

NOTES:

1. QUANTITIES IN B.O.M. ARE FOR ONE (1) UNIT.

2. ALL PIPING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF ANSI B31.3 PRESSURE PIPING CODE.

3. VESSEL TO BE FABRICATED TO THE LATEST EDITION OF ASME SECTION VIII, DIVISION 1 PRESSURE VESSELS

4. THREADED PIPING TO BE: SA-106B SMLS, SCH.80-2" SCH. 160-1", FUEL GAS THREADED PIPING TO BE SCH. 80-1/2" WELDED PIPING TO BE: SA-106B SMLS, SPEC 600# -SCH.80, 1500# -SCH.160, 3000# FITTINGS

5. TUBING DETAILS: STAINLESS STEEL TUBING c/w STAINLESS STEEL SWAGelok FITTINGS AND FERRULES, (3/8" 0.035" THK.)1/2" (0.049"THK.)

6. PAINTING: PACKAGE TO BE CLEANED TO (SSPC-SP-6)
1st COAT PRIMER: DEVOL FAST DRY PRIMER
ONE (1) FINISH COAT: DEVOL GREY ENAMEL
LINE HEATER PIPING & EXTERNAL : ONE (1) FINISH COAT: HIGH HEAT FLAT BLACK ENAMEL

7. PROTECT ALL OPENINGS FOR SHIPMENT

8. BOLTING TO BE SA-193-B7M STUDS WITH SA-194-2HM NUTS c/w 316 S.S. FLEXITALLIC GASKETS

9. BUILDING: SIZE: 14'-0"LG x 12'-0"WIDE
ROOF TYPE: GABLE WALL HEIGHTS: 9'-8" LOW WALL x 10'-4" HIGH WALL SHED
EXTERIOR: 22 GAUGE GALVALUME
INTERIOR: 24 GAUGE FLUTED ALUMINUM LINER, R-12 INSULATION IN ROOF AND WALLS
DOORS: ONE (1) 3'-0"x7'-0" STEEL MAN DOOR WITH PANIC HARDWARE,
CHECK CHAIN, WEATHER-STRIP, IWG WINDOW
WINDOWS: ONE(1) 40" x 40" DOUBLE GLAZED SLIDING WINDOW c/w SCREEN
VENTALATION: TWO (2) 12" x 12" ADJUSTABLE LOUVER- HI AND LOW MOUNTED c/w SCREEN AND CLOSURE
REMOVABLE PANEL: ONE (1) 5'-0"WIDE x BUILDING HIEGHT

