

007176

FILE VJH.PFF.AES

MINING RESERVE EVALUATION

DESCRIPTION : VANGORDA RESERVES AS OF SEPT 1990 J. HENDRYS PIT DESIGN

TOP SURFACE GRID RECORD : 7 September 1990 Monthend Surface MERGED with corrected Aug. Surfa  
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128  
 CATEGORY : 1 : HIGH GRADE

CUT-OFF GRADES FOR THIS CATEGORY

LABEL FROM TO  
 %Pb+Zn 6.000 100.000

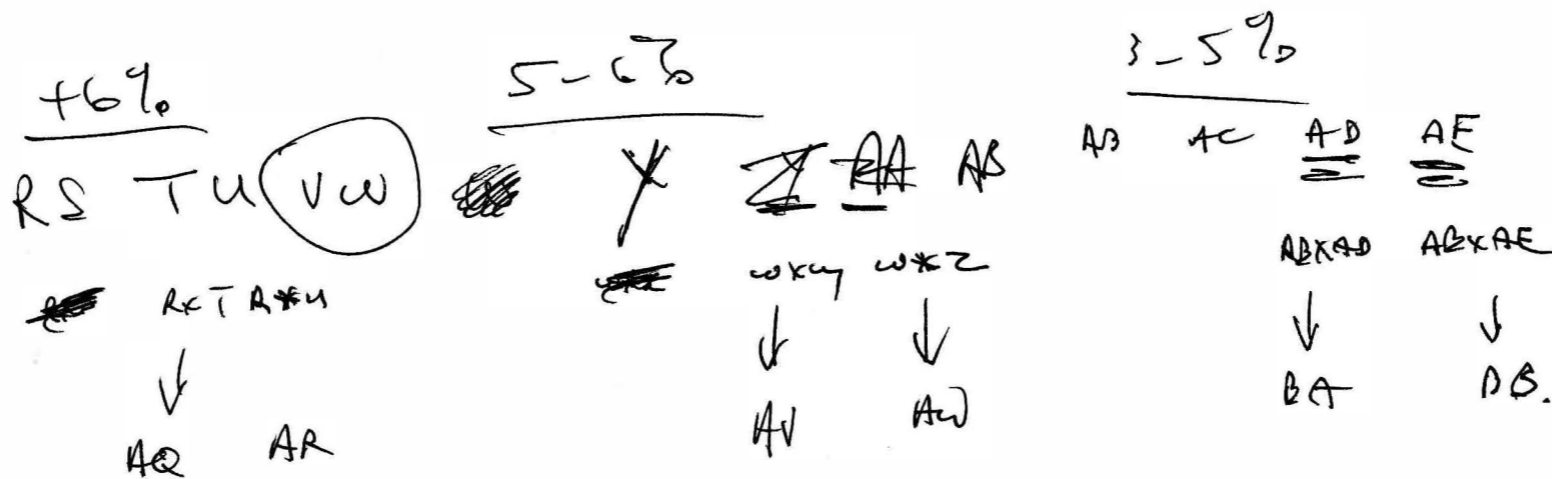
ROCK-TYPES IN THIS CATEGORY : 20 30 40 50 60 70 80

