

Asarco Australia Ltd

Tennant Creek Project

E 7181 and E 7325 (Orlando)

Annual Report for the year
ending February 4, 1994.

Tennant Creek SE53-14
19°25'S 134°03'E

by
C. England
February 1994

OPEN FILE

CR 94/131

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1. Introduction

Exploration Licences 7181 and 7325 are located some 30 kilometres north north west of Tennant Creek and cover prospective sequences of the Warramunga Group sediments that host the Gecko, Orlando, Olivewood and Queen of Sheba Mines. Exposure within the licences is poor due to colluvium cover over most areas.

The exploration licences were granted to Asarco Gold Pty Ltd, a wholly owned subsidiary of Asarco Australia Ltd., on February 5, 1991. The original application was for one licence covering 11 sub-blocks, but because of prior applications over part of this ground it was granted as two separate exploration licences, E 7181 and E 7325, of six and two sub-blocks respectively. Several groups of mineral claims and mining leases, covering the Gecko, Orlando, Queen of Sheba and Olivewood Mines are excised from the tenements. Halving of E 7181 and E 7325 was due on February 4, 1993, however Asarco obtained permission to defer the reduction of the licences until August 4, 1993.

The tenements are included in a joint venture between Asarco Gold Pty Ltd (69%) and Giants Reef Mining, who have purchased the interest previously held by TopEnd Resources. Giants Reef Mining are assuming management of the joint venture under an agreement whereby they will earn a greater equity in the tenements.

All areas of E 7181 and E 7325 relinquished in 1993 were pegged as mineral claims. Results of the 1993 vacuum drilling in the Orlando tenements had not been received at the time of relinquishment (see Plan 8806).

This report details work carried out in E 7181 and E 7325 (Orlando) during the year ending February 4, 1994.

2. Geology and Mineralization

The majority of the Orlando licences is covered by surficial Cainozoic sediments, obscuring basement geology. Where exposed, south and north west of the Gecko Mine, bedrock forms a series of low intermittent hills composed of interbedded greywacke, siltstone and shale of the Warramunga Group. East of the Orlando Mine (and excised from the licences) are a group of lenticular quartz haematite ironstone bodies parallel to and hosted by west north west striking shear zones.

Exploration Licence 7325 covers the strike extensions of the Orlando and Olivewood mines, and E 7181 is adjacent to the Gecko and Queen of Sheba mines. The total recorded production and published resources for these deposits (all excised) is listed below.

Gecko	4.9 million tonnes grading 0.8 gpt Au, 3.8% Cu
Orlando	680,000 tonnes grading 8.8 gpt Au, 4.0% Cu, 0.07% Bi
Queen of Sheba	666 tonnes grading 24 gpt Au
Olivewood	262 tonnes grading 15 gpt Au

The Gecko and Orlando ironstones did not outcrop and were discovered by drilling of deep seated magnetic anomalies. Asarco's exploration objectives in applying for the licences was to search for shallow, oxidized, non-outcropping ironstones, which have a subdued magnetic signature and hence could have been overlooked by earlier explorers. A secondary exploration target is lower grade, disseminated or stockwork gold mineralization associated with shearing and quartz-haematite veining, a style of mineralization not specifically targeted by early prospectors.

3. Work Done

During the year gridding was carried out to facilitate a vacuum drilling programme over five areas within the Orlando tenements. Field geological mapping at a 1:10 000 scale was also carried out over the same areas as the vacuum drilling and several rock samples were taken for analyses.

3.1 Gridding

Gridding totalling 76.2 kilometres was carried out to facilitate vacuum drilling, (see Plan 8806). Local baselines were emplaced, using cleared claim boundaries for control, with cross lines pegged at 100 metre or 200 metre line spacing with a peg spacing of 50 metres along lines. All gridding was by chain and compass.

3.2 Vacuum Drilling

Vacuum drilling was carried out to test magnetic flexures (see Figure 1) identified along the edges of pronounced magnetic ridges and to determine Au, Cu and Bi contents of soil and fossil lag (gravel) horizons developed on the weathered bedrock. The holes were drilled on a 50 metre by 200 metre pattern.

The primary samples in each hole were generally from the one metre interval containing the base of the widespread fluvial deposits overlying saprolitic basement lithologies. Composite samples, generally from above the primary sample, were taken at semi-regular hole spacings to test the entire fluvial-soil sequence. The drill samples were laid on the ground in one metre intervals.

The samples were submitted to Analabs-Townsville for analysis of their Au, Cu and Bi contents by methods 334 (Au) and 115 (Cu, Bi) all of which employ an Aqua Regia digest on a 30 gram sample, with carbon-rod AAS determination for gold and conventional AAS determination for Cu and Bi.

The quoted lower limits of detection for each element are:

Au	0.001 ppm
Cu	0.5 ppm
Bi	1.0 ppm

The drilling contractor was Vacuum Drilling Pty Ltd of Dongara, Western Australia who employed a Toyota Landcruiser mounted rig.

Results (See plans 8808 A,B & C and Appendix 1)

Orlando South, West Block (E 7325)

A programme of 95 holes totalling 309 metres was drilled on seven lines with holes at 50 metre spacings.

The minor basement outcrop on the tenement is restricted to a few silicified occurrences on the low lag-covered rise at the southern ends of lines 97 400 E to 98 200 E, either side of the Warrego-Tennant Creek Road. The remainder of the grid area is covered by a thin veneer of alluvium. The basement lithologies are oxidised shales and siltstones of the Carraman Formation-Proterozoic Warramunga Group. The prevailing strike is east south east.

One area of anomalous Au, Cu and Bi values has been identified, this zone extends for over 600 metres in an east west direction and narrows from its widest point at the western edge of E 7325 to approximately the centre of the Orlando south grid (see plans 8808A, B and C). Elevated Cu values cover the largest area ranging from 14 to 93.5 ppm, and averaging 20 to 30 ppm. Background Cu values are 8 to 10 ppm over the rest of the Orlando south grid. Bi values are less than 1 ppm over most of the Orlando south grid but range from 1 to 26 ppm in the anomalous zone. Slightly elevated Au values of 1 to 4 ppb, with one 7 ppb value, coincide with the elevated Cu and Bi values. Values over the rest of the grid range from less than 1 to 1 ppb.

Orlando South, East block (E 7325)

A programme of 278 holes totalling 962 metres was drilled on eight lines with holes at 50 metre spacing.

The majority of the area is covered by lag and alluvium. A few small outcrops of Warramunga Group sediments occur in the north east corner of the grid in creek beds and along the east end of the baseline. The lithologies are all shales striking approximately 110 degrees with near vertical dips. No visual indication of Au-Cu-Bi mineralization was noted in the cuttings.