10. ALL BUTTWELDED PIPING WILL HAVE 100% RADIOGRAPHY, AND BE PWHT

11. ALL PIPING HYDROTESTED TO 1.5x DESIGN PRESSURE

12. SKID TO HAVE 2" SPRAY-ON FOAM INSULATION ON UNDERSIDE

13. ALL INSTRUMENTS VENTED O/S WITH VENT HEADER

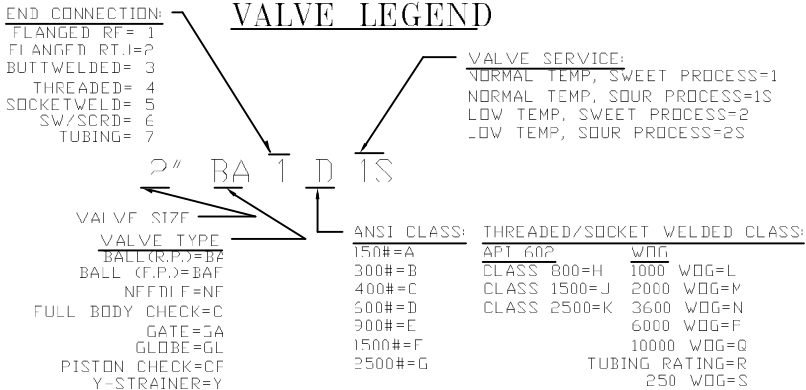
BILL OF MATERIALS

TAG	QTY.	MAKE	DESCRIPTION
TCV-410 SDV-410	2	KIMRAY	MODEL 112-SMT-DAB MOTOR VALVE 1" FNPT, CAST IRON BODY, REDUCED INNER VALVE 0-30 PSIG INPUT, FAIL CLOSED (125 PSIG MAWP)
BPCV-100 PIC-100	1	ARICO (RECOND)	MODEL 667-D BODY FLOW CONTROL VALVE, 1 1/4"TRIM 3" 600# FLANGE BODY SIZE 45 ACT. 14-30 PSIG c/w FISHER 4195B PRES. INDICATING CONTROLLER 0-1500PSIG 316 S.S BOURDON TUBE, 6-30 PSI OUTPUT DIRECT THROTTLE ACTION,PROPORTIONAL-PLUS RESET
PRV-420	1	FISHER	MODEL 912 INSTRUMENT GAS REGULATOR 1/4" FNPT CONN. 250 PSIG MAWP 2.7 TO 5 PSIG RANGE
IGN-410 FFSD-410 FGI-410	1	NAGY	FG 100, PILOT IGNITION SYSTEM, 12 VDC IGNITOR THERMOCOUPLE FLAME FAILURE PROTECTION FAILSAFE SEQUENCING LOGIC REMOVABLE LOGIC PROGRAMMER
TC-410	1	KIMRAY	MODEL HT 12, -30 TO 750°F TEMP. RANGE INDIRECT/REVERSE THROTTLE ACTION 5-30PSIG SUPPLY PRES., 3/4"MNPT FIELD SET @ 390 TO 400°F
HTSD-410	1	KIMRAY	MODEL HT 12, -30 TO 750°F TEMP. RANGE INDIRECT/REVERSE THROTTLE ACTION 5-30PSIG SUPPLY PRES., 3/4"MNPT FIELD SET @ 425°F
HLSD-410	1	LINC	282-11-10 PNEUMATIC LEVEL SWITCH 2" NPT PROCESS CONN. 1/4" FNPT PILOT 316 SS CONSTRUCTION, SNAP,DIRECT ACTION, 1500 psi MAWP, STD. SERVICE TRIM
LC-100/101	2	FISHER	MODEL 2680A-268T LEVEL CONTROLLER 2" MNPT END CONN. SOUR SERVICE CONSTRUCTION SNAP ACTING CONTROL 1-7/8"x 12" LG 22" LG LEVEL ARM LENGTH SEALED CASE c/w VENT PORT 6 TO 30 PSIG OUTPUT SIGNAL, SOUR SERVICE
LCV-100/101	2	FISHER	1" NPT, MODEL 357 CONTROL VALVE NACE SERVICE TRIM, 6-30 PSIG RANGE, 1/2" TRIM LCV-100 3/4" TRIM ON LCV-101, 6-30 PSIG SPRING RANGE SIZE 40 ACTUATOR AIR OPEN / FAIL CLOSED
IPCV-100	1	WILLIS	M2 ANGLE BODY CHECK VALVE, 3" 1500# RTJ x 3" 600#, (2) 0.75" CERAMIC DISC STYLE 8 (NACE) FISHER 656-60 PNEUMATIC ACT., c/w MOUNTING KIT MULTIPLE ORIFICE VALVE STYLE
TH-410	1	ENARDE	MODEL 330J THEIF HATCH SET @ 8 OZ.c/w 10 3/8" BCF
PSL-401	1	BARTON CCS	CCS PRES. SWITCH, ADJ. MODEL 6900GE14, 0-500 RANGE 0-75 PSI RISING J-71PSI FALLING,STD. XP.
PS-300/301	2	BARTON CCS	CCS PRES. SWITCH, ADJ. MODEL 6900GE14, 0-500 RANGE 0-75 PSI RISING J-71PSI FALLING,STD. XP.
PSV-300	1	NUPRO	MODEL SS-R4M8F8-C RELIEF VALVE, S.S. BODY & TRIM 1/2" MNPT x 1/2" FNPT, 1440 PSIG SET PRESSURE
RF-410	1	WENCO	1.0mm BTU FLAME ARRESTOR BURNER ASSEMBLY, MODEL-5B24-12
FM-200	1	ROOTS	MODEL 8C175 FUEL GAS METER CUBIC METER READOUT COUNTER, 1 1/2" NPT NIPPLE CONN. 175 PSIG MAWP
1"C4M1S	3	NAVCO	1" NPT 2160# CHECK VALVE, SOUR
1/2"Nf4P1S	13	CENTURY	1/2" NPT 6000# MxF NFFDIF VALVE SOUR SERVICE S.S., MODEL # CM2-2-M22T-B-V
1/4"Nf4P1	13	CENTURY	1/4" NPT 6000# MxF NEEDLE VALVE C.S., MODEL # CM2-2-M44T-B-V
1"BA4M1S	15	BALON	1" NPT 3000# BALL VALVE R.P., SOUR
3/4"BA4M1S	4	BALON	3/4" NPT 3000# BALL VALVE R.P., SOUR
1/2"BA4M1S	5	BALON	1/2" NPT 3000# BALL VALVE R.P., SOUR
1"BA4M1	7	BALON	1" NPT 3000# BALL VALVE R.P., STD
3/4"BA4M1	2	BALON	3/4" NPT 3000# BALL VALVE R.P., STD
1"Y4M1S	2	ALTA	1" 3000# NPT Y-STRAINER, CAST STEEL BODY, SOUR
2"BA1T1S	1	NUTRON	2" 600# RF BALL VALVE R.P., SOUR
1/2"BA4M1	6	BALON	1/2" NPT 3000# BALL VALVE R.P., STD.
1/4"C4M1S	2	NUPRO	1/4" TUBING CHECK VALVE, SOUR
2"GA4H1	1	DSI	2" CLASS 800# NPT GATE VALVE, STD. SERVICE

