HEAT TRACING NOTES:

- 2'-8" PIPE USE 1/2" 316 SS (0.035") TUBING; 10" PIPE USE 3/4" 316 SS (0.049") TUBING;

TIE-IN SCHEDULE:

SS BANDING TO SECURE TRACING;
 SHOP TO SEE PROJECT MANAGER FOR INSTALLATION DETAILS.

GENERAL NOTES:

1 NPS 6(150)-CL150 ASME RF HC DRAIN INLET, B.O.P. @ ELEV. 15'-115/16" (4859) 2 NPS 2(50)-CL150 ASME RF VENT GAS CONN., B.O.P. @ ELEV. 15'-115/16" (4859) 3 NPS 3(80)-CL150 ASME RF RECOVERED HC DRAIN, B.O.P. @ ELEV. 8'-0" (2438) 4 NPS 3(80)-CL150 ASME RF TRUCK OUT CONNECTION, & @ ELEV. 5'-3' (1600) $\left\langle 5\right\rangle$ NPS 2(50)-CL300 ASME RF HEAT MEDIUM SUPPLY, $\left\langle \Phi\right\rangle$ @ ELEV. 4'-4" (1321) 6 NPS 2(50)-CL300 ASME RF HEAT MEDIUM RETURN, ← ⊕ ELEV. 3'-3" (991)

7 NPS 2(50)-CL150 ASME RF FUEL GAS INLET, B.O.P. @ ELEV. 14'-47/16" (4380) 8 NPS 2(50)-CL150 ASME RF UTILITY AIR SUPPLY, & @ ELEV. 1'-0" (305) 9 NPS 2(50)-CL150 ASME RF INSTRUMENT AIR SUPPLY, & @ ELEV. 2'-0" (610)

10 NPS 2(50)-CL150 ASME RF FLOOR DRAIN, & ELEV. 0'-4" (102) BELOW TOP OF MAIN SKID 11 NPS 6(150)-CL150 ASME RF HP FLARE GAS, B.O.P. @ ELEV. 15'-115/16" (4859)

 $\langle 12 \rangle$ 24° CABLE TRAY ENTRY FOR 575V CUT OUT SIZE 35' WIDE x 14° HIGH \odot ELEV. 8'-11' (2715mm)

- GENERAL NUIES:

 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE MECHANICAL FLOWSHEET.

 2. PROCESS PIPING TO BE DESIGNED TO ASME B31.3 2012 EDITION AND REGISTERED IN ALBERTA.

 3. PRESSURE VESSELS ARE TO BE REGISTERED IN ALBERTA.

 4. VESSELS AND PIPING TO BE INSULATED AS PER FLOWSHEET AND/OR FABRICATION DRAWINGS.

 5. PAINTING AS PER GS-6100:

 INDOOR UNINSULATED VESSEL & PIPING, STRUCTURAL (SYSTEM P1):
 SURFACE PREPARATION: SSPC-SP6
 PRIMER: 4-6 mils CLOVAGUARD 8315 EPOXY
 FINISH: 2-3 mils CLOVATHANB 834 POLYURETHANE
 (VESSEL & PIPING 16376 LIGHT GRAY, STRUCTURAL 15090 BLUE, LADDERS AND HANDRAILS
 FS13591 SAFETY YELLOW)
 INSULATED VESSEL & PIPING (SYSTEM P4):

- FS13591 SAFETY YELLOW)

 INSULATED VESSEL & PIPING (SYSTEM P4):
 SURFACE PREPARATION: SSPC-SP10
 PRIMER: 5-8 mils CLOVALINE 8329 HEAVY DUTY EPOXY NOVOLAC LINING (GREY)
 FINSH: NONE
 INTERNAL COATING VESSEL:
 SURFACE PREPARATION: SSPC-SP5
 PRIMER: 5-8 mils DFT HIGHLAND 74
 TOP COAT: 5-8 mils DFT HIGHLAND 74
 OUTDOOR STRUCTURAL (SYSTEM NR):

- OUTDOOR STRUCTURAL (SYSTEM NP): STRUCTURAL: UN-PAINTED GRATING: GALVANIZED
- GALVANIZED

 6. ALL ELEVATIONS SHOWN ARE FROM TOP OF MAIN SKID MEMBERS. DEPTH OF SKID IS 1'-Q\frac{1}{2}''.

 7. ALL SKID EDGE CONNECTIONS TO BE HELD AT DIMENSIONS AND ELEVATIONS SHOWN FOR CUSTOMER TIE-INS.

 8. SKID IS DESIGNED FOR AN EIGHT (8) POINT LIFT.

 9. I/A SERVICE VENTING: BLEED TYPE INSTRUMENTS, REGULATOR BONNETS, INSTRUMENT CASES AND CONTROL VALVE ACTUATORS ARE NOT VENTED.

