CURRAGH RESOURCES INC.
VANGORDA TILL COVER
VINTILA'S NEW DEC 1988 PIT - VOLUME ESTIMATE

018757

HALF SECTION LENGTH: 60.96 METRES

X-SECTION NUMBER	AREA M2	TILL M3	AREA M2	ROCK M3	TOTAL M3
12	0		0		
		0		0	0
14	0		0		
		27,981		68,336	96,317
16	459		1121		
		27,981		68,336	96,317
18	0		0		
		21,214		32,004	53,218
20	348		525		
		21,214		32,004	53,218
22	0		0		
		36,454		10,973	47,427
24	598		180		
		36,454		10,973	47,427
26	0		0		
		0		0	0
28	0		0		
		171,298		222,626	393,924
		OR		OR	OR
		266,463 TONNES		445,252	711,715 TONNES

INSITU (BANK) ROCK DENSITY =	2.7	TONNES/M3
INSITU (BANK) TILL DENSITY =	2.1	TONNES/M3
SWELL FACTOR =	35	%
BROKEN ROCK DENSITY =	2.00	TONNES/M3
LOOSE TILL DENSITY =	1.56	TONNES/M3

JACK'S WAY:

"BROKEN ROCK DENSITY ="	1.755	TONNES/M3
"LOOSE TILL DENSITY ="	1.365	TONNES/M3

CURRAGH RESOURCES INC.
VANGORDA TILL COVER
VINTILA'S NEW DEC 1988 PIT - VOLUME ESTIMATE

HALF SECTION LENGTH: 30.48 METRES

X-SECTION NUMBER	AREA M2	TILL M3	AREA M2	ROCK M3	TOTAL M3
12	0		0		
		0		0	0
14	0		0		
		13,990		34,168	48,158
16	459		1121		
		13,990		34,168	48,158
18	0		0		
		10,607		16,002	26,609
20	348		525		
		10,607		16,002	26,609
22	0		0		
		18,227		5,486	23,713
24	598		180		
		18,227		5,486	23,713
26	0		0		
		0		0	0
28	0		0		
		85,649		111,313	196,962
		OR		OR	OR
		133,231 TONNES		222,626	355,857 TONNES

INSITU (BANK) ROCK DENSITY =	2.7	TONNES/M3
INSITU (BANK) TILL DENSITY =	2.1	TONNES/M3
SWELL FACTOR =	35	%
BROKEN ROCK DENSITY =	2.00	TONNES/M3
LOOSE TILL DENSITY =	1.56	TONNES/M3

JACK'S WAY:

BROKEN ROCK DENSITY ="	1.755	TONNES/M3
"LOOSE TILL DENSITY ="	1.365	TONNES/M3

CURRAGH RESOURCES INC.
VANGORDA TILL COVER
VINTILA'S NEW DEC 1988 PIT - VOLUME ESTIMATE

HALF SECTION LENGTH: 30.48 METRES

X-SECTION NUMBER	AREA M2	TILL M3	AREA M2	ROCK M3	TOTAL M3
12	0		0		
		20,696		40,904	61,600
14	679		1342		
		34,686		75,072	109,758
16	459		1121		
		28,621		59,223	87,843
18	480		822		
		25,237		41,057	66,294
20	348		525		
		23,713		24,171	47,884
22	430		268		
		31,333		13,655	44,988
24	598		180		
		28,316		5,486	33,802
26	331		0		
		10,089		0	10,089
28	0		0		
		202,692		259,568	462,260
		OR		OR	OR
		315,299 TONNES		519,135	834,434 TONNES

INSITU (BANK) ROCK DENSITY = 2.7 TONNES/M3
INSITU (BANK) TILL DENSITY = 2.1 TONNES/M3
SWELL FACTOR = 35 %
BROKEN ROCK DENSITY = 2.00 TONNES/M3
LOOSE TILL DENSITY = 1.56 TONNES/M3

JACK'S WAY:
"BROKEN ROCK DENSITY =" 1.755 TONNES/M3
"LOOSE TILL DENSITY =" 1.365 TONNES/M3

Bank den / (1 + (swell fact/100))

