

Appendix 2-1

Water Balance - Quest 29 Dump Leach
Average Rainfall
Bulk Density 2.2
Lift Height 5mtrs

Month		Tonnes Stacked	Cumm Tonnes Stkd	Area Under Irrigation m2	Spray Volume m3	Spray to Saturation m3	Evaporation loss m3	Evaporation Rate %	Rainfall mm Average	Rainfall Gain m3	Available Operating Storage Capacity m3	Water Gain m3	Total Make-up m3
June	30		-		-	-	0	15		0	34000	0.00	-
July	31		-		-	-	0	15		0	30000	0.00	-
August	31	28,800	28,800	8400	19,479	5,184	2922	15		0	30000	-2921.89	8,106
September	30	28,800	57,600	8400	37,702	5,184	5655	15	11.10	93	30000	-5562.03	10,746
October	31	40,333	97,933	16800	66,238	7,260	7949	12	41.00	689	30000	-7259.80	14,520
November	30	40,333	138,266	16800	90,501	7,260	5430	6	159.72	2683	30000	-2746.79	10,007
December	31	40,334	178,600	16800	120,799	7,260	2416	2	274.86	4618	27798	2201.68	
January	31	23,466	202,066	25200	136,670	4,224	1367	1	372.76	9394	19771	8026.85	
February	28	23,466	225,532	25200	137,780	4,224	1378	1	257.76	6496	14654	5117.76	
March	31	23,467	248,999	25200	168,414	4,224	10105	6	148.20	3735	21024	-6370.19	10,594
April	30	32,666	281,665	33600	184,363	5,880	22124	12	100.48	3376	30000	-18747.38	24,627
May	31	32,666	314,331	33600	212,602	5,880	31890	15	68.20	2292	30000	-29598.79	35,479
June	30	32,667	346,998	33600	227,126	5,880	34069	15		0	30000	-34068.89	39,949
July	31	6,566	353,564	33600	239,138	1,182	35871	15		0	30000	-35870.67	37,053
August	31	6,566	360,130	33600	243,579	1,182	36537	15		0	30000	-36536.83	37,719
September	30	6,567	366,697	33600	240,020	1,182	36003	15	11.10	373	30000	-35630.02	36,812
October	31	7,133	373,830	33600	190,349	1,284	22842	12	41.00	1378	30000	-21464.28	22,748
November	30	7,133	380,963	33600	188,878	1,284	11333	6	159.72	5367	30000	-5966.06	7,250
December	31	7,134	388,097	33600	199,999	1,284	4000	2	274.86	9235	24765	5235.32	
January	31	5,900	393,997	33600	203,989	1,062	2040	1	372.76	12525	14280	10484.84	
Totals		393,997			2,907,625	70,919	273,929		2,293.52	62,252		-211677.18	295,609

1 : 100 Storm event from attached graph. Gives a worst case scenario of an additional **13,778m3** into the process catchment area.

January 2001 would have the maximum contained solution of which storage capacities would be modelled.

Therefore, January 2001 rainfall gain = 10,485m3 + 1:100 storm in January gain 13,778m3 **Total = 24,263m3**

Rainfall data - Toms Gully 5 year average (attached)

Evaporation data used in this model are actual rates encountered during the processing phase at Rustlers Roost Gold Mine and as such are far more accurate than if Bureau of Meteorology pan evaporation rates are applied. Evaporation is enhanced in the process by the act of spraying the process liquors which elevates evaporation loss volumes.

Tom's Gully Mine Site
Rainfall Register

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Yearly Total
1990	237.4	103.8	179.4	95.8	89.8					22.4	230.2	193.0	1151.8
1991	429.0	385.0	133.8	235.6							242.4	80.4	1506.2
1992	274.4	332.4	125.4	61.4	46.6				8.8	32.2	100.2	269.6	1251.0
1993	384.0	262.2	173.4	26.6					13.4	68.4	74.9	303.5	1306.4
1994	242.2	240.2	247.0	94.2						68.4	150.9	254.4	1297.3
1995	539.0	205.4	129.0	83.0						No	Records		