The Au-Cu-Bi values were generally low and not anomalous. All gold values were 1 ppb or less except in three holes, the highest value being 6 ppb. Background copper values are marginally higher than on the Orlando South West grid ranging from 6 to 13 ppm, a small area of very slightly elevated values (up to 16 ppm) exists in the south west quadrant of the grid. The majority of the bismuth values are less than 1 ppm with values > 1 ppm recorded in 6 holes (maximum 2 ppm).

Orlando North (E 7325)

A programme of 37 holes totalling 136.5 metres was drilled on six short lines (250 metres long) with holes at 50 metre spacing. Outcrop is restricted to small areas of siltstones and shales in the north west and south east corners of the grid, with strikes directed to 090° to 110°. The dips are near-vertical to steep north. Thin quartz veins striking parallel to bedding occur in the outcrop areas.

Cu values were at background levels of 7 to 12 ppm. One Au value of 2 ppb was returned. This coincides with a Bi value of 7 ppm, one of only three bismuth values greater than 1 ppm. No signs of alteration denoting possible mineralization were noted in the drill cuttings.

Queen of Sheba (E 7181)

A programme of 123 holes totalling 412 metres was drilled on nine lines on two separate portions of the grid.

There is almost no outcrop on the grid system. A quartz vein crosses the western end of the northernmost line (6 100 N) and small areas of shale rubble overlying subcrop occur at the eastern end of line 5 700 N. The northern half of the block is covered by a thin lag horizon, the remainder of the area being covered by thin alluvium. The bedrock is oxidised siltstones and shales, and no indications of alteration were observed.

Background Cu values were similar to the Orlando North grid with Bi values being less than 1 ppm and Au values at background levels except for one spot value of 5 ppb.

Rhino (E 7181)

A programme of 105 holes totalling 262 metres was drilled on five north south lines spaced 200 metres apart.

The southern edge of the grid is located on east west striking shales, siltstones and greywacke sandstones of the Carraman Formation. The sediments are largely covered by a thin lag horizon. The drill cuttings do not contain signs of alteration related to mineralization.

The Au-Cu-Bi values are generally low. Only six scattered gold values are greater than 1 ppb, one isolated value being 15 ppb. Copper ranges from 3.8 to 64.1 ppm and is generally less than 16 ppm. Bismuth values are mostly less than 1 ppm, with five values in a row on 5 300 E ranging from 2 to 4 ppm. There are not coincident with any significant rise in gold or copper values.

3.3 Geological Mapping

Geological mapping has been carried out at 1:10 000 scale over areas of E 7181 and E 7325 which were gridded for vacuum drilling (see Plan 8808D). The results of this mapping are summarised below.

E 7181

The Licence contains very little outcrop, most of which occurs in the north west corner in the Rhino Area.

The outcrops observed are dominated by greywacke with thin interbeds of sandstone, siltstone and rare felsic tuff. The areas mapped as Qt are low rises over hills covered with a mantle of elluvium and talus, on which sparse outcrops can be found.

In the Rhino area the structure in the southern half is dominated by east west striking, steeply dipping bedding-cleavage structures. Structures in the northern half are north to north west orientated with a prominent set of north east striking quartz veins trending off the northern edge of the grid system. The boundary zone between the structural domains has been mapped by previous workers as a major fault zone - the Quartz Hill Fault.

E 7325

The Licence contains almost no outcrop and is largely covered by lag-talus debris (Qt) on the elevated ground and alluvium at lower elevations. Nearly all the basement outcrops found are thinly bedded shale/siltstone.

The Orlando North block lies along the northern margin of the Orlando mine and contains small areas of shale outcrops in the south east and north west corners. The structural trend of the visible bedding/cleavage is 90 to 100 degrees.

3.4 Rock Sampling

During mapping several rock samples were taken for Au-Cu-Bi analyses. Four samples were taken from the Rhino area (sample numbers 417954 to 417957) and two samples were taken from the Orlando South area (sample numbers 417985 to 417986). See Plan 8808D for locations and Appendix 2 for descriptions and analyses.