INCREMENTAL BENCH TOTALS

BENCH	CREST		TQE	VOLUME		DENSITY	TONNAGE		AVERAGE GRADES					ECONOMIC FACTOR
	[m	]		[bcm	x1000]		[tn/bcm]	[ TONS x1000]	[%Pb+Zn]	[%Pb	]	[%Zn	]	
A	B	C	D	E	F	G	H	I	J	K				
19	1176.00	1173.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
20	1173.00	1170.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
21	1170.00	1167.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
22	1167.00	1164.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
23	1164.00	1161.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
24	1161.00	1158.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
25	1158.00	1155.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
26	1155.00	1152.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
27	1152.00	1149.00	.00	.000	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
28	1149.00	1146.00	2.20	4.163	9.17	12.170	5.552	6.618	7.150	1.111				.00
29	1146.00	1143.00	12.72	4.065	51.72	10.891	5.007	5.885	6.549	.951				.00
30	1143.00	1140.00	26.78	3.999	107.09	10.577	4.830	5.746	6.328	.935				.00
31	1140.00	1137.00	64.69	3.973	257.05	9.987	4.616	5.371	5.896	.921				.00
32	1137.00	1134.00	54.58	3.936	214.80	10.215	4.618	5.597	5.742	.916				.00
33	1134.00	1131.00	61.05	3.959	241.67	9.984	4.444	5.540	5.205	.870				.00
34	1131.00	1128.00	39.09	3.985	155.80	10.209	4.586	5.623	5.360	.744				.00
35	1128.00	1125.00	41.79	4.013	167.72	10.757	4.873	5.884	5.565	.781				.00
36	1125.00	1122.00	31.51	4.038	127.20	10.111	4.639	5.472	5.553	.795				.00
37	1122.00	1119.00	34.94	4.007	140.00	10.003	4.463	5.540	5.532	.772				.00
38	1119.00	1116.00	34.08	3.993	136.09	10.103	4.383	5.720	5.630	.703				.00
39	1116.00	1113.00	45.50	3.940	179.25	10.301	4.424	5.877	5.845	.702				.00
40	1113.00	1110.00	44.58	3.875	172.71	10.091	4.423	5.668	5.663	.711				.00
41	1110.00	1107.00	51.30	3.811	195.47	9.801	4.290	5.512	5.553	.712				.00
42	1107.00	1104.00	49.48	3.708	183.50	9.499	4.111	5.388	5.180	.724				.00
43	1104.00	1101.00	46.87	3.694	173.17	9.344	4.054	5.290	5.338	.712				.00
44	1101.00	1098.00	45.95	3.733	171.51	9.362	4.139	5.222	5.403	.733				.00
45	1098.00	1095.00	42.18	3.832	161.64	9.709	4.311	5.399	5.595	.758				.00

46	1095.00	1092.00	40.44	4.045	163.09	10.128	4.487	5.038	5.772	.828	.00
47	1092.00	1089.00	38.77	4.025	156.06	9.858	4.375	5.483	5.513	.836	.00
48	1089.00	1086.00	33.86	4.000	135.45	9.867	4.439	5.429	5.292	.802	.00
49	1086.00	1083.00	36.25	4.078	147.83	10.333	4.649	5.684	5.492	.814	.00
50	1083.00	1080.00	35.26	4.055	143.00	10.188	4.603	5.586	5.400	.787	.00
51	1080.00	1077.00	36.05	4.107	148.06	10.373	4.692	5.681	5.579	.840	.00
52	1077.00	1074.00	41.26	4.146	171.07	10.267	4.589	5.678	5.745	.803	.00
53	1074.00	1071.00	41.42	4.109	170.22	9.905	4.433	5.472	5.585	.805	.00
54	1071.00	1068.00	40.52	4.123	167.04	9.553	4.320	5.234	5.541	.790	.00
55	1068.00	1065.00	35.88	4.105	147.29	9.468	4.287	5.181	5.510	.777	.00
56	1065.00	1062.00	30.86	4.085	126.08	9.334	4.183	5.151	5.339	.790	.00
57	1062.00	1059.00	27.29	4.094	111.74	9.301	4.170	5.130	5.341	.816	.00
58	1059.00	1056.00	15.82	4.177	66.09	9.750	4.350	5.400	5.784	.864	.00
59	1056.00	1053.00	7.62	4.217	32.14	9.569	4.264	5.305	5.420	1.313	.00
60	1053.00	1050.00	5.90	4.198	24.76	9.004	4.037	4.967	5.446	1.411	.00
61	1050.00	1047.00	7.30	4.231	30.87	8.225	3.689	4.536	5.054	1.465	.00
62	1047.00	1044.00	5.15	4.237	21.83	8.038	3.578	4.460	4.912	1.452	.00
63	1044.00	1041.00	5.83	4.243	24.75	8.139	3.621	4.519	4.895	1.420	.00
64	1041.00	1038.00	1.78	4.124	7.35	7.315	3.057	4.258	4.795	1.364	.00
65	1038.00	1035.00	1.65	4.154	6.84	8.140	3.498	4.642	5.121	1.450	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

