VANGORDA SECTIONAL RESERVE CALCULATION (WITHIN PIT LIMITS) APRIL, 1990
CARBONACEOUS AND NONCARBONACEOUS ORE TYPES COMBINED; X-SECTIONS 02+00W - 30+00E

SECTION	Pb+Zn%	Pb%	Zn%	Ag(g/t)	Au(g/t)	VOLUME (m^3)	TONNES	METAL CONTENT (WITHIN PIT LIMITS) Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)
02+00W	7.89	3.39	4.5	37.57	0.32	17,748	53,334	4,209	1,808	2,401	2,004	17
01+00W	0	0	0	0	0	0	0	0	0	0	0	0
00+00E	11.5	5.16	6.34	83.55	0.83	142,846	533,915	61,423	27,551	33,872	44,608	441
01+00E	9.87	3.83	6.04	68.59	0	11,318	39,430	3,890	1,509	2,381	2,704	0
02+00E	11.13	5.12	6.01	75.54	0.43	155,121	615,214	68,494	31,496	36,997	46,471	264
03+00E	10.32	4.43	5.89	62.5	0.59	71,523	285,651	29,492	12,653	16,839	17,854	170
04+00E	10.86	4.57	6.3	66.08	0.92	112,556	439,363	47,728	20,067	27,661	29,033	404
05+00E	11.44	5.09	6.35	68.4	1.04	51,717	209,554	23,975	10,673	13,302	14,333	219
06+00E	12.42	5.88	6.54	79.83	0.69	84,449	345,506	42,904	20,299	22,605	27,583	239
07+00E	9.21	4.14	5.07	60.35	0.9	50,175	213,134	19,638	8,823	10,815	12,862	191
08+00E	12.05	5.7	6.35	77	0.99	83,159	341,774	41,167	19,466	21,701	26,316	339
09+00E	11.03	5.2	5.83	60.95	1.21	11,767	48,897	5,393	2,541	2,851	2,980	59
10+00E	12.06	5.46	6.6	64.68	0.56	53,809	217,016	26,170	11,847	14,324	14,036	122
11+00E	11.61	5.18	6.43	66.77	0.94	37,350	158,876	18,440	8,227	10,212	10,608	149
12+00E	9.5	4.1	5.41	50.28	0.77	56,301	218,984	20,811	8,973	11,837	11,011	168
13+00E	13.57	6.73	6.84	91.46	1.32	10,404	41,813	5,673	2,815	2,858	3,824	55
14+00E	11.32	5.11	6.21	42.26	0.4	57,668	230,780	26,129	11,792	14,337	9,752	92
15+00E	10.05	4.58	5.48	60.05	0.6	18,933	69,731	7,009	3,191	3,818	4,187	42
16+00E	8.78	3.94	4.84	55.56	0.57	22,441	81,367	7,145	3,204	3,942	4,520	47
17+00E	12.88	5.99	6.89	74.41	1.01	16,110	65,743	8,466	3,935	4,530	4,892	66
18+00E	10.19	4.08	6.11	40.21	0.5	33,424	129,837	13,233	5,298	7,935	5,220	65
19+00E	11.19	4.96	6.23	65.89	0.91	15,012	57,404	6,424	2,846	3,579	3,783	52
20+00E	11.02	4.2	6.82	66.47	0.65	24,381	94,007	10,360	3,945	6,414	6,248	61
21+00E	10.3	4.49	5.82	68.65	0.99	4,755	18,851	1,942	846	1,097	1,294	19
22+00E	9.55	4.27	5.28	60.17	0.84	57,595	221,149	21,126	9,445	11,681	13,306	187
23+00E	9.82	5.06	4.76	57.52	0.69	9,318	34,709	3,407	1,757	1,650	1,996	24
24+00E	11.78	5.08	6.69	57.74	0.5	54,575	219,234	25,816	11,145	14,671	12,658	110
25+00E	16.89	10.72	6.17	108.99	1.61	4,021	17,270	2,916	1,851	1,065	1,882	28
26+00E	11.67	5.56	6.11	76.22	1.35	8,530	35,527	4,145	1,975	2,170	2,708	48
27+00E	13.84	5.43	8.41	93.7	1.31	4,950	20,471	2,833	1,112	1,722	1,918	27
28+00E	13.83	6.52	7.31	77.61	1.36	7,600	33,426	4,624	2,180	2,444	2,594	46
29+00E	17.1	6.08	11.02	80.8	1.49	1,188	5,623	962	342	620	454	8
30+00E	12.63	8.14	4.49	94.5	3.94	6,740	27,329	3,451	2,224	1,228	2,583	108