Bank Den * (1 - (swell factor/100))

if swell factor = 100% vol after breaking is 2x vol before

if swell factor = 100 Den = ½ of bank

if swell factor = 100 Den = 0

CURRAGH RESOURCES INC.
VANGORDA TILL COVER
VINTILA'S NEW DEC 1988 PIT - VOLUME ESTIMATE

HALF SECTION LENGTH: 50 METRES This how JB did Volumes

X-SECTION NUMBER	AREA M2	TILL M3	AREA M2	ROCK M3	TOTAL M3
12	0		0		
		33,950		67,100	101,050
14	679		1342		
		56,900		123,150	180,050
16	459		1121		
		46,950		97,150	144,100
18	480		822		
		41,400		67,350	108,750
20	348		525		
		38,900		39,650	78,550
22	430		268		
		51,400		22,400	73,800
24	598		180		
		46,450		9,000	55,450
26	331		0		
		16,550		0	16,550
28	0		0		
		332,500		425,800	758,300
		OR		OR	OR
		541,852 TONNES		851,600 ~~1,393,452~~	TONNES

INSITU ROCK DENSITY = 2.7 TONNES/M3
INSITU TILL DENSITY = 2.2 TONNES/M3
SWELL FACTOR = 35 %
BROKEN ROCK DENSITY = 2.00
BROKEN TILL DENSITY = 1.63

Spillway

081-VR-32
6V-55-R
& V 55 RH (Rotary Hole).

081-VR-28

081-VR-30

Scale 1:2000

4EC Quartz Rich Massive to semi Massive Sulphides

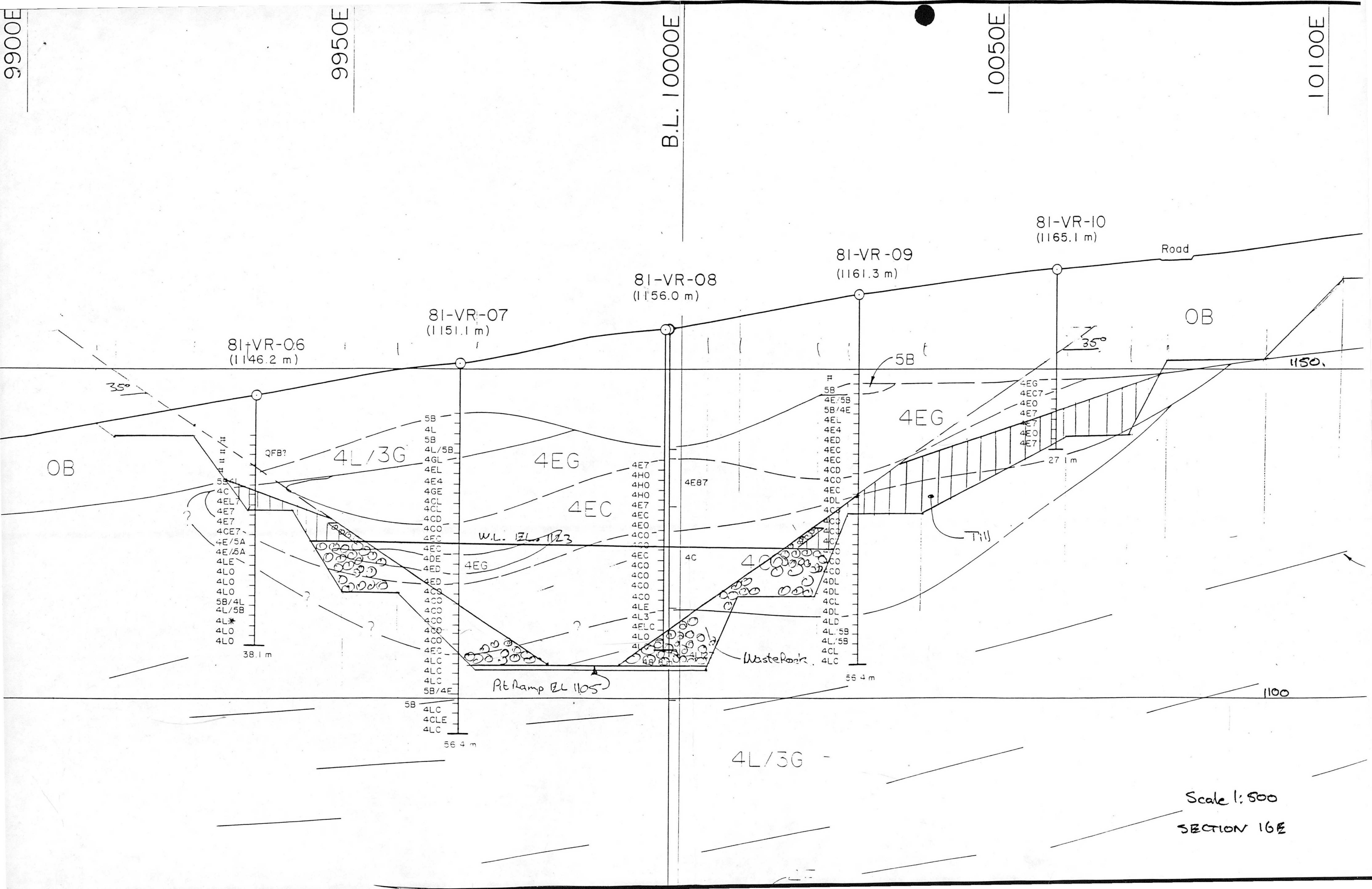
4EG Variably Baritic Massive Pyritic sulphides

