

CNX SHR-370-HSM Surveys 0ft to 18053ft MD Survey Geodetic Report

(Def Survey)

Report Date: June 01, 2022 - 11:31 AM
 Client: CNX
 Field: WV Tyler County (NAD 27)
 Structure / Slot: CNX SHR-37 Pad / SHR-370-HSM
 Well: SHR-370-HSM
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: CNX SHR-370-HSM Surveys 0ft to 18053ft MD
 Survey Date: May 25, 2022
 Tort / AHD / DDI / ERD Ratio: 229.186 ° / 12447.711 ft / 6.911 / 1.971
 Coordinate Reference System: NAD27 West Virginia State Plane, Northern Zone, US Feet
 Location Lat / Long: N 39° 21' 12.65202", W 80° 50' 45.51834"
 Location Grid N/E Y/X: N 313718.398 ftUS, E 1619397.613 ftUS
 CRS Grid Convergence Angle: -0.8584 °
 Grid Scale Factor: 0.99995199
 Version / Patch: 2.10.829.1

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 161.000 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 857.000 ft above MSL
 Seabed / Ground Elevation: 828.000 ft above MSL
 Magnetic Declination: -7.463 °
 Total Gravity Field Strength: 999.3376mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 51577.265 nT
 Magnetic Dip Angle: 66.179 °
 Declination Date: May 25, 2022
 Magnetic Declination Model: HDGM 2022
 North Reference: Grid North
 Grid Convergence Used: -0.8584 °
 Total Corr Mag North->Grid North: -6.6048 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Surface	0.00	0.00	0.00	0.00	-857.00	0.00	0.00	0.00	N/A	N/A	N/A	313718.40	1619397.61	39.35351445	-80.84597732
	100.00	0.26	325.24	100.00	-757.00	-0.22	0.19	-0.13	0.26	0.26	0.00	313718.58	1619397.48	39.35351496	-80.84597778
	125.00	0.19	310.47	125.00	-732.00	-0.31	0.26	-0.19	0.36	-0.28	-59.08	313718.66	1619397.42	39.35351516	-80.84597801
	150.00	0.07	187.61	150.00	-707.00	-0.33	0.27	-0.23	0.94	-0.48	-491.44	313718.67	1619397.39	39.35351519	-80.84597813
	175.00	0.25	244.62	175.00	-682.00	-0.31	0.23	-0.28	0.88	0.72	228.04	313718.63	1619397.33	39.35351508	-80.84597831
	200.00	0.31	269.04	200.00	-657.00	-0.33	0.21	-0.39	0.53	0.24	97.68	313718.61	1619397.22	39.35351501	-80.84597873
	225.00	0.21	311.00	225.00	-632.00	-0.39	0.24	-0.50	0.83	-0.40	167.84	313718.64	1619397.12	39.35351508	-80.84597909
	250.00	0.08	14.82	250.00	-607.00	-0.44	0.28	-0.53	0.76	-0.52	255.28	313718.68	1619397.09	39.35351521	-80.84597920
	275.00	0.13	89.64	275.00	-582.00	-0.45	0.30	-0.49	0.53	0.20	299.28	313718.70	1619397.12	39.35351526	-80.84597908
	300.00	0.12	75.55	300.00	-557.00	-0.43	0.31	-0.44	0.13	-0.04	-56.36	313718.71	1619397.17	39.35351528	-80.84597889
	302.00	0.12	74.15	302.00	-555.00	-0.43	0.31	-0.44	0.15	0.00	-70.00	313718.71	1619397.18	39.35351528	-80.84597888
	425.00	0.42	229.97	425.00	-432.00	-0.27	0.05	-0.66	0.43	0.24	126.68	313718.45	1619396.96	39.35351457	-80.84597965
	518.00	0.44	228.04	518.00	-339.00	0.00	-0.40	-1.18	0.03	0.02	-2.08	313717.99	1619396.43	39.35351329	-80.84598148
	611.00	0.68	267.33	610.99	-246.01	-0.02	-0.67	-2.00	0.47	0.26	42.25	313717.73	1619395.61	39.35351253	-80.84598436
	704.00	0.51	245.67	703.99	-153.01	-0.14	-0.86	-2.93	0.30	-0.18	-23.29	313717.53	1619394.68	39.35351196	-80.84598763
	799.00	0.65	311.24	798.98	-58.02	-0.57	-0.68	-3.72	0.67	0.15	69.02	313717.71	1619393.89	39.35351242	-80.84599043
	892.00	0.47	286.92	891.98	34.98	-1.25	-0.22	-4.48	0.32	-0.19	-26.15	313718.17	1619393.13	39.35351365	-80.84599315
	985.00	1.43	304.68	984.96	127.96	-2.41	0.55	-5.80	1.07	1.03	19.10	313718.94	1619391.81	39.35351571	-80.84599786
	1078.00	2.88	303.96	1077.90	220.90	-5.21	2.51	-8.69	1.56	1.56	-0.77	313720.91	1619388.92	39.35352099	-80.84600819
	1172.00	4.02	310.15	1171.72	314.72	-9.92	5.96	-13.17	1.27	1.21	6.59	313724.35	1619384.44	39.35353026	-80.84602420
	1266.00	5.42	308.20	1265.40	408.40	-16.48	10.83	-19.18	1.50	1.49	-2.07	313729.22	1619378.44	39.35354338	-80.84604570
	1359.00	6.82	307.32	1357.87	500.87	-24.77	16.89	-27.02	1.51	1.51	-0.95	313735.29	1619370.59	39.35355971	-80.84607375
	1453.00	8.28	309.94	1451.05	594.05	-35.21	24.62	-36.65	1.60	1.55	2.79	313743.02	1619360.96	39.35358053	-80.84610821
	1546.00	8.50	301.81	1543.06	686.06	-46.27	32.54	-47.63	1.30	0.24	-8.74	313750.94	1619349.99	39.35360182	-80.84614743
	1639.00	9.55	288.85	1634.92	777.92	-56.34	38.66	-60.77	2.45	1.13	-13.94	313757.05	1619336.85	39.35361807	-80.84619423
	1734.00	10.01	280.44	1728.54	871.54	-65.23	42.70	-76.35	1.58	0.48	-8.85	313761.10	1619321.27	39.35362853	-80.84624953
	1827.00	11.05	278.54	1819.98	962.98	-73.32	45.49	-93.11	1.18	1.12	-2.04	313763.89	1619304.51	39.35363549	-80.84630894
	1921.00	11.54	269.83	1912.16	1055.16	-80.53	46.80	-111.42	1.89	0.52	-9.27	313765.19	1619286.20	39.35363834	-80.84637376
	2014.00	10.53	259.84	2003.45	1146.45	-84.83	45.27	-129.09	2.32	-1.09	-10.74	313763.67	1619268.53	39.35363342	-80.84643615
	2108.00	10.74	253.65	2095.84	1238.84	-86.56	41.29	-145.95	1.24	0.22	-6.59	313759.69	1619251.67	39.35362180	-80.84649555
	2206.00	9.08	252.26	2192.37	1335.37	-87.15	36.36	-162.08	1.71	-1.69	-1.42	313754.76	1619235.54	39.35360761	-80.84655232
	2299.00	9.55	263.64	2284.15	1427.15	-89.00	33.27	-176.74	2.04	0.51	12.24	313751.67	1619220.88	39.35359852	-80.84660398
	2392.00	10.38	258.74	2375.75	1518.75	-91.82	30.78	-192.62	1.28	0.89	-5.27	313749.18	1619205.00	39.35359103	-80.84666001
	2486.00	10.69	260.07	2468.17	1611.17	-94.33	27.63	-209.52	0.42	0.33	1.41	313746.02	1619188.11	39.35358167	-80.84671957
	2580.00	10.50	268.03	2560.57	1703.57	-98.22	25.83	-226.66	1.57	-0.20	8.47	313744.22	1619170.96	39.35357603	-80.84678011
	2673.00	10.72	269.05	2651.98	1794.98	-103.38	25.39	-243.78	0.31	0.24	1.10	313743.79	1619153.84	39.35357413	-80.84684061
	2767.00	10.83	264.72	2744.32	1887.32	-108.18	24.44	-261.32	0.87	0.12	-4.61	313742.83	1619136.31	39.35357078	-80.84690256
	2861.00	11.45	261.52	2836.55	1979.55	-111.98	22.25	-279.34	0.93	0.66	-3.40	313740.64	1619118.29	39.35356403	-80.84696616
	2954.00	9.64	263.44	2927.98	2070.98	-115.34	20.00	-296.21	1.98	-1.95	2.06	313738.39	1619101.42	39.35355715	-80.84702568
	3047.00	6.40	270.79	3020.06	2163.06	-118.78	19.18	-309.13	3.65	-3.48	7.90	313737.57	1619088.50	39.35355438	-80.84707133
	3140.00	6.11	273.94	3112.51	2255.51	-122.46	19.59	-319.25	0.48	-0.31	3.39	313737.99	1619078.38	39.35355509	-80.84710713
	3233.00	4.88	271.85	3205.08	2348.08	-125.80	20.06	-328.14	1.34	-1.32	-2.25	313738.45	1619069.49	39.35355601	-80.84713860

