


PROJECT :			DATE :	02-Jan-03
PROJ. NO.:			BY :	S. Rahimi
CLIENT:			REV :	A
UNIT :			DOC NO.:	

Salt Balance (Two Stage Desalter)

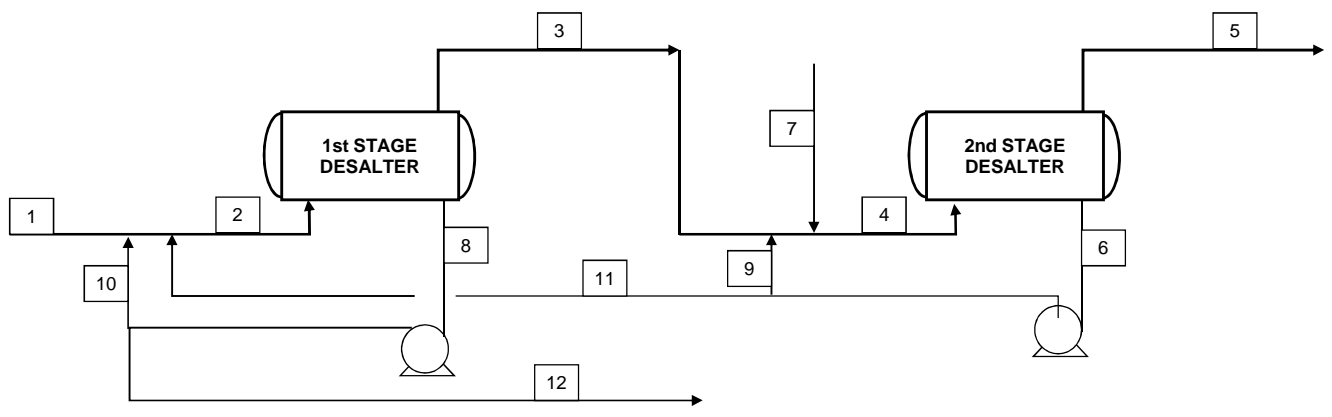
Salinity Calculation		
Chloride Conc. In feed	mg/lit	136170
Chloride in washing water	mg/lit	244
Mixing Efficiency	%	100
Outlet Oil Salt Content	PTB	18
Minimum Desalter Feed water	%	4
Feed Salinity	mg/lit	224393
Washing Water Salinity	mg/lit	402
Feed Salinity	lb/BBL	78.49
Washing Water Salinity	lb/BBL	0.14

Salt Balance Calculation		1	2	8	10	12	3	7	4	6	9	11	5
Parameter	Unit	FEED Stream	Stream to Stage 1	Reject Stage 1	1st stage Int. Recirc.	Package Reject	Out of Stage 1	Fresh Water	Stream to Stage 2	Reject Stage 2	2nd stage Int. Recirc.	Recycle to 1st stage	Out of Stage 2
Oil Flow Rate	BOPD	218336	218336	218336	218336	218336	218336	218336	218336	218336	218336	218336	218336
Water Percent	Vol%	2	4.00	3.90	1.62	2.28	0.1	0.34	4.00	3.90	3.56	0.34	0.1
Total water Flow Rate	BWPD	4456	8733	8515	3538	4977	219	740	8733	8515	7775	740	219
Mixed Water Flow Rate	BWPD	4456	8733	8515	3538	4977	219	740	8733	8515	7775	740	219
Salt Content	lb/day	349751	607756	592547	246180	346367	15209	104	139550	136058	124237	11825	3492
Salt Content	lb/BBL	78.49	69.59	69.59	69.59	69.59	69.59	0.14	15.98	15.98	15.98	15.98	15.98
Salt Content	PTB	1601.89	2783.58	2713.92	1127.53	1586.39	69.66	0.48	639.15	623.16	569.02	54.16	15.99

Calculation Summary		
Oil Flow Rate	m3/hr	1446.5
Fresh Water Consumption	m3/hr	4.9
1st stage Internal Recirculation	m3/hr	23.4
2nd stage Internal Recirculation	m3/hr	51.5
Package Recirculation	m3/hr	4.9
Package Reject	m3/hr	33.0
Reject salt Concentration	mg/lit	198941

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Notes