4ACE Ribbon Banded Graphitic pyritic Quartz with massive sulphides.

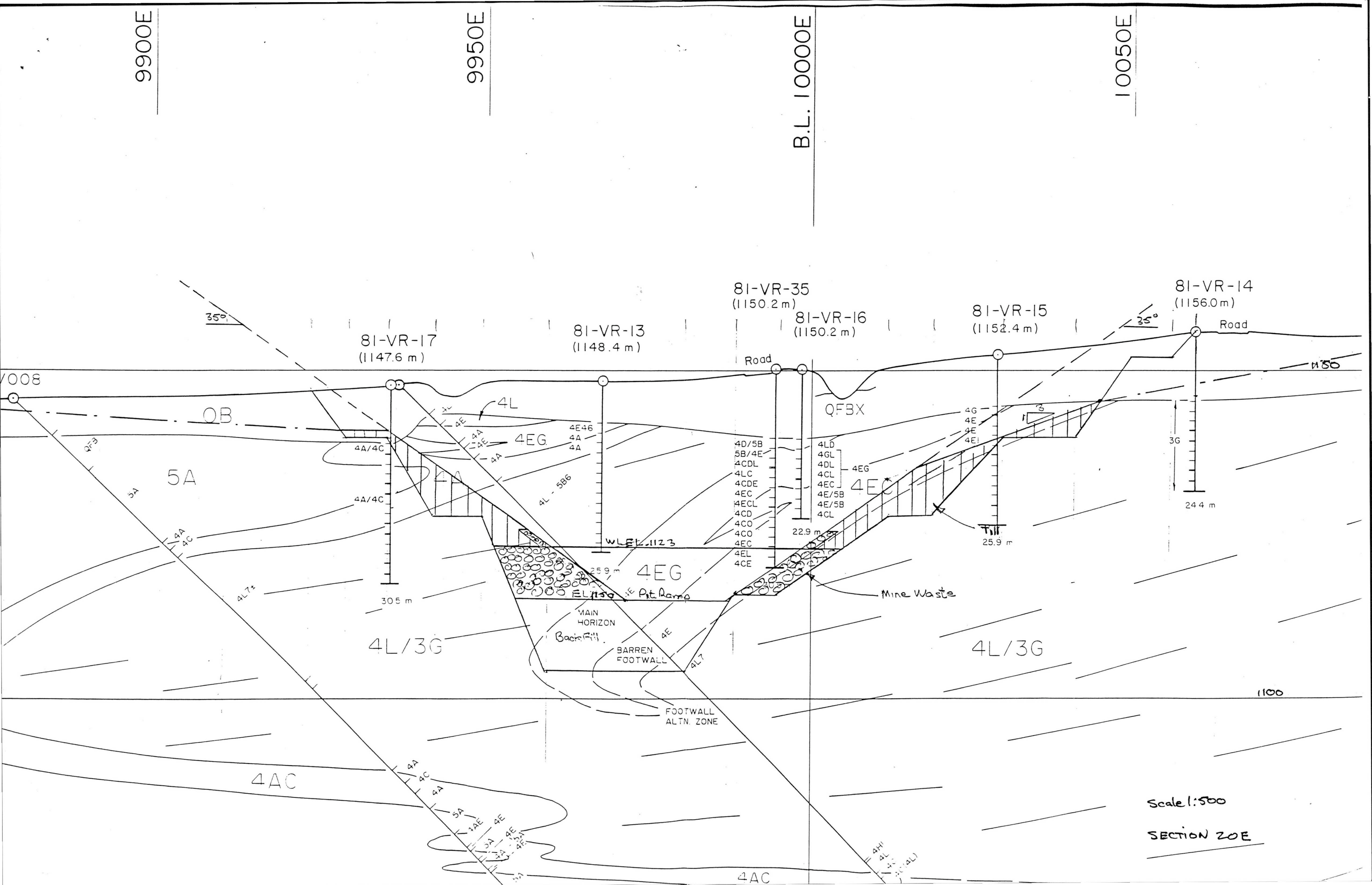
Outline of Till / Rock Cover

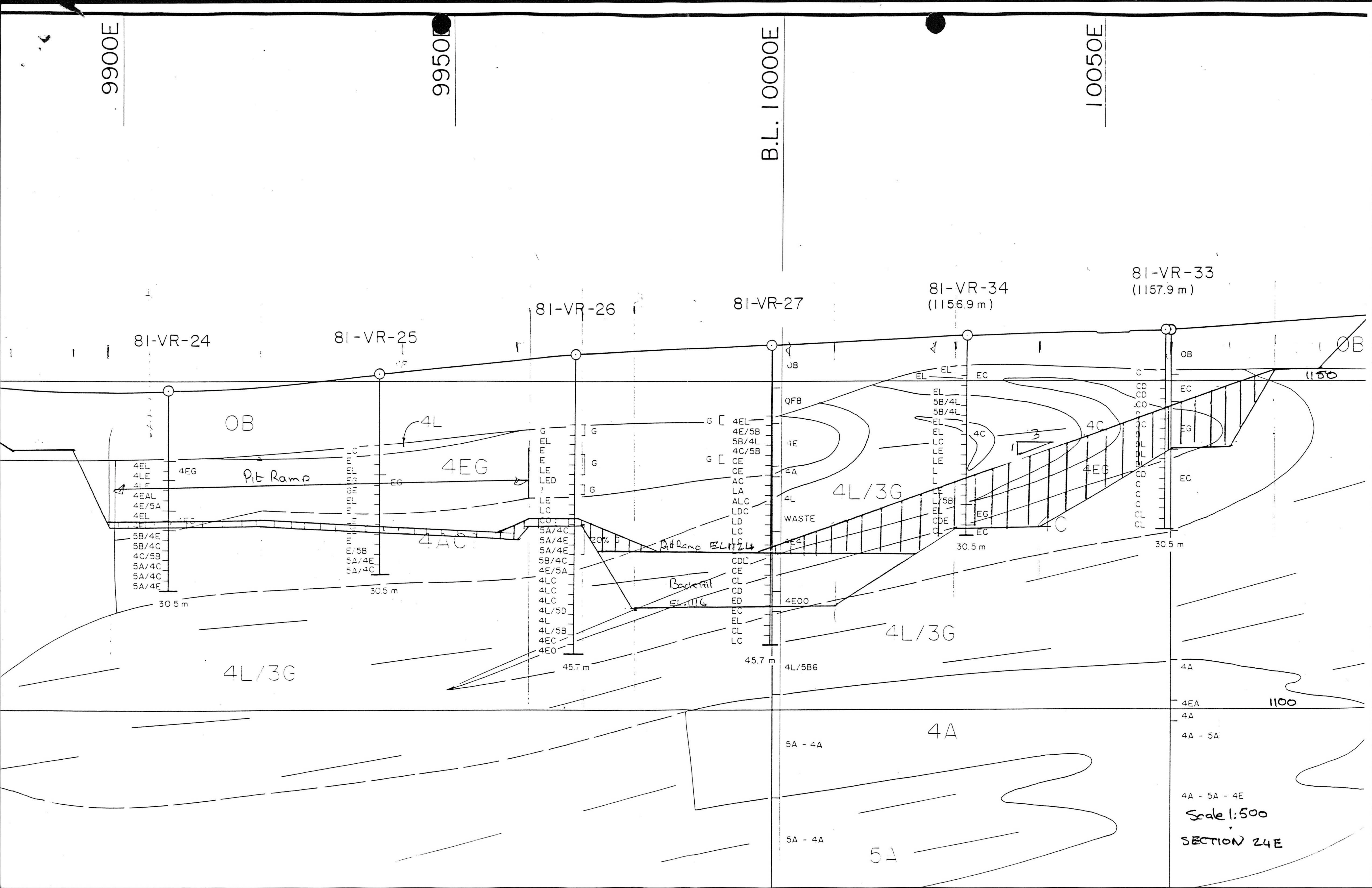
Water level EL. 1123

VANGOROA
PIT WALL COVERS
SITE PLAN



9900E
9950E
B.L. 10000E
10050E
10100E
81-VR-06
(1146.2 m)
81-VR-07
(1151.1 m)
81-VR-08
(1156.0 m)
81-VR-09
(1161.3 m)
81-VR-10
(1165.1 m)
Road
OB
OB
4L/3G
4EG
4EC
4EG
4C
4L/3G
5B
35°
35°
QFB?
1150
1100
W.L. EL. 1123
Pit Ramp EL 1105
