

Table 8 : CAUSATION & OPERATING MODE versus RELEASE TYPE & SEVERITY

CAUSATION FACTORS		HYDROCARBON TYPE & SEVERITY									TOTALS
		LIQUIDS			GAS			2-PHASE			
		Maj	Sig	Min	Maj	Sig	Min	Maj	Sig	Min	
DESIGN FAULT		2	48	66	25	137	40	3	23	4	348
EQUIPMENT FAULT	CORROSION/EROSION	0	52	98	5	66	40	9	39	5	314
	MECHANICAL DEFECT	6	157	227	50	377	129	13	60	15	1034
	MATERIAL DEFECT	2	12	13	2	35	11	0	4	1	80
	OTHER EQUIPMENT	1	12	23	5	36	15	1	9	2	104
OPERATIONAL FAULT	INCORRECTLY FITTED	0	28	67	18	126	36	5	10	4	294
	IMPROPER OPERATION	5	94	114	28	180	86	7	30	5	549
	DROPPED OBJECT/OTHER IMPACT	1	7	10	2	7	7	3	3	0	40
	LEFT OPEN/OPENED WITH HC	2	30	38	15	90	61	0	16	2	254
	OTHER OPERATIONAL	2	13	13	3	38	11	1	7	2	90
PROCEDURAL FAULT	NON-COMPLIANCE PROC / PTW	0	38	45	17	100	41	3	13	2	259
	DEFICIENT PROCEDURE	3	53	56	17	132	52	1	27	4	345
	OTHER PROCEDURAL	1	4	5	3	16	5	1	1	0	36
OPERATING MODE IN AREA AT TIME OF INCIDENT											
DRILLING/WELL OPERATION		5	30	20	7	78	46	5	24	6	221
NORMAL PRODUCTION		6	169	288	51	385	122	15	82	17	1135
SHUTDOWN/BLOWDOWN		1	27	19	10	62	19	3	8	1	150
PIGGING/ FLUSHING/CLEANING/INSPECTION		1	11	13	5	34	20	1	4	1	90
MAINTENANCE/CONSTRUCTION		0	31	51	11	70	48	1	7	2	221
TESTING/SAMPLING		0	15	24	2	15	15	2	6	1	80
REINSTATEMENT/START-UP		1	47	82	17	165	85	3	14	1	415
TOTAL No. OF RELEASES		14	330	497	103	809	355	30	145	29	2312

Notes:

1. Data for the period 1-10-92 to 31-03-02
2. There may be several causation factors contributing to any one incident