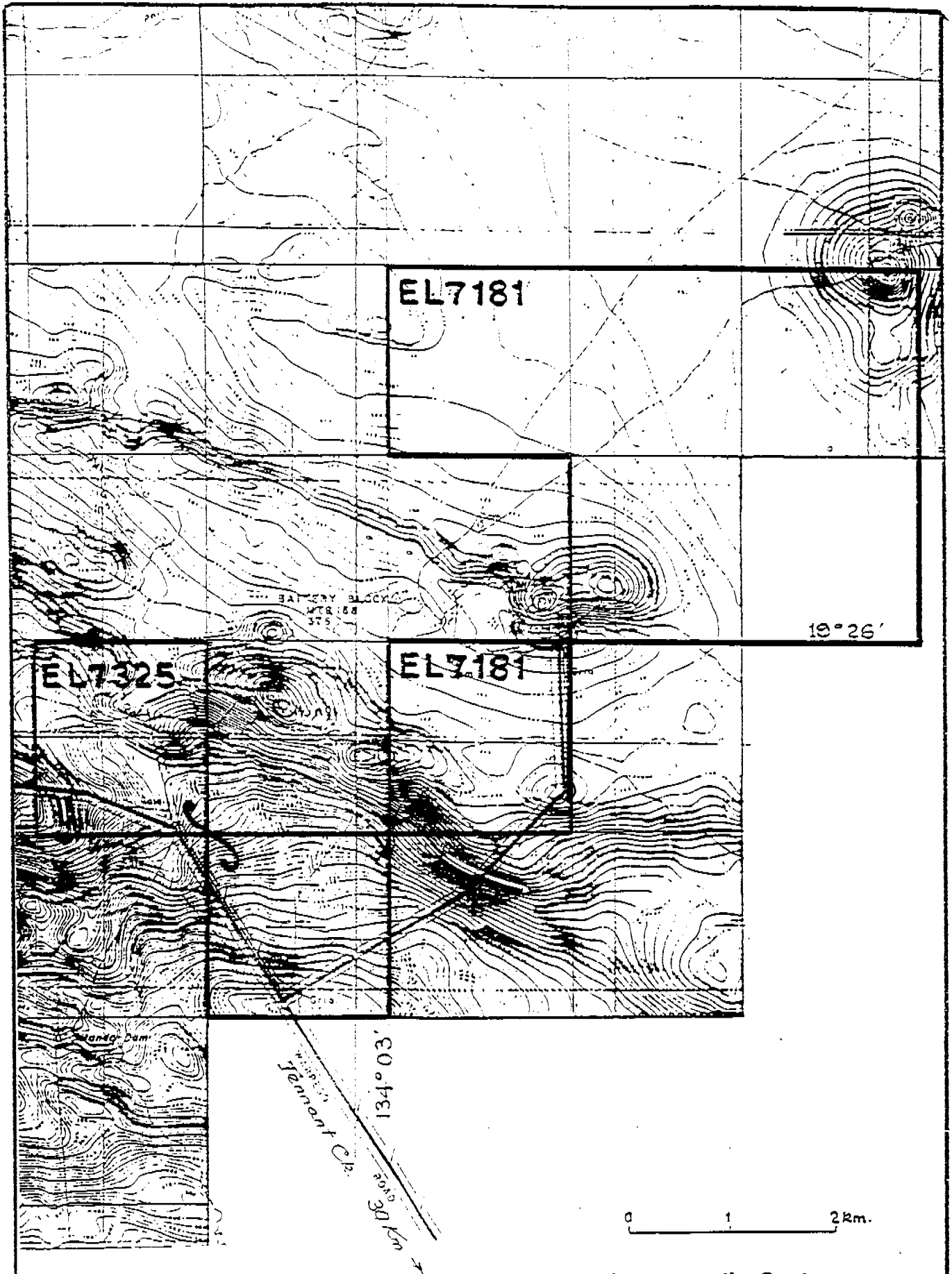
4. Conclusions

Reconnaissance geological investigations and open file data reviews identified magnetic flexures which have been followed up by vacuum drilling. Due to the unavailability of a vacuum rig at an earlier date, results from drilling were not received before relinquishment of parts of E 7325 and E 7181 were due (August 1993). Asarco, therefore pegged as mineral claims the relinquished parts of both licences in order to secure the ground during assessment of results and follow up work. Vacuum drilling results have subsequently identified a low order coincident Au-Cu-Bi anomaly in the Orlando South area and several single sample anomalies in other areas that also require follow up work.

5. Expenditure

Recorded expenditures for E 7181 and E 7325 for the reporting period was \$32,390 and \$41,475 respectively.

C. England



Areas relinquished 5.8.93

Aeromagnetic Contours

ORLANDO

Figure 1

APPENDIX 1

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: W. GIFFORD

DATE: JULY 21, 1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1543	97000E/49000N	0-10	0-1.5 Dk Red Brn alluvium, 4-5 Brn. 1.5-4 Purple-Brn. silty clay 5-10			10	307 794	1-2						
44	" 49050N	0-4	0-2. Alluvium + Fess. pebbles 2-4 Ox. red. sil. Zst. 'Magnetic'			14	795	1-2						
1545	49100N	0-3	0-2 Alluvium 2-3 Ox. shale.			17	796	1-2						
46	49150N	0-3	0-2 Alluvium Fess. pebbles + harder silt clay 2-3 Ox. red sh.			20	797	1-2						
47	49200N	0-3	0-1 P. Brn. Alluv. 1-2 Dk red. clay + pebbles 2-3. Brn. clay			23	798	1-2						
48	49250N	0-3	0-0.5 Silty 1-2 c. gravel. ferr. sh. 4-5 2-3 Ox. red. sh. - clay			26	799	1-2						
49	97200E, 49200N	0-3	0-1 P. Brn. Alluv. 1-2 Dk red. fine gravel. 2-3 P. purple. Brn. sh. shale.			29	307 800	1-2						
1550	" 49150N	0-3	0-2 Alluvium + Ferr. gravel. 2-3 Clay + silty red shale.			32	801	1-2						
51	" 49100N	0-3	0-2 clay + Ferr. gravel 2-3 Red + yellow silty Zst.			35	802	1-2						
52	" 49050N	0-3	0-2 clay of dk. red ferr. gravel 2-3 Ox. red. sh. 5-10 4-5			38	803	1-2						
53	" 49000N	0-3	0-2 Alluvium, fine gravel. clay. Red 2-3 Red + yellow silty sh. clay.			41	804	1-2						
54	97400E, 49000N	0-2	0-1 All. gravel. 0-1 c. P. Brn. 1-2 Ox. bedrock. red sh + wh. clay shale.			43	307 805	0.5-1.5						
1555	" 49050N	0-1.5	0-1 Gravel + clay 1.5- Ox. silty bedrock 2-3. Brn. clay.			44.5	806	0.5-1.5						
56	" 49100N	0-2	0-1 Gravel + silt 1-2 Ox. shale - clay			46.5	807	1-2						
57	" 49150N	0-3	0-1 silt 1-3 brownish. clays			49.5	808	0-1						
58	97600E, 49150N	0-3				52.5	809	1-2						
59	" 49100N	0-3	0-1 All. 1-2 All + Ox. bedrock. 2-3 Ox. bedrock. clay.			55.5	307 810	1-2						
60	" 49050N	0-3	0-2 Red silt + gravel. 2-3 Red clay - Ox. shale.			58.5	811	1-2						
1561	" 49000N	0-2.5	0-1 silt 1-2 silt + clay 2-2.5 clay.			61	812	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH.

LOGGED: _____

DATE: July 21/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As			
1562	97800E 49000N	0-3	0-2.5 Red brn silt/clay fine 7 visible 2.5-3 ls h. clay			64	307 813	1-2					
63	" 49050	0-1	hole in gravel pit ls & clay			65		0-1					
64	" 49100N	0-2	cf. 63. 0-0.5 gravel. 1.5-1.8 ls. & clay 1-2 clay/silt.			67	307 815	1-2					
1565	98200E 49000N	0-2	0-1 clay with gravel 1-2 alt. sh. & ss shale & c.			69		1-2					
66	" 49050N	0-1	0-1 pisolite & rock - gravel in yellow & ls h. clays			70		0-1					
67	" 49150N	0-1	0-1 pisolite & rock. in ls h. shale			71		0-1					
68	" 49150N	0-1	alt. sh. & c. yellow ss.			72		0-1					
69	" 49200N	0-1	alt. sh.			73	307 820	0-1					
70	" 49250N	0-2	0-1 pisolite/rock/silt. 1-2 alt. sh. & clay			75		0-1					
71	" 49300N	0-5	0-1 gravel 1.5-2.0 clay 1-3 clay 3-5 clay red & yellow shale & p. in silt. clay			80		0-1					
72	98,000 49,000N	0-2	0-1.5 silt & gravel. o/c. 1.5-2.0 clay.			82		1-2					
73	" 49,050N	0-1	o/c.			83		0-1					
74	" 49100N	0-1	0.5-1.0 gravel 1.5-1.8 sh. & c. o/c.			84		0-1					
1575	" 49150N	0-2	gravel/clay & sh. o/c.			86	307 826	0-1					
76	97,800E 49250N	0-2	0-1 clay silt gravel o/c. 1-2 clay.			88		0-1					
77	" 49205N	0-1	gravel/clay silt			89		0-1					
78	" 49150N	0-2				91		0-1					
79	97600E / 49200N	0-2	Silt clay 1-2 clay of shale.			93		0-1					
1580	97600E 49250N	0-2	of. Siltstone - Gravel & ss. no silt/gravel.			95	307 831	1-2					

