



LEGEND

- STEAM NUMBER
- LIQUID FLOW, STD BPD
- VAPOR FLOW, STD MSCFD
- PRESSURE, PSIG
- TEMPERATURE, °F

NOTES:

- KEROSENE TO VAC RESID IS ~ 70 BPD.
- FLOW SHOWN DOES NOT INCLUDE THE 70 BPD KERO CUTTER.

EX-4001A/B/C
NAPHTHA PUMPAROUND
EXCHANGER

AC-4002 A
DIESEL
AIR COOLER

G-4001 A/B
CRUDE CHARGE
PUMPS

EX-4003
DESALTER WATER
FEED/EFFLUENT EXCHANGER

EX-4002
CRUDE/KEROSENE
PRODUCT EXCHANGER

EX-4004
CRUDE/DIESEL
PRODUCT EXCHANGER

SD-4001
DESALTER

EX-4005 A/B/C
CRUDE/AGO
PRODUCT EXCHANGER

AC-4002 B
KEROSENE
AIR COOLER

EX-4009
DIESEL CW COOLER

AC-4003
AGO AIR COOLER

EX-4008
KEROSENE CW COOLER

EX-4006 A/B
DIESEL PUMPAROUND
EXCHANGER

The ChemPro Group

The ChemPro Group LLC
103 William Street
Boonton, New Jersey 07005

SECURITY NOTICE: This document contains information that is the proprietary intellectual property of The ChemPro Group LLC, hereinafter CPG. It is loaned to the recipient for the express purposes of scope definition and bidding. It must be returned to CPG immediately upon their written request. Furthermore, to protect the intellectual property rights of CPG, this document may not be reproduced or disclosed to any others in whole or in part, in any form, without the express and specific written consent of CPG. In accepting this document, the recipient agrees to abide by these stated terms, or the document shall be returned to CPG immediately.

By:	Date:	CPG Ref. No.: 1701001
Drawn	ML 12/16/19	
Checked	AC 12/16/19	
Approved		Drawing Name: BAKKEN CASE NO. 4 CRUDE UNIT PROCESS FLOW DIAGRAM CONTINENTAL REFINING CO.
Client Ref. Info:		
REV: G FOR REVIEW	12/16/19	
Drawing Number: 1701001-01-01BAK		Rev. No.: G