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	3326.00	3.84	293.92	3297.81	2440.81	-129.33	21.45	-334.94	2.10	-1.12	23.73	313739.84	1619062.69	39.35355954	-80.84716272
	3421.00	2.43	304.60	3392.67	2535.67	-133.11	23.88	-339.51	1.60	-1.48	11.24	313742.28	1619058.12	39.35356604	-80.84717899
	3514.00	1.63	290.33	3485.61	2628.61	-135.54	25.46	-342.37	1.01	-0.86	-15.34	313743.86	1619055.26	39.35357025	-80.84718920
	3608.00	1.08	278.86	3579.58	2722.58	-136.80	26.06	-344.50	0.65	-0.59	-12.20	313744.46	1619053.13	39.35357182	-80.84719676
	3702.00	1.12	291.80	3673.57	2816.57	-137.81	26.54	-346.23	0.27	0.04	13.77	313744.94	1619051.40	39.35357306	-80.84720289
	3796.00	0.96	281.06	3767.55	2910.55	-138.81	27.03	-347.85	0.27	-0.17	-11.43	313745.43	1619049.78	39.35357434	-80.84720867
	3893.00	1.36	270.88	3864.53	3007.53	-139.61	27.20	-349.80	0.46	0.41	-10.49	313745.60	1619047.83	39.35357474	-80.84721557
	3987.00	0.81	304.74	3958.51	3101.51	-140.52	27.60	-351.46	0.87	-0.59	36.02	313746.00	1619046.17	39.35357575	-80.84722146
	4080.00	1.58	305.73	4051.49	3194.49	-142.10	28.72	-353.04	0.83	0.83	1.06	313747.12	1619044.59	39.35357877	-80.84722711
	4174.00	1.51	313.09	4145.46	3288.46	-144.25	30.33	-355.00	0.22	-0.07	7.83	313748.72	1619042.63	39.35358309	-80.84723411
	4266.00	0.81	187.34	4237.45	3380.45	-144.74	30.51	-355.97	2.27	-0.76	-136.68	313748.91	1619041.66	39.35358356	-80.84723755
	4360.00	1.98	187.44	4331.42	3474.42	-142.69	28.24	-356.26	1.24	1.24	0.11	313746.64	1619041.37	39.35357731	-80.84723847
	4453.00	1.98	233.08	4424.37	3567.37	-140.76	25.68	-357.76	1.65	0.00	49.08	313744.08	1619039.87	39.35357023	-80.84724361
	4546.00	3.09	282.45	4517.29	3660.29	-141.57	25.26	-361.49	2.52	1.19	53.09	313743.65	1619036.14	39.35356891	-80.84725679
	4639.00	3.49	335.81	4610.15	3753.15	-145.70	28.38	-365.10	3.20	0.43	57.38	313746.78	1619032.53	39.35357733	-80.84726971
	4733.00	3.71	14.45	4703.98	3846.98	-151.09	33.94	-365.51	2.54	0.23	41.11	313752.33	1619032.12	39.35359257	-80.84727147
	4827.00	0.67	356.44	4797.90	3940.90	-154.15	37.43	-364.79	3.28	-3.23	-19.16	313755.83	1619032.84	39.35360219	-80.84726909
	4920.00	3.73	159.98	4890.85	4033.85	-151.65	35.13	-363.78	4.71	3.29	175.85	313753.53	1619033.85	39.35359592	-80.84726542
	5014.00	5.32	156.06	4984.55	4127.55	-144.25	28.27	-360.97	1.72	1.69	-4.17	313746.67	1619036.66	39.35357721	-80.84725511
	5107.00	4.55	168.28	5077.21	4220.21	-136.30	20.72	-358.47	1.40	-0.83	13.14	313739.12	1619039.16	39.35356568	-80.84724587
	5199.00	3.97	162.31	5168.95	4311.95	-129.50	14.11	-356.76	0.79	-0.63	-6.49	313732.51	1619040.87	39.35353851	-80.84723948
Last 3rd Party MWD	5284.00	3.66	152.99	5253.77	4396.77	-123.87	8.89	-354.64	0.81	-0.36	-10.96	313727.29	1619043.00	39.35352427	-80.84723168
First SLB_MWD	5333.00	4.27	142.82	5302.65	4445.65	-120.58	6.05	-352.82	1.90	1.24	-20.76	313724.44	1619044.81	39.35351653	-80.84722512
	5426.00	3.11	140.00	5395.45	4538.45	-114.94	1.36	-349.11	1.26	-1.25	-3.03	313719.75	1619048.52	39.35350380	-80.84721174
	5519.00	0.09	118.09	5488.41	4631.41	-112.53	-0.61	-347.42	3.25	-3.25	-23.56	313717.79	1619050.21	39.35349847	-80.84720568
	5611.00	0.09	147.85	5580.41	4723.41	-112.41	-0.71	-347.32	0.05	0.00	32.35	313717.69	1619050.31	39.35349822	-80.84720531
	5707.00	6.54	151.77	5676.20	4819.20	-106.93	-5.59	-344.69	6.72	4.08	4.08	313712.81	1619052.94	39.35348491	-80.84719576
	5800.00	13.98	155.11	5767.65	4910.65	-90.51	-20.47	-337.45	8.02	8.00	3.59	313697.93	1619060.18	39.35344437	-80.84716936
	5893.00	20.15	156.16	5856.51	4999.51	-63.35	-45.34	-326.23	6.64	6.63	1.13	313673.06	1619071.40	39.35337657	-80.84712839
	5988.00	26.30	155.92	5943.77	5086.77	-26.04	-79.55	-311.02	6.47	6.47	-0.25	313638.85	1619086.61	39.35328328	-80.84707278
	6082.00	33.87	162.12	6025.07	5168.07	20.97	-123.57	-294.45	8.70	8.05	6.60	313594.84	1619103.18	39.35316313	-80.84701187
	6176.00	41.11	165.52	6099.61	5242.61	78.05	-178.49	-278.66	8.01	7.70	3.62	313539.91	1619118.97	39.35301299	-80.84695312