TOTAL FOR ALL BENCHES 1218.22 3.979 4847.63 9.921 4.431 5.491 5.558 .816 .00



$$y = 0.56x + 3^{-2}$$

$$5 =$$

$$.56x = 1.8$$

$$x =$$

MINING RESERVE EVALUATION

DESCRIPTION : VANGORDA RESERVES AS OF SEPT 1990 J. HENDRYS PIT DESIGN

TOP SURFACE GRID RECORD : 7 September 1990 Monthend Surface MERGED with corrected Aug. Surfa  
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128  
 CATEGORY : 2 : MEDIUM GRADE

CUT-OFF GRADES FOR THIS CATEGORY

LABEL FROM TO  
 %Pb+Zn 5.000 6.000

ROCK-TYPES IN THIS CATEGORY : 20 3 40 50 60 70 80

INCREMENTAL BENCH TOTALS

BENCH	CREST [m ]	TOE [m ]	VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S					ECONOMIC FACTOR [#Cdn x1000]	
						[%Pb+Zn]	[%Pb ]	[%Zn ]	[Ag g/t]	[Au g/t]		
19	1176.00	1173.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
20	1173.00	1170.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
21	1170.00	1167.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
22	1167.00	1164.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
23	1164.00	1161.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
24	1161.00	1158.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
25	1158.00	1155.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
26	1155.00	1152.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
27	1152.00	1149.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
28	1149.00	1146.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.00
29	1146.00	1143.00	.16	4.013	.62	5.496	2.164	3.331	3.168	.913	.00	.00
30	1143.00	1140.00	1.12	3.864	4.35	5.599	2.718	2.881	4.865	1.013	.00	.00
31	1140.00	1137.00	2.19	3.642	7.99	5.600	2.516	3.084	3.634	.911	.00	.00
32	1137.00	1134.00	1.51	3.318	5.01	5.594	2.412	3.181	3.562	.669	.00	.00
33	1134.00	1131.00	1.78	3.542	6.32	5.474	2.507	2.966	2.824	.612	.00	.00
34	1131.00	1128.00	2.19	3.715	8.15	5.508	2.443	3.065	2.852	.667	.00	.00
35	1128.00	1125.00	3.38	3.294	11.13	5.595	2.245	3.350	3.084	.629	.00	.00
36	1125.00	1122.00	2.88	3.196	9.21	5.530	2.253	3.277	3.101	.546	.00	.00
37	1122.00	1119.00	5.62	3.151	17.72	5.492	2.189	3.303	3.128	.614	.00	.00
38	1119.00	1116.00	4.66	3.177	14.81	5.391	2.129	3.262	2.912	.552	.00	.00
39	1116.00	1113.00	6.97	3.038	21.18	5.431	2.194	3.237	2.942	.578	.00	.00
40	1113.00	1110.00	9.60	2.974	28.55	5.476	2.226	3.249	2.871	.494	.00	.00
41	1110.00	1107.00	14.54	2.929	42.59	5.467	2.233	3.233	2.912	.472	.00	.00
42	1107.00	1104.00	10.56	2.857	30.18	5.544	2.256	3.288	3.093	.477	.00	.00
43	1104.00	1101.00	9.46	2.911	27.55	5.567	2.231	3.337	3.120	.514	.00	.00
44	1101.00	1098.00	7.54	2.791	21.06	5.544	2.189	3.355	2.836	.491	.00	.00
45	1098.00	1095.00	6.72	2.966	19.93	5.481	2.316	3.165	2.867	.588	.00	.00

