

2E

017902

IRUN

AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 12

COORDINATES OF VERTEX 1 (A,B) :20,66
 VERTEX 2 (A,B) :100,71
 VERTEX 3 (A,B) :152,81
 VERTEX 4 (A,B) :211,91
 VERTEX 5 (A,B) :294,98
 VERTEX 6 (A,B) :280,88
 VERTEX 7 (A,B) :211,80
 VERTEX 8 (A,B) :152,77
 VERTEX 9 (A,B) :110,63
 VERTEX 10 (A,B) :80,48
 VERTEX 11 (A,B) :51,48
 VERTEX 12 (A,B) :20,66

AREA = 2856 *overburden*
 PRESS (RETURN) KEY TO RESTART PROGRAM
 AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 12

COORDINATES OF VERTEX 1 (A,B) :51,48
 VERTEX 2 (A,B) :80,48
 VERTEX 3 (A,B) :110,63
 VERTEX 4 (A,B) :152,77
 VERTEX 5 (A,B) :211,80
 VERTEX 6 (A,B) :280,88
 VERTEX 7 (A,B) :166,19
 VERTEX 8 (A,B) :158,39
 VERTEX 9 (A,B) :134,34
 VERTEX 10 (A,B) :96,12
 VERTEX 11 (A,B) :96,4
 VERTEX 12 (A,B) :51,48

AREA = 7173.5 *"waste rock"*
 PRESS (RETURN) KEY TO RESTART PROGRAM 4
 AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 96,12
 ?EXTRA IGNORED

COORDINATES OF VERTEX 1 (A,B) :134,34
 VERTEX 2 (A,B) :134,11
 VERTEX 3 (A,B) :96,4
 VERTEX 4 (A,B) :

?REENTER
 (A,B) :999,9999
 VERTEX 5 (A,B) :8999,987
 VERTEX 6 (A,B) :

IRUN

AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 4

COORDINATES OF VERTEX 1 (A,B) :96,12
 VERTEX 2 (A,B) :134,34

overburden 2856
"waste" 7173.5
 2E1 628
 2E2 589
 11346.5

11346.5

overburden $2856 * 0.05 = 172788 m^3 = 225997 yd^3$

"waste" $7173.5 * 0.05 = 433997 m^3 = 561043 yd^3$
 $0.025 = 1,193,472 tonnes$

ore $1217 * 0.05 = 73628 m^3 = 96301 yd^3$
 $0.389 = 286415 tonnes$

2E

overburden

20,66
100,71
132,81
211,91
294,98
280,88
211,80
152,77
110,63
80,48
51,48
20,66

2 vertices

"waste rock"

