



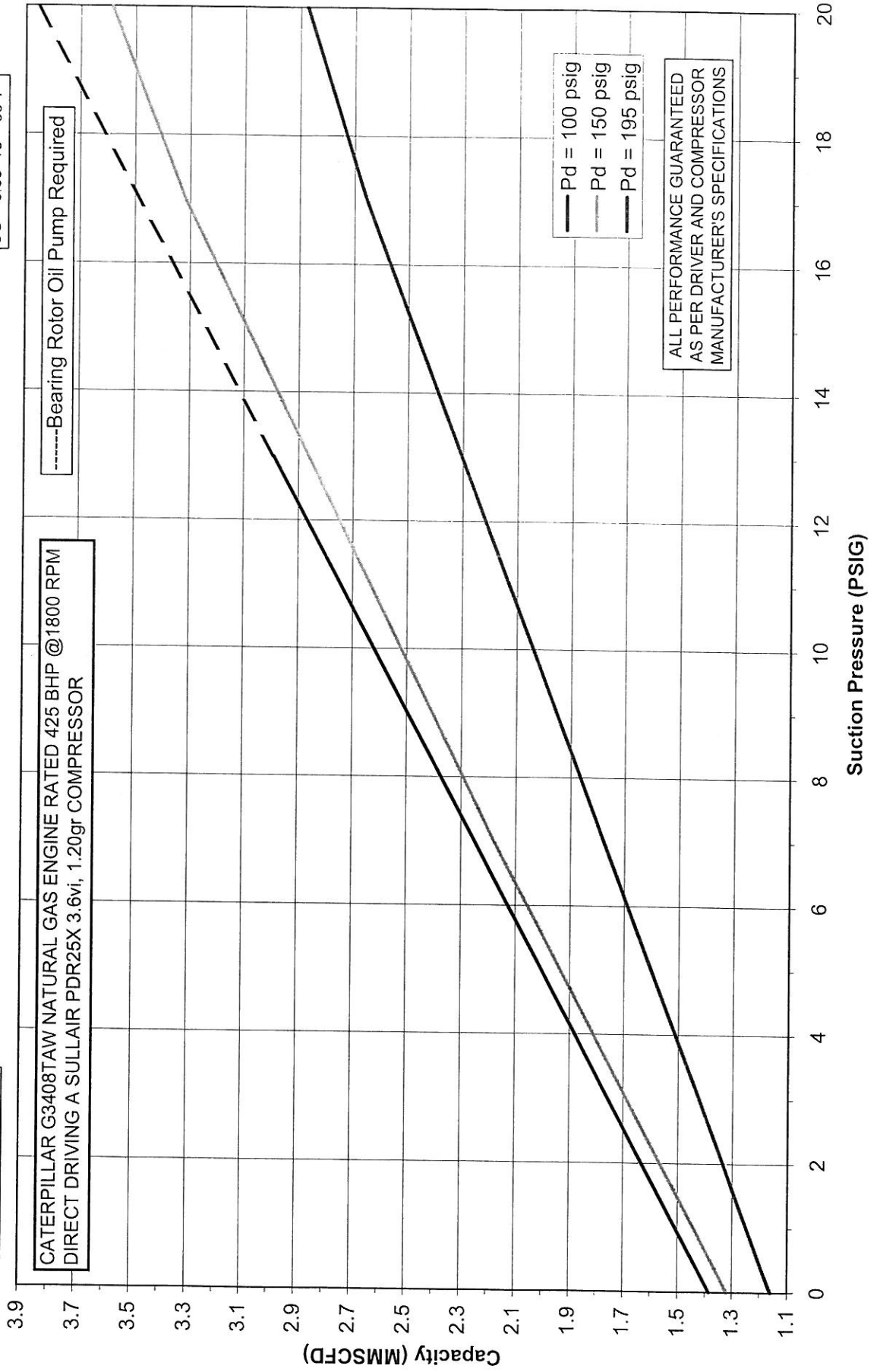
Apache Corporation BE-03-204 & BE-03-220

ELEVATION = 2500 FEET
AMBIENT = 95°F

GAS TYPE = SWEET
SG = 0.65 Ts = 60°F

CATERPILLAR G3408TAW NATURAL GAS ENGINE RATED 425 BHP @1800 RPM
DIRECT DRIVING A SULLAIR PDR25X 3.6vi, 1.20gr COMPRESSOR

-----Bearing Rotor Oil Pump Required



Job Description:
Customer Name: Apache

Job/Run Ref No: 03-20/03-220
Customer Ref No:

RESULTS (Rating at Given Conditions)

Capacity Loading	100.0	100.0 %
Volume Flow Predicted	2.991	mmscfd
Mass Flow Predicted	103.2	lb/min
Power Required	308.4	bhp
Torque Required	899.9	ft-lb
Efficiency, Volumetric	NA	%
Efficiency, Adiabatic	NA	%
Oil Flow, Total	39.5	USgpm
Oil Flow, Brgs & Gears	9.0	USgpm
Oil Flow, Injection	30.4	USgpm
Heat Load, Oil Cooler	5,808	Btu/min
Heat Load, Aftercooler	4,157	Btu/min

