

V-100
VERTICAL 3 PHASE TEST SEPARATOR
 SIZE: 24" O.D. x 7'-6" S/S
 MAMP: 1440psi @ 130°F
 MDMT: -20°F @ 140psi
 CRN FOR ALBERTA, SASK & BC
 INLET DEFLECTOR PLATE, 6" THK, 9lb/ft3 MISTEX
 RADIOGRAPHY: RT-2
 C.A.: 1/8"
 PWHT
 A/U - STAMPED
 DWG NO.: 4088-4 Rev3

V-200
FUEL GAS SCRUBBER
 SIZE: 6" x 36" S/S
 MAMP: 285psi @ 100°F
 MDMT: -20°F @ 285psi
 CRN FOR ALBERTA, BC & SASK
 C.A.: 3/8"
 c/w HUSD-200
 ASME SECTION VIII, DIV 1
 2013 EDITION
 DWG NO.: 4249-1 Rev2

H-400
PROPANE HEATER
 MAKE: CATADYNE - MK124X24
 MK2424-171211
 SIZE: 24" x 24" 24,000BTU/HR
 12V PREHEAT ELEMENTS, CSA APPROVED,
 11"wg LP GAS THERMOCOUPLE &
 MERRIK SSOV, AC-R-2511 REG
 c/w ASSEMBLED GAS TRAIN, 30' CABLES,
 HOOD VENT, PROTECTION GRILL

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P-300
CHEMICAL INJECTION PUMP
 MAKE: LINC
 MODEL: CC-LINC 2550-ECON-PK
 8.7 LITERS/HOUR MAX
 0-2200psi MAX DISCHARGE PRESSURE
 90psi SUPPLY PRESSURE
 3/8" CERAMIC PLUNGER
 1/2" NPT SUCTION, DISCHARGE & INSTRUMENT
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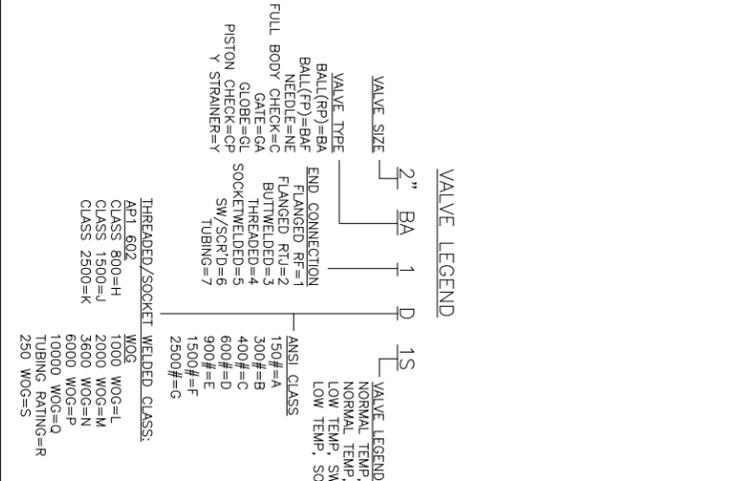
TK-300
METHANOL TANK
 MAKE: CLEMWER
 SIZE: 5000gal DUAL WALL
 1" FNPT CONNECTIONS
 3" CAP c/w VENT
 MOUNTED ON STAND
 SITE GLASS MOUNTED ON THE INSIDE
 OF THE BUILDING

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VALVE LIST

VALVE NUMBER	QTY.	MANUFACTURER	DESCRIPTION
3"BAF1D1S	4	WKM	3" 600# RF F.P. BALL VALVE, NACE
3"BAID1S	5	WKM	3" 600# RF R.P. BALL VALVE, NACE
3"C1D1S	6	WHEATLEY	3" 600# RF SWING CHECK VALVE, NACE
2"BAF4M1S	5	MERIDIAN	2" NPT WOG (MAC2CF) F.P. BALL VALVE, NACE
1"BAF4M1S	4	MERIDIAN	1" NPT WOG (MAC2CF) F.P. BALL VALVE, NACE
3/4"BAF4M1S	2	MERIDIAN	3/4" NPT WOG (MAC2CF) F.P. BALL VALVE, NACE
1/2"BAF4M1S	5	MERIDIAN	1/2" NPT WOG (MAC2CF) F.P. BALL VALVE, NACE
1 1/2"BA4M1S	1	MERIDIAN	1 1/2" NPT BAR STOCK R.P. BALL VALVE, NACE
1"BA4M1S	5	MERIDIAN	1" NPT BAR STOCK R.P. BALL VALVE, NACE
1/2"BA4M1S	4	MERIDIAN	1/2" NPT BAR STOCK R.P. BALL VALVE, NACE
1/4"BA4M1S	7	MERIDIAN	1/4" NPT BAR STOCK R.P. BALL VALVE, NACE
1/2"NE4P1S	13	MDI	1/2" NPT 6000# S.S. FxF NEEDLE VALVE, NACE
1/4"NE4P1S	1	MDI	1/4" NPT 6000# S.S. FxF NEEDLE VALVE, NACE
1/4"NE4P1	1	MDI	1/4" NPT 6000# C.S. FxF NEEDLE VALVE
2"C4H1S	1	STREAM-FLO	2" NPT CL.800# SWING CHECK VALVE, NACE
1"C4H1S	1	STREAM-FLO	1" NPT CL.800# SWING CHECK VALVE, NACE
1/2"C4N1S	1	MDI	1/2" NPT 6000# SS INLINE CHECK VALVE, TEFLO
2"YA1S	1	AB. STRAINER	2" NPT CL.600# NYS 600 Y-STRAINER, NACE
2"GL4H1S	2	OMB	2" NPT CL.800# GLOBE VALVE, NACE



