



STREAM NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DESCRIPTION	CRUDE CHARGE	ATMOS OFF-GAS	COLD ATMOS OVHD	HOT ATMOS OVHD	ATMOS GAS OIL	ATMOS RESID	REFLUX TO PREFLASH DRUM	ATMOS COLUMN REFLUX	VAPOR FROM PREFLASH DRUM	VAPOR FROM 1ST STAGE COND	FEED TO PREFLASH DRUM	ATMOS GAS OIL TO STRIPPER	VAPOR FROM STRIPPER	PREFLASH DRUM BOTTOM	OVER FASH	
LT MIX CRUDE CASE (A)	80,000	10,880	26,781	23,110	5,960	27,560	1,052	16,895	23,893	138,887	138,887	22,325	9,645	42,018	55,363	2,306
BPSD OR (MMSCFD)	40.2	(4.99)	13.4	11.6	3.0	13.8	0.5	8.4	11.9	69.4	69.4	11.2	4.8	21.1	27.7	1.1
API OR (MW)	34.5	(49.9)	54.2	40.0	28.1	25.3	40.0	42.0	(38.0)	(34.5)	(36.9)	30.5	29.4	(25.5)	30.7	27.0
LB/HR	920,986	1,263	181,005	278,175	66,837	311,330	11,307	224,619	284,223	1,519,076	1,519,076	201,344	265,165	123,672	711,296	30,000
BRITAM OIL CRUDE CASE (B)	60,000	(5,644)	16,005	14,151	4,596	18,574	3,649	14,516	(14,961)	(19,692)	(23,294)	18,684	7,601	(17,442)	50,012	1,800
BPSD OR (MMSCFD)	30.0	(2.82)	8.0	7.1	2.3	9.3	1.8	7.3	(7.5)	(9.8)	(11.6)	9.3	3.8	(8.7)	25.0	0.9
API OR (MW)	34.5	(49.9)	54.2	41.2	29.0	25.3	41.2	41.2	(38.0)	(34.5)	(36.9)	30.5	29.4	(25.5)	30.7	27.0
LB/HR TOTAL	744,985	2,902	174,648	168,854	58,140	240,904	15,956	239,135	264,532	1,499,076	1,499,076	219,948	272,766	123,672	761,296	31,800

**NOTES:**

- MM = 10<sup>6</sup> BTU/HR. BPSD ARE AT 60°F. STANDARD GAS CONDITIONS ARE 14.7 PSIA @ 60°F. PUMP GPM ARE AT NORMAL OPERATING CONDITIONS. NC = NORMALLY CLOSED. INSTRUMENT SIGNALS MAY BE PNEUMATIC OR ELECTRICAL.
- CASE 'A' - LT MIX CRUDE OPERATION. CASE 'B' - BRITAM OIL CRUDE OPERATION.
- DESALTER WATER QUANTITIES ARE BASED ON 5 LB% ON CRUDE. MAX USAGE = 8LV%.
- BASED ON 50°F CRUDE. NORMAL DUTY WITH 80°F CRUDE IS 65.6 MM.

REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHKD
1	11/15/54	REVISED PER 25-18-05	J.P.H.	
2	1/14/55	REVISED PER 25-18-03	J.P.H.	
3	1/14/55	ISSUED FOR CONSTRUCTION	J.P.H.	
4	1/14/55	ISSUED FOR APPROVAL	J.P.H.	

SCALE: NONE

CANADIAN BECHTEL LIMITED  
TORONTO MONTREAL EDMONTON VANCOUVER

GULF OIL CANADA LIMITED  
EDMONTON REFINERY EXPANSION

PROCESS FLOW DIAGRAM  
ATMOSPHERIC CRUDE UNIT - PLANT NO. 1

ENGINEERING BY  
BECHTEL CORPORATION  
SAN FRANCISCO

BECHTEL 7488  
OCT 27 1955

**ID-A-13**