



PROJECT :			DATE :	04-Jan-10
PROJ. NO.:			BY :	S. Rahimi
CLIENT:			REV :	A
UNIT :	case 7		DOC NO.:	

Salt Balance (Single Stage Desalter + Upstream Separator)

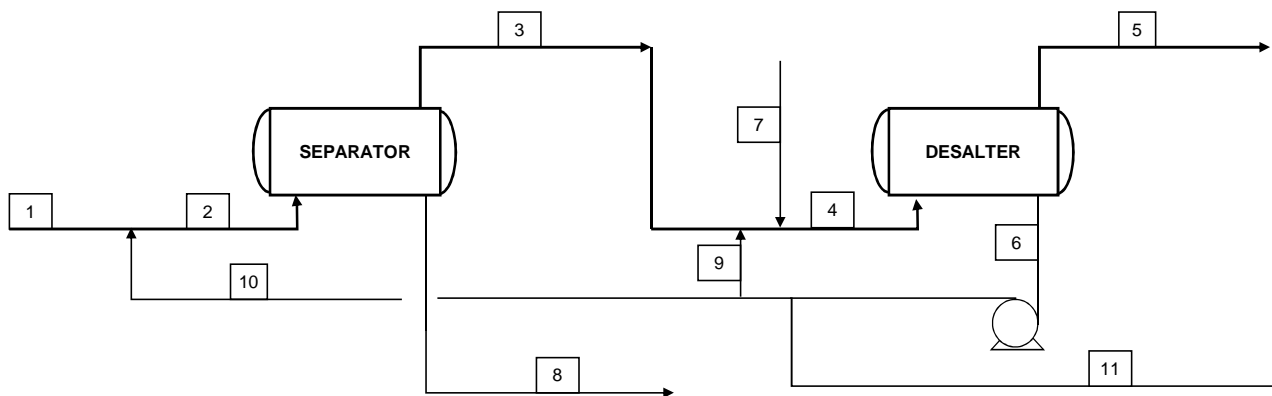
Salinity Calculation		
chloride Conc. In feed	mg/lit	133300
Chloride in washing water	mg/lit	244
Mixing Efficiency	%	60
Outlet Oil Salt Content	PTB	18
Feed Salinity	mg/lit	219663
Washing Water Salinity	mg/lit	402
Feed Salinity	lb/BBL	76.84
Washing Water Salinity	lb/BBL	0.14

Salt Balance Calculation												
Parameter	Unit	1	2	8	3	7	4	6	9	10	11	5
		FEED Stream	Stream to Separator	Separator Reject	Out of Separator	Fresh Water	Stream to Desalter	Desalter water out	Desalter Int. Recir.	Recycle to Seperator	Desalter Reject	Out of Desalter
Oil Flow Rate	BOPD	224054	224054	224054	224054	224054	224054	224054	224054	224054	224054	224054
Water Percent	Vol%	5.4	13.38	11.34	2	5.74	7.86	7.76	0.08	7.68	0.00	0.1
Free water (unmixed)	BWPD	12790	29988	25415	4573	12850	17602	17378	180	17198	0	224
Water Flow Rate	BWPD	12790	23108	25415	4573	12850	12390	17378	180	17198	0	224
Salt Content	lb/day	982728	1113604	980502	220353	1807	222804	220405	2278	218127	3	4033
Salt Content	lb/BBL	76.84	48.19	38.58	48.19	0.14	17.98	12.68	12.68	12.68	12.68	17.98
Salt Content	PTB	4386.12	4970.25	4376.19	983.48	8.07	994.42	983.72	10.17	973.55	0.01	18.00

Calculation Summary		
Oil Flow Rate	m3/hr	1484.4
Fresh Water Consumption	m3/hr	85.1
Separator Internal Recirculation	m3/hr	0.0
Desalter Internal Recirculation	m3/hr	1.2
Package recirculation	m3/hr	113.9
Package Reject (Desalter)	m3/hr	0.0
Package Reject (Separator)	m3/hr	168.4

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Notes