SITE CONDITIONS	
Elevation Above Sea Level	2500 feet
Barometric Pressure	13.400 psia
PRESSURES	
Suction Flange, Skid	13.00 psig
Suction Loss, Skid	1.00 psi
Suction Flange, Compr	12.00 psig
Discharge Flange, Compr	103.00 psig
Discharge Loss, Skid	3.00 psi
Discharge Flange, Skid	100.00 psig
Pressure Ratio, Compressor	4.58
Pressure Loss, Oil System	8.00 psi

TEMPERATURES	
Ambient Air	95.0 °F
Compressor Suction	60.0 °F
Compressor Discharge	200.0 °F
Aftercooler Outlet	120.0 °F
Compressor Injection Oil	160.0 °F
GAS PROPERTIES (given Specific Gravity)	
Specific Gravity	0.650
Mole Weight	18.785
Specific Heat Ratio, Cp/Cv	1.266
Specific Heat, Cp	0.503 Btu/lb/°F
Inlet Compressibility	0.995

COMPRESSOR	
Rotor Diameter	255.0 mm
Male Rotor L/D	2.22
Volume Ratio Type	Fixed
Internal Volume Ratio (Vi)	3.6
Ideal Volume Ratio	3.33
Internal Gear Ratio	1.20
Compressor Input Speed	1800 rpm CW
Displacement	0.6317 ft³/rev
Male Rotor Tip Speed	28.8 m/s
Maximum Discharge Pressure	175 psig
Minimum Manifold Pressure	101 psig
DRIVER	
Maximum Driver Power	395 bhp
Actual Engine Loading	78.1 %
Actual Driver Speed	1800 rpm
Gearbox Ratio	1.000
COMPRESSOR OIL	
Solubility of Gas in Oil	Low (0%-10% by wt)
Diluted Oil Viscosity	40 cSt
Density	54.268 lb/ft³
Specific Heat, Cp	0.509 Btu/lb/°F

STATUS: Application requires PAA.

NOTICES:

No warranty or guarantee, either implied or expressed, is given on results from this program. Data and procedures in this program are subject to change by Sullair Corp. without notice. Accuracy of full-load compressor capacity and power predicted by this program is within +/-5% at the specified operating conditions. Part-load performance is estimated and has no tolerance.

PRODUCT APPLICATION ANALYSIS (PAA) BY SULLAIR:

Sullair has the right to verify all applications and performance estimates prior to order acceptance. An application will require PAA prior to order acceptance if any Formal Limit is violated but the corresponding PAA Limit is not violated. Any PAA limit violation precludes both Product Application Analysis and application acceptance by Sullair. All applications with H2S or CO2 require approval by Sullair Corp. prior to order acceptance. All engine-driven applications require torsional analysis by the compressor skid packager.

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114	0	1	FUEL GAS REGULATOR "FISHER" MODEL #627, SET @ 10 PSIG, 1"- NPT, RANGE 5 TO 20 PSI, 1/2" ORIFICE
115	0	1	FUEL GAS RELIEF VALVE "TAYLOR" MOD: #8200, 1" MNPT X 1" FNPT, SET @ 35 PSIG, 0.212 SQ. IN. ORIFICE
116	0	1	LOW PRESSURE FUEL GAS REGULATOR "FISHER" MOD: 133L-2, (C/W ENGINE)
117	0	1	ENGINE LOW PRESSURE STARTER, "TBI" MOD: T312-60017-01R, 1"-NPT INLET X 2"-NPT OUTLET
122	0	1	STARTER QUICK OPENING VALVE "SEALCO" #110250, 1 1/2" NPT, 150 PSIG MAMP C/W "PARKER" SKINNER SOLENOID, MOD: 7133TVN2JVOONCH11C2 24 V DC, MAMP = 100 PSIG, 5/64" ORIFICE
133	0	1	ENGINE CRANKCASE OIL TANK BUILT INTO UNIT CRANWAY, 40 US GAL CAPACITY, C/W SUPPLY, VENT AND GAUGE GLASS
134	0	1	WATER SURGE TANK, 12"x 12" H.S.S. X 5'- 0" LG. DOUBLE COMPARTMENT
135	0	2	AUTOMOTIVE PRESSURE CAP, SET @ 7 PSI
136	0	2	LOW LIQUID LEVEL SHUTDOWN, "MURPHY" L 1200 E, 2"- NPT C/W BUOYGLASS HORIZONTAL DISPLACER, 1500 PSIG @ 300 Deg. F MAMP
137	0	3	TANK TYPE GAUGE GLASS, 1/2" TUBULAR "CONBRACO", C/W COCKS AND TUBING PROTECTOR
150	0	1	ENGINE VIBRATION SENSOR/SHUTDOWN "MURPHY" MODEL VS-2 C/W MANUAL RESET, FIELD CALIBRATION
151	0	1	ENGINE OIL PRESSURE TRANSMITTER, "AST" #4300, I.S., 4-20 mA SIGNAL, RANGE 0-100 PSIG, PANEL

