



TAG #/s	QTY	DESCRIPTION
DPI 100	1	0-60 psi, 3" face, dual scale, D.F., 1/4" FNPT S.M., Wika 700.01
ESDV 100	1	3" 1500# RTJ full port ball valve, Kuka CFA51LV/LJ Nace, low temp, trunion mounted c/w Matryx ESA-600-6-100 pneumatic spring return actuator, fail close, 100 psi supply
FE 105	1	4" 600# RF North Star Junior orifice fitting, c/w 4" Sch 80 AGA 3C meter run, beveled outer ends, (1) 1/2" 3000#, (1) 3/4" 3000#, and (1) 1" 3000# TOL downstream connections
FFSD 100	1	Kimray HT-12-PG pneumatic pilot guard, 5-30 psi supply, direct acting, steel body, tapped vent
HLSL 120	1	Louvers and Gauges LG12 2" NPT internal high level shutdown valve
HTSD 100	1	Kimray T-12-DA pneumatic temperature controller 5-30 psi supply, indirect acting, cast iron body
LG 200/201	2	Louvers & Gauges SG48BC calibrated rate/level gauge
LG 100	1	Essex 84A 1/2" gauge valves c/w Redline glass
PC 100	1	Fisher 4150 K pressure controller, direct acting, 0-1500 psi range, 316 SS bourdon tube, 6-30 psi output
PCV 100	1	2" 1500# RTJ x 2" 600# RF Willis M1A angle body choke valve, two(2) 5/8" holes ceramic disks, c/w dynaflo actuator, fail closed, 6-30 psi supply
PCV 120	1	1" NPT Fisher 627 regulator, D.I. body, 5-20 psi range, 1/4" Aluminum trim
PI 100/103	2	0-5000 psi, 4" face, dual scale, S.S., L.F., 1/2" L.M., Nuova Fima 18/3A-425, Nace
PI 101	1	0-30 psi, 2 1/2" face, dual scale, D.F., 1/4" L.M., Nuova Fima MI-63-09
PI 110	1	0-15 psi, 2 1/2" face, dual scale, D.F., 1/4" L.M., Wika 111.10
PI 115	1	0-30 psi, 2 1/2" face, dual scale, D.F., 1/4" L.M., Nuova Fima MI-63-10
PI 102/120	2	0-200 psi, 2 1/2" face, dual scale, D.F., 1/4" L.M., Nuova Fima MI-63-14
PRV 100/101/103/104/105/110	6	1/4" NPT Fisher 67 CFR regulator, 0-30 psi range
PRV 102	1	1/4" NPT Bellofram regulator, 0-120 psi range
PRV 120	1	1" NPT Fisher 627 regulator, steel body, 70-150 psi range, 1/8" S.S. trim, nylon disk
PSHL 101	1	Fisher 4660 Hi-Lo pressure Pilot, 75-1425 psi range, 316 SS bourdon tube, set @ 1200 psig rising, 80 psig falling
PSV 120	1	1" x 1" NPT Wellmark W9501 RS relief valve set @ 150 psig, Nace primary zone
PSV 200	1	1/4" MNPT x 1/4" Swagelok Nupro SS-4R3A1-C relief valve c/w 177-R3A-K1-C spring, 750-1500 psi range
PSV 201	1	1/4" MNPT x 1/4" Swagelok Nupro SS-4R3A1-F relief valve c/w 177-R3A-K1-f spring, 3000-4000 psi range
SDV 100	1	1" NPT Kimray 112-SMT-DAB motor valve, P.O., cast iron body, 125 psi MAWP
TC 100	1	Kimray T-12-DA pneumatic temperature controller 5-30 psi supply, indirect acting cast iron body
TCV 100	1	1" NPT Kimray 112-SMT-DAB motor valve, P.O., cast iron body, 125 psi MAWP
TH 100	1	Jayco Thief Hatch model JT-8, std. 16oz press. 0.4 oz. Vacuum
TI 100	1	0 to 250° F, dual scale, 1/2" NPT C.B.M., bimetallic, 3" dial, 2 1/2" stem, Gaugetech GT3
TI 101	1	0 to 250° F, dual scale, 1/2" NPT C.B.M., bimetallic, 3" dial, 2 1/2" stem, Gaugetech GT3
TI 103	1	0 to 250° F, dual scale, 1/2" NPT C.B.M., bimetallic, 3" dial, 2 1/2" stem, Gaugetech GT3
TI 110	1	0 to 250° F, dual scale, 1/2" NPT C.B.M., bimetallic, 3" dial, 4" stem, Gaugetech GT3
TW 100/101	2	1/2" x 3/4" x 2 1/2" lg 316 SS thermowell
TW 102A/102B	2	Kimray SS12 steel separable socket, 1" MNPT x 1/2" FNPT x 12" lg
TW 103	1	1/2" x 3/4" x 2 1/2" lg 316 SS thermowell
TW 110	1	1/2" x 3/4" x 4" lg 316 SS thermowell
UY 100	1	1/4" NPT Fisher 167A switching valve c/w 18-30 psi spring range
BA 60	1	2" NPT ball valve, Dynaquip DY-VME3-A9 65, 2000# WOG
BA 41	1	1" NPT ball valve, Nutron T3-R10S40B, 4000# WOG
BA 40	4	1" NPT ball valve, Fortune 413-TN, 2000# WOG
BA 20	8	1/2" NPT ball valve, Dynaquip DY-VME3-A9 04, 2000# WOG
CH 10	2	1/4" NPT piston check valve, Nupro B-4CP2-1, 3000 psi MAWP
GL 41	1	1" NPT globe valve, GWC, class 1500#, A 105 body, 13% trim, C.S.C.
NE 20	4	1/2" NPT needle valve, Century CM2-3-F44T-B-V
NE 10	16	1/4" NPT needle valve, Param PNV-H-CS-4-FF
ST 20	2	1/2" NPT Y-strainer, Alta Strainer, YS-800
H-110	1	12,000 BTU/HR Catadyne heater, 12 volt start c/w regulator, vent hood, thermostat, safety shut-off, protection grill and 30 ft. of battery leads. (natural gas)
F-130	1	Headline 370-A filter housing, 1/2" NPT connection c/w 25-178-70C filter element
P-200/201	2	Chemical pump CVS model CVS-51-38-MVH packing c/w 3/8" plunger & micron valve, hard, 6000 psig
V 120	1	8 5/8" OD x 24" S/S x 150 psig vertical scrubber

