

Total Vangorda Pit Highgrade ore Production 1991

Can Reed

007879

output:

summary for the selected records:

start:		tonnes	lead	zinc	Iron	combined	volume *	Density
01-Jan-91	<i>Total =</i>	1,434,012	4.37	5.18	23.6	9.54	364,986	3.93
end:								
31-Dec-91	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *	
Bench:	95%	10%	0.00	0.00	0.0	0.00		
	<i>diluted =</i>	dil tonnes	lead	zinc	Iron	combined	volume *	Density
		1,498,543	3.97	4.71	21.4	8.68		

* Volumes for GRUM & VANGORDA are BCM, for FARD, BCY (select the criteria separately)										
year	month	bench	phase	grade	tonnes	lead	zinc	iron	combined	date/valu
1991	JAN	1134	V	HR+	82,222	4.39	5.04	24.0	9.43	Jan-91
1991	JAN	1134	V	HG+	11,292	3.40	4.31	23.6	7.71	Jan-91
1991	JAN	1128	V	HR+	17,486	5.33	5.42	23.8	10.75	Jan-91
1991	JAN	1128	V	HG+	126,275	4.04	4.44	24.7	8.48	Jan-91
1991	FEB	1128	V	HR+	24,053	4.40	5.07	25.2	9.47	Feb-91
1991	FEB	1128	V	HG+	51,963	3.87	4.79	24.0	8.66	Feb-91
1991	MARCH	1128	V	HR+	50,667	4.04	4.58	23.9	8.62	Mar-91
1991	MARCH	1128	V	HG+	84,421	3.59	4.74	23.6	8.33	Mar-91
1991	MARCH	1122	V	HG+	2,198	3.52	5.61	15.6	9.13	Mar-91
1991	APRIL	1122	V	HG+	10,367	3.01	4.97	20.7	7.98	Apr-91
1991	JUNE	1122	V	HR+	5,581	2.72	4.27	22.0	6.99	Jun-91
1991	JUNE	1122	V	HG+	35,092	4.48	5.70	23.0	10.18	Jun-91
1991	JULY	1128	V	HR+	11,028	6.35	5.75	23.3	12.10	Jul-91
1991	JULY	1128	V	HG+	1,149	5.63	3.96	21.3	9.59	Jul-91
1991	JULY	1122	V	HR+	32,404	4.70	4.80	24.0	9.50	Jul-91
1991	JULY	1122	V	HG+	95,880	5.26	5.50	24.6	10.76	Jul-91
1991	AUG	1128	V	HG+	5,167	4.73	5.37	23.9	10.10	Aug-91
1991	AUG	1122	V	HR+	18,351	6.87	6.64	23.4	13.51	Aug-91
1991	AUG	1122	V	HG+	8,842	5.41	6.31	22.0	11.72	Aug-91
1991	AUG	1116	V	HR+	16,089	4.79	5.88	23.3	10.67	Aug-91
1991	AUG	1116	V	HG+	103,732	4.92	5.79	24.2	10.71	Aug-91
1991	SEPT	1128	V	HR+	1,189	8.00	6.00	20.0	14.00	Sep-91
1991	SEPT	1128	V	HG+	1,882	8.00	6.00	20.0	14.00	Sep-91
1991	SEPT	1122	V	HR+	40,107	4.40	4.81	27.1	9.21	Sep-91
1991	SEPT	1122	V	HG+	24,605	5.00	5.75	18.4	10.75	Sep-91
1991	SEPT	1116	V	HR+	3,069	4.30	6.43	25.1	10.73	Sep-91
1991	SEPT	1116	V	HG+	1,112	2.81	3.67	33.5	6.48	Sep-91
1991	SEPT	1110	V	HR+	2,429	5.20	5.00	27.4	10.20	Sep-91
1991	SEPT	1110	V	HG+	13,789	4.28	5.09	26.8	9.37	Sep-91
1991	OCT	1122	V	HR+	11,689	4.21	4.97	18.2	9.18	Oct-91
1991	OCT	1122	V	HG+	20,961	3.37	3.82	23.6	7.19	Oct-91
1991	OCT	1116	V	HR+	28,619	4.97	5.53	23.5	10.50	Oct-91
1991	OCT	1116	V	HG+	46,723	3.91	5.31	21.3	9.22	Oct-91
1991	OCT	1110	V	HR+	7,086	2.73	3.49	22.6	6.22	Oct-91
1991	OCT	1110	V	HG+	51,949	4.71	5.35	24.9	10.06	Oct-91
1991	NOV	1116	V	HR+	5,501	5.12	5.26	21.8	10.38	Nov-91
1991	NOV	1116	V	HG+	90,898	3.92	5.42	21.7	9.34	Nov-91
1991	NOV	1110	V	HR+	25,114	4.76	4.97	25.8	9.73	Nov-91
1991	NOV	1110	V	HG+	112,254	4.40	5.51	22.6	9.91	Nov-91
1991	DEC	1110	V	HR+	3,088	4.56	4.65	26.1	9.21	Dec-91
1991	DEC	1110	V	HG+	80,536	4.17	5.57	19.3	9.74	Dec-91
1991	DEC	1104	V	HR+	2,246	5.08	6.33	19.7	11.41	Dec-91
1991	DEC	1104	V	HG+	64,907	3.60	4.84	27.8	8.44	Dec-91