DESIGN RAINFALL INTENSITY DIAGRAM

LOCATION 12.925 S 131.475 E * NEAR.. Rustler's Roost Gold

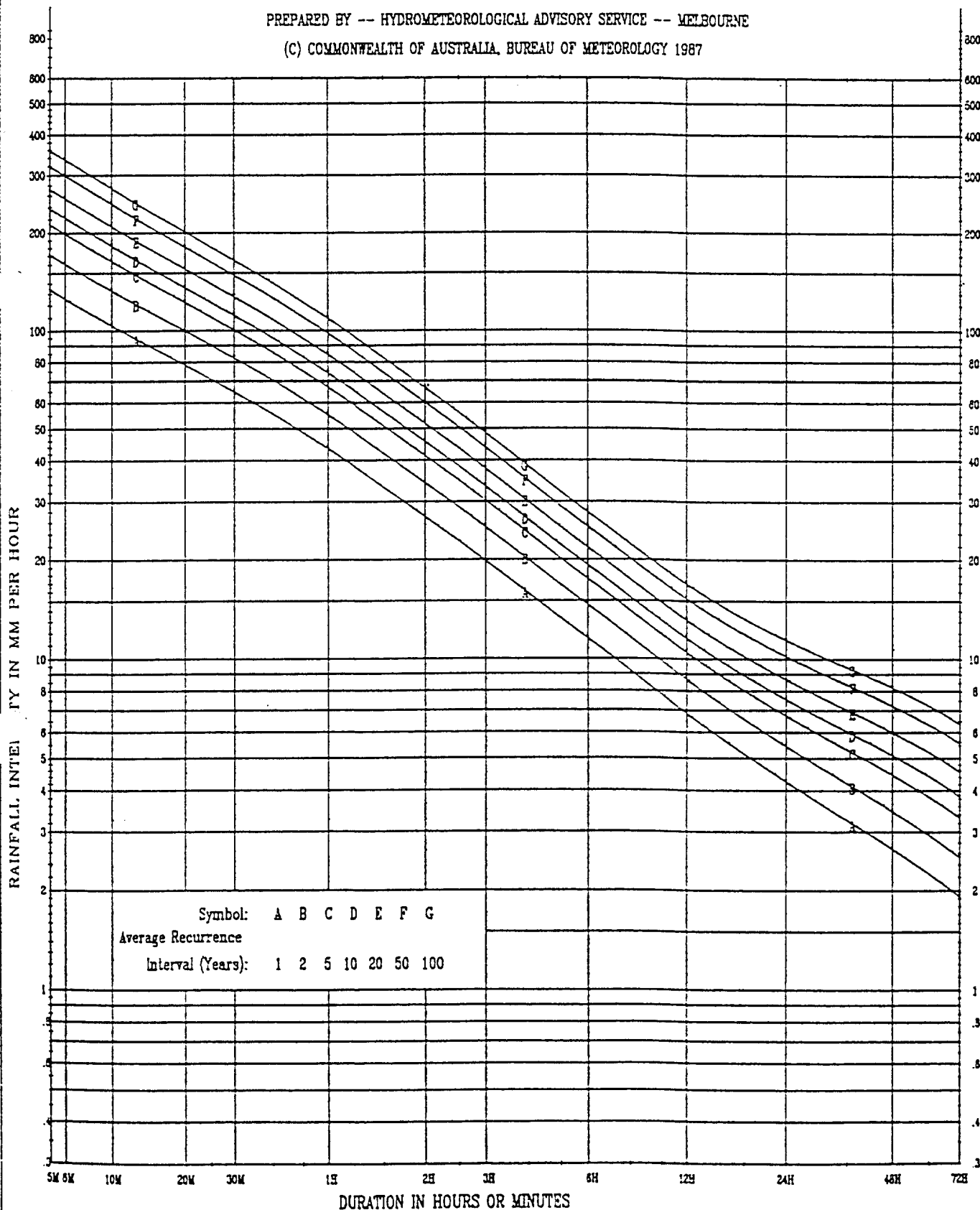
* ENSURE THE COORDINATES ARE THOSE REQUIRED.
 SINCE DATA IS BASED ON THESE AND NOT THE LOCATION NAME.