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: _____

DATE: JULY 21/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As			
1581	97600E/49300N	0-3	0-1 Road base. 1-2 orig. surface. 2-3 clay. <i>trunk. frags</i>			98	307 832	1-2					
82	" 49350N	0-5	0-1 Soil purple clay 1-2 Purple clay 2-5 P. red + wh. clay. plastic + <i>red + wh. soil</i>			103	833	1-2					
1583	97400E/49400N	0-3	0-1 Soil 1-2 clay silt + <i>red, orange</i> 2-3 clay			106	834	1-2					
84	" 49350N	0-3	0-1 Road base 0-1 m. 1-2 med. clay surface. 2-3 pink clay. <i>SPARK ROAD XTB.</i>			109	835	1-2					
1585	" 49300N	0-3	0-1 soil silt 1-2 silt (hardpan) 2-3 clay			112	307 836	1-2					
86	" 49250N	0-3	0-1 silt. 1-5 - 3 or. shales. (clay)			115	837	1-2					
1587	" 49200N	0-3	0-5 silt/clay. 1-5 - 3 clay			118	838	1-2					
88	97200E/49250N	0-2	0-5 soil/1-5 - 2 clay			120	839	1-2					
89	" 49300N	0-2	0-5 silt clay. 1-5 - 2 clay.			122	307 840	0-1					
90	" 49350N	0-3	0-1 Pale clay. 1-2 red clay + <i>leg.</i> 2-3 red clay. <i>FLOODING</i>			125	841	1-2					
91	" 49400N	0-3	0-1 Red silt 1-2 silt/clay. 2-3 red/wh. clay			128	842	1-2					
92	" 49450N	0-3	0-1 silt 1-2 silt clay - gravel. 2-3 clay			131	843	1-2					
93	97000E/49500N	0-3	0-1 silt 1-2 silt gravel. 2-3 clay. or silt red sh.			134	844	1-2					
94	" 49480N	0-3	0-2 silt/gravel. (9-silt shales) 2-5-70 clay			137	307 845	2-3					
1595	" 49400N	0-3	0-2 silt (clay/rock chips) 2-3 clay rock - shales			140	846	1-2					
96	" 49350N	0-3	0-2 silt/clay gravel. 2-3 or. silt shales			143	847	1-2					
1597	" 49300N	0-3	0-2 silt/clay gravel. 2-3 clay - or. silt stone sh.			146	848	1-2					
1598	98000E/49200N	0-3	0-2 clay gravel get 2-3 clay shale frags			149	849	1-2					
99	" 49250N	0-3	0-2 clay gravel - silt 2-3 clay			152	307 850	1-2					

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: _____

DATE: July 21, 1993
22,

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1600	98000E/49300N	0-3	0-2 1/2 silt 2-3 clay, white & red ox shale.			155	307 851	1-2						
1601	97800E/49300N	0-3	very thin rock/fly coner. no soil. 0-3 white clay & red 2.5-3.			158	852	1-2						
02	" 49350N	0-3	0-1 Brn silt 1-2 Redm. clay 2-3 Brn & white clays			161	853	0-1						
03	" 49400N	0-2	0-1 silt. floodplain. 1-2 white clay			163	854	0-1						
04	" 49450N	0-3	0-1 brn silt 1-3 reddish clay.			166	307 855	1-2						
21/22 1605	" 49500N	0-3	0-1 brn silt alluvium 1-3 alluvium clay & red silted shale			169	856	1-2						
1606	97600E/49650	0-5	in drainage 0-2 silt-rock frag 2-5 ox. shale red & wh.			174	857	1-2						
07	" 49600	0-3	0-2 Alluvium 2-3 Purple & green 2st. lin			177	858	1-2						
08	" 49550	0-5	0- Alluvium 2-5 ox. Red to h. 2st.			182	859	1-2						
09	" 49500	0-3	alluv			185	307 860	1-2						
1610	" 49450	0-3	0-2 Alluvium 2-3 Red silt & moss 2st.			188	861	1-2						
11	97600E/49400	0-3	0-2 Alluvium / clay 2-3 Red silted 2st.			191	862	1-2						
12	97400E/49450N	0-3	0-2 Alluvium 2-3 ox. 2st. Fe ox lenses			194	863	1-2						
13	" 49500N	0-3	0-2 Alluvium - fine gravel 2-3 ox. shale			197	864	1-2						
14	" 49550N	0-3	0-2 Alluvium & gravel 2-3 ox. shale			200	307 865	1-2						
1615	" 49600N	0-6	0-2 Alluvium / gravel 2-6 Pale purple red 2st. / in.			206	866	1-2						
16	" 49650N	0-3	0-2 Alluv. 2-3 ox. silt			209	867	1-2						
17	" 49700N	0-5	0-2 Alluvium gravel. 2-3 clay 3-5 red. ox silt sh.			214	868	1-2						
	750N	0-3	0-2 gravel 2-3 ox. purple shale.			217	869	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO STM.

LOGGED: W.GIFFORD

DATE: JULY 22/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1619	97400E/49800N	0-5	0-3 Gravel 3-5 white or felsic		Pp	222	307 870	2-3						
1620	97200E/49800N	0-5	POWDERLINE TRAC. 0-4 gravel. 4-5 br. red + wh. 2 sh. 0-0.5 silt 0.5-4.5 gravel.			227	871	3-4						
21	" 49750N	0-6	4.5-5. yellow clay 5-6. white & f. sand			233	872	3-4						
22	" 49700N	0-4	0-1 silt 1-2.5 gravel. 2.5-4 wh. + red clay - shale.			237	873	2-3						
23	" 49650N	0-3	0-1 silt 1-3 gravel.			240	874	2-3						
24	" 49600N	0-5	0-3.5 gravel. 3.5-5. silt 2 sh.			245	307 875	3-4						
25	" 49550N	0-4	0-2.5 silt fine gravel. 2.5-4. clay or shale.			249	876	2-3						
1626	" 49500N	0-4	0-1 silt fine gravel (1-2.5 gravel. 2.5-4 clay, red clay			253	877	2-3						
1627	97000E/49550N	0-5	0-3 silt gravel. 3-5 silicified brown yellow 2 sh.			258	878	2-3						
28	" 49600N	0-5	0-1 silt 1-5 gravel (4-5 silt) 1-2 clay (1-2 sh.)			263	879	4-5						
29	" 49650N	0-5	0-3 gravel. 3-5 br. red + yellow shale (2 sh.)			268	307 880	2-3						
1630	" 49700N	0-5	0-1 Brn. silt silt. 1-3 sh. gravel 3-4 black clay br. 4-5 Brn. clay			273	881	2-3						
31	" 49750N	0-4	POWDERLINE 0-2.5 silt - gravel 2.5 clay + shale - Fe coral + ls.			277	882	2-3						
32	" 49800N	0-7				284	883	5-6						
33	" 49850N	0-5				289	884	2-3						
34	" 49900N	0-5	0-2 silt 2-4 cgl. 4-5 p. brn. clay (minor v. & ls)			294	307 885	2-3						
1635	" 49950N	0-4	0-1 silt 1-3 cgl. 3-4 silt/clay			298	886	2-2.5						
36	" 50000N	0-8	0-2 cgl. 2-3 silt 3-8 clay or 2 sh.			306	887	1-2						
37	" 501050N	0-3	silt cgl. 2-3 clay			309	888	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO NORTH