46	1095.00	1092.00	5.35	3.168	18.75	5.527	2.377	3.128	2.748	.774	.00
47	1092.00	1089.00	3.98	3.098	12.32	5.489	2.286	3.202	2.870	.688	.00
48	1089.00	1086.00	3.43	3.232	11.08	5.495	2.360	3.135	2.889	.723	.00
49	1086.00	1083.00	1.51	3.545	5.35	5.497	2.675	2.822	2.994	.918	.00
50	1083.00	1080.00	3.43	2.998	10.28	5.478	2.133	3.344	2.759	.502	.00
51	1080.00	1077.00	4.80	3.123	14.99	5.534	2.302	3.232	2.656	.630	.00
52	1077.00	1074.00	2.47	3.440	8.49	5.554	2.630	2.924	2.852	.927	.00
53	1074.00	1071.00	1.78	3.784	6.75	5.617	2.619	2.998	3.200	.850	.00
54	1071.00	1068.00	.69	3.341	2.29	5.268	1.847	3.421	2.133	.562	.00
55	1068.00	1065.00	1.37	4.084	5.60	5.383	2.649	2.734	3.147	1.240	.00
56	1065.00	1062.00	.69	3.929	2.69	5.577	2.652	2.925	3.235	.969	.00
57	1062.00	1059.00	1.10	3.953	4.34	5.493	2.908	2.585	3.051	.848	.00
58	1059.00	1056.00	1.37	3.972	5.45	5.564	2.823	2.741	3.414	.823	.00
59	1056.00	1053.00	1.65	3.988	6.56	5.343	2.728	2.615	3.335	1.047	.00
60	1053.00	1050.00	1.37	4.014	5.51	5.657	2.934	2.723	3.746	1.570	.00
61	1050.00	1047.00	.82	3.957	3.26	5.504	2.945	2.559	3.662	1.597	.00
62	1047.00	1044.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
63	1044.00	1041.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
64	1041.00	1038.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
65	1038.00	1035.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

TOTAL FOR ALL BENCHES 126.71 3.143 398.27 5.506 2.329 3.176 3.018 .641 .00

RSTUW  
TPZ PZ Ag Au

RxT Rxu Rxv Rxw.  
↓ ↓ ↓ ↓  
BA BB BC BD

YZ | AA AB AC AD  
BH BI BJ BK

AF AG AH AI AJ AK  
BO BP BQ BR

MINING RESERVE EVALUATION

DESCRIPTION : VANGORDA RESERVES AS OF SEPT 1990 J. HENDRYS PIT DESIGN

TOP SURFACE GRID RECORD : 7 September 1990 Monthend Surface MERGED with corrected Aug. Surfa  
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128  
 CATEGORY : 3 : LOW GRADE

CUT-OFF GRADES FOR THIS CATEGORY

LABEL FROM TO  
 %Pb+Zn 3.000 5.000

ROCK-TYPES IN THIS CATEGORY : 20 30 40 50 60 70 80

INCREMENTAL BENCH TOTALS

BENCH	CREST		VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [ TONS x1000]	A V E R A G E G R A D E S					ECONOMIC FACTOR [#Cdn x1000]
	[m ]	[m ]				[%Pb+Zn]	[%Pb ]	[%Zn ]	[Ag g/t]	[Au g/t]	
19	1176.00	1173.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
20	1173.00	1170.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
21	1170.00	1167.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
22	1167.00	1164.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
23	1164.00	1161.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
24	1161.00	1158.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
25	1158.00	1155.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
26	1155.00	1152.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
27	1152.00	1149.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
28	1149.00	1146.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
29	1146.00	1143.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
30	1143.00	1140.00	1.27	3.700	4.70	3.711	1.610	2.101	2.530	.945	.00
31	1140.00	1137.00	5.12	3.640	18.62	3.882	1.786	2.096	2.415	1.029	.00
32	1137.00	1134.00	2.33	3.456	8.06	4.094	1.965	2.129	2.177	.875	.00
33	1134.00	1131.00	2.74	3.450	9.46	3.807	1.623	2.184	2.171	.752	.00
34	1131.00	1128.00	2.74	3.567	9.79	4.260	1.907	2.353	2.440	.681	.00
35	1128.00	1125.00	7.68	3.364	25.84	3.881	1.576	2.305	2.522	.666	.00
36	1125.00	1122.00	8.96	3.229	28.92	3.865	1.579	2.286	2.378	.592	.00
37	1122.00	1119.00	10.11	3.091	31.25	3.857	1.552	2.305	2.148	.607	.00
38	1119.00	1116.00	9.74	3.111	30.29	4.004	1.604	2.401	2.186	.599	.00
39	1116.00	1113.00	10.53	3.063	32.25	4.058	1.651	2.406	2.257	.568	.00
40	1113.00	1110.00	15.22	2.971	45.24	4.166	1.748	2.418	2.192	.501	.00
41	1110.00	1107.00	17.97	3.014	54.15	4.068	1.688	2.380	2.280	.471	.00
42	1107.00	1104.00	16.32	2.927	47.78	4.140	1.651	2.489	2.465	.442	.00
43	1104.00	1101.00	17.83	2.908	51.84	4.138	1.672	2.466	2.396	.447	.00
44	1101.00	1098.00	13.46	2.873	38.67	4.177	1.725	2.453	2.330	.487	.00
45	1098.00	1095.00	12.34	2.855	35.24	4.094	1.654	2.440	2.242	.507	.00