ISSUED 5TH JULY 1995 REF.-FN4228

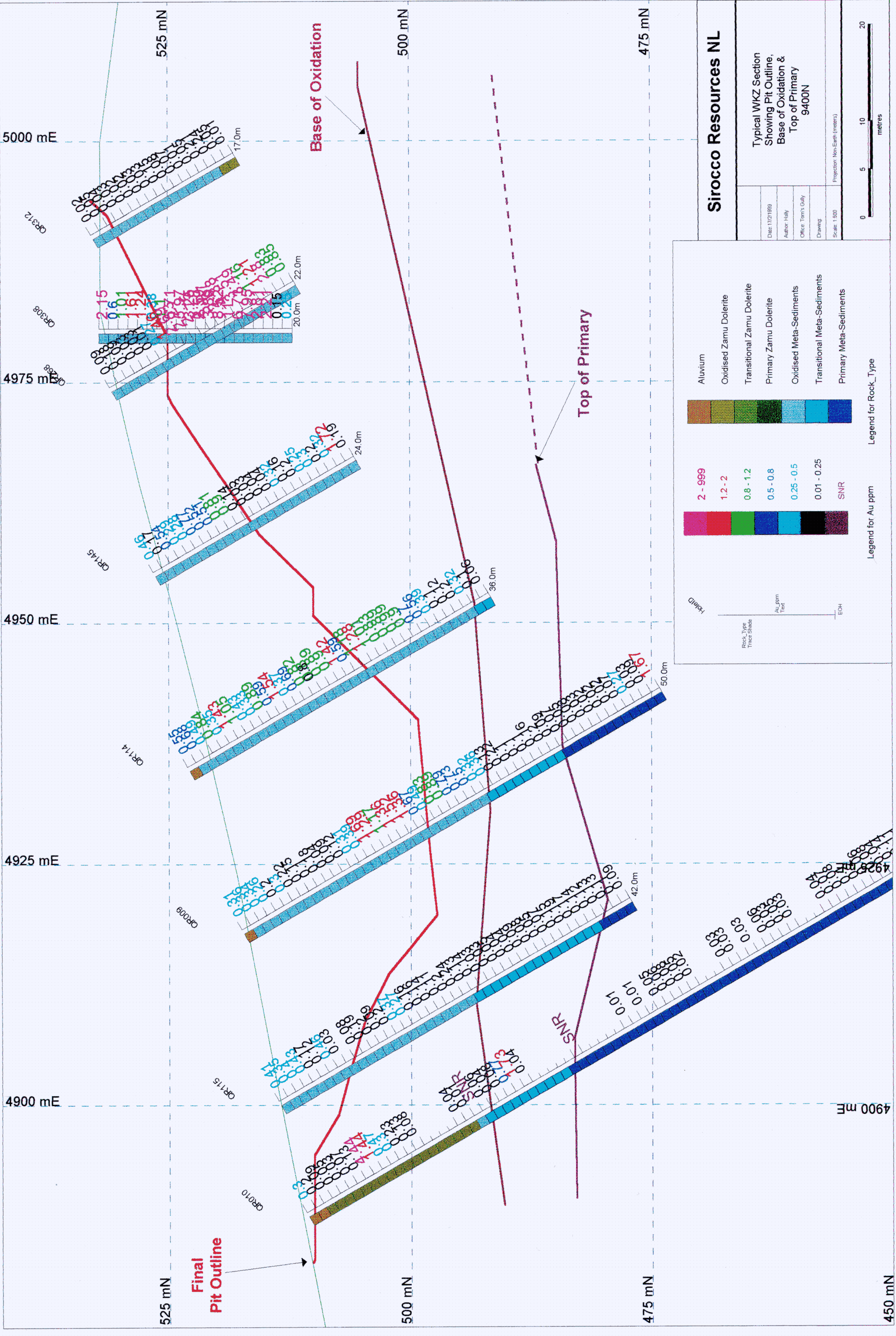
(RAI DATA: 37.5, 2.7, 2.5, 24.5, 14.1, 5.1, 3.0, 3.0)