REV	ISSUED FOR CONSTRUCTION	REVISION	BY	APPR	d/m/y
0	ISSUED FOR CONSTRUCTION		BY	APPR	18/09/14
1	REVISED THREADED SPEC.		BY	APPR	04/05/15

TAG	QTY	MAKE	DESCRIPTION
PSV-100	1	MERCER	PRESSURE SAFETY VALVE, P/N: 91-29-E1117N1, 1" 600# x 2" 150#, SOUR PRESSURE SERVICE TRIM, WCB BODY, SET @ 1440psig, 'E' ORIFICE
PSV-200	1	MERCER	PRESSURE SAFETY VALVE, MODEL 9100, 1" NPT INLET x 1" NPT OUTLET, STD. PRESSURE SERVICE TRIM, WCB BODY, SET @ 150psig, 'D' ORIFICE
PSV-300	1	SWAGELOK	PRESSURE SAFETY VALVE, SS4R-3A5, 3/4" TUBING INLET x 3/4" TUBING OUTLET, 316SS BODY, SET @ 1440psig, MOUNTED ON METHANOL PUMP
LSHH-100	1	PATHWAY	P120-21-30 HIGH LEVEL SHUTDOWN, 2" MNPT CONNECTIONS, SOUR SERVICE, SNAP ACTING NON-BLEED PNEUMATIC, 0-100psig SUPPLY, MWP:1500psi c/w MANUAL OVERRIDE
PSHH-100	1	CVS CONTROLS	CVS 7970 PRESSURE SENSING RELAY, 1/2" NPT CONNECTIONS, 125psi MAX SUPPLY SIGNAL, 290-1440psi SET RANGE
ESDV-100	1	MERIDIAN	BALL VALVE, 3" 600# RF, FLOATING BALL, RP, WCB, LONG PATTERN BODY, 316SS BALL&STEM, R-PTE SEAT, GRAPHITE PACKING, P/N: FB2-R30R06NH ACTUATOR, PNEUMATIC, RAKE & PINION DESIGN, SPRING RETURN, 30psi SWEET SUPPLY, STD. PROCESS, FAIL OPEN, P/N: AC190SRUN
ESDV-101	1	MERIDIAN	BALL VALVE, 3" 600# RF, FLOATING BALL, RP, WCB, LONG PATTERN BODY, 316SS BALL&STEM, R-PTE SEAT, GRAPHITE PACKING, P/N: FB2-R30R06NH ACTUATOR, PNEUMATIC, RAKE & PINION DESIGN, SPRING RETURN, 30psi SWEET SUPPLY, STD. PROCESS, FAIL OPEN, P/N: AC190SRUN
SV-100	1	AMOT	3 WAY VALVE, 4057D025H2 "CP" 1/2" FNPT CONNECTIONS, PNEUMATIC LATCH, MANUAL RESET, SPRING RETURN WHEN RELEASED, 125psi MAX SUPPLY
PCV-200	1	FISHER	627 PRESSURE REDUCING REGULATOR, 1" FNPT, WCB STEEL BODY, SST TRIM, ALUMINUM SPRING CASE, 35-80psig S.R., 1/4" ORIFICE, 1750psig MAX INLET
PRV-203	3	FISHER	67CRR-362SC INSTRUMENT GAS REGULATOR w/ TAPPED BONNET, 1/2" FNPT CONNECTIONS, STANDARD SERVICE TRIM, 0 TO 35psig SPRING RANGE, 250psig MAMP
PRV-204	1	FISHER	67CRR-362SC INSTRUMENT GAS REGULATOR w/ TAPPED BONNET, 1/2" FNPT CONNECTIONS, STANDARD SERVICE TRIM, 0 TO 35psig SPRING RANGE, 250psig MAMP
PRV-205	2	FISHER	67CRR-362SC INSTRUMENT GAS REGULATOR w/ TAPPED BONNET, 1/2" FNPT CONNECTIONS, STANDARD SERVICE TRIM, 0 TO 35psig SPRING RANGE, 250psig MAMP
PRV-201	2	FISHER	67CRR-362SC INSTRUMENT GAS REGULATOR w/ TAPPED BONNET, 1/2" FNPT CONNECTIONS, STANDARD SERVICE TRIM, 0 TO 35psig SPRING RANGE, 250psig MAMP
