

CONFIDENTIAL:
Subject to Protective Order
of 14th Judicial District Court
No. 91-1145

VDCM PRODUCTION SHIPMENTS AND YIELDS

	Jan-91	Feb-91	Mar-91	Apr-91	May-91	Jun-91	Jul-91	Aug-91	Sep-91	Oct-91	Nov-91	Dec-91	12M AVG	1990 AVG
VDCM UNIT														
Production:														
Records TPD	31.7	20.9	31.6	46.8	30.7	5.8	38.3	17.5	30.3	18.1	29.4	23.1	27.0	28.2
Unit TPD	28.4	23.4	31.6	33.5	33.4	5.3	39	23	31.3	20	29.8	24.3	27.0	29.9
Shipped TPD	28.0	10.0	25.0	23.1	20.3	18.2	35.4	26.7	26.2	17.0	17.6	21.6	22.5	13.7
Inventory Tons	868	390	775	497	818	445	535	251	374	408	762	806	806	737
YIELDS %														
Records CL	95.512	89.900	95.426	91.071	86.577	90.002	90.478	93.000	90.076	94.996	95.091	90.411	91.848	90.778
C	97.429	90.377	96.127	91.797	87.269	91.757	91.972	94.633	90.270	95.417	95.306	92.359	92.830	92.780
Unit CL	87.310	99.603	95.430	66.707	93.594	83.941	92.102	116.96	92.81	104.54	96.115	94.832	91.559	101.49
C	89.228	100.08	96.131	67.432	94.286	85.697	93.596	118.59	93.01	104.96	96.466	96.779	92.541	103.49
HQMME #/T/VDCM	1.1	1.5	3.1	1.8	2.5	5.1	2.3	2.9	0.3	5.3	1.9	2.1	2.5	2.5

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VDCM OPERATING PARAMETERS

	Jan-91	Feb-91	Mar-91	Apr-91	May-91	Jun-91	Jul-91	Aug-91	Sep-91	Oct-91	Nov-91	Dec-91	12M AVG	1990 AVG
TCE - HEAVY STILL														
Feed Flow GPM	10	9	12	14	11	4	14	9	12	7	10	12	10	13
Reflux Flow GPM	81	46	89	87	88	29	95	66	89	60	80	89	75	55
Steam Flow Lbs/Hr	9698	8979	11260	10630	10274	3395	9965	7230	9675	6310	9072	9758	8854	7746
Bottom Temp. DEGF	280	286	288	290	288	282	292	287	291	288	288	291	288	278
Top Temp. DEGF	231	238	240	246	246	241	236	245	246	245	245	247	242	240
TCE STRIPPER														
Top Pressure PSIG	1.3	1.4	1.7	2.0	2.0	2.7	2.3	2.6	1.9	1.1	1.4	1.5	1.8	1.6
Chest Pressure PSIG	60	61	59	62	61	63	74	80	89	90	103	76	73	54
Bottom Temp. DEGF	254	254	256	249	257	257	257	259	258	254	253	254	255	254
VDC REACTOR														
TCE Flow GPM	5	4	6	8	5	2	7	3.6	5.1	3.1	3.8	3.3	4.7	6.0
Bottom Press. PSIG	17.4	16.9	15.2	16.5	17.4	16.8	17.8	17.6	17.7	17.5	17.2	17.3	17.1	16.6
Bottom Temp. DEGF	226	233	237	236	237	235	232	235	236	235	237	236	235	224
Top Temp. DEGF	123	120	118	131	119	119	119	119	126	130	126	121	123	137
VDC DH STILL														
Steam Flow Lbs/Hr	513	249	431	405	417	160	412	282	384	238	561	524	381	405
Bottom Press. PSIG	15.4	12.9	14.6	13.8	11.8	13.0	15.0	13.3	13.9	11.1	11.0	10.3	13.0	14.3
Top Pressure PSIG	9.3	9.1	11.6	9.0	9.1	9.2	6.1	7.7	7.6	8.6	9.1	8.7	8.8	10.8
VDC STILL														
Bottom Press. PSIG	8	10	14	14	11.8	10.7	11.4	13.2	13.0	11.2	8.8	11.4	11	10
Top Pressure PSIG	4.4	5.9	5.1	5.8	7.8	8.3	9.4	9.8	11.4	8.1	3.2	2.2	6.8	6.3
Bottom Temp. DEGF	111	111	109	112	113	117	118	121	122	118	109	114	115	112
Steam Flow Lbs/Hr	1618	1008	2172	2320	2352	783	2219	1770	2188	1332	2365	2160	1857	1851
Reflux Flow GPM	11	8.2	23.8	22.9	23.7	8.2	23.3	18.5	26.0	14.8	25.8	24.4	19.2	13.9

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