	6269.00	50.13	168.74	6164.60	5307.60	144.03	-243.24	-264.01	10.01	9.70	3.46	313475.17	1619133.61	39.35283586	-80.84689791
	6362.00	58.59	169.34	6218.74	5361.74	218.80	-317.38	-249.68	9.11	9.10	0.65	313401.03	1619147.95	39.35263293	-80.84684329
	6456.00	66.38	168.22	6262.13	5405.13	301.34	-399.08	-233.44	8.35	8.29	-1.19	313319.33	1619164.18	39.35240931	-80.84678155
	6550.00	75.61	166.55	6292.71	5435.71	389.57	-485.71	-214.02	9.82	9.82	-1.78	313232.71	1619183.61	39.35217231	-80.84670828
	6643.00	83.46	164.25	6309.59	5452.59	480.68	-574.13	-190.96	8.78	8.44	-2.47	313144.30	1619206.66	39.35193053	-80.84662208
Landing Point	6738.00	90.54	162.53	6314.56	5457.56	575.40	-664.98	-163.86	7.67	7.45	-1.81	313053.46	1619233.76	39.35168226	-80.84652143
	6831.00	90.52	160.25	6313.70	5456.70	668.39	-753.10	-134.18	2.45	-0.02	-2.45	312965.33	1619263.44	39.35144156	-80.84641184
	6924.00	90.85	159.34	6312.59	5455.59	761.36	-840.37	-102.06	1.04	0.35	-0.90	312878.07	1619295.55	39.35120331	-80.84629366
	7018.00	90.69	159.20	6311.33	5454.33	855.31	-928.28	-68.80	0.23	-0.17	-0.15	312790.16	1619328.82	39.35096336	-80.84617137
	7111.00	90.93	159.50	6310.01	5453.01	948.26	-1015.30	-36.00	0.41	0.26	0.12	312703.15	1619361.61	39.35072584	-80.84605082
	7297.00	90.29	159.51	6308.03	5451.03	1134.19	-1189.51	29.12	0.34	-0.34	0.01	312528.95	1619426.73	39.35025027	-80.84581135
	7390.00	90.36	159.43	6307.50	5450.50	1227.15	-1276.60	61.73	0.11	0.08	-0.09	312441.86	1619459.34	39.35001253	-80.84569143
	7483.00	89.95	159.05	6307.25	5450.25	1320.11	-1363.96	94.70	0.60	-0.44	-0.41	312354.90	1619492.30	39.34977517	-80.84557028
	7576.00	89.91	159.33	6307.37	5450.37	1413.06	-1450.50	127.74	0.30	-0.04	0.30	312267.97	1619525.34	39.34953788	-80.84544886
	7669.00	89.80	159.26	6307.60	5450.60	1506.02	-1537.49	160.62	0.14	-0.12	-0.00	312180.98	1619558.22	39.34930043	-80.84532800
	7763.00	90.05	159.66	6307.72	5450.72	1599.98	-1625.51	193.60	0.50	0.27	0.43	312092.96	1619591.20	39.34906014	-80.84520674
	7855.00	89.65	159.44	6307.96	5450.96	1691.95	-1711.72	225.74	0.50	-0.43	-0.24	312006.77	1619623.34	39.34882483	-80.84508853
	7948.00	89.90	159.41	6308.33	5451.33	1784.92	-1798.78	258.42	0.27	0.27	-0.03	311919.70	1619656.02	39.34858716	-80.84496837
	8041.00	89.47	159.09	6308.84	5451.84	1877.87	-1885.75	291.37	0.58	-0.46	-0.34	311832.74	1619688.97	39.34834978	-80.84484728
	8135.00	89.91	159.44	6309.35	5452.35	1971.83	-1973.66	324.65	0.60	0.47	0.37	311744.84	1619722.25	39.34810983	-80.84472497
	8230.00	89.72	160.19	6309.66	5452.66	2066.81	-2062.82	357.43	0.81	-0.20	0.79	311655.68	1619755.03	39.34786640	-80.84460436
	8323.00	89.68	160.69	6310.14	5453.14	2159.80	-2150.45	388.57	0.54	-0.04	0.54	311568.05	1619786.16	39.34762712	-80.84448964
	8417.00	89.68	160.66	6310.67	5453.67	2253.80	-2239.16	419.67	0.03	0.00	-0.03	311479.35	1619817.27	39.34738490	-80.84437498
	8511.00	89.88	160.56	6311.03	5454.03	2347.79	-2327.82	450.88	0.24	-0.21	-0.11	311390.69	1619848.47	39.34714278	-80.84425995
	8604.00	89.48	160.28	6311.55	5454.55	2440.79	-2415.45	482.05	0.53	-0.43	-0.30	311303.07	1619879.64	39.34690353	-80.84414513
	8698.00	89.48	160.52	6312.40	5455.40	2534.78	-2503.99	513.58	0.26	0.00	0.26	311214.53	1619911.17	39.34666174	-80.84402898
	8885.00	90.18	162.22	6312.96	5455.96	2721.77	-2681.19	573.31	0.98	0.37	0.91	311037.34	1619970.90	39.34641777	-80.84380842
	8979.00	90.69	162.23	6312.24	5455.24	2815.74	-2770.70	602.01	0.54	0.01	0.01	310947.84	1619999.59	39.34593323	-80.84370223
	9072.00	90.15	157.94	6311.56	5454.56	2908.70	-2858.11	633.68	4.65	-0.58	-4.61	310860.43	1620031.26	39.34569457	-80.84358565
	9166.00	89.60	161.55	6311.77	5454.77	3002.67	-2946.29	666.22	3.88	-0.59	3.84	310772.26	1620063.80	39.34545386	-80.84346596
	9260.00	90.43	161.76	6311.74	5454.74	3096.66	-3035.51	695.80	0.91	0.88	0.22	310683.04	1620093.38	39.34521015	-80.84335665
	9354.00	90.15	161.91	6311.27	5454.27	3190.65	-3124.82	725.11	0.34	-0.30	0.16	310593.73	1620122.68	39.34496617	-80.84324832
	9448.00	89.49	162.01	6311.86	5454.86	3279.62	-3304.53	783.64	0.35	-0.35	0.05	310414.04	1620181.21	39.3	