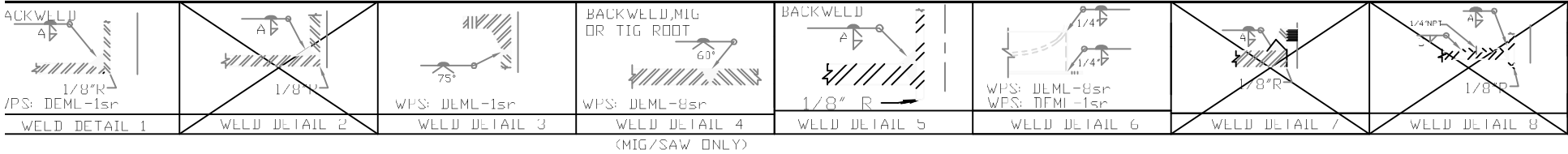
BILL OF MATERIALS

TAG	QTY.	MAKE	DESCRIPTION
FL-100	1	NURTHSTAR	DUAL CHAMBER METER RUN, 4" 600# SCH.80 BUILT TO AGA 3C, SOUR SERVICE TRIM, 100% X-RAY FLANGED OUTER ENDS. c/w STRAIGHTENING VANES, F/F=80" ONE(1) 1" 3000# TOL.& ONE(1) 3/4" 3000# TOL. DOWNSTREAM
DPI/PI/II-100	1	ROSEMOUNT	DIFF. PRESSURE TRANSMITTER MODEL # 3051C02A 83A1A-B4T1C6, 0-250" W.C. c/w MOUNTING HARDWARE, SOUR SERVICE TRIM TRANS. MODEL #3051TG4A 2B21A-B4T1C6, 0-4000 PSIG c/w MOUNTING HARDWARE, TEMP. TRANSMITTER MODEL #3144D1B4C6, 1/2"x3/4"x2 1/2" 316 S.S. TW 1/2-14NPT COND. THREAD, C/W MOUNTING HARDWARE
PRV-410	1	FISHER	MODEL 627 REGULATOR 1"FNPT, 5-20 PSIG DUCTILE BODY c/w ALUM.TRIM 1/2" ORIFICE, MAX. 1000 PSIG INLET PRESS.
PRV-200	1	FISHER RLMAN.	MODEL 630 REGULATOR 1"FNPT, 46-95 PSIG IRON BODY, STD. SERVICE c/w 3/16"TRIM MAX. 1500 PSIG INLET PRESS.
PRV-210/220 230/240/ 260/270/280	/	FISHER	MODEL 670CFR REGULATOR 1/4"FNPT, 5-35 PSIG STD. SERVICE TRIM, 250 PSIG MAWP
PI-420	1	WIKA	PRESSURE INDICATOR 2 1/2" DIAL, 0-30 PSIG DUALSCALE, 1/4"NPT BOT. CONN. C.S.
PSV-200	1	MERCKE	RELIEF VALVE MODEL 9100, 1" NPT x 1" NPT STD.SERVICE TRIM, WCB BODY, SET @ 150 PSIG
PSV-100 ⚠	1	MERCKE	RELIEF VALVE MODEL 9100, 1" NPT x 1" NPT SOUR SERV. TRIM, WCB BODY, SET @ 1480 PSIG c/w INCNEL X-750 SPRING
PI-430	1	WIKA	PRESSURE INDICATOR 2 1/2" DIAL, 0-15 PSIG DUALSCALE, 1/4"NPT BOT. CONN. C.S.
PI-100/402/403	3	WIKA	PRESSURE INDICATOR 4" DIAL,0-1500 PSIG DUALSCALE, 1/2" NPT BOTTOM CONN. S.S.
PI-200	1	WIKA	PRESSURE INDICATOR 2-1/2" DIA. 0-200 PSIG, DUAL SCALE, 1/4" NPT END CONN.
TI-100	1	IRENE	TEMPERATURE INDICATOR, 3" DIAL, -40°F-160°F 6" STEM, 1/2"x 3/4"x 6" c/w 316 S.S. THERMOWELL, 1/2" NPT BACK CONNECTION
TI-420	1	IRENE	TEMPERATURE INDICATOR, MODEL 33025, 3" DIAL 1/2" BACK CONN. 6" STEM, 1/2"x 3/4"x 6" 316 S.S. THERMOWELL, 50°F-500°F- DUAL SCALE
TI-200	1	IRENE	TEMPERATURE INDICATOR, MODEL 33025, 3" DIAL 1/2" BACK CONN. 2-1/2" STEM, 1/2"x 3/4"x 2-1/2" 316 S.S. THERMOWELL, 0°F TO 250°F- DUAL SCALE
TI-400/401 402/403	4	TRENE	TEMPERATURE INDICATOR, 3" DIAL,NACE 2 1/2" STEM, 1/2"x 3/4"x 2 1/2" 316 S.S. THERMOWELL, -40°F TO 160°F-DUAL SCALE
IG-100	1	PENBERTHY	MODEL 1TM5 TRANSPARENT LEVEL GLASS,c/w 330J VALVES, 3/4" NPT, SOUR
LG-101	1	PENBERTHY	MODEL 1RM5 REFLEX LEVEL GLASS,c/w 330J VALVES, 3/4" NPT, SOUR
PI-400/401	1	WIKA	PRESSURE INDICATOR, 4" DIAL, LIQUID FILLED 0-5000 PSIG DUALSCALE, 1/2" NPT BOTTOM CONN,NACE
LG-410	1	PENBURTHY	TUBULAR GAUGE GLASS, MODEL N7B GAUGE VALVES 3/4" N.D. PYREX REF. INE SIGHT GLASS, 3/4" NPT PROCESS AND 1/2" NPT DRAIN CONN. c/w CHECK BALL SHUT OFF
FQI-100/101	2	HALIBURTON	TURBINE METER 1" MNPT END CONN, SOUR SERV. TRIM 10 TO 100 BHP CAPACITY,MODEL 155 PICK-UP & EX1 c/w MC-R10 DIGITAL UTILIZER, M3 READOUT, NACE
FY-100	1	FISHER	MODEL 546 I/P TRANSDUCER, 4 to 20 mA INPUT 6 to 30 PSIG OUTPUT, EXPLOSION PROOF
HLSD-100	1	LINC	MODEL 282-11-10 PNEUMATIC LEVEL SWITCH 2" NPT PROCESS CONN. 1/4" FNPT PILOT 316 SS CONSTRUCTION, SNAP, DIRECT ACTION, 1500 psi MAWP, SOUR TRIM
SV-101	1	ASCC	3-WAY SOLENOID VALVE, 24 VDC MODEL EF8320G202, UNIVERSAL CLW WATTAGE, SOLENOID SSI, EXPLOSION PROOF, 115 PSIG MAX
SV-400/401	2	ASCC	3-WAY SOLENOID VALVE, 24 VDC MODEL EF8320G202, UNIVERSAL CLW WATTAGE, SOLENOID SSI, EXPLOSION PROOF, 115 PSIG MAX
SV-100/410	2	AMPT	MODEL 4057 CP D025H2, 3-WAY SWITCHING VALVE 1/4" NPT CONN. MANUAL LATCH / PRES. OPP. VITON O-RINGS,26 PSIG MIN,125 PSIG MAWP @ 180°