Non-Refractory ore Production @ Vangorda 1991

output:

summary for the selected records:

start:	tonnes	lead	zinc	Iron	combined	volume *	Density
01-Jan-91	<i>Total</i> = 1,045,994	4.26	5.21	23.4	9.47	267,287	3.91
end:	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *
31-Dec-91	95%	10%	0.00	0.00	0.0	0.00	
Bench:	dil tonnes	lead	zinc	Iron	combined	volume *	Density
	<i>Diluted</i> = 1,093,064	3.88	4.73	21.2	8.61		

year	month	bench	phase	grade	tonnes	lead	zinc	iron	combined	date	valu
1991	JAN	1134	V	HG+	11,292	3.40	4.31	23.6	7.71	Jan-91	
1991	JAN	1128	V	HG+	126,275	4.04	4.44	24.7	8.48	Jan-91	
1991	FEB	1128	V	HG+	51,963	3.87	4.79	24.0	8.66	Feb-91	
1991	MARCH	1128	V	HG+	84,421	3.59	4.74	23.6	8.33	Mar-91	
1991	MARCH	1122	V	HG+	2,198	3.52	5.61	15.6	9.13	Mar-91	
1991	APRIL	1122	V	HG+	10,367	3.01	4.97	20.7	7.98	Apr-91	
1991	JUNE	1122	V	HG+	35,092	4.48	5.70	23.0	10.18	Jun-91	
1991	JULY	1128	V	HG+	1,149	5.63	3.96	21.3	9.59	Jul-91	
1991	JULY	1122	V	HG+	95,880	5.26	5.50	24.6	10.76	Jul-91	
1991	AUG	1128	V	HG+	5,167	4.73	5.37	23.9	10.10	Aug-91	
1991	AUG	1122	V	HG+	8,842	5.41	6.31	22.0	11.72	Aug-91	
1991	AUG	1116	V	HG+	103,732	4.92	5.79	24.2	10.71	Aug-91	
1991	SEPT	1128	V	HG+	1,882	8.00	6.00	20.0	14.00	Sep-91	
1991	SEPT	1122	V	HG+	24,605	5.00	5.75	18.4	10.75	Sep-91	
1991	SEPT	1116	V	HG+	1,112	2.81	3.67	33.5	6.48	Sep-91	
1991	SEPT	1110	V	HG+	13,789	4.28	5.09	26.8	9.37	Sep-91	
1991	OCT	1122	V	HG+	20,961	3.37	3.82	23.6	7.19	Oct-91	
1991	OCT	1116	V	HG+	46,723	3.91	5.31	21.3	9.22	Oct-91	
1991	OCT	1110	V	HG+	51,949	4.71	5.35	24.9	10.06	Oct-91	
1991	NOV	1116	V	HG+	90,898	3.92	5.42	21.7	9.34	Nov-91	
1991	NOV	1110	V	HG+	112,254	4.40	5.51	22.6	9.91	Nov-91	
1991	DEC	1110	V	HG+	80,536	4.17	5.57	19.3	9.74	Dec-91	
1991	DEC	1104	V	HG+	64,907	3.60	4.84	27.8	8.44	Dec-91	