46	1095.00	1092.00	7.33	2.867	26.74	3.871	1.600	2.268	2.060	.004	.00
47	1092.00	1089.00	9.25	2.786	25.76	3.880	1.590	2.291	2.056	.498	.00
48	1089.00	1086.00	8.37	2.870	24.01	4.125	1.626	2.499	2.301	.453	.00
49	1086.00	1083.00	7.41	3.021	22.37	4.037	1.603	2.434	2.345	.495	.00
50	1083.00	1080.00	4.24	2.808	11.91	4.219	1.508	2.711	2.214	.421	.00
51	1080.00	1077.00	3.30	2.970	9.80	4.196	1.588	2.608	2.300	.475	.00
52	1077.00	1074.00	5.35	3.041	16.27	3.983	1.531	2.452	2.175	.578	.00
53	1074.00	1071.00	8.23	3.146	25.89	4.051	1.627	2.424	2.119	.591	.00
54	1071.00	1068.00	3.50	3.718	13.00	3.717	1.721	1.996	2.187	.925	.00
55	1068.00	1065.00	1.98	3.812	7.53	3.689	1.657	2.032	2.413	1.007	.00
56	1065.00	1062.00	1.37	3.954	5.42	4.393	2.326	2.067	2.704	1.145	.00
57	1062.00	1059.00	1.10	3.730	4.09	3.791	1.915	1.876	2.393	.878	.00
58	1059.00	1056.00	2.06	3.775	7.77	4.264	2.174	2.089	2.574	.674	.00
59	1056.00	1053.00	4.94	3.633	17.94	3.869	1.735	2.134	2.350	.655	.00
60	1053.00	1050.00	.96	3.646	3.50	4.674	2.174	2.500	2.813	.679	.00
61	1050.00	1047.00	.41	3.672	1.51	3.675	1.484	2.191	2.644	.745	.00
62	1047.00	1044.00	.14	3.469	.48	3.677	1.491	2.186	2.408	.638	.00
63	1044.00	1041.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
64	1041.00	1038.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
65	1038.00	1035.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

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TOTAL FOR ALL BENCHES	226.29	3.076	696.11	4.033	1.669	2.365	2.293	.569	.00
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MINING RESERVE EVALUATION

DESCRIPTION : VANGORDA RESERVES AS OF SEPT 1990 J. HENDRYS PIT DESIGN

TOP SURFACE GRID RECORD : 7 September 1990 Monthend Surface MERGED with corrected Aug. Surfa  
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128  
 BENCH TOTALS FOR WASTE < 32 Pb+Zn