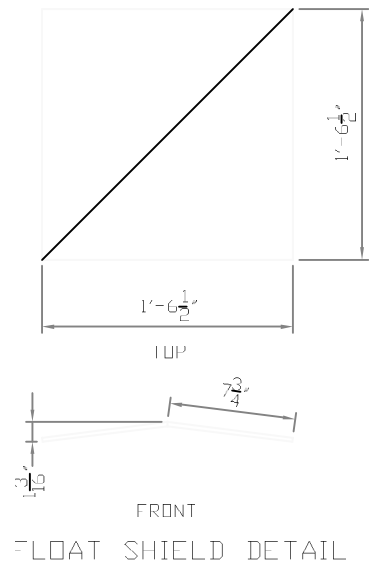
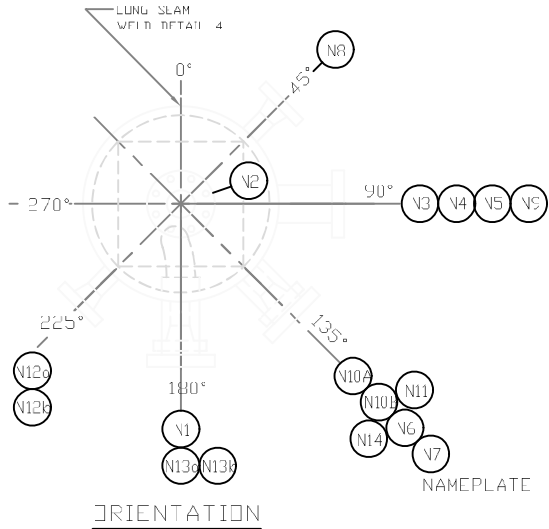
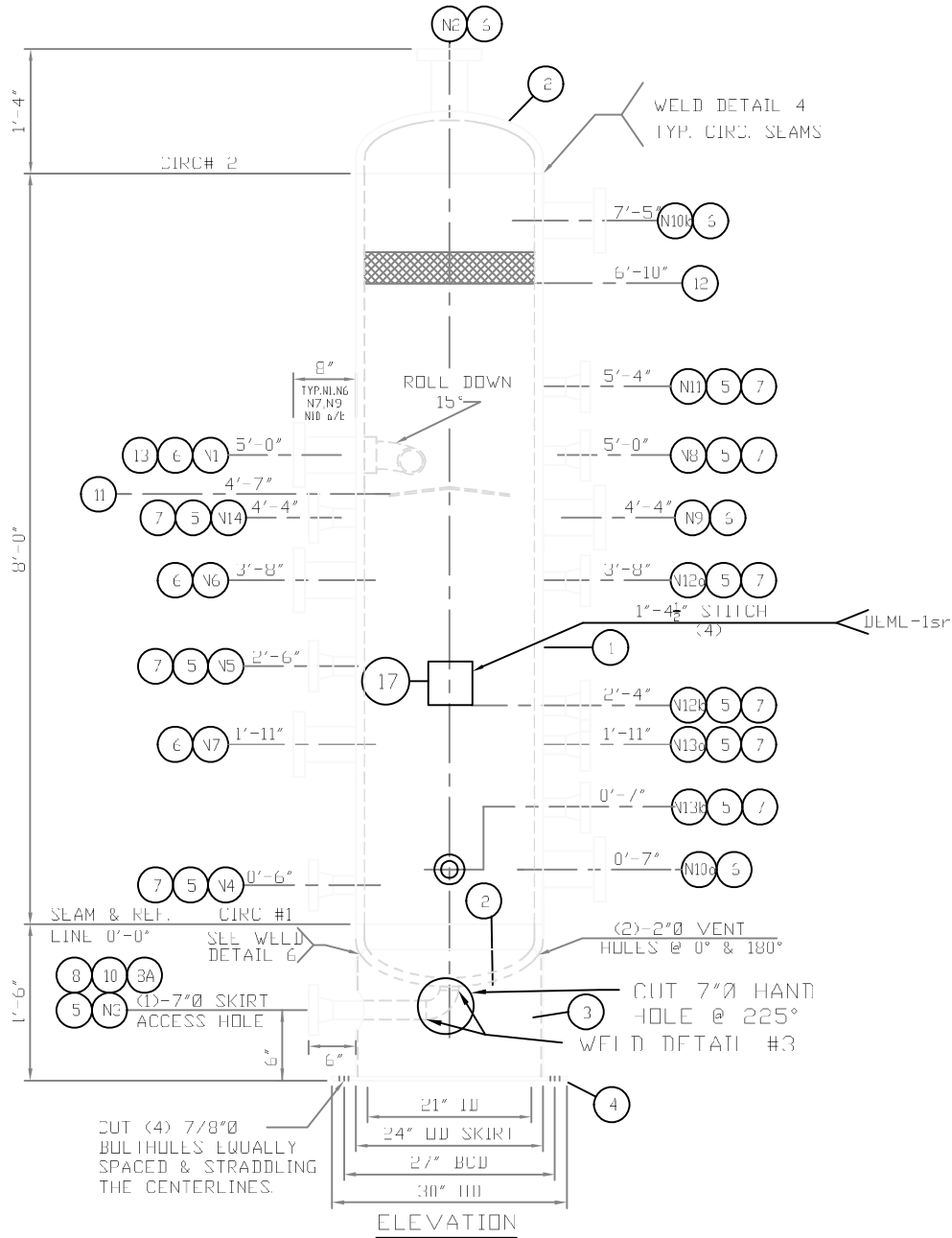
VALVE LEGEND



