LINE DESIGNATION

					Design Criteria					Pipe Specification				Fitting				INSULATION / TRACING									Pressure Test								REFERENCE		IDENTIFIER			CONDITIONS		
ROW	Line Number	Size, NPS (inch)	Commodity	Phase	Design Press (kPag)	Design Temp. (°C)	Min. Design Metal Temp (°C)	H2S Concentration (%)	NACE Requirement	Pipe Grade	Schedule	Pipe Wall Thickness (mm)	Coorosion Allowance (mm)	Fitting Connection	Fitting Rating	PIPING CLASS	Piping WPS/PQR	Thickness (mm)	Insulation Type	Tracing Type	Hold Temperature (°C)	Internal Lining / Coating	X-Ray	Post Weld Heat Treatment	Hardness Testing	Other NDE	Test Pressure (kPag)	Test Duration (min)	Test Medium	Cleaning	Design Code	Origin	Termination	P&ID Drawing Numbers	Notes	JURISDICTION	OVERPRESS. PROTECTION	Line Number	Operating Pressure (kPag)	Operating Temperature (°C)	Revision
MAIN PROCESS																																										
1	501	8"	GF	Multi	1034	93.0	-29	0.0	No	A106 B	STD	8.2	1.5	BW	150	A	TIG/STK-2A-AW-STD rev1 / STK-1A-AW-LT rev1	38	PP	-	-	-	15%	No	None	Note 1	2688	60	Water		ASME B31.3	Client Inlet Connection	V-100 Suction Scrubber	6556-100	3	AB	PSV	8"-A-GF-501-38PP	0	70	0
2	502	6"	GF	Gas	1034	93.0	-29	0.0	No	A106 B	STD	7.1	1.5	BW	150	A	TIG/STK-2A-AW-STD rev1	38	PP	-	-	-	15%	No	None	Note 1	2688	60	Water		ASME B31.3	V-100 Suction Scrubber	K-110 Compressor	6556-100	3	AB	PSV	6"-A-GF-502-38PP	0	70	0
3	503	3"	GF	Gas	1034	204.0	-29	0.0	No	A106 B	STD	5.5	1.5	BW	150	A	TIG/STK-2A-AW-STD rev1	38	PP	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	K-110 Compressor	3"-AC-GF-504-38W	6556-100	3	AB	PSV	3"-A-GF-503-38PP	138	151	0
4	504	3"	GF	Gas	1034	204.0	-45	0.0	No	A333 6	STD	5.5	1.5	BW	150	A C	TIG/STK-2A-AW-STD rev1 / STK-1A-AW-LT rev1	38	W	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	3"-A-GF-503-38PP	E-120 Aftercooler	6556-100	3	AB	PSV	3"-AC-GF-504-38W	138	151	0
5	505	3"	GF	Multi	1034	204.0	-45	0.0	No	A333 6	STD	5.5	1.5	BW	150	A C	TIG/STK-2A-AW-STD rev1 / STK-1A-AW-LT rev1	38	W	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	E-120 Aftercooler	2"-A-GF-508 & Client Recover Vapors	6556-100	3	AB	PSV	3"-AC-GF-505-38W	138	49	0
6	508	2"	GF	Gas	1034	204.0	-29	0.0	No	A106 B	XS	5.5	1.5	SW	150	A	TIG/STK-2A-AW-STD rev1	-	-	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	3"-AC-GF-505-38W	8"-A-GF-501-38PP	6556-100	3	AB	PSV	2"-A-GF-508	138	49	0
7	509	1"	GF	Gas	1034	204.0	-29	0.0	No	A106 B	XS	4.5	1.5	SW	150	A	TIG/STK-2A-AW-STD rev1	38	PP	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	V-100 Suction Scrubber	3"-A-GF-503-38PP	6556-100	3	AB	PSV	1"-A-GF-509-38PP	0	70	0