51,48
80,48
110,63
152,77
211,80
280,88
166,19
158,39
134,34
96,12
96,4
51,48

12 vertices

ore block
2E2

96,12
134,34
134,11
96,4
96,12

Sum +

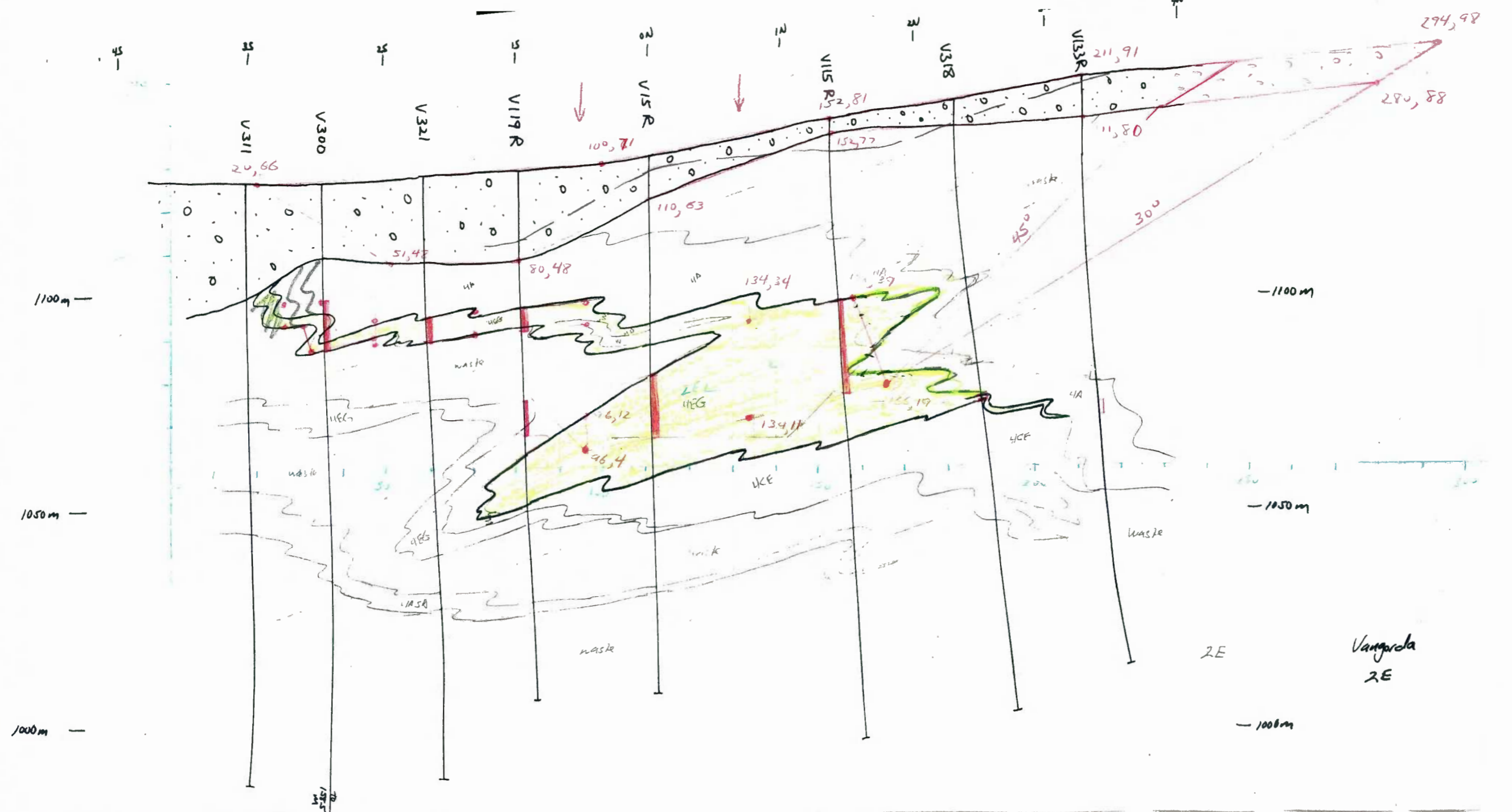
ore block
2E1

134,34
158,39
166,19
134,11
134,34

Sum +

total pit

20,66
100,71
152,81
211,91
294,98
166,19
134,11
96,4
51,48
20,66
10



VANGORDA DEPOSIT main layer high grade Nov 1984

SECTION 2 EAST

DDH	from	to	length	(M) S.G.	(N) Pb	(O) Zn	(P) Cu	(Q) Ag	(R) Au	(S) BaO	(T) Pb + Zn
V-115-R	42.4	43.9	1.5	4.24	4.96	7.05	.05	87.0	0	27.33	12.01
	43.9	45.4	1.5	4.25	6.85	7.62	.08	102.0	0	20.02	14.47
	45.4	46.9	1.5	4.24	8.19	6.73	.07	102.0	.01	19.02	14.92
	46.9	48.5	1.6	4.37	6.79	7.65	.04	95.0	.01	19.97	14.44
	48.5	50	1.5	4.2	9.65	7.36	.2	112.0	.01	4.71	17.01
	50	51.2	1.2	4.41	8.82	6.51	.1	98.5	0	11.51	15.33
	51.2	52.7	1.5	4.47	6.05	4.72	.04	89.0	.01	14.14	10.77
	52.7	54.3	1.6	4.37	5.26	5.7	.17	72.0	.01	13.04	10.96
	54.3	55.8	1.5	4.74	1.98	6.07	.03	33.5	0	6.54	8.05
	55.8	57.3	1.5	4.35	5.57	9.06	.05	101.5	.01	21.09	14.63
	57.3	58.8	1.5	4.33	8.49	10.6	.1	106.5	.02	11.98	19.09
	58.8	60.4	1.6	4.57	3.64	7.41	.08	59.0	0	27.03	11.05
	60.4	61.9	1.5	4.46	3.28	7.63	.09	62.0	0	30.51	10.91
	61.9	63.4	1.5	4.46	7.99	6.77	.16	100.5	.02	10.82	14.76
	63.4	64.9	1.5	4.48	3.45	3.79	.3	49.0	.01	4.37	7.24
	64.9	66.4	1.5	4.48	5.05	4.13	.3	67.0	.03	3.78	9.18
	66.4	67.7	1.3	4.39	4.59	4.89	.25	60.0	.01	5.24	9.48
2-E-1 =	42.4	67.7	25.3	4.40	5.89	6.71	.12	82.0	.01	14.95	12.59
V-15-R	38.5	39.9	1.4	3.08	4.65	9.03	.04	74.5	.45	.33	13.68
	41.8	42.9	1.1	4.13	8.02	5.35	.08	103.5	.65	1.83	13.37
	45	45.4	.4	3.49	4.19	9.79	.04	63.5	.24	12.24	13.98
	50.6	51.8	1.2	4.13	5.89	7.8	.09	96.0	.89	22.93	13.69
	51.8	52.6	.8	2.96	.5	.6	.03	4.0	.21	6.73	1.10
	52.6	54.7	2.1	4.53	3.75	5.73	.14	59.5	.89	23.31	9.48
	54.7	56.3	1.6	4.48	7.1	7.9	.13	92.5	1.03	4.66	15.00
	56.3	57.9	1.6	4.25	5.45	7.23	.18	82.0	2.26	23.89	12.68
	57.9	59.4	1.5	4.22	.95	1.04	.3	20.5	1.47	1.75	1.99
	59.4	60.4	1.0	4.23	1.34	2.1	.17	21.0	1.03	1.98	3.44
	60.4	61.4	1.0	4.45	4.97	7.23	.07	83.0	.82	26.74	12.20
	61.4	61.8	.4	4.39	7.78	8.73	.05	111.0	.69	21.58	16.51
	61.8	63.6	1.8	4.21	3.93	6.07	.09	64.0	.55	19.82	10.00
	63.6	65.4	1.8	4.18	5.97	5.06	.15	74.5	.62	13.59	11.03
2-E-2 =	50.6	65.4	14.8	4.23	4.33	5.44	.14	64.3	1.00	15.38	9.77
	67.2	69.3	2.1	4.42	5.1	7.65	.05	91.0	.48	27.9	12.75
	70.6	72.1	1.5	4.45	5.62	6.45	.05	82.0	.45	26.46	12.07
V-119-R	32.6	34.1	1.5	4.69	6.06	8.64	.22	174.5	.01	.32	14.70
	34.1	36	1.9	4.13	10.22	4.87	.04	128.0	.01	5.03	15.09

36	36.6	.6	2.75	0	0	0	0.0	0	0	0.00
36.6	37.6	1.0	4.68	5.99	8.04	.22	190.0	.02	.11	14.03
32.6	37.6	5	4.24	6.90	6.05	.13	139.0	.01	2.03	12.95
53.8	55.4	1.6	3.96	6.85	6.27	.07	87.5	0	11.64	13.12
55.4	56.7	1.3	4.59	7.48	8.86	.06	108.5	.01	31.14	16.34
56.7	58.2	1.5	4.57	6.55	8.53	.04	94.0	.01	36.44	15.08
58.2	59.8	1.6	4.53	6.87	7.96	.04	5.0	.01	36.19	14.83
59.8	61	1.2	4.58	3.17	4.49	.2	41.0	.01	8.16	7.66
61	62.3	1.3	4.46	5.41	5.87	.21	68.0	.02	4.43	11.28
53.8	62.3	8.5	4.44	6.16	7.07	.10	66.8	.01	22.03	13.23

block	from	to	length	S.G.	Pb	Zn	Cu	Ag	Au	BaO	Pb + Zn	DDH	AREA	VOLUME	TONNAGE
SECTION 2 EAST															
2-E-1	42.4	67.7	25.3	4.40	5.89	6.71	.12	82.0	.01	14.95	12.59	V-115-R	570	34485	136591
2-E-2	50.6	65.4	14.8	4.23	4.33	5.44	.14	64.3	1.00	15.38	9.77	V-15-R	494	29911	113997
averages/totals				4.32	5.18	6.13	.13	74.0	.46	15.14	11.31		1064	64396	250589

4E

JRUN POLYGONAREA
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 11

- COORDINATES OF VERTEX 1 (A,B)^{A'}₃₄: -66,75
- VERTEX 2 (A,B)⁸⁸: -12,68
- VERTEX 3 (A,B)¹⁵⁰: 50,64
- VERTEX 4 (A,B)²¹⁷: 117,65
- VERTEX 5 (A,B)²⁷²: 172,77
- VERTEX 6 (A,B)³²⁰: 220,78
- VERTEX 7 (A,B)²⁹⁴: 194,63
- VERTEX 8 (A,B)²³⁴: 134,51
- VERTEX 9 (A,B)¹⁷²: 72,46
- VERTEX 10 (A,B)⁸⁰: -20,48
- VERTEX 11 (A,B)³⁴: -66,75

A AREA = 4486.5 *overburden*

PRESS (RETURN) KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 4

- COORDINATES OF VERTEX 1 (A,B) : 1,26
- VERTEX 2 (A,B) : -20,48
- VERTEX 3 (A,B) : 72,46
- VERTEX 4 (A,B) : 1,26

B AREA = 991 *waste rock*

PRESS (RETURN) KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 11

- COORDINATES OF VERTEX 1 (A,B) : 1,26
- VERTEX 2 (A,B) : 38,28
- VERTEX 3 (A,B) : 73,33
- VERTEX 4 (A,B) : 97,48
- VERTEX 5 (A,B) : 134,51
- VERTEX 6 (A,B) : 194,63
- VERTEX 7 (A,B) : 91,1
- VERTEX 8 (A,B) : 91,23
- VERTEX 9 (A,B) : 24,23
- VERTEX 10 (A,B) : 24,1
- VERTEX 11 (A,B) : 1,26

C AREA = 3142.5 *waste rock*

PRESS (RETURN) KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 10

- COORDINATES OF VERTEX 1 (A,B) : -66,75
- VERTEX 2 (A,B) : -12,68
- VERTEX 3 (A,B) : 50,64
- VERTEX 4 (A,B) : 117,65
- VERTEX 5 (A,B) : 172,77
- VERTEX 6 (A,B) : 220,78
- VERTEX 7 (A,B) : 91,1
- VERTEX 8 (A,B) : 24,1
- VERTEX 9 (A,B) : -20,48
- VERTEX 10 (A,B) : -66,75

A' = A + 100 gives same area using (A',B) i.e. no negative coords

*overburden 4486.5 * 60.5 = 271,433 m³ = 355,019 yd³*

*waste rock 11335 * 60.5 = 250,077 m³ = 327,086 yd³
@ 2.75 = 68,772 tonnes*

*ore 1993 * 60.5 = 120,576 m³ = 157,707 yd³
@ 3.68 = 44,372 tonnes*

AREA = 10830 total pit
 PRESS <RETURN> KEY TO RESTART PROGRAM

$$A+B+C = 8620 \times 60.5 = 499730$$

$$\text{ore} = \frac{1993}{\text{(From calc. if grade)}} \times 60.5 = 120,577 @ 3.68 = 443,724 \text{ tonnes ore}$$

$A+B+C+\text{ore} = 10613$ compared to 10830 $\Rightarrow 2\%$ diff.

$$\text{rock } 4133.5 \times 60.5 = 250,077 @ 2.75 = 687712 \text{ tonnes waste rock}$$

$$\text{OB } 4486.5 \times 60.5 = 271,433$$

4E

Overburden

- 66, 75

- 12, 68

50, 64

117, 65

172, 77

220, 78

~~194, 63~~

134, 51

72, 46

- 20, 48

- 66, 75

waste
rock

1, 26

- 20, 48

72, 46

1, 26

waste
rock

1, 26

~~38, 28~~

73, 33

97, 48

134, 51

194, 63

91, 1

91, 23

24, 23

24, 1

1, 26

total vol.