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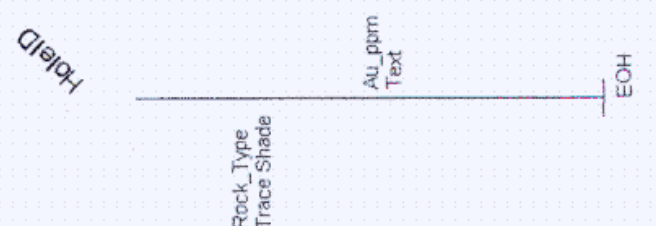
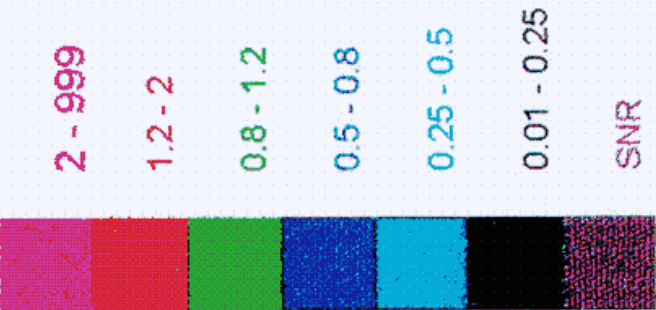
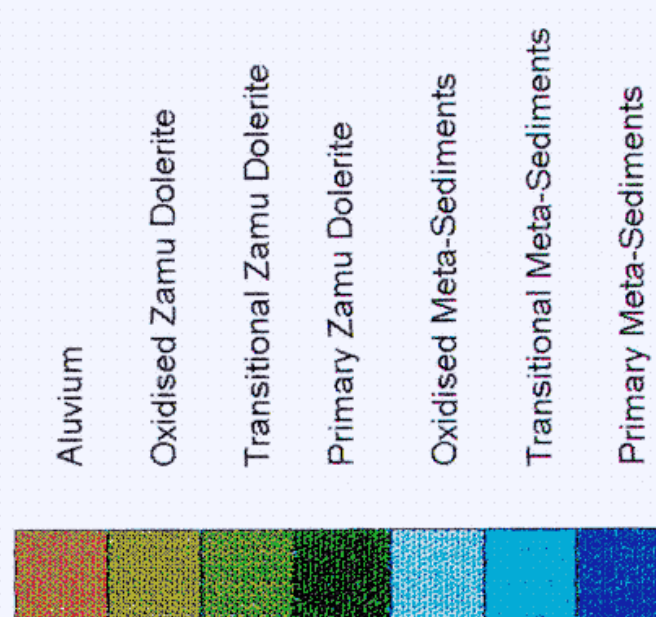
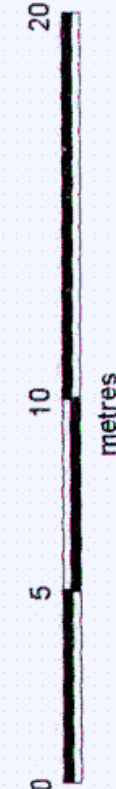
Appendix 2-2



