MARS SPACE CONSTRUCTION, LLC

Client:
Project:
Location:
Job No:

File: ENG-StarBase-003
Rev: A
Date: 6/13/2021

Pressure Drop/Line Sizing Template

Description	Gas	Gas	Gas	Temp	Pres	Gas Density	Oil	Oil Density	Gas	Oil	Total Flow	Bulk Den	Visc	**ID**	**Vel**	**Pres Drop**
	MMSCFD	MW	Z	F	PSIA	Lb/CuFt	BPD	Lb/CuFt	Lb/Hr	Lb/Hr	Lb/Hr	Lb/Ft3	Cp	**Inch**	**FPS**	**PSI/100Ft**
Slug Catcher Dump	0.00	20.84	0.8	60	1015	4.742	726	30.27	0	5136	5136	30.270	0.095	**3.826**	**0.05**	**#REF!**
Field Liquids	0.00	20.84	0.8	60	1015	4.742	6774	37.25	0	58972	58972	37.250	0.220	**5.761**	**0.44**	**#REF!**
S.G. Dump Flashed	0.88	25.59	0.884	66	280	1.437	430	29.28	2472	2942	5415	2.974	0.100	**3.826**	**0.51**	**#REF!**
Flash Tank Vapor	0.73	23.87	0.908	60	250	1.179	0	31.33	1913	0	1913	1.179	0.010	**3.826**	**0.45**	**#REF!**
Flash Tank Liq.	0.00	23.87	0.908	60	250	1.179	7143	39.47	0	65890	65890	39.470	0.220	**5.761**	**0.46**	**#REF!**
Fractionator OH	1.11	27.30	0.896	85	250	1.303	0	39.37	3327	0	3327	1.303	0.011	**2.900**	**0.71**	**#REF!**
Fractionator Bottom	0.00	27.30	0.896	85	250	1.303	8743	35.16	0	71843	71843	35.160	0.130	**5.761**	**0.57**	**#REF!**
Frac. Reboiler Return	2.31	45.50	0.815	199	253	1.999	0	40	11540	0	11540	1.999	0.011	**5.761**	**1.60**	**#REF!**
Frac. Product Liq.	0.00	45.50	0.815	199	253	1.999	7371	34.88	0	60086	60086	34.880	0.125	**5.761**	**0.48**	**#REF!**
Frac. Side Draw	0.00	45.50	0.815	199	253	1.999	8777	35.77	0	73373	73373	35.770	0.145	**5.761**	**0.57**	**#REF!**
Frac. Side Return						#DIV/0!	7371	34.88	0	60086	60086	#DIV/0!	0.125	**5.761**	**#DIV/0!**	**#REF!**
Stabilizer Feed	3.19	52.49	0.919	160	75	0.644	4525	39.43	18384	41698	60082	2.030	0.150	**9.750**	**8.22**	**#REF!**
Stabilizer OH	5.07	53.92	0.906	141	75	0.693	0	39.37	30015	0	30015	0.693	0.009	**9.750**	**12.04**	**#REF!**
Stabilizer Bottom	0.00	53.92	0.906	229	78	0.628	6749	37.19	0	58659	58659	37.190	0.161	**5.761**	**0.44**	**#REF!**
Stab. Reboiler Return	2.51	77.06	0.88	255	78	0.891	0	40	21236	0	21236	0.891	0.009	**7.625**	**6.62**	**#REF!**
Stab. Product Liq.	0.00	77.06	0.88	255	78	0.891	4285	37.59	0	37644	37644	37.590	0.164	**5.761**	**0.28**	**#REF!**
Reflux Cond. Outlet	4.08	50.92	0.907	120	75	0.677	857	36.26	22810	7262	30072	0.887	0.125	**9.750**	**9.42**	**#REF!**
Stab. Reflux Return	0.00	50.92	0.907	120	75	0.677	857	36.26	0	7262	7262	36.260	0.125	**2.900**	**0.06**	**#REF!**
Reflux Accum. Vapors	4.08	50.92	0.907	120	75	0.677	0	36.26	22810	0	22810	0.677	0.125	**7.625**	**9.36**	**#REF!**
										0						
Y-Grade Comp. Dis.	4.08	50.92	0.781	221	260	2.321	0	36.26	22810	0	22810	2.321	0.011	**5.761**	**2.73**	**#REF!**
Y-Grade Liq.	0.00	50.92	0.781	120	255	2.673	3086	31.36	0	22617	22617	31.360	0.100	**3.826**	**0.20**	**#REF!**
Y-Grade Pump	0.00	50.92	0.781	120	1250	13.103	2845	34.38	0	22859	22859	34.380	0.100	**2.900**	**0.18**	**#REF!**
Recycle Comp. Suction																
Recycle Comp. Interstage																
Recycle Comp. Discharge																
NGL Pipeline Pumps Suct.																
NGL Pipeline Pumps Dis.																
Y-Grade Suction Header																
Y-Grade Suction																
Y-Grade Discharge Header																
Y-Grade Discharge																