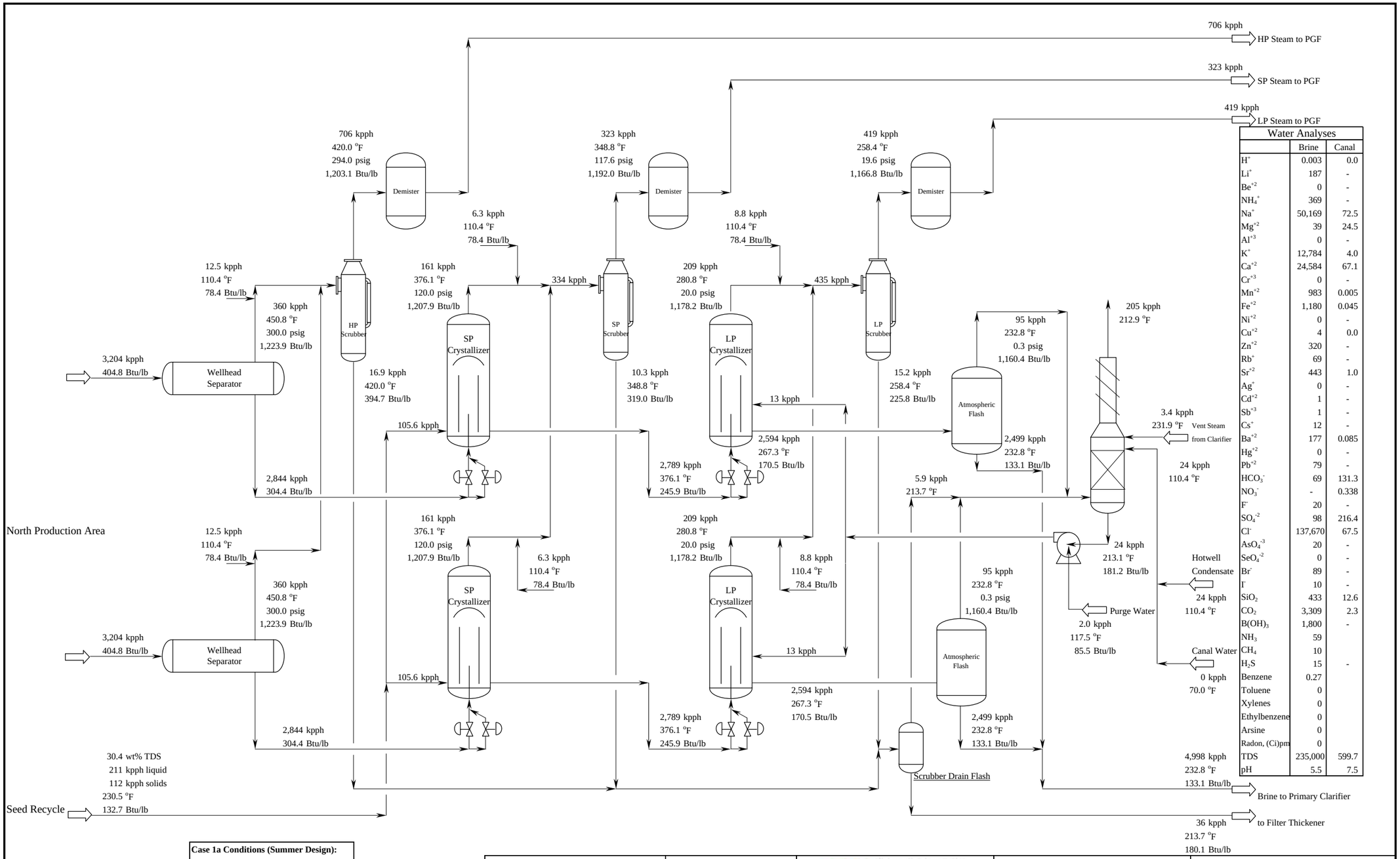

Water Analyses

	Brine	Canal
H^+	0.003	0.0
Li^+	187	-
Be^{+2}	0	-
NH_4^+	369	-
Na^+	50,169	72.5
Mg^{+2}	39	24.5
Al^{+3}	0	-
K^+	12,784	4.0
Ca^{+2}	24,584	67.1
Cr^{+3}	0	-
Mn^{+2}	983	0.005
Fe^{+2}	1,180	0.045
Ni^{+2}	0	-
Cu^{+2}	4	0.0
Zn^{+2}	320	-
Rb^+	69	-
Sr^{+2}	443	1.0
Ag^+	0	-
Cd^{+2}	1	-
Sb^{+3}	1	-
Cs^+	12	-
Ba^{+2}	177	0.085
Hg^{+2}	0	-
Pb^{+2}	79	-
HCO_3^-	69	131.3
NO_3^-	-	0.338
F^-	20	-
SO_4^{-2}	98	216.4
Cl^-	137,670	67.5
AsO_4^{-3}	20	-
SeO_4^{-2}	0	-
Br^-	89	-
I^-	10	-
SiO_2	433	12.6
CO_2	3,309	2.3
$B(OH)_3$	1,800	-
NH_3	59	
CH_4	10	
H_2S	15	-
Benzene	0.27	
Toluene	0	
Xylenes	0	
Ethylbenzene	0	
Arsine	0	
Radon, (Ci)pm	0	
TDS	235,000	599.7
pH	5.5	7.5

Case 1a Conditions (Summer Design):

Brine Enthalpy, Btu/lb	404.8
Brine TDS, wt%	23.5
HP Flash, psig	300.0
SP Flash, psig	120.0
LP Flash, psig	20.0
Dry Bulb Temp., F	105.0
Wet Bulb Temp., F	80.0
Cooling Tower Cells	20
Net Output,MW	175.0

REV	DESCRIPTION		
1	REVISED FILTER WATER SUPPLY	JRB	7-10-02
C	GENERAL REVISION	JRB	5-7-02
B	GENERAL REVISION	JRB	4-18-02
A	ISSUED FOR REVIEW	JRB	3-15-02

KIEWIT PKS SINCE 1884

CALENERGY OPERATING CORPORATION

Unit 6 Development Project
Initial Engineering

Bibb and associates

Salton Sea Unit 6
Heat/Mass Balance
Summer Design Conditions

SHEET 1 of 5

Resource Production Facility
Crystallizer PFD - North Train

Figure 3.3-10A

DRAWING NUMBER

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