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MASTER BILL OF MATERIALS

CONNACHER OIL & GAS / BAR ENG.
SCREW COMPRESSOR
LSD: 1-36-19-19 W3M

JOB: BE 03-204
DATE: NOV 7/03
REV: B-AS BUILT

ITEM	REVISION	QUANT	DESCRIPTION
101	0	1	CATERPILLAR 3408 TALE, 125 HP 3 1800 RPM, "ALTRONIC" DISC CAT IGNITION APPROVED FOR CLASS 1, GROUP D, DIV. II AREA, STANDARD ENGINE PANEL S/N: BAZ00198
102	A	1	HOSPITAL GRADE SILENCER, "BET WILLIAMS" MOD: SE6SS-8-612, SIDE INLET 8" 125# FF, SIDE OUTLET 8"-125# FF @ OPPOSITE END C/W TAIL PIPE TO 1.5 TIMES BUILDING PEAK HEIGHT
104	B	1	ENGINE EXHAUST INSULATION, 2" THICK MINERAL WOOL C/W 1" AIR GAP AND ALUMINIUM OUTER INNER & SS INNER LINE I/S OF BUILDING ONLY
105	0	1	CARBON STEEL FLEXIBLE CONNECTOR, "SIJEX" #FF-8-12, 8"-125# FF ONE END, CATERPILLAR FLANGE OTHER END, 12" LG
108	0	1	ENGINE FLYWHEEL STURSHAFT 3 3/8" DIA. C/W ENGINE
109	0	1	ENGINE PULLEY, 8.0" O.D., FIVE "B" GROOVES, (C/W ENGINE)
110	0	1	ENGINE SPEED CONTROL GOVERNOR "WOODWARD" (C/W ENGINE)
111	0	1	GOVERNOR PNEUMATIC ACTUATOR "WABCO" 3-15 PSIG SIGNAL, 1/4"-NPT
112	0	1	FUEL/START GAS RELIEF VALVE, "TAYLOR" MOD: #8200, 1"-MNPT X 1"-FNPT, SET @ 150 PSIG, 0.212 SQ. IN. ORIFICE
113	0	1	FUEL GAS SHUTOFF VALVE, "MURPHY" MODEL M5180-P, 2"- NPT, PNEUMATIC, MAMP = 100 PSIG C/W "PARKER" SKINNER SOLENOID, MOD: 7133TVN2JVOONCH11C2 24 V DC, MAMP = 100 PSIG, 5/64" ORIFICE

107/03

SET @ 30 PSIG FALLING

211	0	1	OIL FLOODED "SULLAIR" ROTARY SCREW COMPRESSOR, S/N: 006-03008193 - MODEL PDR-25X-45-133 - DRIVEN @ 1800 RPM - CAPACITY SLIDE VALVE c/w PNEUMATIC ACTUATOR - NAMP = 200 PSIG - RELIEF PRESSURE = 230 PSIG - SHAFT DRIVEN OIL PUMP - P/N: 252437-001	153	0	1	ENGINE OIL TEMP. SENSOR/SHUTDOWN, TYPE "J" THERMOCOUPLE, 1/2" O.D. 6" 316 SS STEM LG., 10 FT. ARMOUR LEAD, PANEL SET @ 230 Deg.F RISING c/w 304 SS THERMOWELL 4" STEM LENGTH
212	0	1	FLEXIBLE DRIVE COUPLING "WOODS" #HSH-42, ALL STEEL COUPLING, ROUGH BORE, MACHINE TO FIT "DODGE" #3020 TAPER LOCK BUSHING IN COMPRESSOR HUB	154	0	2	ENGINE JACKET WATER TEMP. SENSOR/SHUTDOWN, "J" TYPE THERMOCOUPLE, 1/2" O.D. 6" 316 SS STEM LG., 10 FT. ARMOUR LEAD, PANEL SET @ 220 Deg.F RISING, c/w 1/2" NPT COMPRESSION FITTING
213	0	1	TAPER LOCK BUSHING "DODGE" #3020, 2 3/4" BORE, INSTALL IN COMPRESSOR HUB, MACHINE TAPER BORE TO ENABLE BUSHING REMOVAL TOWARDS SHIM PACK SIDE OF COMPRESSOR HUB	155	0	1	ENGINE TURBO WATER TEMP. SENSOR/SHUTDOWN, "J" TYPE THERMOCOUPLE, 1/2" O.D. 6" 316 SS STEM LG., 10 FT. ARMOUR LEAD, PANEL SET @ 145 Deg.F RISING, c/w 304 SS THERMOWELL 2 1/2" STEM LENGTH
214	0	1	COMPRESSOR LUBE OIL COOLER "CHILCON" MODEL: OC-10084-200 OIL SIDE (SHELL): - D.P. = 450 PSIG @ 300 Deg.F - 3"-300# RF IN & OUT - 1/16" CORR. ALLOWANCE GLYCOL SIDE (TUBE): - D.P. = 150 PSIG @ 300 Deg.F - 4"-150# RF IN & OUT - NIL CORR. ALLOWANCE - S/N: C230639A-1	158	0	1	ENGINE CRANKCASE OIL LEVEL REGULATOR & LOW LEVEL SHUTDOWN, "KENGCS" MODEL LCM-9, 1/2" - NPT IN AND 3/4" - OUT
217	0	1	COMPRESSOR LUBE OIL COOLING WATER PUMP BELT DRIVEN FROM ENGINE, "GOULD", 200 US GAL/MIN @ 1750 RPM, MOD: 6A1FRMA0, 4"-150# FF IN AND 3"-150# FF OUT, 7" IMPELLER	160	0	1	ENGINE SPEED CONTROL GOVERNOR 1/2, "FAIRCHILD" TCX17800 X-P TRANSDUCER 4-20 mA SIGNAL, 3-15 PSIG OUTPUT
218	0	1	WATER PUMP DRIVE SHEAVE, 8.6" FC SINGLE "B" SECTION, BORE TO MATCH PUMP SHAFT	161	0	1	ENGINE FLYWHEEL MAGNETIC PICK-UP, "DYNALCO" M203, 5/8"-18 THREAD, 24 V DC, I.S.
227	0	1		162	0	2	FUEL GAS REGULATOR "FISHER" 527, 1"-NPT, SET AT 120 PSIG, 1/2" ORIFICE, STEEL BODY, 70 TO 150 PSIG SPRING RANGE
228	0	1		167	0	1	ENG. MANIFOLD PRESSURE TRANSMITTER, "AST" #4300, X-P, 4-20 mA SIGNAL, RANGE -30HG TO 30 PSIG, PANEL SET @ 8 PSI RISING

