

MASTER BILL OF MATERIALS

C.N.R.

JOB: BE 97-65
DATE: MAR 16/98
REV: E-AS BUILT #3

ITEM	SUPPLIER	QUANT	DESCRIPTION
100	BIDELL	1	ELECTRIC MOTOR "U.S. ELECTRIC" 50 HP @ 1800 RPM, 460 V AC / 3 Ph / 60 Hz, EXPLOSION PROOF, FOR INVERTER DUTY, CLASS "F" INSULATION, 1.0 SERVICE FACTOR, FRAME SIZE 326TC, NEMA "C" FACE, WIRING BY OTHERS.
			BE DWG. C.N.R.L. S/N:
			NO: REF. NO:
			97-65A 98-12 B0296009874-002R-11
			97-65B 98-13 B0296009874-002R-5
			97-65C 98-14 B0296009874-002R-16
			97-65D 98-15 B0296009874-002R-19
			97-65E 98-16 B0296009874-002R-8
			97-65F 98-17 B0296009874-002R-12
			97-65G 98-18 B0296009874-002R-10
			97-65H 98-19 B0296009874-002R-20
			97-65I 98-20 B0296009874-002R-18
			97-65J 98-21 B0296009874-002R-14
			97-65K 98-22 B0296009874-002R-4
			97-65L 98-23 B0296009874-002R-13
			97-65M 98-24 BE03C3640006
			97-65N 98-25 JD0363820007
			97-65O 98-26 B0296009874-002R-1
			97-65P 98-27 B0296009874-002R-3
			97-65Q 98-28 B0296009874-002R-2
			97-65R 98-29 B0296009874-002R-6
			97-65S 98-30 B0296009874-002R-9
			97-65T 98-31 B0296009874-002R-7

200	BIDELL /SULLAIR	1	OIL FLOODED "SULLAIR" ROTARY SCREW COMPRESSOR - MODEL PDH-127.151 - NEMA "C" MOUNTING FLANGE - DIRECT DRIVEN AT 1800 RPM - ROTARY VALVE FOR MANUAL CAPACITY CONTROL
			BE DWG. C.N.R.L. S/N:
			NO: REF. NO:
			97-65A 98-12 006-98001058
			97-65B 98-13 006-98001833
			97-65C 98-14 006-98001980
			97-65D 98-15 006-98001831
			97-65E 98-16 006-98001056
			97-65F 98-17 006-98001977
			97-65G 98-18 006-98001979
			97-65H 98-19 006-98001978
			97-65I 98-20 006-98001832
			97-65J 98-21 006-98002653
			97-65K 98-22 006-98002654
			97-65L 98-23 006-98001057
			97-65M 98-24 006-98002655
			97-65N 98-25 006-98002656
			97-65O 98-26 006-98002652
			97-65P 98-27 006-98003387
			97-65Q 98-28 006-98003388
			97-65R 98-29 006-98003386
			97-65S 98-30 006-98003390
			97-65T 98-31 006-98004524
210	BIDELL /SULLAIR	1	DRIVE COUPLING, "LOVE JOY" SAGA # S-22 c/w SPECIAL COMPR. HUB @ 2 1/2" DEEP & DODGE #1615 x 1 5/8" TAPER LOCK BUSHING (SULLAIR P/N 49389), ROUGH BORE, MACHINE AT BIMAC.
215	P.	1	SPACER PLATE FO FIT ON NEMA "C" MOUNT, SA-36 CARBON STEEL, DWG. No: 97-65-60, 61
252	BIDELL	1	THERMOSTATIC VALVE "FLUID POWER", SIZE 1 1/2"-NPT, MODEL S1530T160, STEEL BODY, MAWP= 400 PSIG AT 300 Deg.F, HYDROTEST= 600 PSIG, SET @ 160 Deg.F
254	BIDELL	1	SINGLE FILTER ASSEMBLY "DONALDSON" MODEL HAK05: - 1 1/2"- NPT CONNECTIONS - REPLACEMENT FILTER - BUILT IN INDICATOR - FLOW: 100 USGPM - MAWP = 500 PSIG
262	BIDELL	1	MINIMUM BACK PRESSURE REGULATOR "KIMRAY" MODEL 230-SGT-BP-D, 2"-NPT, FAIL OPEN, 3 TO 300 PSIG OPERATING RANGE, MAWP = 300 PSIG

300 BIDE LL 1 PROCESS AND OIL COOLER "GEA RAINEY" MODEL H36-0433 c/w FOLLOWING:
A.C. SECTION:
- MAWP = 400 PSIG @ 300 Deg.F
- 2"- 300# RF IN & OUT
- 1/16" CORR. ALLOWANCE
- X-RAY PER ASME
- MANUAL LOUVRE

OIL SECTION:
- MAWP = 400 PSIG @ 300 Deg.F
- 2"- 300# RF IN & OUT
- 1/16" CORR. ALLOWANCE
- X-RAY PER ASME
- FAN DIAMETER 36", X-P MOTOR, 460 V/3 Ph/60 Hz, 5 HP @ 1200 RPM, DIRECT DRIVE
- MANUAL LOUVRE