						 DELANEY ENERGY MANUFACTURING LTD.	DATE: 02-01-17		PROJECT: CONOCO CANADA RESOURCES LTD.				
							DESIGNED BY: III J ANF Y		TITLE: BILL OF MATERIALS & NOTES FOR 24" OD x 8'-0" S/S				
							DRAWN BY: S. GORMAN		1480 PSIG SEPARATOR, c/w 1,000,000 BTUH, 48"OD x 16'-0"LG LINEHEATER				
							CHECKED BY:						
	2	AS BUILT			SG		02-04-05	APPROVED BY:		PROJECT NO: 929-001	FILENAME: 929-001BUM	REFERENCE NO:	
	1	CHANGE VESSEL PSV SPRING			JP		02-03-20	SCALE: N.T.S.		SHEET NO: 1 OF 1	DRAWING NO: CCL-929-001BUM	REV. NO: ⚠	
	3	ISSUED FOR CONSTRUCTION			BB		02-01						
	A	ISSUED FOR APPROVAL			SG		02-01-17						
	N7	REVISIONS			TJWN		APPR	DATE	HALKIRK ALBERTA				



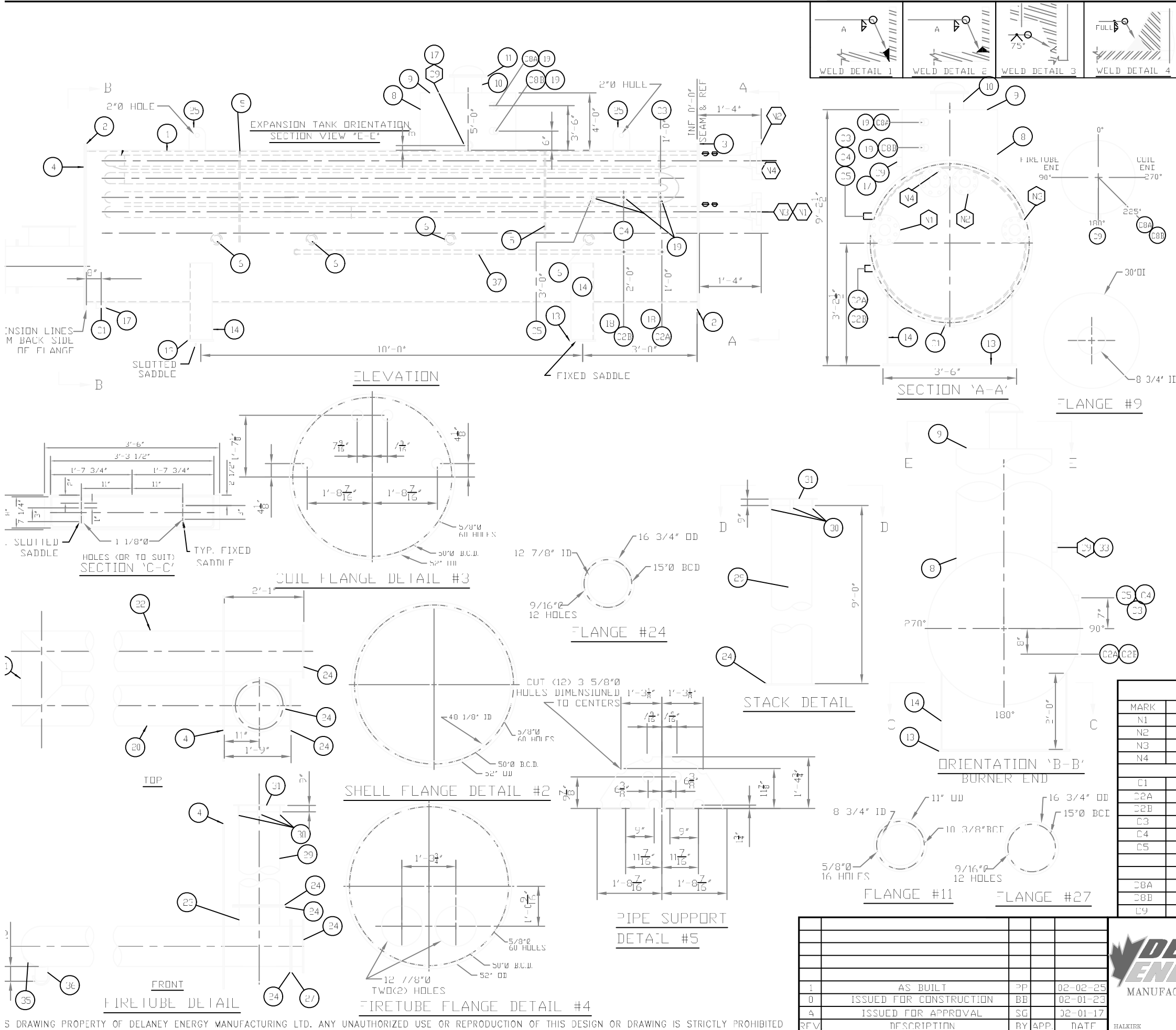
BILL OF MATERIALS				
MK	QTY	DESCRIPTION		MATERIAL
1	1	SHELL PLATE - 24" OD x 8'-0" S/S x 1" THK		SA-516-70N
2	2	HEADS: 24" OD x 1 1/8" THK (100" MIN.) 2:1 S.E. c/w 2" S.F.		SA-516-70N
3	1	SKIRT: 24" OD PIPE Sch.10 x 1'-4 1/4" LONG (SHOP FIT)		SA-53B
4	1	BASE PLATE: 30" OD x 21" ID x 3/8" THK		SA-36
5	10	FLANGE - 2" 600# RFLWN - SCH. 160		SA-105N
6	7	FLANGE - 3" 600# RFLWN FVC 3" I.D. x 0.81" WALL x 12" LG		SA-105N
7	5	PIPE - 2" SCH.160 x 6' LONG- C.T.S.		SA-106-B
8	1	PIPE - 2" SCH.160 x 11 7/8" LONG		SA-106-B
8A	1	PIPE - 2" SCH.160 x 6' LONG		SA-106-B
9				
10	1	ELBOW - 2" SCH. 160 90° LR		SA-234-WPE
11	1	FLOAT SHIELD - PLATE: 1'-6 1/2" x 1'-6 1/2" x 1/4" THICK		SA-36
12	1	DEMISTER PAD - 21 5/8" OD x 6" THK x 9LBS. PER CUBIC FOOT		316 S.S
	2	SUPPORT - 1/4" PLATE x 21 5/8" OD x 18 3/4" ID C/W EXP. M.LIAL		SA-36
13	1	INLET DIVERTER - 3" SCH. STD. 90° LR ELBOW		SA-234-WPB
14				
15				
16				
17	1	NAMEPLATE BACKING		SA-36