- 66, 75

- 12, 68

50, 64

117, 65

172, ~~77~~

220, 78

~~194, 63~~

91, 1

24, 1

- 20, 48

- 66, 75

VANGORDA DEPOSIT- main layer high grade Nov. 1984

SECTION 4 EAST

	DDH	from	to	length	(M) S.G.	(N) Pb	(O) Zn	(P) Cu	(Q) Ag	(R) Au	(S) BaO	(T) Pb + Zn
V-305		18.4	20.0	1.6	4.41	4.84	3.15	.17	60.0	.80	7.94	7.99
		20	21.2	1.2	3.92	6.01	4.65	.11	72.0	.51	7.38	10.66
		21.2	23	1.8	3.18	1.74	1.96	.05	26.5	.08	17.9	3.70
		23	24.2	1.2	3.88	4.19	5.03	.15	60.0	.1	11.87	9.22
		24.2	25.1	.9	4.45	3.59	6.42	.05	59.5	.42	22.92	10.01
		25.1	25.6	.5	2.75	0	0	0	0.0	0	0	0.00
		25.6	27.4	1.8	4.22	3.97	4.23	.17	53.5	1.15	3.98	8.20
		27.4	28.7	1.3	4.54	5.89	7.59	.06	85.0	.35	23.08	13.48
		28.7	29.8	1.1	4.05	4.56	6.12	.06	77.0	.31	19.7	10.68
4-E-3 =		18.4	29.8	11.4	3.99	4.05	4.40	.10	56.8	.47	12.94	8.45
		42	43.8	1.8	3.27	4.26	6.61	.05	59.5	.15	3.21	10.87
		43.8	44.7	.9	3.55	4.67	7.37	.12	72.0	.86	5.62	12.04
		44.7	46	1.3	4.74	9.04	11.29	.04	160.0	.77	12.57	20.33
		46	46.9	.9	3.34	2.09	3.69	.01	33.0	.07	15.59	5.78
		46.9	47.9	1.0	4.1	3.18	7.01	.02	52.0	.14	31.86	10.19
		47.9	48.8	.9	4.25	5.79	4.47	.15	81.5	.76	8.24	10.26
		48.8	50.3	1.5	4.41	4.12	6.81	.05	73.5	.52	31.3	10.93
		50.3	51.8	1.5	4.23	2.84	6.26	.02	40.0	.31	36.07	9.10
		51.8	53.3	1.5	4	1.92	5.3	.03	34.5	.39	32.69	7.22
		53.3	54.9	1.6	4.33	3.68	7.13	.03	60.0	.36	33.96	10.81
		54.9	56.4	1.5	4.41	3.77	7.49	.03	70.0	.27	33.47	11.26
		56.4	57.9	1.5	4.32	4.71	8.86	.04	88.5	.31	27.5	13.57
		57.9	59.4	1.5	4.24	4.59	9.61	.03	81.5	.36	25.67	14.20
		59.4	61	1.6	4.42	3.18	8.16	.02	59.0	.39	34.3	11.34
		61	62.5	1.5	4.33	6.94	11.29	.07	89.0	.93	20.04	18.23
		62.5	63.5	1.0	4.16	9.07	11.66	.08	84.5	1.36	14.39	20.73
4-E-1 =		42	63.5	21.5	4.15	4.52	7.77	.05	70.9	.47	23.92	12.30
V-33-R		28.5	29	.5	3.88	10.86	8.87	.03	157.0	.41	7.32	19.73
		29	30.1	1.1	4.46	4.39	8.25	.03	72.0	.27	37.04	12.64
		30.1	31.7	1.6	4.69	6.33	7.63	.19	81.5	1.41	7.45	13.96
		31.7	33.2	1.5	4.57	4.69	6.02	.09	67.0	1.1	23.71	10.71
		33.2	34.4	1.2	4.06	3.17	5.82	.15	47.0	1.23	29.78	8.99
		34.4	35.5	1.1	4.04	4.74	4.6	.48	87.5	3.43	12.96	9.34
		35.5	37.1	1.6	4.5	5.76	6.54	.13	77.5	1.58	11.06	12.30
4-E-4 =		28.5	37.1	8.6	4.39	5.31	6.66	.16	77.4	1.42	18.56	11.97
		42.3	43.5	1.2	4.13	6.21	7.9	.08	87.0	.79	19.01	14.11
		43.5	45	1.5	3.91	3.72	7.29	.01	58.0	.21	30.33	11.01
		45	46.6	1.6	3.98	3.35	8.05	.01	59.5	.17	36.94	11.40
		46.6	48.2	1.6	4.17	6.37	6.94	.02	88.5	.27	27.95	13.31
		48.2	49.7	1.5	3.83	3.59	4.27	.16	49.5	.55	16.02	7.86
		49.7	51.2	1.5	3.87	5.15	4.43	.09	70.0	.58	17.44	9.58
		51.2	52.7	1.5	3.59	3.06	5.18	.06	47.5	.72	20.92	8.24
		52.7	54.3	1.6	3.96	2.65	5.09	.05	38.5	.72	22.8	7.74

	54.3	55.8	1.5	4.28	2.47	5.66	.07	41.0	.68	30.84	8.13
	55.8	57.3	1.5	4.45	3.56	5.39	.15	71.5	1.89	23.85	8.95
	57.3	58.8	1.5	4.34	3.47	6.75	.2	60.0	1.17	17.89	10.22
	58.8	60	1.2	4.22	4.27	6.75	.04	62.5	.62	32.88	11.02
	60	61.3	1.3	3.81	4.92	4.72	.07	64.0	1.17	14.53	9.64
	61.3	63.2	1.9	3.83	3.03	4.83	.13	35.5	1.03	16.67	7.86
4-E-2 =	42.3	63.2	20.9	4.02	3.93	5.91	.08	58.6	.75	23.40	9.83

V-304	30.8	32.3	1.5	3.21	5.05	7.86	.16	73.5	.99	.14	12.91

	36.9	38.4	1.5	2.87	2.6	5.82	.04	40.5	.78	.19	8.42
	38.4	39.2	.8	4.19	8.58	12.12	.23	107.0	1.47	3.58	20.70
4-E-5 =	36.9	39.2	2.3	3.33	4.68	8.01	.11	63.6	1.02	1.37	12.69

	53	54.5	1.5	4.5	8.14	9.86	.05	123.0	1.12	23.34	18.00
	54.5	56	1.5	4.14	4.25	6.86	.17	65.5	1.15	17.24	11.11
	56	57	1.0	4.01	4.77	6.41	.13	66.0	.63	12.83	11.18
	53	57	4	4.24	5.84	7.87	.12	87.2	1.01	18.43	13.71

	74.6	76.2	1.6	4.1	4.07	3.87	.53	48.5	4.18	1.74	7.94
	76.2	77.7	1.5	4.63	4.94	5.95	.21	68.5	1.41	17.61	10.89
	77.7	79.1	1.4	4.51	5.78	8.5	.07	83.5	2.05	22.56	14.28
	74.6	79.1	4.5	4.40	4.89	6.00	.28	66.1	2.59	13.51	10.90

block	from	to	length	S.G.	Pb	Zn	Cu	Ag	Au	BaO	Pb + Zn	DDH	AREA	VOLUME	TONNAGE
SECTION 4 EAST															
4-E-1 =	42	63.5	21.5	4.15	4.52	7.77	.05	70.9	.47	23.92	12.30	V-305	746	45103	168495
4-E-4 =	28.5	37.1	8.6	4.39	5.31	6.66	.16	77.4	1.42	18.56	11.97	V-33-R	240	14520	57318
4-E-3 =	18.4	29.8	11.4	3.99	4.05	4.40	.10	56.8	.47	12.94	8.45	V-305	307	18574	66678
4-E-2 =	42.3	63.2	20.9	4.02	3.93	5.91	.08	58.6	.75	23.40	9.83	V-33-R	640	38750	140220
4-E-5 =	36.9	39.2	2.3	3.33	4.68	8.01	.11	63.6	1.02	1.37	12.69	V-304	60	3630	10876
averages/totals				4.09	4.37	6.54	.08	65.6	.70	20.86	10.91		<u>1993</u>	120576	443588