LOGGED: W. GIFFORD

DATE: JULY 22/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As			
1638	2000E / 2000N	0-11	Soil 1-11 clay-ox. then silty silt, yellow ox. silt to g. Fe. silty			11	307 889	1-2					
39	" 2050N	0-3	0-2 soil 2-3 ox. 2st. silty + clay			14	890	1-2					
40	" 2100N	0-5	0-1 silt - in drainage 1-5 ox. red + yellow 2st.			19	891	1-2					
41	" 2150N	0-3	0-5 soil 1-2 of 2st. clay 2-3 of yellowish 2st.			22	892	1-2					
42	" 2200N	0-3	0-1 silt/silt 1-2 gravel silt. 2-3 clay red. c. 2st. 1/4 g. 1/3			25	893	1-2					
43	" 2250N	0-7	0-1 silt 1-2 soil 2-7 of red + wh. siltst. 6-7 5% Vug			32	894	1-2					
1644	1800E 2250N	0-3	ditto 2-3 purple silt			35	307 895	1-2					
45	" 2200N	0-4	0-1 clay 1-3 gravel - high g. 1/3 3-4 silty red + wh. siltst. fine			39	896	2-3					
46	" 2150N	0-4	0-1 soil 1-2 gravel + silt. 2-4 clay + red + wh. silty 2st.			43	897	1-2					
47	" 2100N	0-3	20m w. of d. 0-2 silty gravel. 2-3 clay ferr. shale + 80% vug 1/3			46	898	1-2					
48	" 2050N	0-3	0-1 soil mt. on surface. 1-2 wh. clay 2-3 red shale			49	899	0-1					
49	" 2000N	0-2	shale of c.			51	307 900	0-1					
1650	1600E 2000N	0-3	mt. on surface 0-1 soil 1-3 wh. clay ox. wh. + yellow sh.			54	901	0-1					
51	" 2050N	0-3	0-2.5 gravel silty shale + Hem. 2.5-3.1 clay + shale.			57	902	1-2					
52	" 2100N	0-4	0-1 soil gravel. 1-2 silty fine gravel 2-4 of shale + 70% vug 1/3			61	903	1-2					
53	" 2150N	0-3	0-2 clay gravel. 2-3 red + wh. shale (siltst.)			64	904	1-2					
54	" 2200N	0-2.5	0-1 silt 1-2 silt + ox. sh. 1-2 silty sh. + 7% vug 1/3			66.5	905	1-2					
1655	" 2250N	0-3	0-1 soil + shale 2-3 ash. + f. gr. felsic buff.			69.5	906	1-2					
56	1400E 2250N	0-5	0-2 soil + rock 2-5 of shale + g. 1/3			74.5	907	0-1					

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO NORTH.

LOGGED: _____

DATE: July 22/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1657	1400E/2200N	0-1	ABD. 100 HARD			75.5	307 908	—						
58	" 2200N	0-5	0-1.5 Soil 1.5-3 wh. clay silt + g/b 3-5 Red sh. + g/b - 210% + silt clay			80.5	307 908	1-2						
59	" 2150N	0-7	0-2 silt gravel 2-3 hem. shale			83.5	909	1-2						
1660	" 2100N	0-5	0-1 Silt clay 1-2 hem sh. gravel. 2-3 clay + hem shale - fig. ser. felsic			88.5	307 910	1-2						
61	" 2050N	0-4	0-3 clay rock frags 3-4 Red, wh. yell. silt shale.			92.5	911	1-2						
62	" 2000N	0-3	0-1.5 Soil gravel 1.5-3.0 white clay			95.5	912	1-2						
63	1200E/2000N	0-5	0-1 Soil 1-2 silt + gravel + clay. 3-5 Red, wh. + yell. shale + wh. clay			100.5	913	1-2						
64	" 2050N	0-3	0-2 Soil gravel, clay 2-3 silt hem sh. Red yell. wh.			103.5	914	2-3						
1665	" 2100N	0-4	0-2 silt gravel + sh g/b 2-4 oxidized fig. felsic tuff.			107.5	307 915	1-2						
66	" 2150N	0-3	0-3 Red silt gravel to hard to drill			110.5	916	2-3						
67	" 2200N	0-4	0-2 Red gravel 2-4 white silt (clay)			114.5	917	1-2						
68	" 2250N	0-3	0-2 Red gravel + silt 2-3 Clay + red silt shale.			117.5	918	1-2						
1669	1000E 2250N	0-4	0-2 or. shale, clay 2-4 or. shale, Red, clear clay			121.5	919	1-2						
70	" 2200N	0-3	0-3 soil + rock fragments			124.5	307 920	2-3						
71	" 2150N	0-3	0-2 soil + rock fragments			127.5	921	1-2						
72	" 2100N	0-3	0-2.5 Soil + rock fragments 2.5-70 silt shale + 10% g/b			130.5	922	2-3						
73	" 2050	0-3	soil + gravel 0.5-30			133.5	923	2-3						
1674	" 2000N	0-3	0-1.5 silt 1.5-7.0 or wh. silt.			136.5	924	0-1						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH
EAST BLOCK

LOGGED: W. GIFFORD

DATE: JULY 23/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1675	98600 ^E /48100N	0-5	0-1 Soil 1-2 Red Brn. silt clay 2-5 mic clay + silt clay - y. sh. silt			05	307 925	2-3						
76	" 150N	0-4	0-1 Soil 1-3.5 gravel. 3.5-4.0 wh. clay silt. 2 sh.			09	926	3-4						
77	" 200N	0-3	Soil gravel - 77.5 2.5-3.0 wh. clay/sh. magnetic gravel - 78m.			12	927	2-3						
78	" 250N	0-4	2-3 clay-sand 3-4 clay + silt. silt			16	928	1-2						
79	" 300N	0-4	SCARPED AREA 0-2 gravel 2-3 Brn. clay 3-4 clay silt. silt			20	929	1-2						
1680	" 350N	0-5	0-4.75 gravel. clay			25	307 930	4-5						
81	" 395N	0-4	ROAD V. GABO 0-2.5 gravel + wh. clay SCARPED + silica - ? CO2 replacement			29	931	2-3						
82	" 450	0-7	TELEPHONE LINE SCARPED 0-3 gravel. 3- clay + 2 sh. + mass. y. sh. wh. silt. + 40% silt			36	932	2-3						
83	" 500N	0-4	0-2 gravel. 2-3.5 v. coarse gravel - hard. 3.5-4 wh. clay			40	933	3-4						
84	" 550N	0-4	fine gravel + silt 3-5			44	934	2-3						
1685	98800 ^E /48250N	0-5	0-4.5 medium gravel. hard pm. 4-5 wh. clay			49	307 935	3-4						
86	" 48200	0-4	0-1 Soil 1-2 Red silt 2-4 Brn clay silt.			53	936	2-3						
87	" 48150N	0-3	ABD rec. line 0-2 H' pan/gravel. 2-3 clay + silt Red. sh.			56	937	1-2						
88	" 48090	0-3	0-2.5 silt/gravel. 2.5-3 clay			59	938	2-3						
89	" 48050	0-3	Power line 0-1 soil fine gravel - h' pan. 1-2 silt gravel. 2-4 dk. silt. clay - silt			62	939	2-3						
1690	" 48000N	0-3	0-3 fine Red Brn. silt gravel.			65	940	2-3						
91	" 47950N	0-5	0-3 gravel. 3-5 clay			70	941	2-3						
92	" 47900N	0-3	monoc. silt 2.5-3 clay			73	942	2-3						
1693	" 47850N	0-3	HMA pm gravel. 2-5 mic cl.			78	943	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: W. GIFFORD