Comments	MD (ft)	Incl (°)	Azim (°)	Grid (ft)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	10105.00	89.78	162.32	6314.45	5457.45	3941.56	3941.56	-3837.81	960.89	0.11	0.11	0.01	309860.78	1620358.46	39.34301859	-80.84237707
	10199.00	89.75	162.63	6314.83	5457.83	4035.52	4035.52	-3927.44	989.20	0.33	-0.03	0.33	309791.15	1620386.76	39.34277369	-80.84227228
	10293.00	89.75	162.46	6315.24	5458.24	4129.49	4129.49	-4017.12	1017.40	0.18	0.00	-0.18	309701.48	1620414.96	39.34252869	-80.84216786
	10386.00	89.65	162.06	6315.73	5458.73	4222.46	4222.46	-4105.69	1045.73	0.44	-0.11	-0.43	309612.91	1620443.29	39.34228669	-80.84206301
	10479.00	89.69	162.43	6316.27	5459.27	4315.44	4315.44	-4194.26	1074.09	0.40	0.04	0.04	309524.35	1620471.65	39.34204472	-80.84195808
Deepest TVD	10573.00	90.05	161.79	6316.48	5459.48	4409.42	4409.42	-4283.71	1102.97	0.78	0.38	-0.68	309434.90	1620500.52	39.34180034	-80.84185127
	10667.00	90.05	161.54	6316.40	5459.40	4503.42	4503.42	-4372.94	1132.54	0.27	0.00	-0.27	309345.67	1620530.09	39.34155661	-80.84174203
	10760.00	90.12	160.47	6316.26	5459.26	4596.41	4596.41	-4460.88	1162.81	1.15	0.08	-1.15	309257.74	1620560.36	39.34131646	-80.84163038
	10853.00	90.42	160.15	6315.82	5458.82	4689.41	4689.41	-4548.44	1194.14	0.47	0.32	-0.34	309170.19	1620591.69	39.34107738	-80.84151498
	10947.00	90.25	159.69	6315.27	5458.27	4783.39	4783.39	-4636.72	1226.41	0.52	-0.18	-0.49	309081.91	1620623.96	39.34083635	-80.84139624
	11040.00	89.85	160.53	6315.19	5458.19	4876.38	4876.38	-4724.17	1258.05	1.00	-0.43	0.90	308994.46	1620655.60	39.34059758	-80.84127977
	11133.00	89.91	160.59	6315.38	5458.38	4969.37	4969.37	-4811.87	1289.00	0.09	0.06	0.06	308906.77	1620686.55	39.34035810	-80.84116573
	11226.00	90.68	160.25	6314.91	5457.91	5062.37	5062.37	-4899.49	1320.17	0.91	0.83	-0.37	308819.15	1620717.72	39.34011885	-80.84105093
	11320.00	90.52	159.98	6313.92	5456.92	5156.35	5156.35	-4987.88	1352.14	0.33	-0.17	-0.29	308730.77	1620749.69	39.33987751	-80.84093325
	11415.00	90.44	160.15	6313.13	5456.13	5251.33	5251.33	-5077.19	1384.53	0.20	-0.08	0.18	308641.47	1620782.07	39.33963369	-80.84081404
	11509.00	90.87	160.72	6312.05	5455.05	5345.32	5345.32	-5165.75	1416.01	0.76	0.61	0.61	308552.90	1620813.55	39.33939185	-80.84069809
	11602.00	90.52	160.21	6310.92	5453.92	5438.31	5438.31	-5253.39	1447.10	0.67	-0.38	-0.55	308465.27	1620844.64	39.33915254	-80.84058355
	11696.00	90.25	160.42	6310.29	5453.29	5532.30	5532.30	-5341.90	1478.76	0.36	-0.29	0.22	308376.77	1620876.30	39.33891088	-80.84046695
	11790.00	90.05	160.62	6310.04	5453.04	5626.30	5626.30	-5430.52	1510.11	0.30	-0.21	0.21	308288.15	1620907.65	39.33866889	-80.84035147
	11883.00	90.12	160.35	6309.91	5452.91	5719.29	5719.29	-5518.17	1541.18	0.30	0.08	-0.29	308200.50	1620938.71	39.33842953	-80.84023702
	11977.00	89.82	160.08	6309.96	5452.96	5813.29	5813.29	-5606.62	1573.00	0.43	-0.32	-0.29	308112.05	1620970.53	39.33818802	-80.84011988
	12070.00	89.87	160.13	6310.21	5453.21	5906.27	5906.27	-5694.07	1604.64	0.08	0.05	0.05	308024.61	1621002.18	39.33794926	-80.84000340
	12164.00	89.89	160.79	6310.40	5453.40	6000.27	6000.27	-5782.66	1636.08	0.70	0.02	0.70	307936.03	1621033.61	39.33770736	-80.83988759
	12257.00	90.00	160.19	6310.49	5453.49	6093.26	6093.26	-5870.32	1667.14	0.66	0.12	-0.65	307848.37	1621064.67	39.33746800	-80.83977318
	12350.00	89.82	160.80	6310.64	5453.64	6186.26	6186.26	-5957.98	1698.19	0.68	-0.19	0.66	307760.71	1621095.72	39.33722862	-80.83965879
	12443.00	89.77	160.71	6310.97	5453.97	6279.26	6279.26	-6045.78	1728.85	0.11	-0.05	-0.10	307672.92	1621126.37	39.33698885	-80.83954580
	12537.00	89.90	160.38	6311.24	5454.24	6373.26	6373.26	-6134.42	1760.16	0.38	0.14	-0.35	307584.29	1621157.68	39.33674682	-80.83943046
	12630.00	90.02	160.33	6311.31	5454.31	6466.25	6466.25	-6222.00	1791.42	0.14	0.13	-0.05	307496.71	1621188.95	39.33650766	-80.83931532
	12723.00	90.22	160.33	6311.11	5454.11	6559.24	6559.24	-6309.58	1822.73	0.22	0.00	0.00	307409.14	1621220.25	39.33626854	-80.83920005