INCREMENTAL BENCH TOTALS

BENCH	CREST		TOE	VOLUME		DENSITY	TONNAGE	AVERAGE GRADES					ECONOMIC FACTOR	
	[m	]		[bcm	x1000]			[tn/bcm]	[ TONS x1000]	[%Pb+Zn]	[%Pb	]		[%Zn
19	1176.00	1173.00	.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.000	.00
20	1173.00	1170.00	.00	.00	.000	.00	.000	.000	.000	.000	.000	.000	.000	.00
21	1170.00	1167.00	.08	.08	2.600	.21	.000	.000	.000	.000	.000	.000	.000	.00
22	1167.00	1164.00	2.75	2.75	2.115	5.81	.000	.000	.000	.000	.000	.000	.000	.00
23	1164.00	1161.00	9.29	9.29	2.063	19.16	.000	.000	.000	.000	.000	.000	.000	.00
24	1161.00	1158.00	23.03	23.03	2.112	48.64	.000	.000	.000	.000	.000	.000	.000	.00
25	1158.00	1155.00	43.97	43.97	1.003	44.11	.000	.000	.000	.000	.000	.000	.000	.00
26	1155.00	1152.00	70.12	70.12	1.864	130.69	.000	.000	.000	.000	.000	.000	.000	.00
27	1152.00	1149.00	105.46	105.46	2.089	220.32	.000	.000	.000	.000	.000	.000	.000	.00
28	1149.00	1146.00	161.78	161.78	2.018	326.47	.023	.011	.012	.027	.013	.013	.013	.00
29	1146.00	1143.00	265.40	265.40	2.035	539.96	.072	.034	.037	.079	.037	.037	.037	.00
30	1143.00	1140.00	327.08	327.08	2.254	737.39	.034	.018	.017	.036	.016	.016	.016	.00
31	1140.00	1137.00	441.83	441.83	2.258	997.80	.047	.023	.024	.040	.022	.022	.022	.00
32	1137.00	1134.00	415.13	415.13	2.281	946.89	.013	.006	.006	.010	.005	.005	.005	.00
33	1134.00	1131.00	428.83	428.83	2.341	1004.00	.046	.021	.025	.033	.019	.019	.019	.00
34	1131.00	1128.00	393.48	393.48	2.327	915.43	.020	.009	.011	.011	.007	.007	.007	.00
35	1128.00	1125.00	394.87	394.87	2.405	949.80	.071	.029	.042	.052	.026	.026	.026	.00
36	1125.00	1122.00	365.04	365.04	2.414	881.09	.054	.021	.033	.041	.017	.017	.017	.00
37	1122.00	1119.00	359.80	359.80	2.460	885.10	.042	.017	.024	.039	.014	.014	.014	.00
38	1119.00	1116.00	314.84	314.84	2.499	786.88	.049	.022	.027	.041	.018	.018	.018	.00
39	1116.00	1113.00	297.43	297.43	2.550	758.45	.067	.034	.034	.052	.027	.027	.027	.00
40	1113.00	1110.00	253.64	253.64	2.586	655.93	.098	.048	.050	.063	.027	.027	.027	.00
41	1110.00	1107.00	236.47	236.47	2.699	638.25	.115	.051	.063	.075	.039	.039	.039	.00
42	1107.00	1104.00	206.35	206.35	2.776	572.80	.172	.075	.097	.115	.051	.051	.051	.00
43	1104.00	1101.00	206.55	206.55	2.828	584.11	.190	.077	.113	.151	.063	.063	.063	.00
44	1101.00	1098.00	187.58	187.58	2.859	536.38	.120	.049	.071	.106	.055	.055	.055	.00
45	1098.00	1095.00	191.59	191.59	2.852	546.38	.116	.054	.062	.110	.061	.061	.061	.00
46	1095.00	1092.00	157.97	157.97	2.835	447.77	.104	.047	.057	.077	.029	.029	.029	.00
47	1092.00	1089.00	159.44	159.44	2.842	453.13	.104	.051	.053	.083	.034	.034	.034	.00
48	1089.00	1086.00	138.61	138.61	2.852	395.37	.123	.054	.069	.105	.038	.038	.038	.00
49	1086.00	1083.00	137.69	137.69	2.861	393.86	.148	.062	.086	.129	.052	.052	.052	.00
50	1083.00	1080.00	110.38	110.38	2.855	315.11	.113	.044	.069	.084	.032	.032	.032	.00