GE

RUN

AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 9

COORDINATES OF VERTEX 1 (A,B) :-26,68
 VERTEX 2 (A,B) :151,70
 VERTEX 3 (A,B) :199,62
 VERTEX 4 (A,B) :220,62
 VERTEX 5 (A,B) :195,46
 VERTEX 6 (A,B) :161,53
 VERTEX 7 (A,B) :83,40
 VERTEX 8 (A,B) :25,38
 VERTEX 9 (A,B) :-26,68

AREA = 5058 *overburden*
 PRESS <RETURN> KEY TO RESTART PROGRAM
 AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

COORDINATES OF VERTEX 1 (A,B) :25,38
 VERTEX 2 (A,B) :83,40
 VERTEX 3 (A,B) :136,49
 VERTEX 4 (A,B) :101,32
 VERTEX 5 (A,B) :52,15
 VERTEX 6 (A,B) :52,9
 VERTEX 7 (A,B) :25,38

AREA = 1417 *waste rock*
 PRESS <RETURN> KEY TO RESTART PROGRAM
 AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 8

COORDINATES OF VERTEX 1 (A,B) :97,22
 VERTEX 2 (A,B) :145,42
 VERTEX 3 (A,B) :145,50
 VERTEX 4 (A,B) :161,53
 VERTEX 5 (A,B) :195,46
 VERTEX 6 (A,B) :145,16
 VERTEX 7 (A,B) :145,20
 VERTEX 8 (A,B) :97,22

AREA = 1485 *waste rock*
 PRESS <RETURN> KEY TO RESTART PROGRAM
 AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 9

COORDINATES OF VERTEX 1 (A,B) :-26,68
 VERTEX 2 (A,B) :151,70
 VERTEX 3 (A,B) :199,62
 VERTEX 4 (A,B) :220,62
 VERTEX 5 (A,B) :145,16
 VERTEX 6 (A,B) :102,7
 VERTEX 7 (A,B) :52,9
 VERTEX 8 (A,B) :25,38
 VERTEX 9 (A,B) :-26,68

AREA = 9526 *total pit*

OB	5058
waste rock	1417
waste rock	1485
ore	1447
<hr/>	
	9407

$\Delta\%$ = 1.3% *inflow sum : total pit*

OB = 5058 * 60.5 = 306,009 m³ = 400,242 yd³
 waste rock = 2902 * 60.5 = 175,571 m³ = 229,637 yd³
 @ 2.75 = 482,820 tonnes
 ore = 1447 * 60.5 = 87,545 m³ = 114,504 yd³
 @ 3.76 = 329,344 tonnes

<u>overburden</u>	<u>waste rock</u>	<u>waste rock</u>	<u>total Pit</u>
- 26, 68	25, 38	97, 22	- 26, 68
151, 70	83, 40	145, 42	151, 70
199, 62	136, 49	145, 50	199, 62
220, 62	101, 32	161, 53	220, 62
195, 46	52, 15	195, 46	145, 16
161, 53	52, 9	145, 16	102, 7
83, 40	25, 38	145, 20	52, 9
25, 38		97, 22	25, 38
- 26, 68			- 26, 68

VANGORDA DEPOSIT main layer high grade calculation Nov. 1984

SECTION 6 EAST

DDH	from	to	length	(M) S.G.	(N) Pb	(O) Zn	(P) Cu	(Q) Ag	(R) Au	(S) BaO	(T) Pb + Zn
U-94-R	25.1	26.3	1.2	4.08	6.84	6.03	.08	93.5	.55	10.94	12.87
	26.3	26.5	.2	2.75	0	0	0	0	0	0	0.00
	26.5	28.0	1.5	4.47	5.94	6.12	.09	80.5	.41	15.87	12.06
	28.0	29.0	1.0	4.66	8.54	8.56	.07	105	.27	20.37	17.10
	29.0	30.4	1.4	4.81	1.27	4.82	.02	22	.21	.19	6.09
	30.4	30.9	.5	4.52	4.68	7.58	.03	71	.27	21.21	12.26
	30.9	31.7	.8	3.31	2.38	3.29	.11	38.5	0	12.96	5.67
	31.7	32.2	.5	4.04	8.45	15.5	.07	131	.34	7.27	23.95
	32.2	32.9	.7	3.03	.51	.57	.03	5.5	0	10.81	1.08
	32.9	34.2	1.3	3.86	9.55	6.97	.11	130.5	.34	1.75	16.52
6-E-4 =	25.1	34.2	9.1	4.13	5.35	6.08	.07	74.07	.28	10.11	11.43
	50	50.7	.7	4.47	5.35	9.19	.16	95	.34	12.05	14.54
	50.7	51.2	.5	2.75	0	0	0	0	0	0	0.00
	51.2	52.7	1.5	4.52	8.15	5.84	.05	111.5	.55	17.53	13.99
	52.7	54.3	1.6	4.31	5.26	8.55	.04	89	.41	28.77	13.81
	54.3	56	1.7	4.33	2.4	5.76	.03	39	0	32.07	8.16
	56	57.3	1.3	3.65	4.61	7.45	.11	55	.21	4.33	12.06
6-E-1 =	50	57.3	7.3	4.15	4.72	6.62	.06	70.40	.27	19.30	11.34
U-47-R	38.1	39.6	1.5	3.02	4.62	5.4	.06	64	.75	.45	10.02
	39.6	40.5	.9	3.22	4.38	6.14	.07	68	.58	2.3	10.52
	40.5	42.1	1.6	4.25	5.04	6.77	.13	82.5	.96	12.53	11.81
	42.1	43.6	1.5	4.38	3.98	4.04	.16	52	1.47	5.01	8.02
	43.6	45.1	1.5	4.56	3.16	5.21	.12	51.5	.99	14.74	8.37
	45.1	45.7	.6	4.42	9.93	8.18	.05	126	.58	8.37	18.11
6-E-5 =	38.1	45.7	7.6	3.99	4.68	5.69	.11	68.43	.95	7.56	10.37
	48.2	49	.8	4.85	5.16	6.61	.09	90	.72	24.09	11.77
	49	50	1.0	3.45	3.3	3.93	.03	55	.34	9.67	7.23
	50	52	2.0	4.52	2.96	3.78	.04	50.5	.86	7	6.74
	52	53.2	1.2	4.75	3.66	7.22	.04	59.5	.24	26.98	10.88
	53.2	54.4	1.2	4.51	2.88	6.44	.02	53.5	.24	30.52	9.32
	54.4	55.9	1.5	3.94	5.06	7.34	.07	72	.58	11.08	12.40
	55.9	57.5	1.6	4.98	1.43	2.8	.04	31.5	.45	4.39	4.23
	57.5	58.8	1.3	4.83	2.22	4.17	.02	42.5	.21	23.16	6.39
	58.8	60.4	1.6	4.5	5.72	7.42	.06	86	.27	24.02	13.14
	60.4	62.1	1.7	4.2	4.22	6.93	.06	67	.34	24.87	11.15
6-E-2 =	48.2	62.1	13.9	4.46	3.62	5.59	.05	59.62	.44	17.73	9.21
U-95-R	48.1	49.8	1.7	4.11	4.9	7.24	.02	68	.17	29.11	12.14
	49.8	51.1	1.3	3.02	.83	1.66	.01	10.5	0	12.95	2.49
	51.1	52.3	1.2	3.87	3.23	6.07	.02	39	.07	29.28	9.30

	52.3	53	.7	4.25	8.62	8.52	.02	110	.34	17.84	17.14
	53	54.2	1.2	4.39	13.75	12.4	.04	160.5	.48	2.81	26.15
	54.2	55.5	1.3	4.37	2.75	6.25	.03	35.5	.1	38.9	9.00
	55.5	56.3	.8	4.77	22.3	8.87	.03	244	1.65	2.2	31.17
	56.3	57.8	1.5	4.42	6.88	8.83	.03	96.5	.68	21.19	15.71
	57.8	59.4	1.6	4.44	6.88	7.23	.06	94.5	.82	22.77	14.11
	59.4	60.7	1.3	3.84	3.95	5.93	.13	51	.34	12.28	9.88
6-E-3 =	48.1	60.7	12.6	4.13	6.64	7.17	.04	83.27	.43	20.15	13.81
	73.4	75	1.6	4.61	4.68	5.82	.29	74.00	1.10	19.87	10.50
	75	76.5	1.5	4.66	3.67	4.95	.19	65.50	1.20	11.84	8.62
	76.5	78	1.5	4.61	7.90	8.09	.15	103.00	1.65	5.66	15.99
	78	79.6	1.6	4.49	5.94	9.54	.15	86.00	0.00	28.83	15.48
	79.6	81.1	1.5	4.34	4.50	6.66	.13	62.00	.07	27.21	11.16
	73.4	81.1	7.7	4.54	5.34	7.03	.18	78.15	.80	18.83	12.37