Refractory ORE Production @ Vangorda 1991

output: -----

summary for the selected records:

		tonnes	lead	zinc	Iron	combined	volume *	Density
start:	<i>Total</i>							
01-Jan-91		388,018	4.64	5.10	24.1	9.74	97,699	3.97
end:								
31-Dec-91	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *	
Bench:	95%	10%	0.00	0.00	0.0	0.00		
	<i>Diluted</i>	dil tonnes	lead	zinc	Iron	combined	volume *	Density
		405,479	4.22	4.63	21.9	8.85		

* Volumes for GRUM & VANGORDA are BCM, for FARD, BCY (select the criteria separately)

year	month	bench	phase	grade	tonnes	lead	zinc	iron	combined	datevalu
1991	JAN	1134	V	HR+	82,222	4.39	5.04	24.0	9.43	Jan-91
1991	JAN	1128	V	HR+	17,486	5.33	5.42	23.8	10.75	Jan-91
1991	FEB	1128	V	HR+	24,053	4.40	5.07	25.2	9.47	Feb-91
1991	MARCH	1128	V	HR+	50,667	4.04	4.58	23.9	8.62	Mar-91
1991	JUNE	1122	V	HR+	5,581	2.72	4.27	22.0	6.99	Jun-91
1991	JULY	1128	V	HR+	11,028	6.35	5.75	23.3	12.10	Jul-91
1991	JULY	1122	V	HR+	32,404	4.70	4.80	24.0	9.50	Jul-91
1991	AUG	1122	V	HR+	18,351	6.87	6.64	23.4	13.51	Aug-91
1991	AUG	1116	V	HR+	16,089	4.79	5.88	23.3	10.67	Aug-91
1991	SEPT	1128	V	HR+	1,189	8.00	6.00	20.0	14.00	Sep-91
1991	SEPT	1122	V	HR+	40,107	4.40	4.81	27.1	9.21	Sep-91
1991	SEPT	1116	V	HR+	3,069	4.30	6.43	25.1	10.73	Sep-91
1991	SEPT	1110	V	HR+	2,429	5.20	5.00	27.4	10.20	Sep-91
1991	OCT	1122	V	HR+	11,689	4.21	4.97	18.2	9.18	Oct-91
1991	OCT	1116	V	HR+	28,619	4.97	5.53	23.5	10.50	Oct-91
1991	OCT	1110	V	HR+	7,086	2.73	3.49	22.6	6.22	Oct-91
1991	NOV	1116	V	HR+	5,501	5.12	5.26	21.8	10.38	Nov-91
1991	NOV	1110	V	HR+	25,114	4.76	4.97	25.8	9.73	Nov-91
1991	DEC	1110	V	HR+	3,088	4.56	4.65	26.1	9.21	Dec-91
1991	DEC	1104	V	HR+	2,246	5.08	6.33	19.7	11.41	Dec-91

Vangorda Pit "Low grade" ore Production 1991

output: -----

summary for the selected records:

start:	tonnes	lead	zinc	Iron	combined	volume *	Density
01-Jan-91	<i>Total =</i> 167,801	2.19	2.66	22.7	4.85	45,596	3.68

end:	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *
31-Dec-91	95%	10%	0.00	0.00	0.0	0.00	

Bench:	dil tonnes	lead	zinc	Iron	combined	volume *	Density
	<i>diluted =</i> 175,352	1.99	2.42	20.7	4.41		