51	1080.00	1077.00	107.12	2.837	306.00	.123	.033	.070	.071	.047	.00
52	1077.00	1074.00	81.88	2.905	237.83	.178	.097	.081	.130	.092	.00
53	1074.00	1071.00	78.32	2.930	229.51	.239	.129	.110	.185	.137	.00
54	1071.00	1068.00	60.42	2.973	179.65	.317	.168	.149	.251	.206	.00
55	1068.00	1065.00	64.36	3.005	193.40	.397	.204	.193	.337	.255	.00
56	1065.00	1062.00	45.21	2.970	134.25	.341	.185	.157	.307	.213	.00
57	1062.00	1059.00	48.21	3.020	145.62	.515	.263	.252	.456	.272	.00
58	1059.00	1056.00	33.63	3.111	104.64	.842	.418	.424	.652	.412	.00
59	1056.00	1053.00	37.61	3.144	118.25	.941	.473	.468	.700	.444	.00
60	1053.00	1050.00	23.60	3.032	71.56	.507	.240	.267	.401	.270	.00
61	1050.00	1047.00	22.70	3.047	69.17	.572	.253	.319	.429	.221	.00
62	1047.00	1044.00	13.79	2.864	39.50	.102	.042	.060	.070	.021	.00
63	1044.00	1041.00	12.71	2.851	36.25	.054	.023	.031	.036	.013	.00
64	1041.00	1038.00	3.84	2.849	10.94	.000	.000	.000	.000	.000	.00
65	1038.00	1035.00	3.98	2.849	11.33	.000	.000	.000	.000	.000	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00

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TOTAL FOR ALL BENCHES			7043.87	2.502	17625.17	.103	.048	.055	.082	.044	.00
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MINING RESERVE EVALUATION

DESCRIPTION : VANGORDA RESERVES AS OF SEPT 1990 J. HENDRYS PIT DESIGN

TOP SURFACE GRID RECORD : 7 September 1990 Monthend Surface MERGED with corrected Aug. Surfa  
 BOTTOM SURFACE GRID RECORD : 11 Vangorda Ultimate Pit JAMES HENDRY VJH MERGED with Topo.

BLOCKS USED : COLUMNS 1 TO 100 ROWS 1 TO 128  
 BENCH TOTALS FOR ALL MATERIAL

INCREMENTAL BENCH TOTALS

BENCH	CREST		VOLUME [bcm x1000]	DENSITY [tn/bcm]	TONNAGE [ TONS x1000]	AVERAGE GRADES					ECONOMIC FACTOR [#Cdn x1000]
	[m ]	[m ]				[%Pb+Zn]	[%Pb ]	[%Zn ]	[Ag g/t]	[Au g/t]	
19	1176.00	1173.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
20	1173.00	1170.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
21	1170.00	1167.00	.08	2.600	.21	.000	.000	.000	.000	.000	.00
22	1167.00	1164.00	2.75	2.115	5.81	.000	.000	.000	.000	.000	.00
23	1164.00	1161.00	9.29	2.063	19.16	.000	.000	.000	.000	.000	.00
24	1161.00	1158.00	23.03	2.112	48.64	.000	.000	.000	.000	.000	.00
25	1158.00	1155.00	43.97	1.003	44.11	.000	.000	.000	.000	.000	.00
26	1155.00	1152.00	70.12	1.864	130.69	.000	.000	.000	.000	.000	.00
27	1152.00	1149.00	105.46	2.089	220.32	.000	.000	.000	.000	.000	.00
28	1149.00	1146.00	163.99	2.047	335.64	.355	.163	.192	.222	.043	.00
29	1146.00	1143.00	278.28	2.128	592.30	1.022	.471	.552	.647	.117	.00
30	1143.00	1140.00	356.26	2.396	853.53	1.406	.644	.762	.864	.142	.00
31	1140.00	1137.00	513.83	2.494	1281.48	2.131	.985	1.146	1.272	.223	.00
32	1137.00	1134.00	473.55	2.481	1174.77	1.930	.873	1.057	1.088	.181	.00
33	1134.00	1131.00	494.41	2.551	1261.45	2.005	.893	1.113	1.054	.190	.00
34	1131.00	1128.00	437.50	2.489	1089.16	1.556	.699	.857	.819	.123	.00
35	1128.00	1125.00	447.72	2.579	1154.48	1.762	.789	.973	.937	.156	.00
36	1125.00	1122.00	408.38	2.562	1046.42	1.430	.645	.785	.803	.132	.00
37	1122.00	1119.00	410.47	2.617	1074.07	1.541	.677	.864	.867	.140	.00
38	1119.00	1116.00	363.33	2.664	968.07	1.668	.717	.951	.937	.141	.00
39	1116.00	1113.00	360.42	2.750	991.12	2.163	.926	1.236	1.233	.178	.00
40	1113.00	1110.00	323.04	2.794	902.43	2.385	1.040	1.345	1.330	.197	.00
41	1110.00	1107.00	320.28	2.905	930.45	2.625	1.137	1.488	1.484	.225	.00
42	1107.00	1104.00	282.72	2.951	834.25	2.645	1.132	1.514	1.472	.237	.00
43	1104.00	1101.00	280.71	2.981	836.66	2.507	1.070	1.437	1.461	.236	.00
44	1101.00	1098.00	254.53	3.016	767.61	2.538	1.106	1.432	1.477	.240	.00
45	1098.00	1095.00	252.83	3.019	763.17	2.471	1.088	1.383	1.442	.243	.00
46	1095.00	1092.00	213.09	3.074	655.04	2.901	1.281	1.620	1.659	.268	.00
47	1092.00	1089.00	211.43	3.061	647.27	2.708	1.197	1.511	1.524	.258	.00
48	1089.00	1086.00	184.27	3.071	565.92	2.730	1.215	1.515	1.494	.252	.00
49	1086.00	1083.00	182.85	3.114	569.41	2.995	1.338	1.657	1.635	.275	.00
50	1083.00	1080.00	153.32	3.133	480.30	3.329	1.482	1.847	1.777	.277	.00
51	1080.00	1077.00	151.07	3.111	470.07	3.515	1.500	1.957	1.917	.291	.00