Sirocco Resources NL

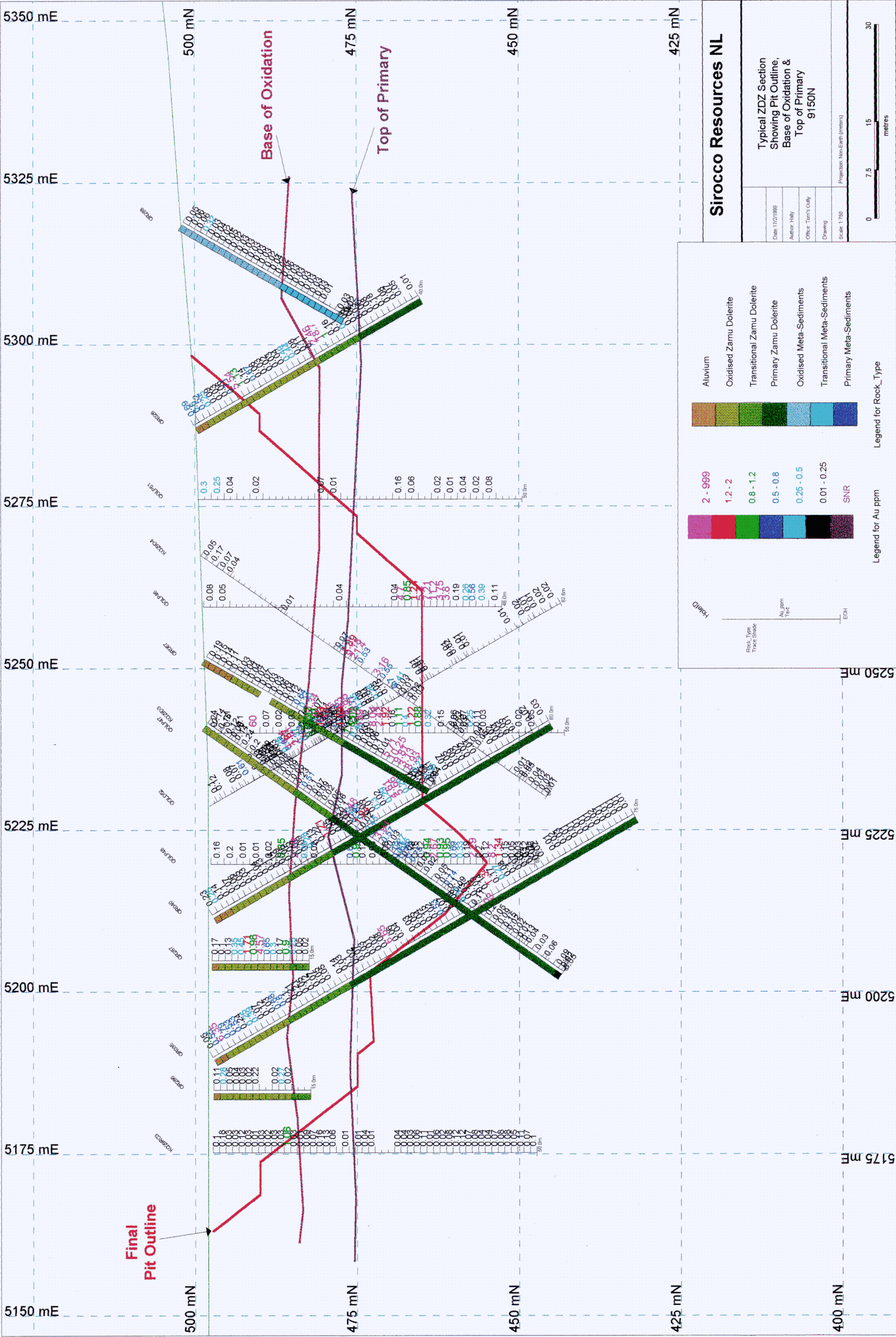
Typical WKZ Section
Showing Pit Outline, &
Base of Oxidation &
Top of Primary
9400N

Date: 17/2/1999
Author: Hally
Office: Torri's Gully
Drawing:
Scale: 1:500
Projection: Non-Earth (meters)



Legend for Rock_Type

Legend for Au ppm

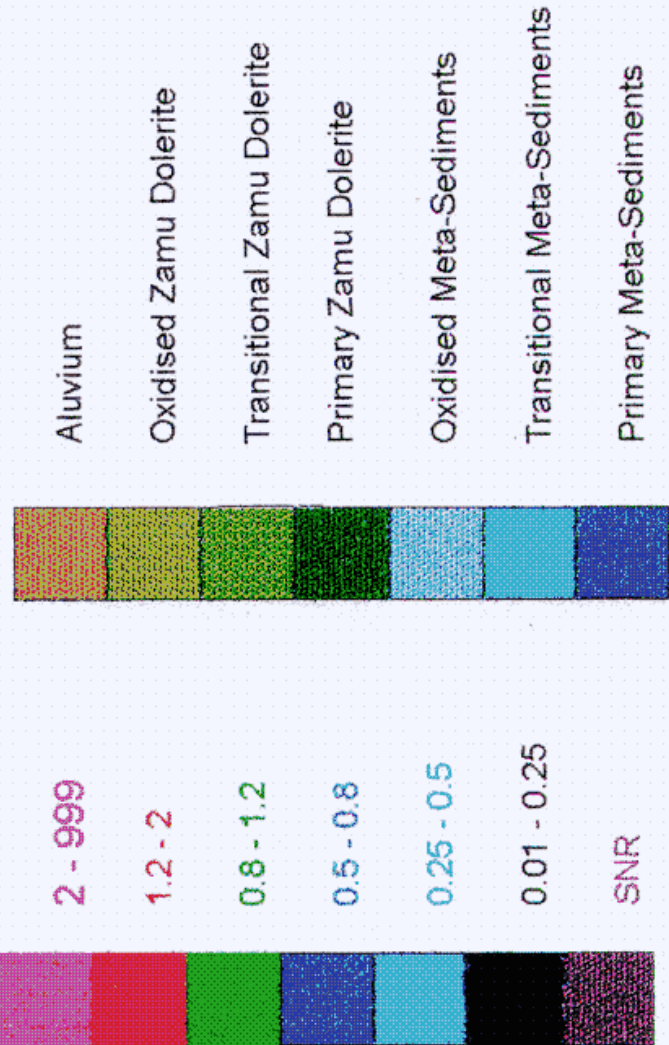
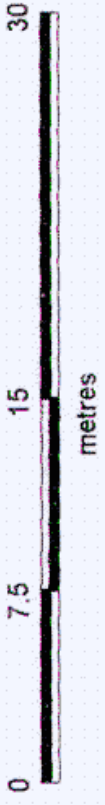