	12817.00	90.38	160.35	6310.62	5453.62	6653.24	6653.24	-6398.09	1854.35	0.17	0.17	0.02	307320.62	1621251.87	39.33602684	-80.83908360
	12909.00	90.38	160.13	6310.01	5453.01	6745.22	6745.22	-6484.68	1885.45	0.24	0.00	-0.24	307234.05	1621282.97	39.33579043	-80.83896910
	13003.00	90.18	160.59	6309.55	5452.55	6839.22	6839.22	-6573.21	1917.05	0.53	-0.21	0.49	307145.52	1621314.56	39.33554870	-80.83885275
	13096.00	90.40	160.37	6309.08	5452.08	6932.21	6932.21	-6660.86	1948.12	0.33	0.24	-0.24	307057.87	1621345.64	39.33530935	-80.83873829
	13189.00	90.40	159.97	6308.43	5451.43	7025.20	7025.20	-6748.34	1979.67	0.43	0.00	-0.43	306970.39	1621377.18	39.33507048	-80.83862217
	13282.00	90.09	160.76	6308.03	5451.03	7118.19	7118.19	-6835.93	2010.92	0.91	-0.33	0.85	306882.81	1621408.43	39.33483131	-80.83850709
	13375.00	90.08	160.03	6307.90	5450.90	7211.19	7211.19	-6923.54	2042.12	0.79	-0.01	-0.78	306795.20	1621439.63	39.33459209	-80.83839218
	13468.00	90.15	160.56	6307.71	5450.71	7304.18	7304.18	-7011.09	2073.48	0.57	0.08	0.57	306707.65	1621470.99	39.33435303	-80.83827673
	13561.00	89.87	160.83	6307.69	5450.69	7397.18	7397.18	-7098.87	2104.23	0.42	-0.30	0.29	306619.89	1621501.73	39.33411334	-80.83816343
	13654.00	89.68	160.76	6308.06	5451.06	7490.18	7490.18	-7186.69	2134.82	0.22	-0.20	-0.08	306532.07	1621532.32	39.33387350	-80.83805067
	13748.00	90.18	160.92	6308.17	5451.17	7584.18	7584.18	-7275.48	2165.67	0.56	0.53	0.17	306443.28	1621563.17	39.33363102	-80.83793694
	13842.00	89.46	160.46	6308.47	5451.47	7678.17	7678.17	-7364.19	2196.75	0.91	-0.77	-0.49	306354.57	1621594.26	39.33338876	-80.83782240
	13936.00	89.85	159.86	6309.03	5452.03	7772.16	7772.16	-7452.61	2228.65	0.76	0.41	-0.62	306266.16	1621626.16	39.33314735	-80.83770498
	14029.00	90.10	161.15	6309.08	5452.08	7865.16	7865.16	-7540.28	2259.69	1.41	0.27	1.39	306178.50	1621657.19	39.33290796	-80.83759066
	14123.00	89.98	161.02	6309.01	5452.01	7959.15	7959.15	-7629.20	2290.16	0.19	-0.13	-0.14	306089.58	1621687.66	39.33266509	-80.83747828
	14216.00	89.95	160.71	6309.07	5452.07	8052.15	8052.15	-7717.06	2320.65	0.33	-0.03	-0.33	306001.72	1621718.14	39.33242515	-80.83736590
	14304.00	90.32	161.11	6308.62	5451.62	8240.15	8240.15	-7894.72	2382.13	0.29	0.20	0.21	305913.96	1621749.63	39.33218521	-80.83725392
	14398.00	90.45	161.05	6307.99	5450.99	8334.15	8334.15	-7983.64	2412.61	0.15	0.14	-0.06	305826.16	1621780.10	39.33194531	-80.83714200
	14494.00	90.88	161.24	6308.83	5448.83	8520.14	8520.14	-8159.65	2472.72	0.25	0.23	0.10	305738.16	1621810.10	39.33170541	-80.83702981
	14588.00	90.98	160.98	6304.32	5447.32	8613.12	8613.12	-8247.63	2502.82	0.30	0.11	-0.28	305650.16	1621840.21	39.33146551	-80.83691763
	14684.00	90.69	160.38	6302.95	5445.95	8707.11	8707.11	-8336.32	2533.92	0.71	-0.31	-0.64	305562.16	1621870.31	39.33122561	-80.83680545
	14777.00	90.89	160.27	6301.67	5444.67	8801.10	8801.10	-8424.83	2565.56	0.22	0.19	-0.12	305474.18	1621900.31	39.33098571	-80.83669327
	14871.00	90.69	160.38	6302.95	5445.95	8901.10	8901.10	-8513.33	2597.07	0.71	-0.27	-0.65	305386.18	1621930.41	39.33074581	-80.83658109
	14965.00	90.89	160.27	6301.67	5444.67	9001.10	9001.10	-8601.84	2628.66	0.51	0.42	0.20	305298.18	1621960.51	39.33050591	-80.83646891
	15057.00	90.62	159.67	6300.48	5443.48	9101.10	9101.10	-8690.35	2660.25	0.71	-0.27	-0.65	305210.18	1621990.61	39.33026601	-80.83635673
	15152.00	91.02	159.94	6299.12	5442.12	9201.10	9201.10	-8778.86	2691.84	0.51	0.42	0.20	305122.18	1622020.71	39.33002611	-80.83624455
	15245.00	90.71	160.25	6297.71	5440.71	9301.10	9301.10	-8867.37	2723.43	0.47	-0.33	0.33	305034.18	1622050.81	39.32978621	-80.83613237
	15339.00	90.39	160.48	6296.81	5439.81	9401.10	9401.10	-8955.88	2755.02	0.42	0.24	0.24	304946.18	1622080.91	39.32954631	-80.83602019
	15433.00	90.76	160.66	6295.87	5438.87	9501.10	9501.10	-9044.39	2786.61	0.44	0.39	0.19	304858.18	1622111.01	39.32930641	-80.83590801
	15527.00	90.72	160.70	6294.65	5437.65	9601.10	9601.10	-9132.90	2818.20	0.46	-0.04	0.04	304770.18	1622141.11	39.32906651	-80.83579583
	15621.00	90.17	160.46	6293.92	5436.92	9701.10	9701.10	-9221.41	2849.79	0.64	-0.59	-0.26	304682.1			