File: VANG.6E

block	from	to	length	S.G.	Pb	Zn	Cu	Ag	Au	BaO	Pb + Zn	DDH	AREA	VOLUME	TONNAGE
SECTION 6 EAST															
6-E-4	25.1	34.2	9.1	4.13	5.35	6.08	.07	74.1	.28	10.11	11.43	V-94-R	252	15246	56713
6-E-1	50	57.3	7.3	4.15	4.72	6.62	.06	70.4	.27	19.30	11.34	V-94-R	221	13386	49980
6-E-5	38.1	45.7	7.6	3.99	4.68	5.69	.11	68.4	.95	7.56	10.37	V-47-R	285	17258	61903
6-E-2	48.2	62.1	13.9	4.46	3.62	5.59	.05	59.6	.44	17.73	9.21	V-47-R	331	20030	80381
6-E-3	48.1	60.7	12.6	4.13	6.64	7.17	.04	83.3	.43	20.15	13.81	V-95-R	357	21614	80315
averages/totals				4.18	5.02	6.24	.06	71.2	.48	15.33	11.26		1447	87533	329292

8E

1
RUN POLYGONAREA
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 6

COORDINATES OF VERTEX 1 (A,B) :-40,62
VERTEX 2 (A,B) :180,65
VERTEX 3 (A,B) :144,41
VERTEX 4 (A,B) :90,33
VERTEX 5 (A,B) :25,24
VERTEX 6 (A,B) :-40,62

AREA = 5416.5 *overburden*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 5

COORDINATES OF VERTEX 1 (A,B) :25,24
VERTEX 2 (A,B) :90,33
VERTEX 3 (A,B) :43,15
VERTEX 4 (A,B) :43,5
VERTEX 5 (A,B) :25,24

AREA = 463.5 *waste rock*
PRESS <RETURN> KEY TO RESTART PROGRAM

AREA OF A POLYGON
NUMBER OF VERTICES (0 TO END PROGRAM) : 5
COORDINATES OF VERTEX 1 (A,B) :90,33
VERTEX 2 (A,B) :144,41
??125,29
?EXTRA IGNORED
VERTEX 3 (A,B) :125,36
VERTEX 4 (A,B) :90,33
VERTEX 5 (A,B) :10
??
?REENTER
(A,B) :
?REENTER
(A,B) :999
??999,999
?EXTRA IGNORED
AREA = 1528.38501
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 5

COORDINATES OF VERTEX 1 (A,B) :90,33
VERTEX 2 (A,B) :144,41
VERTEX 3 (A,B) :125,29
VERTEX 4 (A,B) :125,36
VERTEX 5 (A,B) :90,33

AREA = 125.5 *waste rock*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

overburden 5416.5
waste rock 463.5
125.5
ore 1025.5
1031
total pit 7031

*area in column sheet = 788 → 4% different
using 100% porosity = 997.5*

Overburden $5416.5 * 60.5 = 327698 \text{ m}^3 = 428611 \text{ yd}^3$

Waste rock $589 * 60.5 = 35635 \text{ m}^3 = 46608 \text{ yd}^3$
@ 2.75 = 97996 tonnes

ore $990 * 60.5 = 59895 \text{ m}^3 = 78339 \text{ yd}^3$
@ 3.79 = 227,002 tonnes

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

COORDINATES OF VERTEX 1 (A,B) :43,15
VERTEX 2 (A,B) :90,33
VERTEX 3 (A,B) :125,36
VERTEX 4 (A,B) :125,29
VERTEX 5 (A,B) :91,17
VERTEX 6 (A,B) :43,5
VERTEX 7 (A,B) :43,15

AREA = 1025.5 *OR*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

COORDINATES OF VERTEX 1 (A,B) :-40,62
VERTEX 2 (A,B) :180,65
VERTEX 3 (A,B) :125,29
VERTEX 4 (A,B) :91,17
VERTEX 5 (A,B) :43,5
VERTEX 6 (A,B) :25,24
VERTEX 7 (A,B) :-40,62

AREA = 7019 *Total pit*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 8

COORDINATES OF VERTEX 1 (A,B) :180,65
VERTEX 2 (A,B) :144,41
VERTEX 3 (A,B) :125,29
VERTEX 4 (A,B) :91,17
VERTEX 5 (A,B) :43,5
VERTEX 6 (A,B) :25,24
VERTEX 7 (A,B) :-40,62
VERTEX 8 (A,B) :180,65

AREA = 7031 *total A1*
PRESS <RETURN> KEY TO RESTART PROGRAM

AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 8

COORDINATES OF VERTEX 1 (A,B) :91,17
VERTEX 2 (A,B) :43,5
VERTEX 3 (A,B) :25,24
VERTEX 4 (A,B) :-40,62
VERTEX 5 (A,B) :180,65
VERTEX 6 (A,B) :144,41
VERTEX 7 (A,B) :125,29
VERTEX 8 (A,B) :91,17

AREA = 7031 *total pit different sequence of vertices*
PRESS <RETURN> KEY TO RESTART PROGRAM

AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 5

COORDINATES OF VERTEX 1 (A,B) :125,36
VERTEX 2 (A,B) :125,29
VERTEX 3 (A,B) :106,22
VERTEX 4 (A,B) :106,34
VERTEX 5 (A,B) :125,36

AREA = 180.5 *8E1 ore block*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

~~COORDINATES OF VERTEX 1 (A,B) :106,22
VERTEX 2 (A,B) :106,34
VERTEX 3 (A,B) :90,33
VERTEX 4 (A,B) :74,26
VERTEX 5 (A,B) :74,13~~

~~??91,17
EXTRA IGNORED
VERTEX 6 (A,B) :106,22
VERTEX 7 (A,B) :9877,5567789~~

AREA = 796.5
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

COORDINATES OF VERTEX 1 (A,B) :106,22
VERTEX 2 (A,B) :106,34
VERTEX 3 (A,B) :90,33
VERTEX 4 (A,B) :74,26
VERTEX 5 (A,B) :74,13
VERTEX 6 (A,B) :91,17
VERTEX 7 (A,B) :106,22

AREA = 460.5 *8E2 ore block*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 5

COORDINATES OF VERTEX 1 (A,B) :43,15
VERTEX 2 (A,B) :43,5
VERTEX 3 (A,B) :74,13
VERTEX 4 (A,B) :74,26
VERTEX 5 (A,B) :43,15

AREA = 356.5 *8E3 ore block*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) :

COORDINATES OF VERTEX 1 (A,B) :43,15
VERTEX 2 (A,B) :74,26
VERTEX 3 (A,B) :90,33

VERTEX 4 (A,B) :106,34
VERTEX 5 (A,B) :125,36
VERTEX 6 (A,B) :125,29
VERTEX 7 (A,B) :106,22
VERTEX 8 (A,B) :91,17
VERTEX 9 (A,B) :74,13
VERTEX 10 (A,B) :43,5
VERTEX 11 (A,B) :43,15

AREA = 997.5 *total use all points*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

COORDINATES OF VERTEX 1 (A,B) :43,15
VERTEX 2 (A,B) :90,33
VERTEX 3 (A,B) :125,36
VERTEX 4 (A,B) :125,29
VERTEX 5 (A,B) :91,17
VERTEX 6 (A,B) :43,5
VERTEX 7 (A,B) :43,15

AREA = 1025.5 *total use same points as earlier calcul.*
PRESS <RETURN> KEY TO RESTART PROGRAM
ie 7 vs 11

8E1	8E2	8E3	total u.v	total u.v recheck
125,36	106,22	43,15	43,15	43,15
125,29	106,34	43,5	71,26	90,33
106,22	90,33	74,13	90,33	125,36
106,34	74,26	74,26	106,34	125,29
125,36	74,13	43,15	125,36	91,17
	91,17		125,29	43,5
	106,22		106,22	43,15
			91,17	
			74,13	
			43,5	
			43,15	