258	0	1	"FAIR CHILD" I/P TRANSDUCER, MODEL: #FCX117800, X-P, 4 TO 20mA, LOCATE BY PANEL (LOAD CONTROL) 6 TO 30 PSIG RANGE	229	0	1	EDLER ASSEMBLY FOR PUMP DRIVE, MODEL DATQ1 & 1DQ1 c/w "E" SREAVE MCD: 2B56Q1
261	0	1	SUCTION PRESSURE TRANSMITTER, "AST" #4300, I.S., 4-20 mA SIGNAL, RANGE 0-200 PSIG, PANEL SET @ 0 PSIG FALLING	230	0	1	WATER PUMP BELT, "B" SECTION, LENGTH= 85
262	0	1	DISCHARGE PRESSURE TRANSMITTER, "AST" #4300, I.S., 4-20 mA SIGNAL, RANGE 0-600 PSIG, PANEL SET @ 200 PSIG RISING	231	0	1	Y-STRAINER "COLTON" MODEL #YTS60C, 2"- NPT, 304 SS, 100 WIRE MESH, CAST STEEL
301	0	1	"ACE" COOLER MODEL J6A, BELT DRIVEN ENGINE PULLEY, 26.2 HP REQ'D @ 398 RPM, S/N: 03354 E.J.W. SECTION: - 4"-150# RF INLET & OUTLET - D.P. = 14 PSIG @ 300 DEG.F - SA-214 STEEL TUBES - MANUAL SHUTTERS T.A.W. / C.L.O.W. SECTION: - 4"-150# RF INLET & OUTLET - D.P. = 14 PSIG @ 300 DEG.F. - SA-214 STEEL TUBES - MANUAL SHUTTERS A.C. SECTION: - 6"-300# RF INLET & OUTLET - D.P. = 450 PSIG @ 300 DEG.F. - SA-179 STEEL TUBES - AUTO SHUTTERS - 1/8" CORR. ALLOWANCE - BUGSCREEN - HAIL GUARD	232	0	1	FILTER ASSEMBLY, "VICKERS" MODEL H62C, REPLACEABLE FILTER ELEMENT: - 1 1/2" NPT CONNECTIONS - FILTER LG = 16" - CAPACITY = 150 USGAL/MIN - MAMP = 600C PSIG @ 275 Deg.F
302	0	1	TEMPERATURE CONTROLLER "KIMRAY" T12 (C/W COOLER)	233	0	1	THERMOSTATIC CONTROL VALVE "FLUID POWER" #S2010, 2"- NPT, SET @ 150 Deg.F, MAMP = 750 PSI
303	0	1	GARZO AIR/GAS OPERATOR #501-6-630 (C/W COOLER)	235	0	1	COMPR. OIL PRESS. REGULATOR, SULLAIR P/N #244150 C/W P/N #241774, SET @ 50 PSI ABOVE DISCHARGE PRESSURE
304	0	1	REGULATOR "FISHER" #57CFR, MAMP = 250 PSI, 1/4"- NPT, 0-35 PSIG SPRING RANGE	236	0	1	SIGHT FLOW GLASS, 1/2"x 1/4" NPT.
310	0	1	COOLER SREAVE, THREE "B" GROOVES, 30" P.D. c/w QD BUSHING 2 7/16"	250	0	1	COMPRESSOR VIBRATION SENSOR/SHUTDOWN "MURPHY" MODEL VS-2 c/w MANUAL RESET, FIELD CALIBRATION
				251	0	1	COMPR. OIL PRESSURE TRANSMITTER, "AST" #4300, I.S., 4-20 mA SIGNAL, RANGE 0-600 PSIG, PANEL SET @ 15 PSID FALLING
				253	0	1	COMPR. OIL TEMP. SENSOR/SHUTDOWN, "J" TYPE THERMOCOUPLE, 3/4" O.D. 6" 316 SS STEM LG., 10 FT. ARMOUR LEAD, PANEL SET @ 185 Deg.F RISING, c/w 304 SS THERMOWELL, 2 1/2" STEM LENGTH
				257	0	1	COMPR. DISCHARGE TEMP. SENSOR/SHUTDOWN, "J" TYPE THERMOCOUPLE, 3/4" O.D. 6" 316 SS STEM LG., 10 FT. ARMOUR LEAD, PANEL SET @ 220 Deg.F RISING, c/w 304 SS THERMOWELL, 4" STEM LENGTH

