



BILL OF MATERIAL

ITEM	QTY.	CODE No.	DESCRIPTION
001	4	NPN	ALLTEMP THERMOCOUPLE TYPE K MODEL A914-J24-USS-6'
			C/W 1010 JACK
002	8	BTW-S064	THERMOWELL, 1/2" X 3/4" NPTM X 4' LONG 316SS U= 2 1/2"
003	2	NPN	FISHER 357, 1"-300HRF, 0-35PSI, FAIL CLOSED, NACE
004	2	BF1-2660R	LC, 2"NPT FISHER 2680A-67 NACE PVC DISPLACER C/W REGULATOR
005	2	BMU-L12S	LEV SW, MURPHY L-1200 SS C/W BUDYGLASS FLDAT, SOUR, 2" NPT
006	2	BDA-11RMN	LVL GAUGE, DANIEL #11RM-N NACE CS W/ REFLEX FLAT GLASS, 2900
007	2	BDA-1SN06	SET GAUGE VLV, DANIEL #1S-N, NACE, 3/4" NPT, CS, 3730#
009	6	BMU-T3X3014	BALL VALVE, NUTRON T3F15R03S 1-1/2"-300# NACE FP
010	2	BWV-136X04	BALL VALVE, WKM B136-CS2-02-S2 HL 1/2" RP NACE/ LATCH HANDLE
011	2	BNE-48SX14	PISTON CHECK VALVE, 1-1/2" SW NEWCO 48SLF24-3 800# WDG NACE
012	1	BFA-26JB12	FARRIS PSV, 26JB12/S7 (NACE) 2-1/2"-300# X 4'-150#, 1.287
			SET @ 635 PSIG
013	1	BFA-26GB13	FARRIS PSV, 26GB13/S7 (NACE) 1-1/2"-600# X 2-1/2"-150# .503
			SET @ 1250 PSIG
014	3	BMU-T3X6030	BALL VALVE, NUTRON T3R30R06S 3"-600# NACE RP
015	1	NPN	FISHER ET, 2"-600HRF, FD, 6-30#, NACE
016	2	BCS-0631	CDNE STR, 6" 300# CS, 100% FLOW, 316SS, 40 MESH, PIPE
017	2	BTW-S066	THERMOWELL, 1/2" X 3/4" NPTM X 6' LONG 316SS C/W 1/2" leg
018	2	BTR-30601	TI, TREND 33060 6" STEM BM 3" D DUAL 0-250 DEG. F
024	1	BMU-VS2	VIB SW, MURPHY VS-2 ELECTRIC W/ MANUAL RESET
025	1	BMU-T3X6010	BALL VALVE, NUTRON T3R10R06S 1"-600# NACE RP
028	4	XWEDGESUPPDR	BOTTLE WEDGE SUPPORT (SHIPPED LOOSE-INSTALLED BY OTHERS)
029	2	XDRIFICEPLAT	DRIFICE PLATE, TYPE S20 1/8 THK, 6"-300HRF, I.D.= 3.125"
030	2	XDRIFICEPLAT	DRIFICE PLATE, TYPE S20 1/8 THK, 4"-600HRF, I.D.= 2.5"
032	2	NPN	FISHER ACTUATOR SUPPLIED BY AIR-X
033	2	BF1-067	REG, 1/4" FISHER #67AFR-362, S-35 PSI (WD P1)
034	2	BW1-CB2C006	PI, WIKA 1111.10, 2" BM 1/4" DUAL 0-60 PSI
041	4	BTR-30402	TI, TREND 33040 4" STEM BM 3" D DUAL 50-500 DEG. F
042	4	BTE-TW7525S	T'WELL, CCS, 3/4", 2 1/2" U, 316SS #6509TW34050416, 2" T LAG
043	4	BTE-69TU16	TEMP SW, CCS 690TU16, 400F GP #85-315R 16S-308F SS 5" cap
044	3	BCE-CM2IX	VALVE, CENTURY, CM2-1-M44T-D-T 1/2" X 1/2" M X F, SS, NACE
046	2	NPN	T'WELL, 1/2"x1"x9" LONG 316SS, .385" BORE
047	2	BFD-43AP15	TEMP CON FOXBORD 43AP-PA42N, 15 FT CAP & ELEM, 1/2" BUSHING
048	4	BMU-T3X3014	BALL VALVE, NUTRON T3F15R03S 1-1/2"-300# NACE FP
050	1	NPN	DRIFICE GASKET 6"-300# WITH 3.625" BORE
051	2	XDRIFICEPLAT	DRIFICE PLATE, TYPE S20 1/8 THK DIMENSION, 6"-300#, 3.0" BORE
052	2	XDRIFICEPLAT	DRIFICE PLATE, TYPE S20 1/8 THK DIMENSION, 4"-300#, 2.25" BORE
053	1	NPN	DRIFICE GASKET 4"-600# WITH 2.5" BORE