* Volumes for GRUM & VANGORDA are BCM, for FARD, BCY (select the criteria separately)

year	month	bench	phase	grade	tonnes	lead	zinc	iron	combined	datevalu
1991	AUG	1128	V	L3	5,550	2.03	3.32	14.9	5.35	Aug-91
1991	AUG	1116	V	L3	55,223	2.31	2.39	27.8	4.70	Aug-91
1991	SEPT	1122	V	L3	5,658	2.21	1.88	20.6	4.09	Sep-91
1991	OCT	1122	V	L3	23,527	1.88	3.11	12.8	4.99	Oct-91
1991	OCT	1116	V	L3	7,375	1.83	3.39	15.5	5.22	Oct-91
1991	OCT	1110	V	L3	8,944	1.99	1.78	35.2	3.77	Oct-91
1991	NOV	1116	V	L3	18,177	1.84	2.82	14.2	4.66	Nov-91
1991	NOV	1110	V	L3	8,414	2.73	1.92	30.9	4.65	Nov-91
1991	DEC	1110	V	L3	18,641	2.27	2.92	18.5	5.19	Dec-91
1991	DEC	1104	V	L3	16,292	2.61	3.01	29.8	5.62	Dec-91

Faro Pit "High grade" Production 1991

output:

summary for the selected records:

start:		tonnes	lead	zinc	Iron	combined	volume *	Density
01-Jan-91	<i>Total =</i>	751,524	2.94	5.75	27.5	8.70	242,299	3.10
end:								
31-Dec-91	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *	
Bench:	95%	10%	0.00	0.00	0.0	0.00		
	<i>diluted =</i>	dil tonnes	lead	zinc	Iron	combined	volume *	Density
		785,343	2.68	5.23	25.0	7.91		

* Volumes for GRUM & VANGORDA are BCM, for FARO, BCY (select the criteria separately)

year	month	bench	phase	grade	tonnes	lead	zinc	iron	combined	datevalu
1991	JAN	3550	E*	H+	43,911	3.44	5.18	31.6	8.62	Jan-91
1991	JAN	3530	E*	H+	2,684	2.91	4.31	38.5	7.22	Jan-91
1991	JAN	3390	S	H+	102,978	3.15	5.57	30.5	8.72	Jan-91
1991	FEB	3530	E*	H+	53,148	3.57	5.91	29.8	9.48	Feb-91
1991	FEB	3510	E*	H+	41,323	3.54	5.40	31.0	8.94	Feb-91
1991	FEB	3390	S	H+	12,945	3.31	6.07	31.5	9.38	Feb-91
1991	MARCH	3510	E*	H+	9,101	2.59	5.34	30.5	7.93	Mar-91
1991	MARCH	3490	E*	H+	38,234	2.67	5.69	32.2	8.36	Mar-91
1991	MARCH	3370	S	H+	48,531	2.45	5.35	23.5	7.80	Mar-91
1991	APRIL	3490	E*	H+	47,060	2.63	5.30	29.6	7.93	Apr-91
1991	JUNE	3490	E*	H+	3,557	3.37	7.53	22.3	10.90	Jun-91
1991	AUG	3470	ES	H+	47,644	2.90	6.15	28.4	9.05	Aug-91
1991	SEPT	3590	E	H+	5,708	2.90	7.34	23.8	10.24	Sep-91
1991	SEPT	3570	E	H+	25,034	3.22	7.42	23.9	10.64	Sep-91
1991	SEPT	3550	E	H+	44,098	2.71	6.38	22.0	9.09	Sep-91
1991	SEPT	3530	E	H+	35,844	2.49	5.44	22.3	7.93	Sep-91
1991	SEPT	3470	E	H+	17,708	3.61	7.57	26.1	11.18	Sep-91
1991	OCT	3530	E	H+	43,102	2.75	6.12	24.0	8.87	Oct-91
1991	OCT	3510	E	H+	31,171	3.20	7.44	24.4	10.64	Oct-91
1991	OCT	3490	E	H+	25,780	2.48	4.22	34.9	6.70	Oct-91
1991	NOV	3490	E	H+	24,892	2.22	4.82	13.7	7.04	Nov-91
1991	NOV	3470	E	H+	25,503	2.78	4.58	34.1	7.36	Nov-91
1991	DEC	3450	E	H+	21,568	2.47	5.63	21.0	8.10	Dec-91