NO.	QTY	UNIT	DESCRIPTION	QTY	UNIT	DESCRIPTION	QTY	UNIT	DESCRIPTION
531	1	1	SUCTION DRY GAS FILTER: - 20" OD x 4'-0" S/S - D.P. = 450 PSIG @ 300 Deg.F - X-RAY PER ASME UW11a(5b), RT2 - 8"-300# RF IN & OUT - 1/16" CORR. ALLOWANCE - FIVE FILTERS "PECO" FG-336 - 11"x 15" ELLIPTICAL OPENING - S/N:03-204-531	0	1	COOLER TOWER, THREE "B" GROVES, 3" P.D. c/w QD BUSHING 2 3/4" S/S BORE COOLER DRIVE BELTS, "B" SECTION, LENGTH = 138"	311	0	1
532	1	1	COOLER VIBRATION SENSOR/SHUTDOWN "MURPHY" MODEL VS-2 c/w MANUAL RESET, FIELD CALIBRATION	0	1	OVERHEAD BRIDGE TYPE MAINTENANCE CRANE, 2 TON CAPACITY, CHAIN DRIVEN HOIST	403	0	1
533	1	1	REFLEX GAUGE GLASS, "PENBERTHY" 1819 c/w 330J COCKS, 3/4"-NPT CONNECTIONS, 1800 PSIG @ 100 Deg.F	0	1	120 US GALLONS WASTE OIL TANK BUILT INTO SKID STRUCTURE c/w 2" PUMP-OUT AND 1" VENT	410	0	1
551	1	1	TRANSPARENT GAUGE GLASS, "PENBERTHY" 1119 c/w 330J COCKS, 3/4"-NPT CONNECTIONS, 500 PSIG @ 100 Deg.F	0	1	120 US GALLONS GLYCOL TANK BUILT INTO SKID STRUCTURE c/w 2" PUMP-OUT AND 1" VENT	411	0	1
553	1	1	LIQUID DUMP VALVE "NORRISEAL" MODEL 2275, 1/2" PORT, 1"- NPT, FAIL CLOSE MAMP=3920 PSIG @180 DEG. F	0	1	MESH TYPE SUCTION SCRUBBER: - 30" O.D. x 6'-6" SEAM/SEAM - D.P. = 450 PSIG @ 300 Deg.F - 1/16" CORR. ALLOWANCE - 8"-300# RF INLET AND OUTLET - X-RAY PER ASME CODE UW 11a(5b) - EXTERNAL POWER CLEANING - INTERNAL POWER CLEANING - S/N:03-204-507	507	0	1
554	1	1	LIQUID LEVEL CONTROLLER SCRUBBER, "MURPHY" L1200-N, 2"- NPT c/w HORIZONTAL BUOYGLASS FLOAT, MAMP 1500 PSIG @ 300 Deg.F	0	1	LUBE OIL SEPARATOR/OIL SUMP, - 36" O.D. x 7'-6" S/S - D.P. = 450 PSIG @ 300 Deg.F - 4"-300# INLET AND OUTLET - 1/16" CORROSION ALLOWANCE - X-RAY PER ASME CODE UW 11a(5b) - INTERNAL POWER CLEANING - EXTERNAL POWER CLEANING - 12"x 16" ELLIPTICAL OPENING - 6 COALESCING ELEMENTS, S/N 44306 - ACCESS LADDER - S/N:03-204-508	508	0	1
555	1	1	HIGH LIQUID LEVEL SHUTDOWN, "MURPHY" L 1200 , 2"-NPT c/w BUOYGLASS HORIZONTAL FLOAT, MAMP 1500 PSIG @ 300 Deg.F	0	1	FUEL GAS FILTER SEPARATOR: - 6 5/8" OD x 3'-6" S/S - D.P. = 230 PSIG @ 300 Deg.F - X-RAY PER ASME UW11a(5b), RT2	530	0	1
556	1	1	REGULATOR "FISHER" #67CFR, MAMP= 250 PSI, 1/4"- NPT, 0-35 PSIG SPRING RANGE	0	1				
561	1	1	SUCTION CONE STRAINER, 10"-150# RF, 40 x 40 TYPE 304 SS MESH ON CS BACKING, 150# OPEN AREA, STD BORE	0	1				
601	1	1	SUCTION CONTROL VALVE "DYNAFLO" 4"-150#/600# RF TYPE 650 ACTUATOR SIZE 70, PANEL LOGIC, 6-30 PSIG	0	1				