TOTALS

VOLUME (m^3)	TONNES	Pb+Zn (TONNES)	Pb (TONNES)	Zn (TONNES)	Ag (Kg)	Au (Kg)
1,297,484	5,124,919	569,395	255,836	313,559	346,222	3,867

AVERAGE GRADE FOR CARBONACEOUS AND NONCARBONACEOUS ORE TYPES COMBINED

Pb+Zn (%)	Pb (%)	Zn (%)	Ag (g/t)	Au (g/t)
11.11%	4.99%	6.12%	67.56	0.75

003813

VANGORDA SECTIONAL RESERVE CALCULATION (WITHIN PIT LIMITS) APRIL, 1990
NONCARBONACOUS ORE TYPES; CROSS-SECTIONS 02+00W - 30+00E

SECTION	Pb+Zn%	Pb%	Zn%	Ag(g/t)	Au(g/t)	VOLUME (m^3)	TONNES	METAL CONTENT (WITHIN PIT LIMITS) Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)
02+00W	8.52	3.75	4.77	37.6	0.25	7,425	24,813	2,114	930	1,184	933	6
01+00W	0	0	0	0	0	0	0					
00+00E	12.08	5.61	6.47	92.43	0.82	99,446	408,044	49,308	22,894	26,414	37,714	335
01+00E	10.88	3.87	7.01	78.83	0	6,350	24,970	2,718	967	1,751	1,968	0
02+00E	11.61	5.37	6.24	80.92	0.41	126,124	532,626	61,830	28,619	33,211	43,098	216
03+00E	10.57	4.57	6	64	0.59	65,133	267,992	28,323	12,246	16,078	17,151	159
04+00E	10.93	4.6	6.33	66.56	0.92	109,435	430,677	47,077	19,815	27,262	28,666	398
05+00E	11.6	5.19	6.42	69.71	1.08	48,805	201,192	23,347	10,437	12,910	14,026	216
06+00E	12.6	5.97	6.63	80.89	0.69	79,346	330,653	41,648	19,728	21,920	26,746	230
07+00E	9.21	4.14	5.07	60.35	0.9	50,175	213,134	19,638	8,823	10,815	12,862	191
08+00E	12.05	5.7	6.35	77	0.99	83,159	341,774	41,167	19,466	21,701	26,316	339
09+00E	11.03	5.2	5.83	60.95	1.21	11,767	48,897	5,393	2,541	2,851	2,980	59
10+00E	12.06	5.46	6.6	64.68	0.56	53,809	217,016	26,170	11,847	14,324	14,036	122
11+00E	11.61	5.18	6.43	66.77	0.94	37,350	158,876	18,440	8,227	10,212	10,608	149
12+00E	8.8	3.91	4.89	49.92	0.83	49,736	196,724	17,311	7,700	9,611	9,821	163
13+00E	13.57	6.73	6.84	91.46	1.32	10,404	41,813	5,673	2,815	2,858	3,824	55
14+00E	11.34	5.18	6.16	43.77	0.41	54,200	220,856	25,055	11,450	13,606	9,667	90
15+00E	10.21	4.57	5.64	60.05	0.6	16,953	64,880	6,627	2,966	3,661	3,896	39
16+00E	8.78	3.94	4.84	55.56	0.57	22,441	81,367	7,145	3,204	3,942	4,520	47
17+00E	12.88	5.99	6.89	74.41	1.01	16,110	65,743	8,466	3,935	4,530	4,892	66
18+00E	10.19	4.08	6.11	40.21	0.5	33,424	129,837	13,233	5,298	7,935	5,220	65
19+00E	11.19	4.96	6.23	65.89	0.91	15,012	57,404	6,424	2,846	3,579	3,783	52
20+00E	10.98	4.18	6.8	67.6	0.64	17,308	70,140	7,700	2,933	4,768	4,741	45
21+00E	10.33	4.53	5.8	69.47	1.01	4,529	18,140	1,874	822	1,052	1,260	18
22+00E	9.56	4.32	5.24	61.45	0.87	54,047	210,847	20,161	9,119	11,042	12,956	183
23+00E	9.82	5.06	4.76	57.52	0.69	9,318	34,709	3,407	1,757	1,650	1,996	24
24+00E	11.99	5.21	6.78	59.18	0.52	50,632	207,693	24,906	10,819	14,087	12,292	108
25+00E	16.89	10.72	6.17	108.99	1.61	4,021	17,270	2,916	1,851	1,065	1,882	28
26+00E	11.67	5.56	6.11	76.22	1.35	8,530	35,527	4,145	1,975	2,170	2,708	48
27+00E	13.84	5.43	8.41	93.7	1.31	4,950	20,471	2,833	1,112	1,722	1,918	27
28+00E	13.83	6.52	7.31	77.61	1.36	7,600	33,426	4,624	2,180	2,444	2,594	46
29+00E	17.1	6.08	11.02	80.8	1.49	1,188	5,623	962	342	620	454	8
30+00E	12.63	8.14	4.49	94.5	3.94	6,740	27,329	3,451	2,224	1,228	2,583	108