 10. 1"Ø INSTRUMENT AR HEADER AS SHOWN ON FLOWSHEET (SHOP TO RUN AS REQ'D) WITH 1/4"Ø TAKE-OFFS c/w ISOLATION NEEDLE VALVE, REGULATOR, AND TUBING TO COMPLETE.

 11. REMOVE ALL FLOATS/DISPLACERS FROM ALL LEVEL CONTROLLERS AND SWITCHES. TAG AND CRATE FOR SHIPPING.

- CRATE FOR SHIPPING.

 12. ALL INSTRUMENTS SHALL BE TAGGED AS FOLLOWS: 001-XX-10-XXXX, SO PG-1012 WOULD BE TAGGED 001-PG-10-1012

 13. PROTECT ALL OPENINGS FOR SHIPPING.
 14. ESTIMATED SHIPPING WEIGHT UNIT: 51,000 lbs.

 15. ALL PIPING HYDRO TESTS TO BE CHART RECORDERS

	A11 (SWEET)						
DESIGN CONDITIONS:							
D.P. & TEMP.	229 PSIG @ -20/248*F						
BW C.A.	½16" (1.5mm)						
NPT/SW C.A.	¹ / ₁₆ " (1.5mm)						
RADIOGRAPHY	10%						
P.W.H.T.	NONE						
HYDROTEST	426 PSIG						
PIPING:							
BW PIPING	3" - 20" SCH. STD, SA-106-B						
	2" SCH. 80, SA-106-B						
SW PIPING	≤ 1½" SCH. 80 SA-106-B						
NPT PIPING	≤ 1½" SCH. 80 SA-106-B						
INSTRUMENT TUBING	1/4" O.D. 316 STAINLESS STEEL (0.035") 3/8" VENTS						
PROCESS TUBING	1/2" O.D. 316 STAINLESS STEEL (0.049")						
FITTINGS:							
BW FITTINGS	3" - 20" SCH. STD, SA-234-WPB						
	2" SCH. 80, SA-234-WPB						
** SW FITTINGS	≤ 1½" CL3000 SA-105N						
NPT FITTINGS	≤ 1½" CL3000 SA-105N						
* FLANGES	RFWN BORE TO PIPE, SA-105N						
GASKETS	316 SS 'CGI' FLEXICARB						
BOLTING	SA-193-B7/SA-194-2H						
PUMP/L.G. NIPPLES	SCH. 160, SA-106-B						
INSTR. TUBING FITTINGS	316 SS SWAGELOK (DOUBLE FERRULE)						
PROCESS TUBING FITTINGS	316 SS SWAGELOK (DOUBLE FERRULE)						

*INSTRUMENT NOZZLES AND PIPING CONTAINING GLYCOL SHALL BE CL300

9

ISOMETRIC VIEW SCALE: 1/2"=1'-0" BUILDING NOT SHOWN

REFERENCE DRAWINGS

** 5% RT FIT-UP

										ONE (1) UNI	
								DRAWN	ZR	LICIA	
								DATE	2013-06-17	ALCO	
		0	2013 11-15				ISSUED FOR CONSTRUCTION	SCALE	NTS	PRODUCT	
		Ε	2013 10-08				RE-ISSUED FOR CUSTOMER APPROVAL	CHK'D		*GP of the ALCO GAS	
		D	2013 09-10				RE-ISSUED FOR CUSTOMER APPROVAL			ISOM COB CLOSED	
		С	2013 08-23	ZR			ISSUED FOR CUSTOMER APPROVAL	1	COB		
		В	2013 07-24				ISSUED FOR CUSTOMER APPROVAL	1		1	
D-2013-8440-50F-001	MECHANICAL FLOWSHEET	Α	2013 07-21	ZR			ISSUED FOR CUSTOMER APPROVAL	LOCATION: FERRIER CPF PROJECT,			
DWG.	DESCRIPTION	REV.	DATE	REV.	CO-ORD	APP'D CHIEF	DESCRIPTION	CUSTO	DMER: DEVON	CANADA CORPO	
		_	_		NO VALUE			DWC (CHOD ODDED: D '			

REVISIONS

NIT REO'D

The information contained her confidential property of Modern Contained in Property of Modern METRIC VIEW & NOTES HYDROCARBON DRAIN PACKAGE

DWG/SHOP ORDER: D-2013-8440-50A-001/003 REV. 0

TAG: 001-PK-10-1000 CUSTOMER: DEVON CANADA CORPORATION