724	0	1	FLEXIBLE PIPE CONNECTOR 2" NOM. SIZE x STD. LENGTH "AEROQUIP"				SIGNAL, FAIL CLOSED, c/w X-P "SIEMENS" I/P TRANSDUCER, 4 TO 20mA ANT "SIEMENS" #PS2 POSITIONER COMED, REFURBISHED
725	0	1	1"x 1" MNPT x 12" LG BRAIDED FLEX HOSE				
726	0	1	2"x 2" MNPT x 12" LG BRAIDED FLEX HOSE				
901	0	1	ELECTRONIC "ARCO/MOTIV" INSTRUMENT PANEL 24" WIDE x 36" HIGH x 12" DEEP CABINET c/w FOLLOWING: S/N: 2702 - POWERED BY 24 V DC - NEMA 4 ENCLOSURE - CLASS 1, DIV. 2, ZONE 2, GROUP C,D - NON INCENDIVE BARRIERS FOR SPECIFIED DISCRETE I/O POINTS - ALL INTERNAL WIRING ARE TINNED - KEYPAD WITH 12 USER KEYS AND FULL NUMERIC KEYPAD DISPLAY - 40 x 120 mm BACKLIGHT LCD SCREEN - EQUIPMENT PROTECTION ALARMS AND SHUTDOWNS USING PRE DETERMINED ANALOG AND DISCRETE VALUES - ESD BUTTON WITH FULL ESD LOGIC - AUTO START UP AND COOL DOWN SEQUENCES - FULL REMOTE START, STOP, SPEED AND LOAD CAPABILITY - TRENDING AND SHUTDOWN LOGIC - SATELLITE COMMUNICATION SYSTEM (OPTIONAL) - TRENDING AND SHUTDOWN LOGIC - COMMUNICATIONS PORT, TO ENABLE INTERACTION WITH PLANT PLC AND DCS SYSTEM - 8 ANALOG INPUTS - 4 ANALOG OUTPUTS - 20 DISCRETE INPUTS - 16 DISCRETE OUTPUTS (8 RELAY OUTPUTS, 8 SOLID STATE OUTPUTS) - 8 THERMOCOUPLE INPUTS (TYPE "J" OR "K" CONFIGURABLE IN GROUPS OF 4) - LOGIC COMPRESSOR SLIDE VALVE - LOGIC FOR SUCTION CONTROL VALVE - LOGIC FOR AUTOBYPASS VALVE				
502	0	1					CAPACITY AUTOBYPASS VALVE "FISHER" MOD: D4, 2"-NPT, 1 1/4" IRIN, SIZE 40 ACTUATOR PANEL LOGIC, 5-3: PSIG SIGNAL, FAIL OPEN, c/w "FAIRCHILD" I/P TRANSDUCER, X-P, 4-20 mA SIGNAL, LOCATE BY PANEL, REFURBISHED
551	0	1					DISCHARGE RELIEF VALVE, "CONSOLIDATED" MODEL 1910GC, SET @ 230 PSIG, 1 1/2" 300# RF x 3"- 150# RF, "G" ORIFICE
562	0	1					WATER CHECK VALVE, "PROQUIP", CARBON STEEL BODY AND FLAPPERS, METAL SEAL, 8"-300# RF, DUAL FLAPPER
564	A	1					BALL VALVE, 2"- NPT REG. PORT, "VALVE-TEK", MAWP = 2000# WCG
565	0	1					BALL VALVE, 1"- NPT REG. PORT, "VALVE-TEK", MAWP = 2000# WCG
719	0	1					FLEXIBLE HOSE CONNECTOR 1 1/2" NOM SIZE x 5' LENGTH c/w MNPT CONNECTION AND SWIVEL ONE END
720	0	2					FLEXIBLE HOSE CONNECTOR 2" PIPE SIZE x c/w T-BAR CHAMPS, LENGTH OF HOSE AND CLAMPS BY SHOP
721	0	1					FLEXIBLE HOSE CONNECTOR 1" NCM, SIZE x 5' LENGTH c/w MNPT CONNECTION AND SWIVEL ONE END
722	0	1					FLEXIBLE PIPE CONNECTOR 1" NCM, SIZE x STD. LENGTH "AEROQUIP"
723	0	1					FLEXIBLE HOSE CONNECTOR 3 1/2" NOM, SIZE c/w T-BAR HOSE CLAMPS, LENGTH BY SHOP