TOTALS

VOLUME (m^3)	TONNES	Pb+Zn (TONNES)	Pb (TONNES)	Zn (TONNES)	Ag (Kg)	Au (Kg)
1,165,467	4,740,463	534,086	241,888	292,203	328,111	3,640

AVERAGE GRADE FOR NONCARBONACEOUS ORE TYPES

Pb+Zn (%)	Pb (%)	Zn (%)	Ag (g/t)	Au (g/t)
11.27%	5.10%	6.16%	69.21	0.77

VANGORDA SECTIONAL RESERVE CALCULATION (WITHIN PIT LIMITS) APRIL, 1990
CARBONACOUS ORE TYPES; CROSS-SECTIONS 02+00W TO 30+00E

SECTION	Pb+Zn%	Pb%	Zn%	Ag(g/t)	Au(g/t)	VOLUME (m^3)	TONNES	METAL CONTENT (WITHIN PIT LIMITS) Pb+Zn (Tonnes)	Pb (Tonnes)	Zn (Tonnes)	Ag (Kg)	Au (Kg)
02+00W	7.35	3.08	4.27	37.54	0.39	10323	28521	2095	877	1218	1071	11
01+00W	0	0	0	0	0	0	0	0	0	0	0	0
00+00E	9.62	3.7	5.93	54.77	0.84	43400	125871	12115	4657	7458	6894	106
01+00E	8.11	3.75	4.36	50.9	0	4968	14460	1173	542	630	736	0
02+00E	8.07	3.48	4.58	40.84	0.58	28998	82588	6664	2878	3786	3373	48
03+00E	6.62	2.31	4.31	39.8	0.63	6390	17659	1169	408	761	703	11
04+00E	7.5	2.91	4.59	42.2	0.72	3121	8686	651	253	399	367	6
05+00E	7.51	2.82	4.69	36.7	0.29	2912	8362	628	236	392	307	2
06+00E	8.46	3.85	4.61	56.3	0.66	5103	14853	1257	572	685	836	10
07+00E	0	0	0	0	0	0	0	0	0	0	0	0
08+00E	0	0	0	0	0	0	0	0	0	0	0	0
09+00E	0	0	0	0	0	0	0	0	0	0	0	0
10+00E	0	0	0	0	0	0	0	0	0	0	0	0
11+00E	0	0	0	0	0	0	0	0	0	0	0	0
12+00E	15.72	5.72	10	53.5	0.22	6565	22260	3499	1273	2226	1191	5
13+00E	0	0	0	0	0	0	0	0	0	0	0	0
14+00E	10.81	3.45	7.37	8.49	0.13	3468	9924	1073	342	731	84	1
15+00E	7.88	4.63	3.25	60	0.51	1980	4851	382	225	158	291	2
16+00E	0	0	0	0	0	0	0	0	0	0	0	0
17+00E	0	0	0	0	0	0	0	0	0	0	0	0
18+00E	0	0	0	0	0	0	0	0	0	0	0	0
19+00E	0	0	0	0	0	0	0	0	0	0	0	0
20+00E	11.14	4.24	6.9	63.15	0.66	7073	23867	2659	1013	1647	1507	16
21+00E	9.65	3.38	6.27	47.7	0.46	227	711	69	24	45	34	0
22+00E	9.37	3.16	6.2	33.99	0.31	3548	10301	965	326	639	350	3
23+00E	0	0	0	0	0	0	0	0	0	0	0	0
24+00E	7.89	2.83	5.06	31.78	0.14	3943	11541	910	326	584	367	2
25+00E	0	0	0	0	0	0	0	0	0	0	0	0
26+00E	0	0	0	0	0	0	0	0	0	0	0	0
27+00E	0	0	0	0	0	0	0	0	0	0	0	0
28+00E	0	0	0	0	0	0	0	0	0	0	0	0
29+00E	0	0	0	0	0	0	0	0	0	0	0	0
30+00E	0	0	0	0	0	0	0	0	0	0	0	0

TOTALS

VOLUME (m^3)	TONNES	Pb+Zn (TONNES)	Pb (TONNES)	Zn (TONNES)	Ag (Kg)	Au (Kg)
132,019	384,455	35,309	13,952	21,359	18,111	223

AVERAGE GRADE FOR CARBONACEOUS ORE TYPES

Pb+Zn (%)	Pb (%)	Zn (%)	Ag (g/t)	Au (g/t)
9.18%	3.63%	5.56%	47.11	0.58