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	17023.00	90.09	161.79	6289.94	5432.94	10858.85	-10371.19	3233.42	0.11	-0.09	-0.07	303347.73	1622630.87	39.32517642	-80.83400024
	17116.00	89.93	161.93	6289.92	5432.92	10951.84	-10459.57	3262.37	0.23	-0.17	0.15	303259.35	1622659.82	39.32493499	-80.83389327
	17209.00	90.18	162.32	6289.83	5432.83	11044.82	-10548.08	3290.92	0.50	0.27	0.42	303170.85	1622688.36	39.32469318	-80.83378774
	17303.00	89.68	161.80	6289.95	5432.95	11138.80	-10637.51	3319.87	0.77	-0.53	-0.55	303081.42	1622717.32	39.32444887	-80.83368071
	17396.00	89.88	161.93	6290.30	5433.30	11231.79	-10725.89	3348.82	0.26	0.22	0.14	302993.05	1622746.26	39.32420743	-80.83357377
	17490.00	90.07	162.07	6290.34	5433.34	11325.78	-10815.29	3377.86	0.25	0.20	0.15	302903.65	1622775.31	39.32396320	-80.83346642
	17584.00	89.79	162.22	6290.46	5433.46	11419.76	-10904.76	3406.69	0.34	-0.30	0.16	302814.19	1622804.13	39.32371876	-80.83335987
	17677.00	89.86	162.32	6290.74	5433.74	11512.74	-10993.34	3435.01	0.13	0.08	0.11	302725.61	1622832.45	39.32347674	-80.83325513
	17771.00	89.66	162.40	6291.14	5434.14	11606.71	-11082.92	3463.49	0.23	-0.21	0.09	302636.03	1622860.93	39.32323199	-80.83314975
	17865.00	89.55	162.37	6291.78	5434.78	11700.68	-11172.51	3491.94	0.12	-0.12	-0.03	302546.45	1622889.38	39.32298721	-80.83304452
Final Survey	17958.00	89.66	162.25	6292.43	5435.43	11793.65	-11261.11	3520.20	0.18	0.12	-0.13	302457.85	1622917.63	39.32274514	-80.83294000
Projection to TD	18053.00	89.25	162.81	6293.33	5436.33	11888.61	-11351.72	3548.71	0.73	-0.43	0.59	302367.24	1622946.15	39.32249756	-80.83283446