51	1080.00	1077.00	131.27	3.188	478.87	3.040	1.087	1.706	1.710	.521	.00
52	1077.00	1074.00	130.95	3.312	433.66	4.405	1.972	2.433	2.475	.407	.00
53	1074.00	1071.00	129.76	3.332	432.36	4.356	1.952	2.404	2.474	.438	.00
54	1071.00	1068.00	105.12	3.443	361.98	4.733	2.150	2.582	2.774	.503	.00
55	1068.00	1065.00	103.59	3.416	353.82	4.322	1.973	2.349	2.579	.504	.00
56	1065.00	1062.00	78.13	3.436	268.45	4.699	2.131	2.569	2.748	.510	.00
57	1062.00	1059.00	77.70	3.421	265.79	4.340	1.974	2.366	2.582	.519	.00
58	1059.00	1056.00	52.88	3.478	183.95	4.327	1.976	2.351	2.659	.597	.00
59	1056.00	1053.00	51.81	3.375	174.89	2.992	1.383	1.608	1.836	.648	.00
60	1053.00	1050.00	31.83	3.309	105.33	2.912	1.338	1.574	1.842	.620	.00
61	1050.00	1047.00	31.24	3.355	104.81	3.024	1.367	1.658	1.924	.638	.00
62	1047.00	1044.00	19.08	3.239	61.81	2.933	1.302	1.631	1.799	.531	.00
63	1044.00	1041.00	18.55	3.289	61.00	3.335	1.483	1.852	2.008	.584	.00
64	1041.00	1038.00	5.62	3.253	18.30	2.940	1.229	1.712	1.927	.548	.00
65	1038.00	1035.00	5.62	3.231	18.17	3.063	1.316	1.747	1.927	.545	.00
66	1035.00	1032.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
67	1032.00	1029.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
68	1029.00	1026.00	.00	.000	.00	.000	.000	.000	.000	.000	.00
TOTAL FOR ALL BENCHES			8615.05	2.736	23567.14	2.330	1.036	1.294	1.323	.228	.00

REVERSE OVERLAP OF PITS WAS ENCOUNTERED : FILL VOLUME CORRESPONDING TO THIS OVERLAP IS 442.793 [bcm X 1000 ]