910	0	3	BUILDING CATALYTIC HEATER "CATADYNE" MODEL BX 24x24, 24,000 BTU TOTAL OUTPUT, 12 V DC STARTING CABLES 25' LONG, c/w PROTECTIVE GRILL
911	0	3	LOW PRESSURE REGULATOR "FISHER" 912, 1/4"-NPT CONN, 250 PSIG MAX. INPUT, SET AT 11" W.C.
912	0	3	SAFETY SHUT-DOWN "CATADYNE" MODEL AC-03-100, 3/8"-NPT CONNECTIONS
913	0	3	HEATER THERMOSTAT "CATADYNE" MODEL AC-04-100, 30-110 Deg.F RANGE, FIVE FEET CAPILLARY TUBING, 3/8"-NPT CONN.
914	0	3	MANUAL SHUT-OFF VALVE "GAS FLOW" MODEL BV-2103, 3/8"-NPT CONN.
921	0	1	Y-STRAINER "COLTON" MOD: 600YTS, 1/4"-NPT, 304 SS, 100 WIRE MESH, CAST STEEL
924	0	1	Y-STRAINER "COLTON" MOD: 600YTS, 1"-NPT, 304 SS, 100 WIRE MESH, CAST STEEL
931	0	1	1/4"- NPT IN-LINE CHECK VALVE, "SWAGELOCK", 3000 PSIG
934	0	1	SWING CHECK VALVE, "NAVCO" 1"-NPT, CLASS 800# WOG
936	0	2	SWING CHECK VALVE, "NAVCO" 1 1/2"-NPT, CLASS 800# WOG
941	0	1	BALL VALVE, 1/4"-NPT REG. PORT, "VALVE-TEK", MAMP = 2000 WOG
942	0	8	BALL VALVE, 1/2"-NPT REG. PORT, "VALVE-TEK", MAMP = 2000 WOG
943	0	2	BALL VALVE, 3/4"-NPT REG. PORT, "VALVE-TEK", MAMP = 2000 WOG
944	C	4	BALL VALVE, 1"-NPT REG. PORT, "VALVE-TEK", MAMP = 2000 WOG

902	0	1	SELF-FRAMING CABLE TYPE METAL BUILDING 19'-0" LG X 18'-0" WIDE WIDE X 12'-0" EAVE HEIGHT C/W FOLLOWING: - 3" IN 12" PITCH ON ROOF - TWO 6' x 7' DOUBLE DOOR C/W PANIC HARDWARE, WEATHER STRIPPING, LOCKSET, DOOR CLOSURE, & INDUSTRIAL WIRE GLASS WINDOW IN ACTIVE DOOR, CHECK CHAIN & LOCKBOLT ON INACTIVE DOOR - 22 GAUGE GALVANIZED EXTERIOR - FIBERGLASS R-12 INSULATION IN WALLS - 24 GAUGE NATURAL ALUMINIUM INTERIOR - 4 mil VAPOUR BARRIER - TWO 40" x 40" DOUBLE GLAZED SLIDING WINDOWS c/w SCREENS. - TWO 12" x 18" BUILDING LOUVERS C/W INTERIOR SLIDERS AND MESH. - ONE 6" THROAT, FULL LENGTH RIDGE VENT c/w BIRD SCREEN & CHAIN OPERATE
906	0	1	FIRE DETECTOR "NET SAFETY" MODEL JVA-AR WITH JB-2-4-ASSY RELAY JUNCTION BOX, FAULT/ALARM MODES, LOCATE CONTROLLER O/S BUILDING WALL, WIRED TO 24V DC JUNCTION BOX
907	0	1	COMBUSTIBLE GAS DETECTOR "NET SAFETY" MODEL: MLP-AR-SC1100 WITH JB-2-4-ASSY UNI TRAN BASIC CONTROLLER, LOCATE CONTROLLER O/S BUILDING WALL, WIRED TO 24V DC JUNCTION BOX
909	A	3	24V DC, 70/50 WATTS INCANDESCENT LIGHTS MOUNTED IN PEAK OF BUILDING c/w GUARDS, ONE ON/OFF X-P LIGHT SWITCH MOUNTED AT MANDOOK, X-P 60 MIN. TIMER

987	0	1	T.I. "TREND", 3" DIAL 50-300 Deg.F, DUAL SCALE, 1/2" NPT C/W 304 SS, 4"x 2 1/2" STEM LENGTH THERMOWELL
988	0	1	24V DC GENERATOR, "HOLLEY" C/W: - MOUNTING BRACKET FOR GENERATOR - SHEAVE ASSEMBLY - BATTERY BOX WITH TWO 12 V DC 100 AMP HOURS BATTERIES - UNDER VOLTAGE SHUT DOWN - BYPASS TIMER - 5.3" OD SHEAVE SINGLE "B" GROOVE C/W Q.D. BUSHING FOR 7/8" SHAFT DIA. GENERATOR DRIVE BELT, "B" SECTION LENGTH = 59"

