5189.33	-63.14	2.72	516859.6	1644549	-42.15	0.08
5286	94	1.79	240.1	5283.31	-63.73	1.15	516859	1644547	-41.32	1.69
5381	95	9.93	246.23	5377.73	-67.78	-7.65	516855.1	1644538	-37.08	8.58
5475	94	14.94	242.49	5469.5	-76.65	-25.82	516846.5	1644520	-28.66	5.4
5570	95	21.58	240.23	5559.67	-91	-51.88	516832.4	1644494	-17.62	7.03
5664	94	29.15	239.81	5644.54	-111.12	-86.72	516812.8	1644459	-3.45	8.06
5759	95	37.02	239.36	5724.08	-137.38	-131.4	516787.1	1644414	14.44	8.29
5854	95	45.29	238.96	5795.55	-169.41	-185.02	516755.7	1644360	35.57	8.71
5948	94	52.52	237.36	5857.29	-206.8	-245.13	516719.1	1644299	58.31	7.8
6043	95	55.31	236.35	5913.24	-248.79	-309.4	516678	1644234	81.36	3.06
6138	95	55.33	236.65	5967.3	-291.9	-374.54	516635.7	1644169	104.37	0.26
6232	94	55.33	236.61	6020.77	-334.43	-439.11	516594	1644104	127.31	0.03
6326	94	55.39	236.58	6074.2	-377.01	-503.67	516552.3	1644038	150.21	0.07
6421	95	55.34	237.47	6128.19	-419.55	-569.24	516510.6	1643972	173.91	0.77
6515	94	55.44	239.44	6181.59	-460.02	-635.17	516470.9	1643906	199.21	1.73
6610	95	55.78	241.86	6235.25	-498.44	-703.5	516433.4	1643837	227.66	2.13
6704	94	59.25	255.41	6285.9	-527.05	-777.12	516405.8	1643763	266.42	12.7
6799	95	60.29	267.56	6333.86	-539.12	-858.07	516394.7	1643682	321.35	11.1
6893	94	60.07	271.31	6380.62	-539.93	-939.6	516395	1643600	383.86	3.47
6988	95	63.12	273.15	6425.81	-536.66	-1023.09	516399.3	1643517	450.47	3.63
7083	95	68.09	284.54	6465.14	-523.22	-1108.33	516413.8	1643432	524.9	12.1
7177	94	74.08	291.94	6495.63	-495.32	-1192.65	516442.8	1643348	607.77	9.8
7272	95	77.78	295.99	6518.73	-457.89	-1276.81	516481.3	1643264	696.58	5.68
7366	94	78.32	301.04	6538.21	-414	-1357.59	516526.3	1643184	786.86	5.29
7461	95	84.42	311.41	6552.5	-358.54	-1433.17	516582.7	1643109	880.47	12.55
7555	94	90.37	317.33	6556.77	-292.93	-1500.23	516649.2	1643043	973.93	8.92

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7650	95	90.52	319.59	6556.03	-221.83	-1563.22	516721.1	1642981	1067.73	2.38
7744	94	90.46	316.92	6555.23	-151.7	-1625.8	516792	1642919	1160.59	2.84
7839	95	90.46	316.53	6554.47	-82.53	-1690.92	516862	1642855	1254.81	0.41
7933	94	90.46	316.36	6553.71	-14.41	-1755.69	516930.9	1642791	1348.09	0.18
8028	95	90.43	317.4	6552.97	54.93	-1820.62	517001.1	1642727	1442.27	1.1
8123	95	90.98	318.9	6551.8	125.68	-1884	517072.7	1642665	1536.15	1.68
8217	94	90.65	319.18	6550.47	196.66	-1945.61	517144.4	1642604	1628.8	0.46
8312	95	90.65	318.63	6549.39	268.25	-2008.05	517216.8	1642543	1722.49	0.58
8407	95	90.74	317.22	6548.24	338.76	-2071.7	517288.1	1642480	1816.42	1.49
8501	94	90.68	317.73	6547.07	408.03	-2135.23	517358.2	1642417	1909.47	0.55