DATE: July 23/1993 EAST BLOCK.

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1694	98800E/47800N	0-4	0-2 Red silt gravel. 2-3 clay 3-4 silty 2st yellow			82	944	2-3						
95	" 47750N	0-4	10m N of fence. 0-1 silt. - Red silt gravel. - high g/b			86	307 945	2-3						
96	99000E/47450N	0-4	0-3 Rd brn. hard pm gravel. 3-4 clay 40m N of fence.			90	946	2-3						
97	" 47500N	0-5	0-4 hard pm coarse gravel. 3-4 Fst/g 4-5 clay 2st gravel.			95	947	3-4						
98	" 47550N	0-5	0-4 Hard pm c. gravel.			100	948	3-4						
99	" 47600N	0-5	0-4.5 silt 4.5+ clay			105	949	4-5						
1700	" 47650N	0-5	0-4.25 Hard pm - gravel. 4.5 clay exp 2st.			110	307 950	3-4						
01	" 47700N	0-5	0-4.2 H'pm cgl. 4.5 clay			115	951	3-4						
02	" 47750N	0-4	in DRAIN 0-2 silt 2-3 Fst gravel. 2-4 clay			119	952	2-3						
03	" 47800N	0-3.5	in ROAD DRAIN N SIDE 0-3.5 H'pm cgl. with hard clay.			122.5	953	2.5-3.5						
04	" 47850N	0-4	0-3.5 Fst cgl. - silt. 3.5-4.0 yell. silty 2st.			126.5	954	3-4						
1705	" 47900N	0-5	0-4.5 H'pm. / cgl. 4.5 clay.			131.5	307 955	3-4						
1706	" 47950N	0-4.5	From 30.40m N of loc. 0-3 on consulting 3-4.1. near silt cgl. to 4-5 silty Redst.			136	956	3-4						
1707	99200E/47200N	0-4	FROM 10m TO 20m 0-3 Rd brn. silt/cgl - 3-4 yellow 2st. clay			140	957	2-3						
08	" 47650N	0-4	0-1 silt 1-3 or near silt/cgl 2-4 clay - maroon / yell.			144	958	2-3						
09	" 47600N	0-5	0-1 silt 1-3 Red silt cgl. 3-4 yell clay cgl. 4-5 wh. clay			149	959	3-4						
1710	" 47550N	0-4	0-3 silt cgl. / 3-4 yell. clay - silt			153	307 960	2-3						
11	" 47500N	0-4	0-3 silt/cgl. 3-4 clay			157	961	2-3						
12	" 47445N	0-3	0-2.5 silt/cgl 2.5-3 clay			160	962	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: _____

DATE: July 23/1993 EAST BLOCK

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1713	99200E/47400N	0-3	0-2.5 silt/cgl. 2.5-3.0 wh. clay			163	357 963	2-3						
14	" 47350N	0-4	0-2.5 silt 2.5-4.0 silt + clay			167	964	1-2						
1715	" 47300	0-3	0-3 silt/cgl. Hard pan. clay @ base.			170	307 965	2-3						
1716	99400E/47300N	0-4	0-4 silt clay @ base.			174	966	3-4						
17	" 47350N	0-4	3-4 clay			178	967	2-3						
18	" 47400N	0-5	0-2 Rd brn. H'pan. 2-4 Brn clay 4-5 yellow clay			183	968	1-2						
19	" 47450N	0-4	0-3 H'pan cgl. 3-4 wh-brn clay			187	969	2-3						
1720	" 47500N	0-5	0-3 H'pan cgl. 3-5 wh clay			192	307 970	2-3						
21	" 47550	0-3	0-2.5 H'pan. 2.5-3. clay + silt @ base			195	971	2-3						
22	" 47600N	0-3	0-2.5 H'pan.			198	972	1-2						
23	99600E 47550N	0-4	0-3.5 Rd brn. H'pan cgl. 0.5m. yellow clay			202	973	2-3						
24	" 47500N	0-4	0-3.5 Rd brn. hard pan cgl. 3-5 yellow clay			206	974	2-3						
1725	" 47450N	0-3	0-2.5 Rd brn. hard pan/cgl. wh. clay			209	975	1-2						
26	" 47400N	0-3	0-2 Rd brn hard pan cgl 2-3 wh. clay. 1.5m. brn			212	976	1-2						
27	" 47350	0-3	0-2.5 Rd h'pan cgl. 2.5-3.0 wh. clay.			215	977	2-3						
28	" 47300	0-3	Rd brn. h'pan gravel + silt 0-2.5 2.5-4 yell. clay.			218	978	2-3						
29	99800E 47300	0-3				221	979	2-3						
1730	" 47350	0-3	0-2 H'pan cgl. 2-3 wh. clay			224	307 980	1-2						
31	" 47400	0-3	Ditto			227	981	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH
EAST BLOCK