0-ISSUED FOR PURCHASING / APPROVAL - SEPT 09/03
A-ISSUED FOR PURCHASING / CONSTRUCTION - SEPT 25/03
B-AS BUILT - NOV 13/03

986	0	4	BALL VALVE, 1 1/2"-NPT FULL PORT, "VALVE-TEK", MAMP = 2000 WOG
987	0	2	BALL VALVE, 2"-NPT FULL PORT, "VALVE-TEK", MAMP = 2000 WOG
988	0	1	BALL VALVE, 2"-NPT FULL PORT, "VALVE-TEK", MAMP = 2000 WOG
989	0	2	GATE VALVE, 1"-NPT "NAVCO", CLASS 800# WOG
990	0	2	GLOBE VALVE, 1"-NPT "NAVCO", CLASS 800# WOG
991	0	14	NEEDLE VALVE "CENTURY" MOD: #CM2, 1/4"-FNPT x 1/4"-FNPT, CARBON STEEL, MAMP = 6000 PSIG @ 100 Deg.F
992	0	2	NEEDLE VALVE "CENTURY" MOD: #CM2, 3/4"-MNPT x 1/2"-FNPT, CARBON STEEL, MAMP = 6000 PSIG @ 100 Deg.F
993	0	2	P.I., 2 1/2" DIA. "WIKI" OR EQUAL, LIQUID FILLED, 0/300 PSIG, DUAL SCALE, 1/4" NPT BOTTOM CONN.
994	0	1	P.I., 2 1/2" DIA. "WIKI" OR EQUAL, LIQUID FILLED, 0/60 PSIG, DUAL SCALE, 1/4" NPT BOTTOM CONN.
995	0	2	DIFFERENTIAL PRESSURE INDICATOR "MIDWEST" MODEL #120 OR EQUAL, 0-30 PSID, 2 1/2" DIAL, LIQUID FILLED, DUAL SCALE
996	0	1	DIFFERENTIAL PRESSURE INDICATOR "MIDWEST" MODEL #120 OR EQUAL, 0-15 PSID, 2 1/2" DIAL, LIQUID FILLED, DUAL SCALE
997	0	1	T.I. "TREND", 3" DIAL -40/120 Deg.F, DUAL SCALE, 1/2"-NPT C/W 304 SS, 4"x 6" STEM LENGTH THERMOWELL
998	0	9	T.I. "TREND", 3" DIAL 50-300 Deg.F, DUAL SCALE, 1/2" NPT C/W 304 SS, 4"x 4" STEM LENGTH THERMOWELL

Asset 145716 Report



Asset:	Property:	145716	YAB00060	Completion:	Misc Equip	Canada	Lease Name:	Miscellaneous Equip	Canada	Commodity:	Compressor	Size:	425HP	Cond.:	B	Description:	Skid mntd pkg BE-03-204 c/w 1-Caterpillar 3408TAL engine s/n BAZ00198, 1-Sullair PDR-25X compressor s/n 006-03008198, 1-Ace J6A cooler s/n 03354, 1-Motiv RCS-204 electronic control panel s/n 2704	Equipment Status:	SPARE
Quantity:	1																		
S/N:	UNKNOWN																		
Mfr:	Bidel Equipment Inc.																		
M/T No.:	C-10011																		
Original Invoice #:	002140																		
Last Updated: 8/10/2007 11:54:56AM																			
Remarks: At Singer in Calgary, 403-569-8605, PO#SD04-0215, req#110904AHC, AFE#ST-04-1054 Calgary. Reconciled RS 11/22/07, 03.05.08 CM																			
Property No. YAB00060, Completion No. Misc Equip Canada (Miscellaneous Equip C																			
Working Interest:	100	Owner:	ACL	Region:	CANADA	District:													
Well Status:	ACTIVE	OCS-G#:																	
City:																			
Zip/Postal Code:																			
Route:																			
Comments:																			
Credit Memos and Invoices:																			
Vendor:																			
Type:	Invoice	Invoice No.:	5131	Date:	1/14/08	Quantity:	1	Joints:	1	Amount:	880.00								
Singer-storage	Invoice	Invoice No.:	5131	Date:	1/14/08	Quantity:	1	Joints:	1	Amount:	880.00								
Singer-storage	Invoice	Invoice No.:	5200	Date:	1/31/08	Quantity:	1	Joints:	1	Amount:	880.00								
History																			
M/T	Date:	8/10/07	145716	From #:	00/01-36-019-19W3/0	To #:	145716	To Lease:	Miscellaneous Equip Canada	Cond.:	B	Amount:	263,625.00						