BE DWG. NO:	C.N.R.L. REF. NO:	S/N:
97-65A	98-12	T10541-3
97-65B	98-13	T10541-12
97-65C	98-14	T10541-14
97-65D	98-15	T10541-5
97-65E	98-16	T10541-4
97-65F	98-17	T10541-7
97-65G	98-18	T10541-15
97-65H	98-19	T10541-1
97-65I	98-20	T10541-2
97-65J	98-21	T10541-6
97-65K	98-22	T10541-18
97-65L	98-23	T10541-20
97-65M	98-24	T10541-13
97-65N	98-25	T10541-19
97-65O	98-26	T10541-8
97-65P	98-27	T10541-16
97-65Q	98-28	T10541-10
97-65R	98-29	T10541-17
97-65S	98-30	T10541-9
97-65T	98-31	T10891-1

461 P. 1 1/4"- NPT IN-LINE CHECK VALVE "DURABLA" OR EQUAL

465 P. 1 SWING CHECK VALVE "CRANE" OR EQUAL, 1 1/2"- NPT, CLASS 800# WOG

480 P. 1 WAFER STYLE CHECK VALVE, "WHEATLEY", METAL SEAL, SINGLE FLAPPER, 3"-300# RF ANSI, 3/4" THICK

501 P. 1 VERTICAL INLET FILTER SEPARATOR
8 5/8" OD x 5'- 3" S/S:
- D.P.= 400 PSIG @ 300 Deg.F
- 3"- 300# RF INLET AND OUTLET
- 8"- 300# TOP FILTER ACCESS
- 1/16" CORROSION ALLOWANCE
- X-RAY PER ASME UW-11a(5b)
- ONE FILTER P/N: FG 324
- ONE MESH PAD 6" THICK
9# DENSITY, 304 STAINLESS STEEL

530 P. 1 HORIZONTAL LUBE OIL SEPARATOR / OIL SUMP
20" O.D.x 5'- 3" S/S
- D.P.= 350 PSIG @ 300 Deg.F.
- 2 1/2"-300# RF INLET
- 2"- 300# RF OUTLET
- 1/16" CORROSION ALLOWANCE
- X-RAY PER ASME UW 11a(5b)
- MESH PAD, TYPE 304 STAINLESS STEEL, 6" THICK x 9# DENSITY
- ELLIPTICAL ELEMENT ACCESS 11"x 15"
- ONE REPLACEABLE COALESCER ELEMENT P/N 44038

561 P. 1 START-UP CONE STRAINER 4"-300# FF, FULL FACE, 40 x 40 TYPE 304 STAINLESS MESH ON PERFORATED CARBON STEEL BACKING, 150% OPEN AREA

570 P. 2 Y-STRAINER, "MUESSCO" MODEL 11, 1/4"- NPT, CAST IRON, MAWP = 400 PSIG @ 150 Deg.F

575 P. 1 Y-STRAINER, "MUESSCO" MODEL 11, 1 1/2"- NPT, CAST IRON, MAWP = 400 PSIG @ 150 Deg.F

590 BIDE LL /SULLAIR 2 SIGHT FLOW GLASS, 3/8" NPT, P/N 46559

601 P. 2 BALL VALVE, "TRUELINE" OR EQUAL, 3/8"- NPT, CLASS 800 WOG, CARBON STEEL BODY

604 P. 3 BALL VALVE, "TRUELINE" OR EQUAL, 1"- NPT, CLASS 800 WOG, CARBON STEEL BODY

644 P. 1 GLOBE VALVE, "TRUELINE" OR EQUAL, 1"- NPT, CLASS 800 WOG, CARBON STEEL BODY

682 P. 1 NEEDLE VALVE, "CENTURY" MODEL CM2, 1/2"- MNPT x 1/2"- FNPT CONNECTIONS, CARBON STEEL, MAWP = 6000 PSIG @ 100 Deg.F

688 P. 1 NEEDLE VALVE, "CENTURY" MODEL CM2, 3/4"-MNPT x 1/2"- FNPT CONNECTIONS, CARBON STEEL, MAWP = 6000 PSIG @ 100 Deg.F