LOGGED: W. GIFFORD

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1732	99800E/47400N	0-3	0-2 M'pan Red/Yell. silty sh. 2-3 yell/wh. clay			230	307 982	1-2						
33	" 47500N	0-3	0-1 Brnsilt 1-2 Red M'pan. (2-3) 2.0-2.5 wh. clay 2.5-3 Red silty sh.			233	983	1-2						
34	" 47550N	0-3	0-2 M'pan. V. weak cgl. 2-3 yellow clay - sh.			236	984	1-2						
1735	" 47600N	0-3	0-2.5 M'pan. 2.5-3 wh. + yell. clays			239	307 985	1-2						
36	" 47650N	0-3	Power line 0-2.5 M'pan. gravel. 2.5-3.0 clay			242	986	2-3						
37	" 47700N	0-3	0-2 M'pan. 2-3 Red silty sh. + wh. clays			245	987	2-2						
38	" 47750N	0-5	0-4 M'pan. coarse gravel & sh. 3-4 silty clay + clay			250	988	3-4						
39	" 47800N	0-4	0-3 M'pan cgl. 3-4 clays			254	989	2-3						
1740	" 47850N	0-5	0-3 M'pan. 1-2 magnetite cgl. 3-4 brn. clay cgl. 4-5 clays			259	307 990	3-4						
41	" 47900	0-4	0-3.5 M'pan coarse cgl. & magnetite 3-4 pale silty clays			263	991	2-3						
42	" 47950	0-4	0-3.5 Pale red brn. + charcoal + silty sh. cgl. 3.5-4.0 clays			267	992	2-3						
43	" 48000N	0-4	0-3.2 Red brn M'pan cgl. - 4.0 wh. clays			271	993	2-3						
44	" 48050N	0-2.5	0-2.5 Hard cgl.			273.5	994	1.5-2.5						
1745	" 48100	0-3	0-2.5 Hard pan cgl. 2.5-3.0 wh. silty clay			276.5	307 995	2-3						
46	" 48150	0-4	0-3 Hard pan cgl. - hard 4/8 3-4 clays			280.5	996	2-3						
47	" 48200N	0-3	0-2 M'pan 2-3 clays			283.5	997	1-2						
48	" 49250N	0-3.5	0-3 M'pan. + clay			287	998	2-3						
49	" 48300	0-3	0-2 M'pan 2-3 clays			290	999	1-2						
1750	" 48350N	0-3	0-2 M'pan. + clay			293	308 000	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH
EAST BLOCKLOGGED: W. GIFFORDDATE: JULY 25/1993PAGE 5 OF 15

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1751	99,800E / 48400N	0-3	0-2 + H'pan - gravel. 2-3 clay			296	309 601	1-2						
52	" 48450N	0-3	0-2 + H'pan - gravel. 2-3 clay & silt shales			299	602	1-2						
53	" 48500N	0-3	0-2 H'pan. 2-3 clay/silt - 1-4 clay			303	603	2-3						
54	" 48550N	0-3	0-2 H'pan. 2-3 clay			306	604	1-2						
1755	" 48600N	0-4	0-3 Red H'pan - cgl. 3-4 wh. silt & near silt clay			310	307 605	2-3						
56	" 48650N	0-3	sh. of c. 6m to 5m. + 4V.S. 0-1 silt/clay. 1-2 clay & sh. chips 2-3 cl. sh. 1-2 silt sh. per/silt 2st			313	606	2-3						
57	" 48700N	0-3	0-2 H'pan 2-3 clay & wh. silt/cl. ex. clay			316	607	1-2						
58	" 48750N	0-2	0-1.5 H'pan - gravel. 1.5-2 cl. & silt clay - silt sh.			318	608	1-2						
59	" 48800N	0-2	0-1.8 H'pan cl. silt sh.			320	609	1-2						
1760	" 48850N	0-2	0-1 gravel 1-2 cl. sh. & clay			322	307 610	1-2						
	"		NO HOLE - CREEK BED of c.											
1761	" 48950N	0-2	of sh. 0-2 Brown silt sh.			324	611	1-2						
1762	" 49000N	0-2	with wh. clay & base.			326	309 612	1-2						
1763	100,000E / 49000N	0-1	on silt sh. of c.			327	613	0-1						
64	" 48950	0-1	auto			328	614	0-1						
1765	" 48900N	0-1	cl. sh.			329	309 615	0-1						
66	" 48850N	0-1	cl. sh.			330	616	0-1						
67	48800N	0-1	auto			331	617	0-1						
68	48750	0-1	cl. sh.			332	618							

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

EAST BLOCK.

LOGGED: W. GIFFORD

DATE: July 25/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As			
1769	100,000E/48700N	0-1	ofc. shales			333	309 619	1-2					
70	" 48650	0-1	ditto			334	620	1-2					
71	" 48600	0-2	ditto			336	621	1-2					
72	" 48550N	0-3	0-2.5 silt-cgl. ofc. 2.5-3.0 ofc. shales			339	622	2-3					
73	" 48500N	0-3	0-1 silt + c. cgl. 1-3 silt + minor cgl.			342	623	2-3					
74	" 48450N	0-3	0-3 silt + cgl. clay @ base			345	624	2-3					
1775	" 48400	0-3	0-1 grey silt 1-3 ofc. benton. li'ns. clay @ base			348	309 625	2-3					
76	" 48350	0-3	0-3 H'PAN cgl - base. wh. clay + calcified g/s			351	626	2-3					
77	" 48300	0-3	0-3 H'PAN wh. clay @ base.			354	627	2-3					
78	" 48250	0-3	0-2.5 H'PAN 2.5-3.0 clay + silt/clay/sh.			357	628	2-3					
79	" 48200	0-4	0-3.5 H'PAN/cgl. 3.5-4 yellow sh/sh.			361	629	2-3					
1780	" 48150	0-3	0-2 Red H'PAN 2-3 yellow clay/silt.			364	309 630	2-2					
81	" 48100	0-3	0-1 P. brn. soil gravel 1-2 Red H'PAN 2-3 silt + clay			367	631	1-2					
82	" 48050N	0-4	0-3 Red H'PAN 3-4 wh. clay + silt sh.			371	632	2-3					
83	" 48000N	0-3	0-2.5 H'PAN 2.5-4 yellow clay sh.			374	633	2-3					
84	" 47950N	0-4	0-3 Red H'PAN 3-4 silt. clay sh.			378	634	2-3					
1785	" 47900N	0-3	0-2.5 silt, H'PAN 2.5-3 clay			381	309 635	1-2					
86	" 47850	0-3	0-2 H'PAN 2-3 clay/silt.			384	636	1-2					
87	" 47795	0-3	SHAD BDC 0.6m from 2 H'PAN 2-3 wh. silt sh/clay			387	637	1-2					