SE

Overburden	Waste rock	Waste rock	ore	Total Pit	Total Pit
-40,62	25,24	90,33	43,15	-40,62	
180,65	90,33	144,41	90,33	180,65	91,17
144,41	43,15	125,29	125,36	125,29	43,5
90,33	43,5	125,36	125,29	91,17	25,24
25,24	25,24	90,33	91,17	43,5	-40,62
-40,62	5 vertices	5 vertices	43,5	25,24	180,65
6 vertices			7 vertices	-40,62	144,41
				7 vertices	125,29
<u>or</u>				or	91,17

-40,62
 180,65
 144,41
 25,24
 -40,62
 5 Vertices

-40,62
 180,65
 144,41
 125,29
 91,17
 43,5
 25,24
 -40,62
 6 vertices

VANGORDA DEPOSIT- main layer high grade calculation Nov. 1984

SECTION 8 EAST

DDH	from	to	length	(M) S.G.	(N) Pb	(O) Zn	(P) Cu	(Q) Ag	(R) Au	(S) BaO	(T) Pb + Zn
V-303	28.8	29.9	1.1	3.03	2.1	3.27	.09	30.5	.21	7.37	5.37
	29.9	31.0	1.1	3.33	3.73	5.38	.07	68.5	.37	11.61	9.11
	31.0	32.1	1.1	3.84	7.62	12.6	.06	101.0	.12	2.67	20.22
	32.1	32.8	.7	2.96	1.09	.92	.01	12.0	.15	3.63	2.01
	32.8	34.1	1.3	3.62	5.93	7.79	.12	75.5	.21	12.22	13.72
	34.1	35.4	1.3	2.72	1.34	2.1	.04	15.0	.24	1.66	3.44
	35.4	36.8	1.4	3.49	3.63	6.53	.3	70.0	.61	10.5	10.16
8-E-1 =	28.8	36.8	8.0	3.30	3.76	5.75	.11	55.5	.29	7.39	9.51
	44.3	45.5	1.2	4.05	2.75	4.25	.06	45.0	.68	12.73	7.00
	45.5	46.7	1.2	4.34	8.60	9.01	.06	110.5	.87	14.59	17.61
	46.7	48.4	1.7	3.99	8.82	12.79	.06	94.5	.78	3.69	21.61
	44.3	48.4	4.1	4.11	6.98	9.18	.06	84.7	.78	9.53	16.16
V-45-R	31.7	33.2	1.5	4.63	5.79	8.80	.07	88.5	.75	30.68	14.59
	33.2	34.7	1.5	4.42	3.70	6.89	.09	60.5	.68	22.49	10.59
	34.7	36.3	1.6	4.34	3.59	8.24	.02	56.0	.25	35.21	11.83
	36.3	37.8	1.5	4.44	3.65	8.88	.01	56.0	.25	36.54	12.53
	37.8	39.3	1.5	4.60	3.91	8.34	.01	59.0	.07	35.07	12.25
	39.3	40.8	1.5	4.33	2.91	7.40	.01	46.0	.11	34.40	10.31
	40.8	42.4	1.6	4.25	3.87	7.65	.05	59.0	.53	28.78	11.52
	42.4	43.9	1.5	4.53	4.61	7.43	.01	89.0	.18	33.11	12.04
	43.9	45.4	1.5	4.44	5.65	8.96	.07	67.0	.36	24.06	14.61
	45.4	46.9	1.5	4.06	5.32	7.18	.05	86.5	.36	28.62	12.50
8-E-2 =	31.7	46.9	15.2	4.40	4.29	7.98	.04	66.6	.35	30.91	12.27
V-302	41.9	43.4	1.5	4.29	8.70	7.66	.18	122.5	1.60	6.38	16.36
	43.4	44.7	1.3	4.58	4.79	5.41	.23	62.0	.79	14.90	10.20
	44.7	46.3	1.6	4.67	3.42	5.68	.20	57.5	1.59	12.19	9.10
	46.3	47.9	1.6	4.30	2.72	3.42	.37	48.0	1.17	9.75	6.14
	47.9	49.3	1.4	4.28	2.74	5.17	.09	53.5	.75	15.36	7.91
	49.3	50.7	1.4	4.40	3.99	6.26	.18	62.5	.71	18.12	10.25
	50.7	52.6	1.9	4.65	5.04	6.24	.16	67.0	1.98	16.94	11.28
8-E-3 =	41.9	52.6	10.7	4.46	4.50	5.70	.20	67.6	1.28	13.37	10.19
	62.8	64.4	1.6	4.55	5.24	4.29	.16	68.00	.85	4.92	9.53
	64.4	65.6	1.2	4.36	5.35	6.22	.14	64.50	1.91	15.46	11.57
	65.6	67.0	1.4	4.60	8.17	9.79	.17	87.50	1.95	9.38	17.96
	67.0	68.5	1.5	4.27	3.02	1.88	.22	35.50	1.26	3.13	4.90
	68.5	69.8	1.3	4.30	4.40	5.16	.06	58.50	1.53	10.58	9.56

62.8 69.8 7.0 4.42 5.21 5.37 .15 62.57 1.47 8.29 10.58

SECTION 8 EAST

block	from	to	length	S.G.	Pb	Zn	Cu	Ag	Au	BaO	Pb + Zn	DDH	AREA	VOLUME	TONNAGE
8-E-1	28.8	36.8	8.0	3.30	3.76	5.75	.11	55.5	.29	7.39	9.51	V-303	190	11503	34188
8-E-2	31.7	46.9	15.2	4.40	4.29	7.98	.04	66.6	.35	30.91	12.27	V-45-R	442	26756	106016
8-E-3	41.9	52.6	10.7	4.46	4.50	5.70	.20	67.6	1.28	13.37	10.19	V-302	356	21568	86586
averages/totals				4.21	4.29	6.77	.11	65.3	.70	20.67	11.06		988	59827	226790

IRUN POLYGONAREA
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 8

COORDINATES OF VERTEX 1 (A,B) :-12,56
VERTEX 2 (A,B) :22,59
VERTEX 3 (A,B) :144,59
VERTEX 4 (A,B) :200,60
VERTEX 5 (A,B) :132,19
VERTEX 6 (A,B) :80,25
VERTEX 7 (A,B) :38,26
VERTEX 8 (A,B) :-12,56

AREA = 5534 *overburden*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 4

COORDINATES OF VERTEX 1 (A,B) :80,25
VERTEX 2 (A,B) :132,19
VERTEX 3 (A,B) :117,10
VERTEX 4 (A,B) :80,25

AREA = 279 *waste rock*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 4

COORDINATES OF VERTEX 1 (A,B) :38,26
VERTEX 2 (A,B) :80,25
VERTEX 3 (A,B) :117,10
VERTEX 4 (A,B) :80,3

AREA = 869 *ore*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

COORDINATES OF VERTEX 1 (A,B) :-12,56
VERTEX 2 (A,B) :22,59
VERTEX 3 (A,B) :144,59
VERTEX 4 (A,B) :200,60
VERTEX 5 (A,B) :117,10
VERTEX 6 (A,B) :80,3
VERTEX 7 (A,B) :-12,56