Faro Pit "Medium" grade ore Production 1991

output:

summary for the selected records:

start:		tonnes	lead	zinc	Iron	combined	volume *	Density
01-Jan-91	<i>Total =</i>	458,056	2.30	4.13	26.7	6.43	152,779	3.00
end:								
31-Dec-91	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *	
Bench:	95%	10%	0.00	0.00	0.0	0.00		
	<i>diluted =</i>	dil tonnes	lead	zinc	Iron	combined	volume *	Density
		478,668	2.09	3.75	24.3	5.84		

* Volumes for GRUM & VANGORDA are BCM, for FARO, BCY (select the criteria separately)

year	month	bench	phase	grade	tonnes	lead	zinc	iron	combined	date	valu
1991	JAN	3550	E*	HM	26,151	2.35	4.75	26.9	7.10	Jan-91	
1991	JAN	3530	E*	HM	1,277	2.24	4.74	19.3	6.98	Jan-91	
1991	JAN	3390	S	HM	13,163	2.31	4.25	22.8	6.56	Jan-91	
1991	FEB	3530	E*	HM	65,214	2.73	4.37	32.4	7.10	Feb-91	
1991	FEB	3510	E*	HM	31,654	2.81	4.19	33.2	7.00	Feb-91	
1991	MARCH	3510	E*	HM	6,480	2.08	3.26	33.5	5.34	Mar-91	
1991	MARCH	3490	E*	HM	50,005	2.55	3.76	34.4	6.31	Mar-91	
1991	MARCH	3370	S	HM	37,849	2.22	4.60	21.3	6.82	Mar-91	
1991	APRIL	3490	E*	HM	20,432	2.27	3.85	32.2	6.12	Apr-91	
1991	JUNE	3490	E*	HM	9,226	2.36	5.37	30.5	7.73	Jun-91	
1991	AUG	3470	ES	HM	14,960	1.91	3.59	30.9	5.50	Aug-91	
1991	SEPT	3590	E	HM	2,316	1.33	3.14	19.9	4.47	Sep-91	
1991	SEPT	3570	E	HM	9,035	2.31	4.86	21.0	7.17	Sep-91	
1991	SEPT	3550	E	HM	26,862	1.69	3.57	21.4	5.26	Sep-91	
1991	SEPT	3530	E	HM	4,127	2.21	4.69	22.5	6.90	Sep-91	
1991	OCT	3510	E	HM	12,887	2.11	4.44	15.7	6.55	Oct-91	
1991	OCT	3490	E	HM	29,344	2.08	3.98	26.5	6.06	Oct-91	
1991	NOV	3470	E	HM	58,466	2.16	3.91	25.0	6.07	Nov-91	
1991	DEC	3450	E	HM	36,667	2.03	3.99	15.1	6.02	Dec-91	
1991	DEC	3430	E	HM	1,941	1.64	3.24	9.6	4.88	Dec-91	

Faro Pit "East" Phase Lowgrade Production 1991

output:

summary for the selected records:

start:		tonnes	lead	zinc	Iron	combined	volume *	Density
01-Jan-91	<i>Total =</i>	417,486	1.41	2.61	28.8	4.02	133,002	3.14
end:								
31-Dec-91	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *	
Bench:	95%	10%	0.00	0.00	0.0	0.00		
	<i>diluted</i>	dil tonnes	lead	zinc	Iron	combined	volume *	Density
		436,273	1.28	2.37	26.2	3.66		