689	P.	2	NEEDLE VALVE, "CENTURY" MODEL CM2, 3/8"- MNPT x 3/8"- FNPT CONNECTIONS, CARBON STEEL, MAWP = 6000 PSIG @ 100 Deg.F
700	BIDELL /P.I.C.	1	CLASS 1, DIV. 1, ANNUNCIATOR / CAPACITY CONTROLLER "MURPHY" EMS448EXCC c/w FOLLOWING: - XCE091105 X-P WALL MOUNTD ENCLOSURE - 5 ANALOG INPUTS: SUCTION PRESSURE, DISCHARGE PRESSURE, OIL DIFFERENTIAL PRESSURE, COMPRESSOR DISCHARGE TEMPERATURE AND OIL TEMPERATURE - 6 DISCRETE INPUTS: HIGH LIQUID LEVEL INLET SCRUBBER, UNIT VIBRATION, LOW OIL LEVEL OIL SEPARATOR, LOAD, UNLOAD, AUTO/MANUAL AND STOP LOAD - 4 OUTPUTS: LOAD, UNLOAD, START AND STATUS - CAPACITY CONTROL BY OPERATING V.F.D. (SUPPLIED BY CUSTOMER) - POWERED BY 24 V DC CUSTOMER SUPPLY
711	BIDELL	1	INLET FILTER SEPARATOR LIQUID PUMP, "VIKING" SPUR GEAR PUMP MODEL SG40570, 1/2"- NPT CONNECTIONS, MAWP = 500 PSIG @ 225 Deg.F, 5 US GAL/MIN CAPACITY, MECHANICAL SEAL, DRIVEN BY NEMA "C" MOUNTED X-P ELECTRIC MOTOR, 1.5 HP AT 3600 RPM, 230-460V/3/60
720	P.	1	GAUGE GLASS, "DANIEL" REFLEX GLASS 91RL c/w 1S COCKS OR EQUAL, 3/4" NPT, 1800 PSI MAWP @ 100 Deg.F
722	P.	1	GAUGE GLASS, "DANIEL" REFLEX GLASS 91RL c/w 1S COCKS OR EQUAL, 3/4" NPT, 1800 PSI MAWP @ 100 Deg.F
741	P.	1	INLET SEPARATOR HIGH LIQUID LEVEL SHUTDOWN, "MURPHY" L1200, 2"- NPT, BUOYGLASS FLOAT, MAWP = 1500 PSIG @ 300 Deg.F
742	P.	2	LEVEL SENSOR FOR LIQUID PUMP OPERATION, "MURPHY" L1200, 2"- NPT, BUOYGLASS FLOAT, MAWP = 1500 PSIG @ 300 Deg.F
743	P.	1	OIL SEPARATOR LOW OIL LEVEL, "MURPHY" L1200, 2"- NPT, BUOYGLASS FLOAT, MAWP = 1500 PSIG @ 300 Deg.F, c/w 4 1/2" OD EXTERNAL CAGE (REGISTERED FITTING)
750	BIDELL /P.I.C.	2	TEMPERATURE SENSOR / TRANSMITTER "MURPHY" RTDT, 100 OHM PLATINUM RTD, X-P HEAD, c/w 3/4"- NPT 304 SS THERMOWELL 2 1/2" U-LENGTH (c/w CONTROL PANEL)

756	BIDELL /P.I.C.	1	SUCTION PRESSURE TRANSMITTER "MURPHY" PXMS100, STAINLESS STEEL.
757	BIDELL /P.I.C.	1	OIL HEADER PRESSURE TRANSMITTER "MURPHY" PXMS300, STAINLESS STEEL.
758	BIDELL /P.I.C.	1	DISCHARGE PRESSURE TRANSMITTER "MURPHY" PXMS300, STAINLESS STEEL.
780	BIDELL /P.I.C.	1	VIBRATION SENSOR/SHUTDOWN, "MURPHY" #VS2EX, EXPLOSION PROOF, c/w MANUAL RESET, SPDT SWITCH, CALIBRATE @ START-UP (c/w CONTROL PANEL)
800	P.	1	P.I. "WIKA" OR EQUAL, 0-300 PSIG RANGE, DUAL SCALE, 2 1/2" DIA. LIQUID FILLED, 1/4"-NPT BOTTOM CONNECTION, 304 SS BOURDON TUBE
851	BIDELL	1	DISCHARGE RELIEF VALVE, "FARRIS" MODEL 2740UL OR EQUAL, 3/4"- MNPT x 1"- FNPT, SET @ 300 PSIG, 0.06 SQUARE INCH ORIFICE
852	P.	1	OIL PUMP RELIEF VALVE, "MERCER" OR EQUAL, 3/4"-NPT x 3/4"-NPT, SET AT 25 PSIG
905	BIDELL	1	STEEL FRAMING, REMOVABLE WALL PANELS, SHED TYPE INDUSTRIAL ENCLOSURE/BUILDING c/w FOLLOWING: - 4'- 10" WIDE x 8' LONG x 5'- 9" EAVE - 22 ga PREPAINTED EXTERIOR, BONE WHITE WITH NATIONAL BLUE TRIM - 22 ga PREPAINTED BONE WHITE INTERIOR - R-12 FIBERGLASS INSULATION - 4 mil VAPOUR BARRIER - ONE 18"x 18" WALL LOUVER c/w CLOSURE & SCREEN - ONE DOUBLE DOOR - REMOVABLE SECTION FOR LUBE OIL SEPARATOR'S FILTER & GAUGE GLASS
908	P.	1	EXPLOSION PROOF ELECTRIC HEATER, "RUFFNECK" MODEL XL412-208160-3, 208 V AC, 1 Ph, 60 Hz, 10250 BTU, c/w MOUNTED X-P THERMOSTAT MODEL XT-111, WIRING BY OTHERS.
910	P.	1	100 WATTS "KILLARK" INCANDESCENT LIGHT FIXTURE

SUPPLIER CODE

BIDELL	= BIDELL EQUIPMENT Inc.
P.	= PACKAGER (BIMAC INDUSTRIES Ltd.)(JOB No:8000)