Sirocco Resources NL

Typical ZDZ Section
Showing Pit Outline,
Base of Oxidation &
Top of Primary
9150N

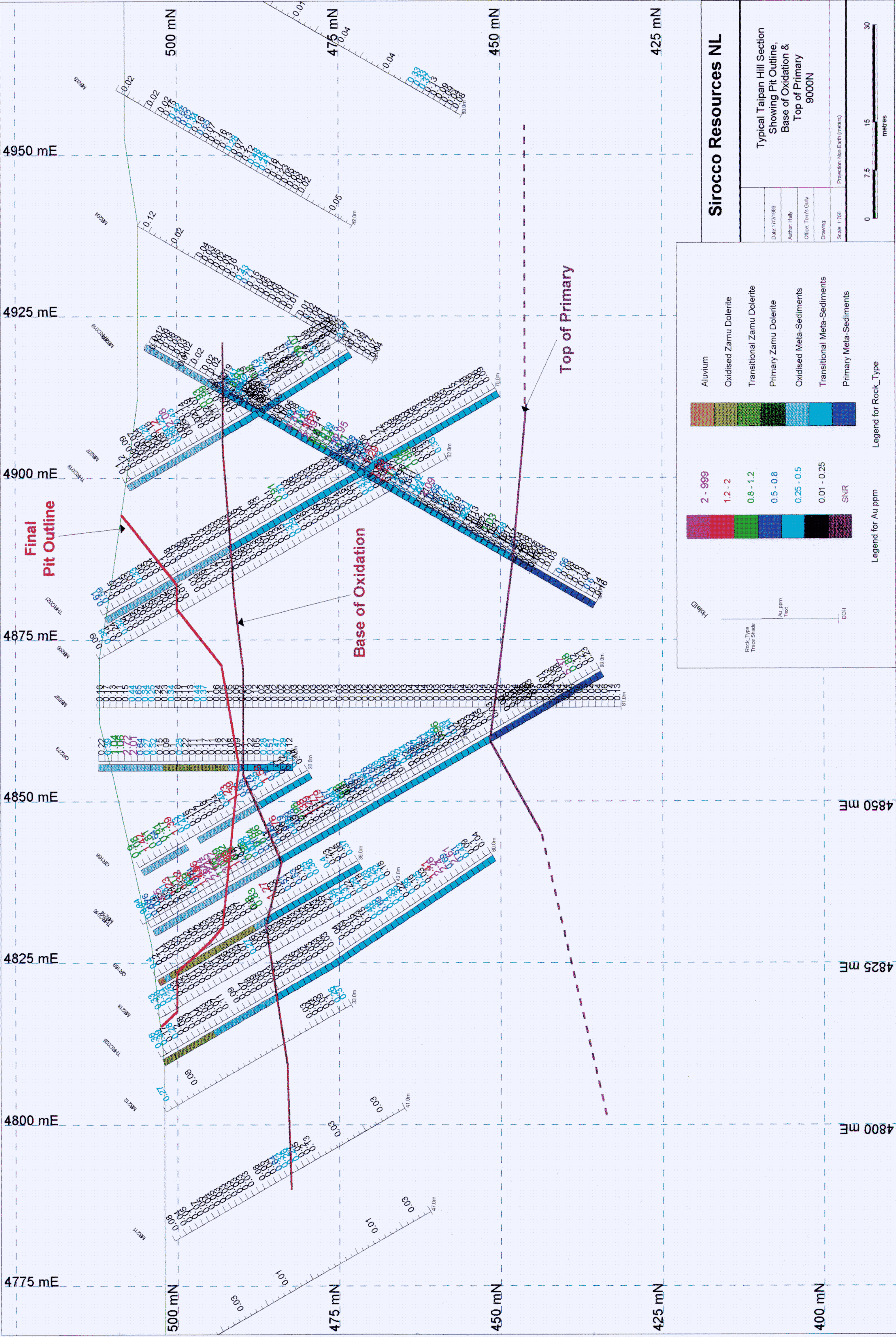
Date: 17/2/1989
Author: Hally
Office: Tom's Gully
Drawing