Wasterock
Till
38.1 m
56.4 m
56.4 m
27.1 m
Scale 1:500
SECTION 16E


9900E
9950E
B.L. 10000E
10050E
81-VR-17
(1147.6 m)
81-VR-13
(1148.4 m)
81-VR-35
(1150.2 m)
81-VR-16
(1150.2 m)
81-VR-15
(1152.4 m)
81-VR-14
(1156.0 m)
Road
Road
35°
35°
OB
5A
4L
4EG
4A
4A/4C
4A/4C
4L - 5B6
4E46
WLEL.1123
4EG
EL.1130
Pit Ramp
MAIN
HORIZON
Backfill
BARREN
FOOTWALL
FOOTWALL
ALTN. ZONE
4L/3G
4L/3G
QFBX
4D/5B
5B/4E
4CDL
4LC
4CDE
4EC
4ECL
4CD
4CO
4CO
4EC
4EL
4CE
4LD
4GL
4DL
4CL
4EC
4E/5B
4E/5B
4CL
4EG
4EC
4G
4E
4E
4EI
3G
30.5 m
25.9 m
22.9 m
25.9 m
24.4 m
Till
Mine Waste
4AC
4AC
1150
1100
Scale 1:500
SECTION 20E



9900E
9950E
B.L. 10000E
10050E
81-VR-24
81-VR-25
81-VR-26
81-VR-27
81-VR-34
(1156.9 m)
81-VR-33
(1157.9 m)
OB
4L
4EG
Pit Ramp
4AC
4L/3G
4C
4EG
4L/3G
4A
5A
30.5 m
30.5 m
45.7 m
45.7 m
30.5 m
30.5 m
20% G
Pit Ramp EL1124
Backfill
EL.1116
QFB
WASTE
4E00
4L/5B6
5A - 4A
5A - 4A
4A
4EA
4A - 5A
4A - 5A - 4E
1150
1100
Scale 1:500
SECTION 24E