- NOTES:**
- ALL INSTR. TUBING TO BE 3/8" DIA. 304 SS c/w CADMIUM PLATED CARBON STEEL SWAGelok TUBE FITTINGS.
 - ALL PROCESS TUBING TO BE 3/8" DIA. 304 SS c/w 316 SS SWAGelok TUBE FITTINGS.

DWG. NO.	REFERENCE DRAWINGS	REV	DESCRIPTION	DATE	BY
		△	ADDED CHEMICAL PUMPS & THIEF HATCH; ESDV TO BE SHIP LOOSE.	12/03/03	J.J.
			REVISED AS NOTED.		
		△	ADDED PI-102 & 1" BALL VALVE, REVISED ESDV TO KUKA, LOW TEMP. REVISED AS NOTED.	12/19/03	Y.P.
		△	REVISED AS PER BUILT	01/20/04	Y.P.



CUSTOMER: **ENCANA RESOURCES** LOCATION: **12-33-058-24 W5M**

c/o TUNDRA ENGINEERING LTD. **07-03-059-24 W5M**
16-32-058-24 W5M

MECHANICAL FLOW DIAGRAM
 1.25 MM BTU/HR LINE HEATER SKID PACKAGE (SWEET)

DATE: 11/30/03 DRN BY: J.J. SCALE: 1":1'-0" CHKD BY: APPRD BY: DWG NO: C-2134-B REV: 3

(3) REQ'D
 TIME CARD
 C-2134-PP