Scale: 1:750
Projection: Non-Earth (metres)



Legend for Rock_Type

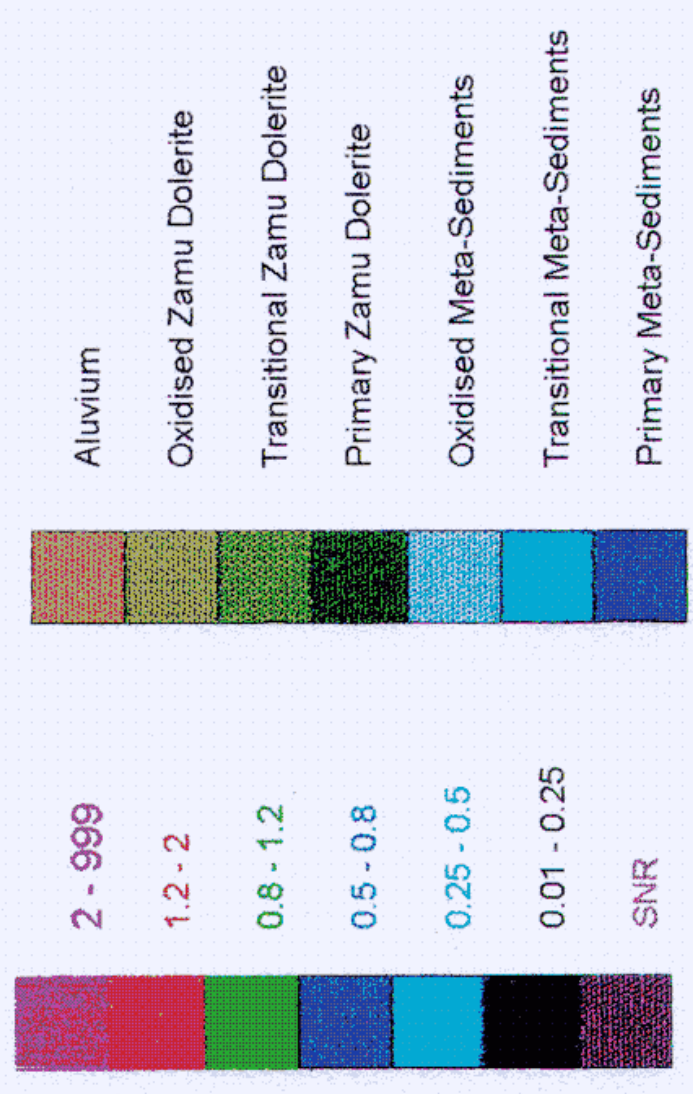
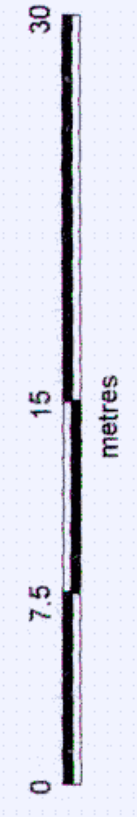
Legend for Au ppm



Sirocco Resources NL

Typical Taipan Hill Section
Showing Pit Outline,
Base of Oxidation &
Top of Primary
9000N

Date: 17/2/1998
Author: Hally
Office: Tom's Gully
Drawing
Scale: 1:750
Projection: New Earth (meters)



Legend for Au ppm
Legend for Rock_Type