WPS: DEML-1sr
DEML-8sr
REFERENCE DWG: DMV-24V-1480 Rev.1
C.T.S.- CUT TO SUIT

CONNECTION SCHEDULE												
MARK	SIZE	SCH.	RATING	TYPE	SERVICE	WELD DETAIL	REPAD SIZE	NPS	A FILLET	E FILLET	C FILLET	ISP
N1	3"	FVC	600#	RFLWN	GAS INLET	5	-	8"	3/8"	-	-	7/8"
N2	3"	FVC	600#	RFLWN	GAS OUTLET	5	-	8"	3/8"	-	-	3/8"
N3	2"	160	600#	RFLWN	DRAIN	1	-	6"	3/8"	-	-	3/8"
N4	2"	160	600#	RFLWN	LIQUID OUT	1 & 3	-	6"	3/8"	-	-	-
N5	3"	160	600#	RFLWN	COND. OUT	1 & 3	-	6"	3/8"	-	-	-
N6	3"	FVC	600#	RFLWN	COND. LC	5	-	8"	3/8"	-	-	7/8"
N7	3"	FVC	600#	RFLWN	LIQUID LC	5	-	8"	3/8"	-	-	7/8"
N8	2"	160	600#	RFLWN	PSV	1 & 3	-	6"	3/8"	-	-	-
N9	3"	FVC	600#	RFLWN	HLSI	5	-	8"	3/8"	-	-	7/8"
N10a	3"	FVC	600#	RFLWN	INSPECTION	5	-	8"	3/8"	-	-	7/8"
N10b	3"	FVC	600#	RFLWN	INSPECTION	5	-	8"	3/8"	-	-	7/8"
N11	2"	160	600#	RFLWN	PI	1 & 3	-	6"	3/8"	-	-	-
N12a	2"	160	600#	RFLWN	COND. LG	1 & 3	-	6"	3/8"	-	-	-
N12b	2"	160	600#	RFLWN	COND. LG	1 & 3	-	6"	3/8"	-	-	-
N13a	2"	160	600#	RFLWN	LIQUID LG	1 & 3	-	6"	3/8"	-	-	-
N13b	2"	160	600#	RFLWN	LIQUID LC	1 & 3	-	6"	3/8"	-	-	-
N14	2"	160	600#	RFLWN	TI	1 & 3	-	6"	3/8"	-	-	-