AREA = 6625.5 *total pit*
PRESS <RETURN> KEY TO RESTART PROGRAM
AREA OF A POLYGON

NUMBER OF VERTICES (0 TO END PROGRAM) : 7

COORDINATES OF VERTEX 1 (A,B) :-12,56
VERTEX 2 (A,B) :22,59
VERTEX 3 (A,B) :144,59
VERTEX 4 (A,B) :200,60
VERTEX 5 (A,B) :117,10

overburden 5534
waste rock 279
ore 869

or 861 on grade calculation => 6614 vs 625
6682 vs 6625

*overburden = 5534 * 0.5 = 334807 m³ = 437909 yd³*

*waste rock 279 * 0.5 = 16880 m³ = 22077 yd³*
@ 2.75 = 46420 tonnes

*ore 869 * 0.5 = 52575 m³ = 68764 yd³*
@ 3.56 = 187167 tonnes

VERTEX 6 (A,B) :80,3
VERTEX 7 (A,B) :-12,56

AREA = 6625.5 *total pit report*
PRESS <RETURN> KEY TO RESTART PROGRAM

10E

Overburden

-12,56
22,59
144,59
200,60
132,19
80,25
38,26
-12,56
8 vertices

waste rock

80,25
132,19
117,10
80,25
4 vertices

ore

38,26
80,25
117,10
80,3
4 vertices

total Pit

-12,56
22,59
144,59
200,60
~~132,19~~
117,10
80,3
-12,56
7 vertices

VANGORDA DEPOSIT- main layer high grade calculation Nov. 1984

SECTION 10 EAST

DDH	from	to	length	(M) S.G.	(N) Pb	(O) Zn	(P) Cu	(Q) Ag	(R) Au	(S) BaO	(T) Pb + Zn
V-110-R	46.0	47.5	1.5	3.97	7.75	8.31	.12	61.0	.01	.19	16.06
	47.5	49.1	1.6	3.84	6.51	9.77	.11	57.0	.02	1.11	16.28
	49.1	50.8	1.7	3.74	6.94	10.58	.10	60.0	.02	1.52	17.52
10-E-1 =	46.0	50.8	4.8	3.85	7.05	9.60	.11	59.3	.02	.97	16.65
V-50-R	34.1	34.7	.6	4.26	4.09	5.84	.10	43.0	.89	21.65	9.93
	34.7	36.3	1.6	4.39	4.46	4.16	.13	37.0	1.14	1.41	8.62
	36.3	37.9	1.6	4.62	5.42	5.34	.07	55.5	.96	4.21	10.76
	37.9	40.1	2.2	3.81	5.86	8.80	.05	54.0	.39	15.56	14.66
	40.1	41.8	1.7	4.38	7.85	7.31	.07	114.5	.50	25.38	15.16
	41.8	43.3	1.5	4.26	6.54	6.77	.08	83.0	.71	23.50	13.31
	43.3	44.8	1.5	4.15	6.42	7.52	.10	103.0	.68	32.84	13.94
	44.8	46.3	1.5	4.45	6.02	8.49	.05	88.0	.50	29.59	14.51
	46.3	47.9	1.6	4.18	6.63	8.92	.05	90.0	.53	23.30	15.55
	47.9	48.7	.8	2.89	1.13	2.00	.02	12.5	.14	9.04	3.13
	48.7	50.0	1.3	4.26	5.79	8.56	.08	56.5	.14	21.10	14.35
	50.0	51.5	1.5	4.35	6.15	9.47	.07	58.0	.82	25.95	15.62
	51.5	53.0	1.5	4.33	6.96	10.24	.03	73.0	.14	23.55	17.20
	53.0	54.0	1.0	4.47	5.02	8.44	.02	44.0	.17	21.72	13.46
54.0	55.2	1.2	4.25	3.84	6.05	.15	40.5	.17	19.62	9.89	
10-E-2 =	34.1	55.2	21.1	4.23	5.75	7.44	.07	67.1	.54	19.89	13.19
	67.8	68.9	1.1	4.68	5	6.65	.06	41.5	.17	11.93	11.65
	68.9	70.7	1.8	3.73	5.94	7.59	.04	55.0	.14	4.19	13.53
	67.8	70.7	2.9	4.09	5.58	7.23	.05	49.9	.15	7.13	12.82
	73.9	75.3	1.4	4.27	6.08	9.52	.06	94.5	.62	22.14	15.60
	75.3	76.7	1.4	4.46	5.82	7.73	.1	56.0	.27	21.05	13.55
	73.9	76.7	2.8	4.37	5.95	8.62	.08	75.2	.44	21.59	14.57
V-114-R	32.9	33.5	.6	4.49	4.61	7.99	.06	64.5	.07	37.94	12.60
	33.5	36.9	3.4	2.79	4.79	3.34	.09	35.0	.07	25.94	8.13
10-E-3 =	32.9	36.9	4.0	3.05	4.76	4.04	.09	39.4	.07	27.74	8.80
	70.9	71.8	.9	4.18	5.78	7.67	.02	67.0	.62	21.19	13.45
	74.7	76.0	1.3	4.29	4.67	5.86	.22	47.0	.55	12.86	10.53
	92.4	93.6	1.2	4.61	5.66	8.1	.11	98.0	.62	19.73	13.76
	93.6	94.9	1.3	4.45	5.75	8.09	.16	80.5	.55	18.67	13.84
	92.4	94.9	2.5	4.53	5.71	8.09	.14	88.9	.58	19.18	13.80

SECTION 10 EAST

block	from	to	length	S.G.	Pb	Zn	Cu	Ag	Au	BaO	Pb + Zn	DDH	AREA	VOLUME	TONNAGE
10-E-1	46.0	50.8	4.8	3.85	7.05	9.60	.11	59.3	.02	.97	16.65	V-110-R	153	9241	31982
10-E-2	34.1	55.2	21.1	4.23	5.75	7.44	.07	67.1	.54	19.89	13.19	V-50-R	552	33396	127089
10-E-3	32.9	36.9	4.0	3.05	4.76	4.04	.09	39.4	.07	27.74	8.80	V-114-R	156	9438	25865
averages/totals				3.95	5.84	7.34	.08	61.8	.38	17.72	13.17		861	52075	184935

