


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

Salt Balance (Single 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	7	4	6	9	11	5
Parameter	Unit	FEED Stream	Fresh Water	Stream to Desalter	desalter water out	2nd stage Int. Recirc.	Desalter Reject	Out of desalter
Oil Flow Rate	BOPD	222821	222821	222821	222821	222821	222821	222821
Water Percent	Vol%	2	0.67	2.71	2.61	0.00	2.61	0.1
Total water Flow Rate	BWPD	4547	1500	6047	5824	0	5824	223
Mixed Water Flow Rate	BWPD	4547	1500	6047	5824	0	5824	223
Salt Content	lb/day	356935	211	357146	343973	0	343973	13173
Salt Content	lb/BBL	78.49	0.14	59.06	59.06	59.06	59.06	59.06
Salt Content	PTB	1601.89	0.95	1602.84	1543.72	0.00	1543.72	59.12

Calculation Summary		
Oil Flow Rate	m3/hr	1476.2
Fresh Water Consumption	m3/hr	9.9
Internal Recirculation	m3/hr	0.0
Package Reject	m3/hr	38.6
Reject Concentration	mg/m3	168834

Notes