LIQUIDS																																										
8	515	1"	LH	Liquid	1034	93.0	-29	0.0	No	A106 B	XS	4.5	1.5	SW	150	A	TIG/STK-2A-AW-STD rev1	38	PP	-	-	-	15%	No	None	Note 1	2688	60	Water		ASME B31.3	V-100 Suction Scrubber	P-101 SS Drain Pump	6556-100	3	AB	PSV	1"-A-LH-515-38PP	0	70	0
9	516	1"	LH	Liquid	1034	204.0	-29	0.0	No	A106 B	XS	4.5	1.5	SW	150	A	TIG/STK-2A-AW-STD rev1	38	PP	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	P-101 SS Drain Pump	Client Discharge Connection	6556-100	3	AB	OPPSD	1"-A-LH-516-38PP	70	70	0
10	518	1"	LH	Liquid	1034	93.0	-29	0.0	No	A106 B	XS	4.5	1.5	SW	150	A	TIG/STK-2A-AW-STD rev1	-	-	-	-	-	15%	No	None	Note 1	2688	60	Water		ASME B31.3	E-120 Aftercooler Condensate	P-101 SS Drain Pump	6556-100	3	AB	PSV	1"-A-LH-518	0	70	0
PSV/FLARE/BLOWDOWN																																										
11	530	2"	GF	Gas	1034	93.0	-29	0.0	No	A106 B	STD	3.9	3.2	BW	150	A	TIG/STK-2A-AW-STD rev1	38	PP	-	-	-	15%	No	None	Note 1	2688	60	Water		ASME B31.3	V-100 Suction Scrubber	PSV-1011	6556-100	3	AB	PSV	2"-A-GF-530-38PP	0	70	0
12	531	2"	GF	Gas	1034	204.0	-29	0.0	No	A106 B	STD	3.9	3.2	BW	150	A	TIG/STK-2A-AW-STD rev1	38	PP	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	3"-A-GF-503-38PP	PSV-1110	6556-100	3	AB	PSV	2"-A-GF-531-38PP	0	151	0
13	533	3"	DF	Gas	1034	204.0	-29	0.0	No	A106 B	STD	5.5	3.2	BW	150	A	TIG/STK-2A-AW-STD rev1	-	-	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	PSV-1011	Safe Location	6556-100	3	AB	OPPSD	3"-A-DF-533	0	20	0
14	534	2"	DF	Gas	1034	204.0	-29	0.0	No	A106 B	STD	3.9	3.2	BW	150	A	TIG/STK-2A-AW-STD rev1	-	-	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	PSV-1110	3"-A-DF-533	6556-100	3	AB	OPPSD	2"-A-DF-534	0	20	0
15	536	1"	DF	Gas	1034	204.0	-29	0.0	No	A106 B	XS	4.5	3.2	SW	150	A	TIG/STK-2A-AW-STD rev1	-	-	-	-	-	15%	No	None	Note 1	2069	60	Water		ASME B31.3	2"-A-GF-531-38PP	3"-A-DF-533	6556-100	3	AB	OPPSD	1"-A-DF-536	0	20	0

NOTES:
1 - 100% MT for WOL & SW, 15% RT SW/BW for fit-up, 100% Visual of all BW, WOL, SW & THRD
2 - Materials shall be purchased with HRC ≤ 22. WPS shall be qualified for low hardness.
3 - Commodity codes and line number format are generic, no specifics found in project documentation.

PROFESSIONAL ENGINEER JACOB CHUA ALBERTA
ID# 83392
2023-08-09

PERMIT TO PRACTICE
Heli Consulting Corp.
PERMIT NUMBER:
P13933
The Association of Professional Engineers and Geoscientists of Alberta
83392 8-AUG-23

VAPORTECH energy services inc.

NO	REVISION	BY	DATE
0	ISSUED FOR CONSTRUCTION	JC	2023-08-07

CNRL - SMITH OIL GAS CONSERVATION
VAPOUR RECOVERY PACKAGE
UNITS - 6556 C-F
DOC: 6556CF-ME-1000 REV 1