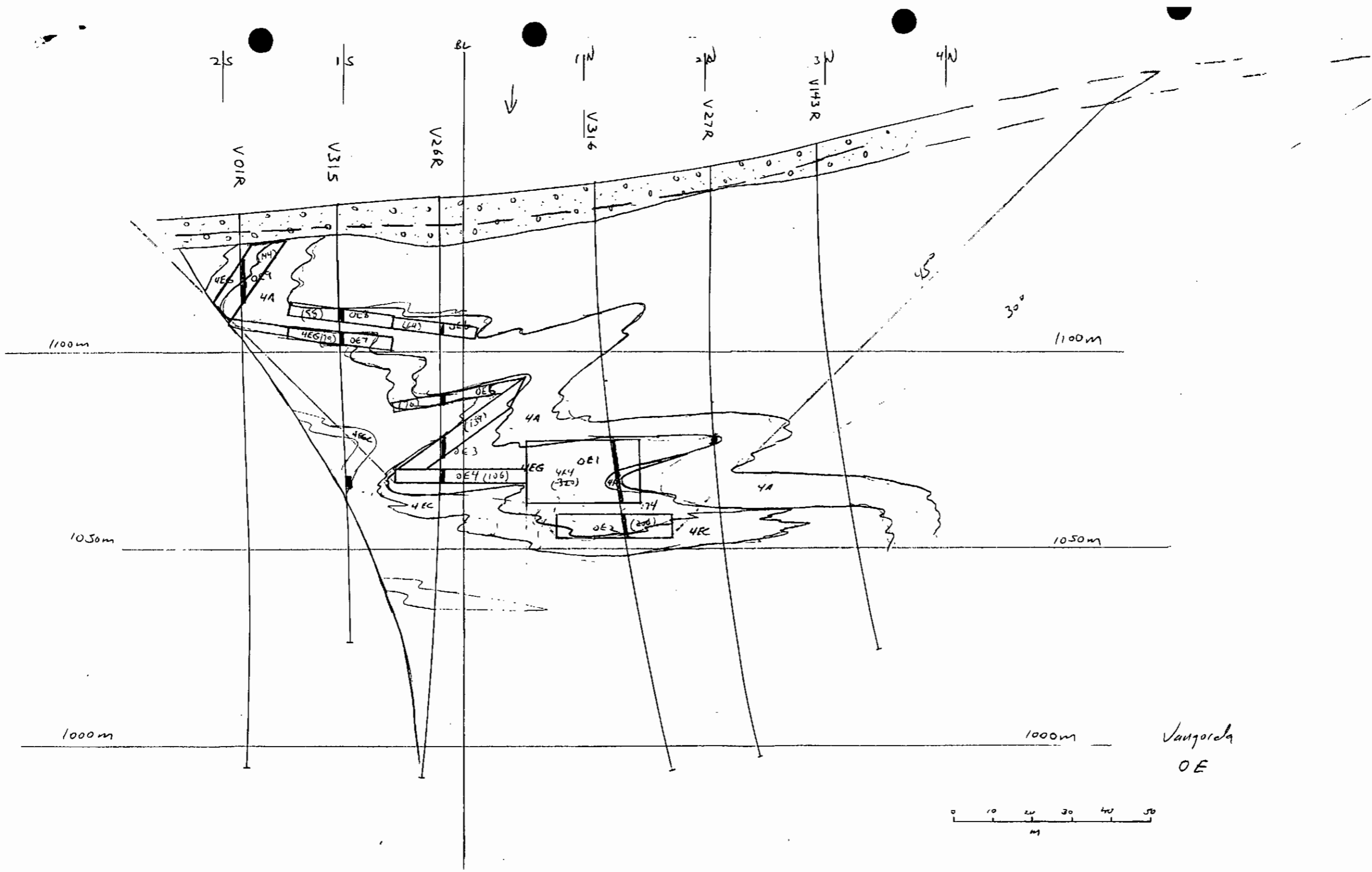
SECTION 0E

D.D.H.	from	to	length	S.G.	Pb	Zn	Cu	Ag	Au	BaO	Pb+Zn
V-27-R	68.5	70	1.5	4.44	7.35	8.71	.02	119.0	.62	25.13	16.06
	70	70.2	.2	3.04	1.53	1.52	.05	23.0	.10	6.78	3.05
	70.2	70.8	.6	4.06	8.44	9.03	.05	138.5	.51	9.16	17.47
	68.5	70.8	2.3	4.22	7.13	8.17	.03	115.7	.55	19.37	15.30
V-316	65.5	66.3	.8	3.21	4.39	5.79	.04	65.5	.15	4.14	10.18
	66.3	67.4	1.1	4.27	4.79	8.39	.04	88.0	.34	19.79	13.18
	67.4	68.9	1.5	4.06	6.63	7.39	.03	94.0	.46	19.32	14.02
	68.9	70.6	1.7	4.35	8.29	7.73	.04	118.0	.46	13.44	16.02
	70.6	71.8	1.2	4.15	12.95	5.94	.06	149.5	.40	.44	18.89
	71.8	73	1.2	4.00	13.11	3.98	.05	143.0	1.04	1.61	17.09
	73	73.8	.8	4.02	4.04	8.35	.05	78.5	.26	19.38	12.39
	73.8	74.8	1	4.29	19.12	8.14	.06	216.5	.22	.82	27.26
	74.8	75.7	.9	3.29	2.12	2.06	.07	22.5	.15	7.55	4.18
	75.7	77.4	1.7	4.07	8.23	6.74	.14	96.5	.22	1.86	14.97
	77.4	79.6	2.2	4.09	4.27	3.39	.24	52.0	.22	.30	7.66
	79.6	81.1	1.5	4.13	5.26	6.30	.04	86.5	.41	11.00	11.56
0-E-1	65.5	81.1	15.6	4.05	7.67	6.09	.08	99.3	.37	7.87	13.76
	84.6	86.3	1.7	4.02	4.59	6.05	.1	65	1.22	11.81	10.64
	86.3	87.8	1.5	3.47	2.74	4.6	.04	42	.33	15.78	7.34
	87.8	89.3	1.5	4.3	5.44	7.73	.06	68.5	.7	15.76	13.17
	89.3	90.6	1.3	4.28	3.5	7.35	.03	64	.37	30.51	10.85
0-E-2	84.6	90.6	6	4.01	4.10	6.39	.06	59.91	.68	17.84	10.49
V-26-R	32.1	33.5	1.4	3.08	3.19	8.19	.04	52.5	.65	.14	11.38
	33.5	34.9	1.4	3.34	4.98	9.82	.09	93	1.27	.11	14.80
0-E-6	32.1	34.9	2.8	3.21	4.08	9.00	.07	72.75	.96	.12	13.09
	50.3	51.4	1.1	4.63	5.48	8.45	.27	84	2.13	16.68	13.93
	51.4	52.6	1.2	4.59	5.61	9.05	.26	89	.89	14.9	14.66
0-E-5	50.3	52.6	2.3	4.61	5.55	8.76	.26	86.61	1.48	15.75	14.31
	61.2	62.8	1.6	4.5	4.24	4.98	.14	61.5	.78	14.86	9.22
	62.8	64.3	1.5	4.44	5.05	5.94	.15	66.5	1.57	9.44	10.99
	64.3	65.6	1.3	4.06	5.21	5.67	.22	49	.82	11.87	10.88
	65.6	66.2	.6	3.83	3.71	5.53	.13	58.5	.46	20.64	9.24
0-E-3	61.2	66.2	5	4.29	4.67	5.51	.16	59.39	.99	13.15	10.18
	69.4	70.9	1.5	4.38	3.61	6.18	.14	55.5	.78	22.61	9.79
	70.9	72.4	1.5	4.54	6.82	5.14	.08	84	1.1	23.32	11.96
0-E-4	69.4	72.4	3	4.46	5.21	5.66	.11	69.75	.94	22.96	10.88

V-315	26.3	28.1	1.8	3.01	5.7	9.25	.06	88.5	1.27	.12	14.95
	28.1	29.9	1.8	3.18	3.2	5.13	.12	51.5	.93	.3	8.33
0-E-8	26.3	29.9	3.6	3.09	4.45	7.19	.09	70.00	1.10	.21	11.64
	32.9	34.4	1.5	4.63	5.5	7.29	.2	116.5	.93	12.33	12.79
0-E-7	34.4	35.9	1.5	4.58	5.79	8.11	.2	102.5	2.02	9.97	13.90
	32.9	35.9	3	4.61	5.65	7.70	.20	109.50	1.48	11.15	13.34
0-E-7	69.4	70.7	1.3	4.51	5.31	5.6	.14	69.5	.79	10.06	10.91
	70.7	72.2	1.5	4.58	5.64	5.85	.16	62	.51	13.94	11.49
0-E-7	69.4	72.2	2.8	4.55	5.49	5.73	.15	65.48	.64	12.14	11.22
	11.6	13.1	1.5	4.34	6.7	13.11	.57	111.5	1.77	18.06	19.81
V-01-R	13.1	14.6	1.5	4.47	5.14	11.6	.2	105.5	1.27	26.88	16.74
	14.6	16.2	1.6	5.04	9.54	19.2	.5	154	1.81	4.51	28.74
	16.2	17.5	1.3	4.29	.67	.81	.04	96	.45	6.1	1.48
	17.5	20.4	2.9	3.79	9.4	19.03	.53	16	2.3	.39	28.43
	20.4	22.3	1.9	3.79	6.41	12.08	.23	101.5	1.3	7.63	18.49
0-E-9	11.6	22.3	10.7	4.21	6.85	13.74	.37	87.47	1.61	9.18	20.59

SECTION 0 EAST

block	from	to	length	S.G.	Pb	Zn	Cu	Ag	Au	BaO	Pb+Zn	DDH	AREA	VOLUME	TONNAGE
0-E-1	65.5	81.1	15.6	4.05	7.67	6.09	.08	99.3	.37	7.87	13.76	V-316	320 ⁴⁶⁴	19341	70417
0-E-2	84.6	90.6	6	4.01	4.10	6.39	.06	59.91	.68	17.84	10.49	V-316	206 ¹⁷⁴	12451	44922
0-E-6	32.1	34.9	2.8	3.21	4.08	9.00	.07	72.75	.96	.12	13.09	V-26-R	64	3866	11169
0-E-5	50.3	52.6	2.3	4.61	5.55	8.76	.26	86.61	1.48	15.75	14.31	V-26-R	76	4613	19136
0-E-3	61.2	66.2	5	4.29	4.67	5.51	.16	59.39	.99	13.15	10.18	V-26-R	139	8410	32448
0-E-4	69.4	72.4	3	4.46	5.21	5.66	.11	69.75	.94	22.96	10.88	V-26-R	106	6413	25742
0-E-8	26.3	29.9	3.6	3.09	4.45	7.19	.09	70.00	1.10	.21	11.64	V-315	88	5351	14904
0-E-7	32.9	35.9	3	4.61	5.65	7.70	.20	109.50	1.48	11.15	13.34	V-315	79	4792	19859
0-E-9	11.6	22.3	10.7	4.21	6.85	13.74	.37	87.47	1.61	9.18	20.59	V-01-R	144	8715	33022
				4.08	5.77	7.45	.15	80.94	.92	11.80	13.21			73950	271619



Vangorda
OE