LCV-100	1	NORRISEAL	2200 MOTOR VALVE, 2" FNPT END CONNECTIONS, SOUR SERVICE, 1 1/2" SST QUICK OPEN TRIM c/w SIZE 9 ATO/FC ACTUATOR
LC-100	1	KIMRAY	GEN II BACK MOUNT FLOAT OPERATED LEVEL CONTROLLER, CAT # CMM, 4000psi MAMP, 2" MNPT, 2" GEN II LLC PILOT, S56 STEEL BODY
FE-100	1	NUFLO	3" 600# SCH. 80 SENIOR METER RUN, SOUR PROCESS TRIM, 64" OAL, PIN TYPE FLOW STRAIGHTENER, BUILT TO AGA 2000, ONE - (REMANUFACTURED)
FRC-100	1	BARTON (REMAN.)	ITT MODEL 202E, 3 PEN FLOW CHART RECORDER, 0 TO 100" W.C. DIFF. P.R., 0 TO 1500psig STATIC ELEMENT, 0-150°F, SOUR, c/w 5 VALVE SST. MANIFOLD
FW-100	1	SUR-FLO	TURBINE METER, 1" MNPT BODY SCH.80 TURBINE ASSEMBLY SST, 3/4" PORT 40 TO 290 M3/DAY, P/N: 2080-0750-000SH
EQ-100	1	KIMRAY	TOTALIZER ADAPTER, 1" ALUMINUM TOTALIZER ADAPTER TM, P/N: T2101-AL PICKUP, MAGNETIC PICKUP COIL TM, P/N: 2000-MAGPKUP NO HUB EXTENSION REQUIRED
PI-100	6	WESTERN GAUGE (WG)	TOTALIZER, KIMRAY B2800, 1" MNPT, P/N: 309-285BM-B2800
PI-106	1	WESTERN GAUGE (WG)	ELITE PRESSURE GAUGE, LF, 1/2" NPT BTM x 2 1/2" FACE, 0-60psig RANGE, DUAL SCALE, STD. SERVICE
PI-200	1	WESTERN GAUGE (WG)	ELITE PRESSURE GAUGE, LF, 1/2" NPT BTM x 2 1/2" FACE, 0-2000psig RANGE, DUAL SCALE, MOUNTED ON FUEL GAS SCRUBBER, STD. SERVICE
PI-201	2	WESTERN GAUGE (WG)	ELITE PRESSURE GAUGE, LF, 1/2" NPT BTM x 2 1/2" FACE, 0-1000psig RANGE, DUAL SCALE, PRV-201 & PRV-202, STD. SERVICE
PI-100	1	WESTERN GAUGE (WG)	MASTER TEMP. TEMPERATURE INDICATOR, 1/2" BOM x 3" FACE x 6" STEM, -40 TO 160°F TEMP. RANGE, DUAL SCALE, MOUNTED ON INLET VESSEL, c/w 1/2" FNPT x 3/4" MNPT x 6" "U" DIMENSION LENGTH, 316SSST THERMOWELL
LG-100	1	QUALITY	LEVEL GAUGE, 015R20 RELEX SIGHT GLASS, MAMP: 2500psig @ 100°F, MOUNTED IN LIQUID/GAS INTERFACE, 7/8" VISIBLE GLASS
LG-300	1	PLAINSMAN	TANK LEVEL GAUGE, P5700-52-48-CTM, MAMP: 140psig, 1/2" NPT CONNECTIONS, 4'-0" LONG, METRIC HEIGHT/RATE.

Evolution
 PRODUCTION EQUIPMENT

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 www.evolutionequipment.com

DATE: 25/11/11
 DESIGNED BY: M.E.W.
 DRAWN BY: M.E.W.
 CHECKED BY: M.E.W.
 APPROVED BY: J.H.
 SCALE: N.T.S.

JOB # EV-14211
 SHEET NO. 2 OF 2

REF. NO. PNID
 DRAWING NO. EV-14211-F-002
 REV. NO. 1

LONGRUN EXPLORATION LTD.
 LSD:

BILL OF MATERIALS - FLOW DIAGRAM
 24"x7'-6" S/S 1440psi - 2 PHASE 4 WELL
 SOUR SERVICE TEST SATELLITE PACKAGE