				DESIGN DATA						02-01-03		DELANEY ENERGY MANUFACTURING			
				DESIGN AND FABRICATE TO ASME CODE, SECTION VIII DIV. 1 2001 EDITION, 2001 ADDENDA						DESIGNED BY JH LANEY					
				DESIGN PRESS: 1480 PSIG DESIGN TEMP: 100°F IMPACT TESTS: EXEMPT PER UCS-66a & UG-20F (1-5) MIN. DESIGN METAL TEMP: -20°F @ 1480 PSIG POST WELD HEAT TREATMENT: YES @ 1150°F FOR 85 MIN.						DRAWN BY JH RICHARD		TITLE VERTICAL SEPARATOR VESSEL 24" OD x 8'-0" S/S MAWP 1480 PSIG @ 100°F, 1/8" C.A.			
				RADIOGRAPHY: LONG SLAM FULL UW11(a) CIRC SLAM FULL PER UW11(a) HYDRASTATIC TEST PRESSURE: 2220 PSIG CORRUSION ALLOWANCE: 1/8" PREHEAT 200°F						CHECKED BY					
				WEIGHT EMPTY: 2800 LBS. WEIGHT FULL OF WATER 4300 LBS.						APPROVED BY		PROJECT NO 888-001		FILENAME 888-001	
								SCALE N/S		SHEET NO 1 OF 1		DRAWING NO. V-888-001		REV. NO. 1	



BILL OF MATERIALS

MARK	QTY.	DESCRIPTION
1	1	SHELL: 48"OD x 16'-0" S/S x 3/8" THK.
2	2	FLANGE: 52"OD x 48 1/8"ID x 3/8" THK
3	1	FLANGE PLATE: 52"OD x 3/8" THK
4	1	FLANGE: 52"OD x 3/8" THK.
5	3	PIPE SUPPORT: 3'-10" x 1'-7 5/16" x 3/8" THK.
6	4	PIPE: 3" SCH. 80 SMLS x 3'-11" LONG C.T.S.
7		
8	1	PLATE 30" OD" SCH. STD x 4'-4" LONG
9	1	PLATE: 30"OD x 8 3/4" ID x 1/4" THK (FOR EXPANSION TANK END)
10	1	PIPE: 8" SCH. 40 SMLS x 2'-0" LONG C.T.S.
11	1	FLANGE: 11"OD x 8 3/4" ID x 1/4" THK (FOR THIEF HATCH)
12		
13	2	SADDLE BASE PLATE 3'-6" X 8" x 1/2" THK.
14	2	SADDLE PLATE: 4'-6" x 2'-0" x 5/16" THK.
15		
16		
17	4	FULL CPLG: 2" NPT 3000#
18	4	FULL CPLG: 1" NPT 3000#
19	10	FULL CPLG: 3/4" NPT 3000#
20	1	PIPE: 12" x 0.188" WALL x 1'-1" LONG
21	1	PIPE: 12" x 0.188" WALL x 2'-4 1/4" LONG
22	1	PIPE: 12" x 0.188" WALL x 17'-5" LONG
23	1	PIPE: 12" x 0.188" WALL x 1'-0 3/4" LONG
24	4	FLANGES: 16 3/4" OD x 12 7/8" ID x 3/8" THK.
25	2	PLATE: 1/2" THK x 6" LONG LIFT LUG
26		
27	1	FLANGES: 16 3/4" OD x 3/8" THK
28		
29	1	PIPE: 12" x 0.188" WALL x 9'-0" LONG
30	4	1" FLAT BAR x 1/4" THK. x 12" LONG
31	1	PLATE: 16" OD x 1/4" THK. (FOR STACK LID)
32		
33		
34		
35	1	1/4" THK PLATE x 3' ROLLED TO 12"ID - (SHOP FAB.)
36	1	1/4" THK PLATE x 4' x 4 1/2" (CUT LESS TO SUIT DEPENDING ON THK OF FULL)
37	1	PIPE: 1" SCH. 80 SMLS x 9'-7" LONG F.G. PREHEAT LINE

NOZZLE WELD SCHEDULE

MARK	SIZE	SCH.	RTG.	TYPE	SERVICE	DSP	TSP	WELD DETAIL	FILLET
N1	3"	160	1500#	RTJ	GAS OUT	1'-4"	-	1 & 3	3/8"
N2	3"	160	1500#	RTJ	GAS INLET	1'-4"	-	1 & 3	3/8"
N3	3"	80	600#	RFWN	GAS OUT	1'-4"	-	1 & 3	3/8"
N4	3"	80	600#	RFWN	GAS INLET	1'-4"	-	1 & 3	3/8"
C1	2"	NPT	3000#	CPLG	DRAIN	-	-	2	3/8"
C2A	1"	NPT	3000#	CPLG	/C PREHEAT	-	-	2	3/8"
C2B	1"	NPT	3000#	CPLG	/C PREHEAT	-	-	2	3/8"
C3	3/4"	NPT	3000#	CPLG	T.C.	-	-	2	3/8"
C4	3/4"	NPT	3000#	CPLG	A.T.S.D.	-	-	2	3/8"
C5	3/4"	NPT	3000#	CPLG	I.I.	-	-	2	3/8"
C8A	3/4"	NPT	3000#	CPLG	SG	-	-	2	3/8"
C8B	3/4"	NPT	3000#	CPLG	SG	-	-	2	3/8"
C9	2"	NPT	3000#	TUL	11 SB	-	-	4	3/8"

REV	DESCRIPTION	BY	APP	DATE
1	AS BUILT	PP		02-02-25
0	ISSUED FOR CONSTRUCTION	BB		02-01-23
4	ISSUED FOR APPROVAL	SG		02-01-17