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	29.000	1/98.425	17.500	13.375	A020Ga_GYRO-NS-Depth Only	Original Borehole / CNX SHR-370-HSM Surveys 0ft to 18053ft MD
	1	29.000	29.000	Act Stns	17.500	13.375	A020Ga_GYRO-NS-Depth Only	Original Borehole / CNX SHR-370-HSM Surveys 0ft to 18053ft MD
	1	29.000	302.000	Act Stns	17.500	13.375	A020Ga_GYRO-NS	Original Borehole / CNX SHR-370-HSM Surveys 0ft to 18053ft MD
	1	302.000	800.000	Act Stns	17.500	13.375	A001Mb_MWD	Original Borehole / CNX SHR-370-HSM Surveys 0ft to 18053ft MD
	1	800.000	5284.000	Act Stns	12.250	9.625	A001Mb_MWD	Original Borehole / CNX SHR-370-HSM Surveys 0ft to 18053ft MD
	1	5284.000	18053.000	Act Stns	8.500	5.500	B006Mb_MWD+HGRF	Original Borehole / CNX SHR-370-HSM Surveys 0ft to 18053ft MD

...CNX SHR-37 Pad\SHR-370-HSM\Original Borehole\CNX SHR-370-HSM Surveys 0ft to 18053ft MD



