



BILL OF MATERIAL			
MARK	QTY	SIZE	DESCRIPTION
1	1m	60	PIPE, SCH.80S, SMLS, A312 TP304/304L
2	4	60	FLANGE, RFWN, CL 900, SCH.80S BORE, A182 F304/304L
3	5	7/8"x5 3/4"	(8) STUD, c/w 2 NUTS & INSUL. WASHERS, A320 Gr. L7M / A194 Gr. 7M
4	5	60	GASKET, RF, 3MM THK, FLEX, CL 900, SS-316
5	2	27	BALL VALVE, RP, THRD. CL 3000, NACE, A182 F304/304L
6	1	21	VALVE, NEEDLE, FxF, THRD, CL 6000, NACE, A182 F304/304L
7	1	60	WILIS CHOKE VALVE, MODEL #M1A c/w KEYSTONE EP1-2 ELECTRIC ACTUATOR
8	2	27	NIPPLE, SCH.80S SMLS, A312 TP304/304L TBE
9	2	21	NIPPLE, SCH.80S SMLS, A312 TP304/304L TBE
10	3	60x27	THREADOLET, THRD, CL 6000, FS, A182 F304/304L
11			
12	2	27	PLUG, THRD, CL 6000, FS, A182 F304/304L
13	1	21	PLUG, THRD, CL 6000, FS, A182 F304/304L
14	1	21	PRESSURE TRANSMITTER, 0-21000 kPa, 4-20 mA
15	1	21	P.I., 4 1/2" DIAL, BOTT. CONN., 0-21000 kPa
16	1	21	TEE, STR, THRD, CL 6000, FS, A182 F304/304L
17	1	60	BLANCETT QUIKSERV TURBINE METER c/w CENTER RINGS,
18	2	7/8"x8 1/2"	(8) STUD, c/w 2 NUTS & INSUL. WASHERS, A320 Gr. L7M / A194 Gr. 7M
19	1	89	FLANGE, RFWN, CL 900, SCH.40S BORE, A182 F304/304L
20	1	89	GASKET, RF, 3MM THK, FLEX, CL 900, SS-316
21	1	60	Y-STRAINER, 45 DEG, SCH 80S, CL 900, A403 GR. WP304/304L
22	1	60	ELBOW, 90 DEG, LR, SCH. 80S, BW, A403 GR. WP304/304L
23	2	89x60	CONC. RED, SCH.40S x SCH.80S, BW, A403 GR. WP304/304L
24	1	89	FLANGE, RTJ, CL 900, SCH.40S BORE, A182 F304/304L
25	1	89	GASKET, RTJ, CL 900, OVAL RING, SS-316 R31
26	2	3/4"x1/2"	GAUGE VALVE, THRD, CL 6000, FS, A182 F304/304L

LINE LIST TABLE

THE PIPELINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE CODES, REGULATIONS AND SPECIFICATIONS AND AS SPECIFIED IN THE FOLLOWING LINE LIST TABLE:

LINE	SIZE	SERVICE	SPEC	MOP	DESIGN PRESSURE	HYDROTEST PRESSURE	X-RAY	PWHT	CORROSION ALLOW.	DESIGN TEMP MIN/MAX	SCHEDULE	INSUL/TRACE
60-PW-DSS-220-38H-ET	60	WATER	DSS	14892 kPa	14892 kPa	22338 kPa	100%	NO	0.0mm	-45/149°C	80S	38H/ET

NOTE:
THIS DRAWING IS BASED ON INCOMPLETE INFORMATION. FIELD CONFIRM ORIENTATION, DISTANCES, EXISTING EQUIPMENT AND DIMENSIONS PRIOR TO USING THIS INFORMATION FOR ANY NEW CONSTRUCTION.

Prepared By: _____

Engineering and Permit Stamps

REV	REVISION	DATE	BY	CHK	APP

Prepared for: _____



CRESCENT POINT ENERGY CORP			
MANSON			
WATERFLOOD INJECTION WELLS PIPING ISOMETRIC WATER INJECTION WELL			
DRAWING No:	SCALE:	CLIENT JOB No:	DRAWING No:
WD	NONE		
REV	2		