8596	95	90.68	317.51	6545.94	478.2	-2199.26	517429.2	1642354	2003.48	0.23
8690	94	90.68	315.67	6544.83	546.48	-2263.85	517498.3	1642290	2096.73	1.96
8785	95	90.65	315.6	6543.73	614.39	-2330.28	517567.1	1642225	2191.15	0.08
8880	95	90.71	314.56	6542.6	681.65	-2397.35	517635.2	1642159	2285.68	1.1
8973	93	90.65	314.58	6541.5	746.91	-2463.6	517701.3	1642093	2378.29	0.07
9068	95	90.62	315.15	6540.44	813.93	-2530.93	517769.2	1642027	2472.84	0.6
9163	95	90.68	316.92	6539.36	882.3	-2596.87	517838.4	1641962	2567.19	1.86
9257	94	90.62	319.76	6538.3	952.51	-2659.34	517909.4	1641900	2660.03	3.02
9352	95	90.58	322.07	6537.3	1026.24	-2719.23	517983.9	1641841	2753.09	2.43
9446	94	90.55	324.2	6536.38	1101.44	-2775.62	518059.8	1641786	2844.39	2.27
9541	95	90.55	324.95	6535.46	1178.85	-2830.68	518137.9	1641732	2936.06	0.79
9635	94	90.62	323.96	6534.5	1255.33	-2885.32	518215.1	1641678	3026.81	1.06
9730	95	90.25	320.24	6533.78	1330.28	-2943.67	518290.8	1641621	3119.46	3.93
9824	94	90.28	319.12	6533.35	1401.94	-3004.49	518363.2	1641561	3211.94	1.19
9919	95	90.28	318.89	6532.88	1473.65	-3066.81	518435.7	1641499	3305.6	0.24
10014	95	90.12	318.19	6532.55	1544.84	-3129.71	518507.7	1641437	3399.38	0.76
10108	94	90.06	319.83	6532.4	1615.79	-3191.36	518579.4	1641377	3492.05	1.75
10203	95	90.31	317.9	6532.1	1687.34	-3253.85	518651.8	1641315	3585.75	2.05
10298	95	90.4	315.95	6531.51	1756.73	-3318.73	518722	1641251	3679.92	2.05
10393	95	90.34	314.1	6530.9	1823.93	-3385.87	518790.1	1641185	3774.45	1.95
10487	94	90.4	314.17	6530.29	1889.38	-3453.33	518856.4	1641118	3868.12	0.1
10582	95	89.78	314.42	6530.14	1955.73	-3521.33	518923.6	1641051	3962.77	0.7
10676	94	90.4	319.66	6529.99	2024.49	-3585.37	518993.2	1640988	4055.9	5.61
10770	94	91.05	320.32	6528.8	2096.48	-3645.8	519065.9	1640928	4148.28	0.99
10865	95	91.05	327.09	6527.06	2172.99	-3701.99	519143.2	1640873	4240.25	7.13
10959	94	91.08	325.89	6525.31	2251.36	-3753.88	519222.2	1640822	4330.07	1.28
11054	95	91.2	322.52	6523.42	2328.39	-3809.42	519299.9	1640768	4421.87	3.55

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11149	95	91.14	321.92	6521.48	2403.45	-3867.61	519375.7	1640711	4514.47	0.63
11243	94	91.08	321.29	6519.66	2477.11	-3925.98	519450.1	1640653	4606.32	0.67
11433	190	90.95	318.5	6516.29	2622.4	-4048.34	519597	1640533	4793.08	1.47
11527	94	90.98	318.19	6514.71	2692.62	-4110.81	519668	1640471	4885.91	0.33
11622	95	91.11	318.21	6512.98	2763.43	-4174.12	519739.6	1640409	4979.77	0.14
11716	94	90.95	317.71	6511.29	2833.23	-4237.06	519810.2	1640347	5072.7	0.56
11810	94	90.8	318.74	6509.85	2903.32	-4299.67	519881.1	1640285	5165.57	1.11
11905	95	90.55	317.01	6508.73	2973.78	-4363.39	519952.4	1640222	5259.52	1.84