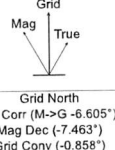
CNX



Borehole: Original Borehole	Well: SHR-370-HSM	Field: WV Tyler County (NAD 27)	Structure: Patterson 873
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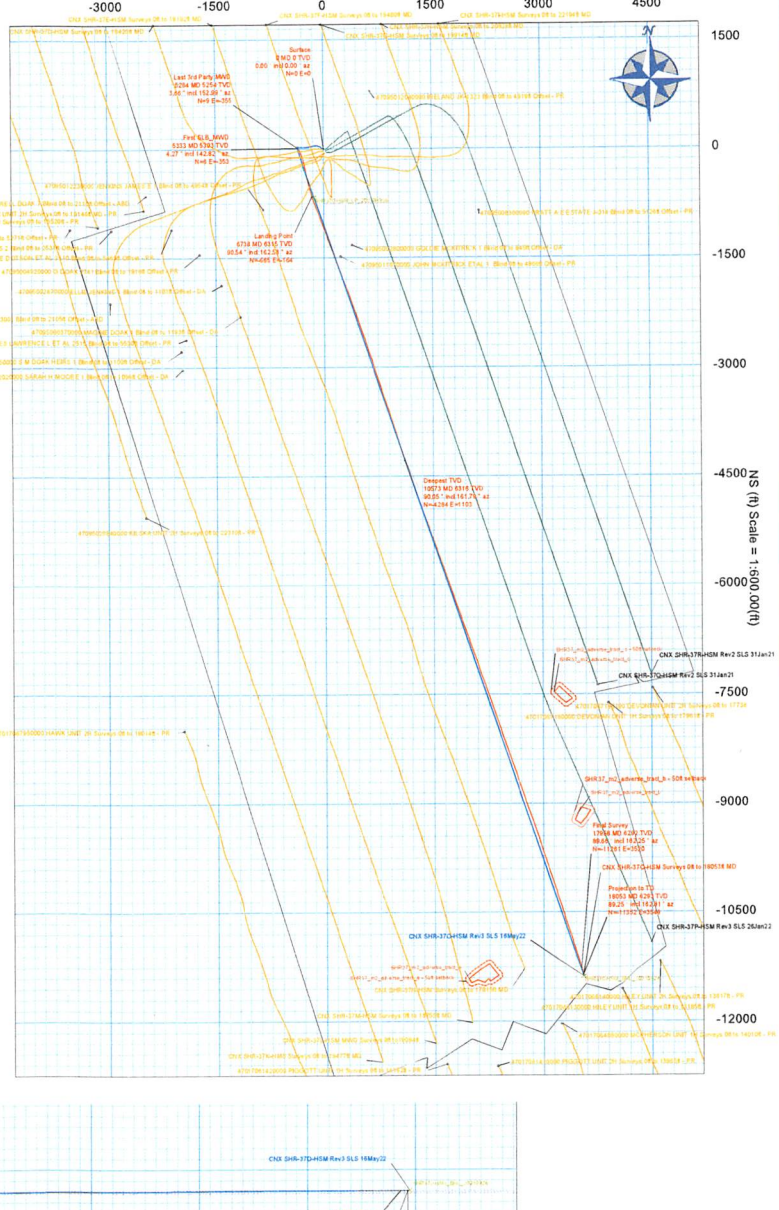
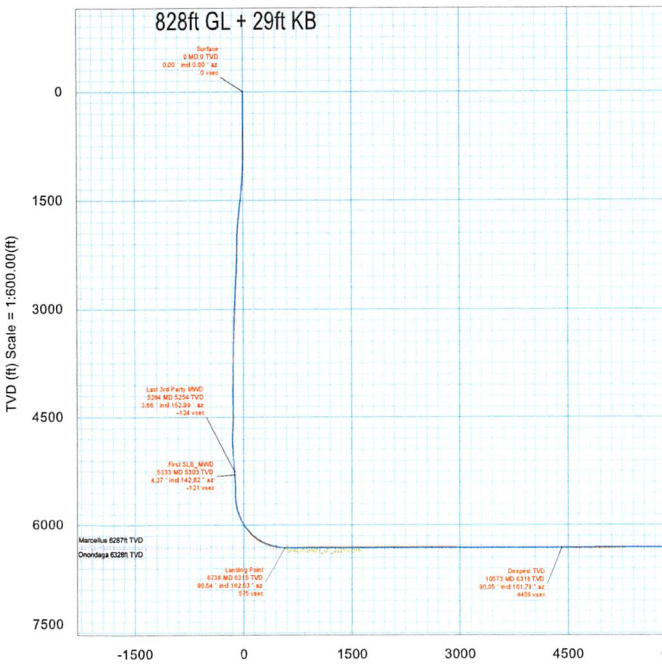
Gravity & Magnetic Parameters Model: HDGM 2022 Dip: 66.179° Date: 25-May-2022 MagDec: -7.463° FS: 51577.265nT Gravity FS: 996.330mgm (8.90665 Based)	Surface Location NAD27 West Virginia State Plane, Northern Zone, US Feet Lat: N 39 21 12.65 Northing: 313718.4RUS Grid Conv: -0.8584' Lon: W 80 60 45.52 Easting: 1618997.61RUS Scale Fact: 0.99996199	Miscellaneous Slot: SHR-370-HSM TVD Ref: RKB(857h above MSL) Plan: CNX SHR-370-HSM Surveys 0H to 18053H MD
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Northing	21714.369	Easting	1619387.613	Latitude	39 21 12.65	Longitude	W 80 60 45.52	Vertical	161.80	Local Coord
Point Name	5382	Dimension	1480.04	Northing	TVD	1619387.613	1619387.613	161.80	161.80	161.80
[SHR370_MWD_Azimuth_0] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_1] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_2] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_3] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_4] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_5] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_6] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_7] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_8] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_9] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_10] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_11] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_12] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_13] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_14] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_15] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_16] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_17] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_18] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_19] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_20] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_21] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_22] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_23] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_24] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_25] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_26] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_27] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_28] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_29] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_30] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_31] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_32] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_33] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_34] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_35] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_36] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_37] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_38] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_39] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_40] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_41] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_42] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_43] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_44] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_45] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_46] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_47] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_48] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_49] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	
[SHR370_MWD_Azimuth_50] = 508 setback	Public	NA	N 39 21 12.38 W 80 50 45.57	13180.04	1619387.613	857.00	25.01	-27.96	-4.41	



PART	Seq	Survey Tool	Vendor/Tool	Hole Size (in)	Casing Size (in)	Expected MD (ft)	MD From (ft)	MD To (ft)	Survey Frequency (Hz)	EDM Rate (ft/m)	EDM Size (ft/m)	Comment or Contingency
1	1	AZDGA_OYRON-S-Depth Only		17.5	13.75		0	29	156.425	0.731	0.739	
1	2	AZDGA_OYRON-S-Depth Only		17.5	13.75	29	29	302	Adj Stn	0.731	0.739	
1	3	AZDGA_OYRON-S		17.5	13.75	29	302	Adj Stn	1.899	1.899		
1	4	A001M_MWD		17.5	13.75	302	800	Adj Stn	3.352	3.35		
1	5	A001M_MWD		12.25	8.25	800	1284	Adj Stn	24.292	22.729		
1	6	B00M_MWD-KJRF		8.5	5.5	534	1803	Adj Stn	344.284	34.734		

Critical Point	MD	INCL	AZM	TVL	VEC	NxYxZ	ElyWly	DLS
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Last Set Party MWD	5284.00	3.86	152.89	1253.77	-123.87	830	-354.64	0.81
First SLS_MWD	5333.00	4.37	142.82	1502.65	-120.58	805	-352.82	1.90
Landing Point	6728.00	90.54	162.53	6314.54	570.40	-66.98	-183.86	7.87
Deepest TVD	10673.00	90.05	161.78	6314.49	4493.42	-4293.71	1192.97	0.78
Final Survey	17968.00	88.86	162.25	6282.43	11738.55	-11261.11	3520.20	0.18
Projection to TD	18053.00	89.25	162.81	6280.33	11886.61	-11351.72	3548.71	0.73



CONTROLLED	
Drawn by	S. Shuman
Checked by	
Project	CNX SHR-370-HSM Surveys 0H to 18053H MD
Drawn on	Sheet 1 of 3
Date	01-Jun-2022
Copy number	1

03/17/2023