GENERAL NOTES

- THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS STAMPED 'RELEASED FOR MANUFACTURE'.
- ALL PROCESS PIPING TO BE CLAMPED AS NEAR TO ALL ELBOWS AS POSSIBLE, REFER TO DRAWING 12.8006.
- FOR DESIGN PARAMETERS REFER TO PROJECT SCOPE SUMMARY DRAWING.
- FOR CUSTOMER CONNECTIONS REFER TO GENERAL ARRANGEMENT DRAWING.
- PIPE NIPPLES 1-1/2" AND SMALLER TO BE MIN. XXH WALL THICKNESS.

LEGEND

○	CUSTOMER CONNECTIONS	▽	LOW POINT DRAIN (PLUGGED)
○	LOCALLY MOUNTED	▬	FULL BORE SPACER PLATE 1/8" THK
○	MAIN CONTROL PANEL	▽	3/16" WEEP HOLE DRAIN
○	LOCAL GAUGE PANEL	◇	MANUFACTURED COMPONENTS
○	VENT LINE (TUBING)	◇	UTILITIES TUBING
○	DRAIN LINE (TUBING)	□	MAJOR COMPONENTS
○	DIL LINE (TUBING)	□	ITEM TO BE SHIPPED LOOSE FOR FIELD INSTALLATION
○	INSTRUMENT LINE (TUBING)		
○	INSTRUMENT SUPPLY GAS		

5	REVISED BYPASS CONTROL VALVE FROM 1" TO 2"	GKW	97-05-04
4	AS BUILT	DKW	97-03-26
3	REVISED BOTTLE SIZE FOR CONSTRUCTION	DMF	97-01-09
2	FOR CONSTRUCTION	DRD	96-09-23
1	FOR APPROVAL	DRD	96-09-12
	PRELIMINARY	DRD	96-08-30
REV	DESCRIPTION	DWN BY	DATE

Enerflex Systems Ltd.

CALGARY, EDMONTON, GRANDE PRAIRIE, MEDICINE HAT, RED DEER, FORT McMURRAY, FORT ST. JOHN, B.C., VANCOUVER, B.C., LLOYDMINSTER, SASKATCHEWAN, SYDNEY, AUSTRALIA

TITLE: **PROCESS & INSTRUMENTATION DIAGRAM**
ARIEL JGH/4, WAUKESHA L5790GL, AIR-X-CHANGERS 156EH COMPRESSOR PACKAGE-(TAG : C-6150)

FOR: **NORCEN ENERGY**
(HAYS GAS PLANT-1996 EXPANSION)

CONSULTANT: **DPH ENGINEERING** P.O.: 2345-K100
 DATE: 96-08-30
 SCALE: N.T.S.

LSD: 11-31-13-14-W4M
 JOB No.: **96077**
 DWG No.: **PF96077**
 OPER'N #: **50**