* Volumes for GRUM & VANGORDA are BCM, for FARO, BCY (select the criteria separately)

year	month	bench	phase	grade	tonnes	lead	zinc	iron	combined	date	valu
1991	JAN	3550	E*	L3	50,083	1.51	2.43	29.9	3.94	Jan-91	
1991	JAN	3530	E*	L3	6,659	1.24	2.28	23.0	3.52	Jan-91	
1991	FEB	3530	E*	L3	85,702	1.48	2.49	29.9	3.97	Feb-91	
1991	FEB	3510	E*	L3	41,435	1.65	2.50	33.5	4.15	Feb-91	
1991	MARCH	3510	E*	L3	42,489	1.55	2.96	30.8	4.51	Mar-91	
1991	MARCH	3490	E*	L3	32,221	1.37	2.67	36.0	4.04	Mar-91	
1991	APRIL	3490	E*	L3	38,372	1.25	2.56	31.0	3.81	Apr-91	
1991	JUNE	3490	E*	L3	6,143	1.31	3.17	31.2	4.48	Jun-91	
1991	SEPT	3570	E	L3	658	1.32	3.13	18.9	4.45	Sep-91	
1991	SEPT	3570	E	L3	13,093	1.12	2.73	20.3	3.85	Sep-91	
1991	SEPT	3550	E	L3	20,453	1.03	2.37	21.2	3.40	Sep-91	
1991	SEPT	3530	E	L3	909	1.09	2.16	23.1	3.25	Sep-91	
1991	OCT	3530	E	L3	14,435	1.13	2.88	18.8	4.01	Oct-91	
1991	OCT	3510	E	L3	6,969	1.54	2.89	12.8	4.43	Oct-91	
1991	OCT	3510	E	L3	3,049	1.14	2.35	11.8	3.49	Oct-91	
1991	OCT	3490	E	L3	8,301	1.15	2.79	12.9	3.94	Oct-91	
1991	NOV	3490	E	L3	11,648	1.17	2.55	27.5	3.71	Nov-91	
1991	NOV	3470	E	L3	33,731	1.55	2.71	29.8	4.26	Nov-91	
1991	DEC	3450	E	L3	1,136	1.21	3.34	4.5	4.55	Dec-91	

Faro Pit "S" Phase Low grade Production 1991

output:

summary for the selected records:

start:		tonnes	lead	zinc	Iron	combined volume *	Density
01-Jan-91	<i>total =</i>	12,807	1.38	2.90	16.6	4.28	3,853 3.32

end:		% mining recovery	% dilution	lead	zinc	Iron	combined volume *
31-Dec-91		95%	10%	0.00	0.00	0.0	0.00
Bench:							

	<i>diluted =</i>	dil tonnes	lead	zinc	Iron	combined volume *	Density
		13,383	1.25	2.64	15.1	3.89	

* Volumes for GRUM & VANGORDA are BCM, for FARO, BCY (select the criteria separately)

year	month	bench phase	grade	tonnes	lead	zinc	iron	combined	datevalu
1991	JAN	3390 S	L3	12,807	1.38	2.90	16.6	4.28	Jan-91

Underground Production 1991

output:

summary for the selected records:

start:	tonnes	lead	zinc	Iron	combined	volume *	Density
01-Jan-91	<i>Total =</i> 605,903	4.53	7.19	25.0	11.72	208,932	2.90

end:	% mining recovery	% dilution	lead	zinc	Iron	combined	volume *
31-Dec-91	95%	10%	0.00	0.00	0.0	0.00	

Bench:	dil tonnes	lead	zinc	Iron	combined	volume *	Density
	<i>Diluted</i> 633,169	4.12	6.54	22.7	10.65		

* Volumes for GRUM & VANGORDA are BCM, for FARO, BCY (select the criteria separately)

year	month	bench phase	grade	tonnes	lead	zinc	iron	combined	datevalu
1991		U/G U/G	H+	605,903	4.53	7.19	25.0	11.72	Dec-91