11999	94	90.74	307.86	6507.67	3037.13	-4432.69	520016.6	1640154	5353.28	9.74
12094	95	90.65	313	6506.52	3098.72	-4504.97	520079.1	1640082	5448.22	5.41
12188	94	90.52	321.31	6505.56	3167.57	-4568.83	520148.8	1640019	5541.27	8.84
12283	95	90.31	316.85	6504.87	3239.34	-4631.04	520221.4	1639958	5634.88	4.7
12378	95	90.4	315.74	6504.28	3308.01	-4696.68	520290.9	1639893	5729.19	1.17
12472	94	90.22	315.05	6503.77	3374.93	-4762.68	520358.6	1639828	5822.67	0.8
12567	95	90.74	313.94	6502.98	3441.51	-4830.44	520426.1	1639761	5917.28	1.2
12661	94	90.09	313.5	6502.3	3506.48	-4898.38	520491.9	1639694	6011.01	0.8
12756	95	90.28	316.98	6501.99	3573.92	-4965.26	520560.2	1639628	6105.49	3.67
12851	95	90.68	321.22	6501.19	3645.71	-5027.45	520632.8	1639567	6199.1	4.48
12945	94	90.03	325.34	6500.61	3721.04	-5083.63	520708.8	1639512	6290.33	4.44
13039	94	89.78	324.63	6500.77	3798.02	-5137.57	520786.5	1639459	6380.86	0.8
13134	95	90.06	322.59	6500.9	3874.49	-5193.93	520863.7	1639403	6472.93	2.17
13228	94	90.09	322.59	6500.78	3949.16	-5251.04	520939.1	1639347	6564.44	0.03
13323	95	89.94	323.17	6500.75	4024.91	-5308.37	521015.6	1639291	6656.81	0.63
13418	95	90.22	321.57	6500.62	4100.14	-5366.37	521091.6	1639234	6749.38	1.71
13512	94	90.12	317.9	6500.34	4171.86	-5427.11	521164	1639174	6841.83	3.91
13607	95	90.12	317.2	6500.14	4241.95	-5491.23	521235	1639111	6935.86	0.74
13702	95	90.34	317.13	6499.76	4311.62	-5555.82	521305.5	1639047	7029.98	0.24
13796	94	90.25	318.04	6499.28	4381.02	-5619.22	521375.7	1638984	7123.01	0.97
13890	94	90.25	317.63	6498.87	4450.69	-5682.32	521446.1	1638922	7215.99	0.44
13985	95	90.58	317.75	6498.18	4520.94	-5746.27	521517.2	1638859	7309.99	0.37
14080	95	90.55	316.39	6497.24	4590.49	-5810.97	521587.6	1638795	7404.12	1.43
14270	190	90.55	315.13	6495.42	4726.6	-5943.51	521725.4	1638665	7592.93	0.66
14365	95	90.8	315.77	6494.3	4794.3	-6010.15	521793.9	1638599	7687.39	0.72
14459	94	90.8	315.73	6492.99	4861.63	-6075.74	521862.1	1638534	7780.8	0.04
14553	94	90.77	317.9	6491.7	4930.16	-6140.06	521931.4	1638471	7873.99	2.31
14742	189	90.89	320.11	6488.96	5072.78	-6264.02	522075.7	1638349	8060.3	1.17
14837	95	91.05	320.35	6487.35	5145.79	-6324.79	522149.4	1638289	8153.58	0.3

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MD (usft)	CL (usft)	Inc (°)	Azi (°)	TVD (usft)	NS (usft)	EW (usft)	Northing (usft)	Easting (usft)	V.Sec (usft)	Dogleg (°/100usft)
14932	95	91.48	321.06	6485.25	5219.29	-6384.93	522223.7	1638230	8246.71	0.87
14983	51	91.66	321.41	6483.86	5259.04	-6416.86	522263.9	1638198	8296.6	0.77
15007	24	91.66	321.41	6483.16	5277.79	-6431.82	522282.8	1638183	8320.06	0

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