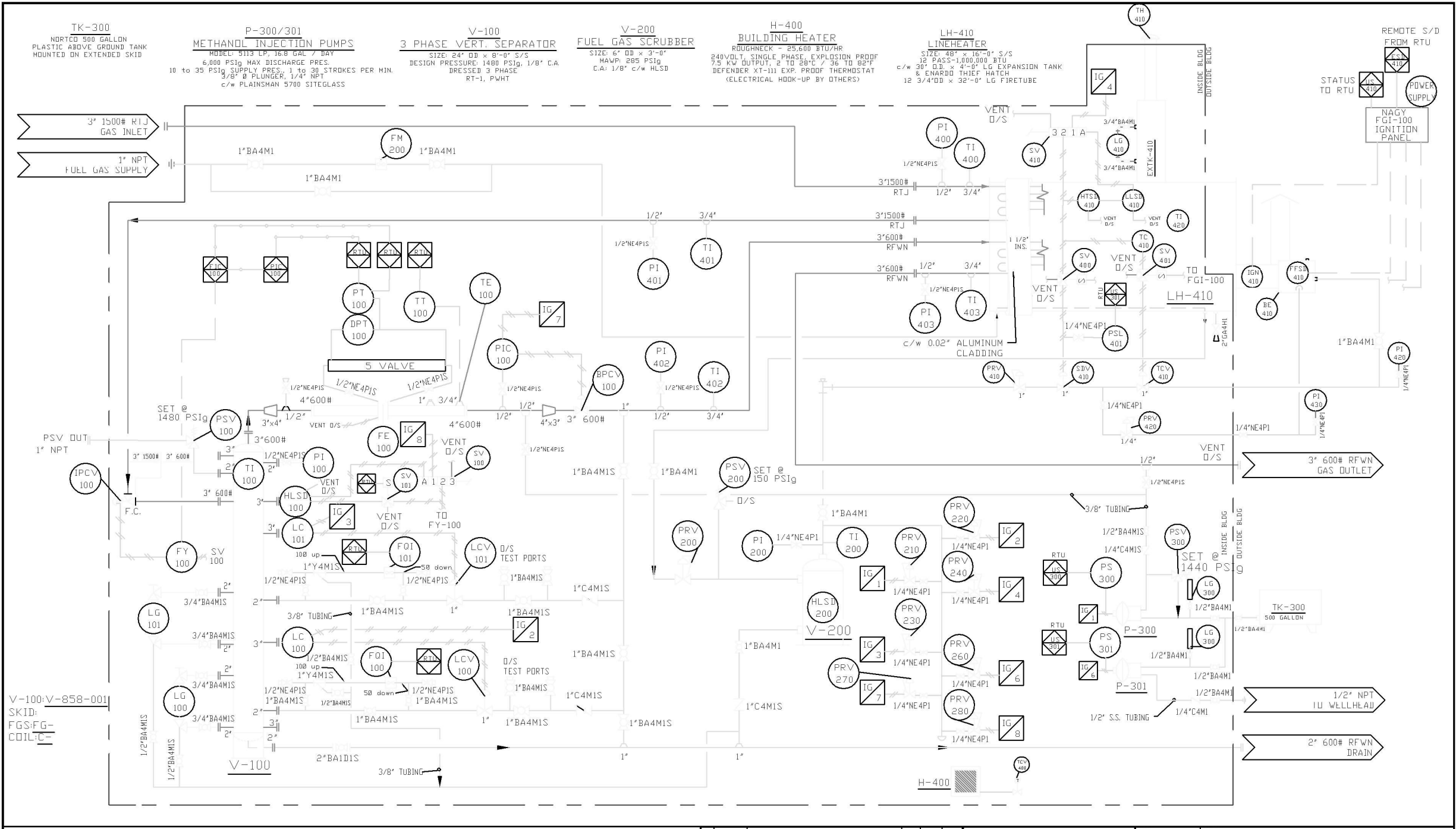
MANUFACTURING LTD.

DATE: 02-01-17
DESIGNED BY: DELANEY
DRAWN BY: S. GORDON
CHECKED BY:
APPROVED BY:
SCALE: N.T.S.

PROJECT NO: 929-001
SHEET NO: 1 OF 1

FILENAME: 929-001LH
DRAWING NO: CCL-929-001LH
REFERENCE NO:
REV. NO: 1

CONOCO CANADA RESOURCES LTD.
TITLE: 48"OD x 16'-0" S/S 1,000,000 BTU LINEHEATER 5 PASSES c/w 3" 1500# RTJ & 6 PASSES c/w 3" 600# RFWN



STAMPS & PERMITS

8	02-04-05	AS BUILT	SG
1	02-02-01	REV. AS PER CHANGE ORDER	SG
1	02-01-23	ISSUED FOR CONSTRUCTION	BB
A	02-01-17	ISSUED FOR APPROVAL	SG
NO	DATE	REVISIONS	BY

DELANEY
ENERGY
MANUFACTURING LTD.

ALBERTA

DATE	02-01-17	CLIENT	CONOCO CANADA RESOURCES LTD.	
DESIGNED BY	DELANEY	TITLE	24"OD x 8'-0" S/S VERT. SEPARATOR c/w 1,000,000 BTU LINEHEATER PACKAGE DESIGN PRESSURE 1480 PSIG @ 100°F c/w 1/8" C.A.	
DRAWN BY	S. GORDON	APPROVED BY	JOB NO.	929-001
CHECKED BY		FILENAME	929-001PID	REFERENCE NO.
SCALE	NTS	SHEET NO.	1 OF 1	REV. NO.

OFFICE MGR: _____ DATE: _____

ISSUED TO FAB MGR: _____ DATE: _____