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH
EAST BLOCK

LOGGED: W. GIFFORD

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1788	10,000E / 47750N	0-3	0-2 M'PAN 2-3 wh. clay.			390	309 638	1-2						
89	" 47700N	0-4	0-3.5 M'PAN 3.5 wh. clay			394	639	2-3						
1790	" 47650N	0-4	0-3.5 M'PAN cgc. 3.5 wh. clay.			398	309 640	3-4						
91	" 47600	0-3	0-2 M'PAN 2-3 wh + Brn. clays			401	641	1-2						
92	" 47550N	0-3	0-3 M'PAN - cgc. wh. plastic clay @ base			404	642	2-3						
93	" 47500N	0-3	0-2 Red M'PAN cgc. 2-3 wh. clay + silty Brn. sh. frags			407	643	1-2						
94	" 47450N	0-3	0-2.5 Red M'PAN cgc. 2-3 wh. clay, silty sh. + r/o.g.			410	644	2-2.5						
1795	" 47400N	0-5	0-4 M'PAN - cgc. 4-5 clump, silty shale + silty			415	309 645	3-4						
96	" 47350N	0-3	0-2 Red M'PAN cgc. 2-3 yellow clay + water born pebbles			418	646	2-3						
1797	10000E 47300N	0-2	0-1 Red M'PAN 1-2 yellow clay + pebbles			420	647	1-2						
1798	99600E / 47600N	0-5	PHONE LINE 0-4 M'PAN cgc. 4-5 clays			425	648	3-4						
99	" 47650N	0-5	0-3 Red M'PAN cgc. 3-4 yellow cgc. clay 4-5 wh. clay			430	649	3-4						
1800	" 47700N	0-4	0-3 Red M'PAN cgc. 3-4 yellow cgc. + wh. clay.			434	309 650	2-3						
01	" 47750N	0-5	0-3 Red M'PAN cgc. 3-4 red clays 4-5 wh. clay + silty clay/sst			439	651	2-3						
02	" 47800N	0-4	0-3 Red M'PAN 3-4 wh. silty clay			443	652	2-3						
03	" 47850N	0-4	0-3 Red M'PAN 3-4 wh. silty clay			447	653	2-3						
04	" 47900N	0-4	0-3 Red M'PAN + cgc. 3-4 wh. + red clays			451	654	2-3						
1805	" 47950N	0-5	0-3.5 clay + gravel			456	309 655	3-3.5						
06	" 48000N	0-3	0-2.2 clay + gravel			459	656	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLAND SOUTH

EAST BLOCK

LOGGED: W. GIFFORD

DATE: JULY 26/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
26 1807	99600E/48050N	0-3	Base of soil/gravel 1.8m. ^{clay} ↓ 0.5m/2st			462	309 657	1-2						
08	" 48100N	0-3	" 1.5m. "			465	658	1-2						
09	" 48150N	0-3	" 2m. "			468	659	1-2						
1810	" 48200N	0-4	" 2.5m. "			471	309 660	1-2						
11	" 48250N	0-3	" 2.5m. "			475	661	1-2						
12	" 48300	0-3	" 1.5m. "			478	662	1-2						
13	" 48350N	0-3	" 1.5m. "			480	663	1-2						
14	" 48400N	0-3	" 2m. "			484	664	1-2						
1815	" 48450N	0-3	" 2.2m. "			487	309 665	1-2						
16	" 48500N	0-2	" 1.2m. "			489	666	0.5-1						
17	" 48550N	0-4	" 3.5m. "			493	667	2-3						
18	" 48600N	0-3	" 2.5m. "			496	668	2-2.5						
19	" 48650N	0-4	" 3m. "			500	669	1-2						
1820	" 48700N	0-3	" 1.5m. "			503	309 670	1-2						
21	" 48750N	0-2	" 1m. "			505	671	0-1						
22	" 48800N	0-3	" 1.5m. "			508	672	1-2						
23	" 48850N	0-3	" 2m. "			511	673	1-2						
24	" 48900N	0-2	o/c. no gravel.			513	674	1-2						
1825	99600E/48950N	0-2	" "			515	309 675	0-1						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: W. GIFFORD

DATE: July 26 / 1993 EAST BLOCK.

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1826	99600E / 49000N	0-3	B.L. Base of soil/gravel 2.5m. ^{Clay} _{OKSH-250}			518	309 676	2-2.5						
	99400E / 49000N		B.L. NOT drilled - creek bed.											
1827	99400E / 48950N	0-3	2m. "			521	677	1-2						
28	" 48950	0-3	" 2.5m. "			524	678	2-2.5						
29	" 48850	0-3	" 2.2m. "			527	679	1-2						
1830	" 48800	0-2	" 1.5m. "			529	309 680	1-1.5						
31	" 48750	0-3	" 2m. "			532	681	1-2						
32	" 48700	0-3	" 1.5m. "			535	682	1-2						
33	" 48650	0-3	" 2.2m. "			538	683	1-2						
34	" 48600	0-3	" 2m. "			541	684	1-2						
1835	" 48550	0-2	" 1.5m. "			543	309 685	1-1.5						
36	" 48500	0-3	" 2m. "			546	686	1-2						
37	" 48450	0-2.5	" 2.5m. "			549.5	687	1-2						
38	" 48400	0-4	" 3.2 "			552.5	688	2-3						
39	" 48350	0-5	" 3.5 "			557.5	689	3-4						
1840	" 48300	0-4	" 3m. "			561.5	309 690	2-3						
41	" 48250	0-3	" 2m. "			564.5	691	1-2						
42	" 48200	0-3	" 2m. "			567.5	692	1-2						
1843	" 48150	0-3	" 1.5m. "			570.5	693	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: _____

DATE: July 26/1993 EAST BLOCK

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1844	99,400E/48100N	0-2.5	BASE OF SAND/GRANUL. CLAY + 1.5 M. PL. 2ST.			573	309 694	1-2						
45	" 48050N	0-3	2m			576	695	1-2						
46	" 48000N	0-3	1.5m.			579	696	1-2						
47	" 47950N	0-4	3m			583	697	2-3						
48	" 47900N	0-4	3.5m.			587	698	3-4						
49	" 47850N	0-4	3m.			591	699	2-3						
1850	" 47800N	0-4	4m.			595	309 700	2-3						
51	" 47750N	0-5	2.5			600	701	2-3						
52	" 47700N	0-4	3m.			604	702	2-3						
53	" 47650N	0-3	2.5m.			607	703	1-2						
54	99,200E/47750N	0-3	2.5m.			610	704	2-3						
1855	" 47800N	0-4	2m.			614	705	3-4						
56	" 47850N	0-3	2.5m. high qb			617	706	1-2						
57	" 47900N	0-3	2.5m.			620	707	2-2.5						
58	" 47950N	0-4	3.5m.			624	708	3-4						
59	" 48000N	0-4	2.5m.			628	709	2-3						
1860	" 48050N	0-3	2.5m.			631	309 710	2-2.5						
61	" 48100N	0-3	2.5m.			634	711	2-3						
62	" 48150N	0-3	2.5m.			637	712	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH
EAST BLOCK

LOGGED: _____

DATE: July 1993
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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1863	99200E/48200N	0-2	Base of sand 6.1m to 1.8m clay + ox. Sech.			639	309 713	1-1.5						
64	" 48250N	0-5	4.5			644	714	3-4						
1865	" 48300	0-3	2.2			647	715	1-2						
66	" 48350	0-3	2			650	716	1-2						
26 67	" 48400	0-3	1.5			653	717	1-2						
27 68	" 48450	0-3	2.2			656	718	1-2						
69	" 48500	0-3	1.2			659	719	1-5						
1870	" 48550N	0-4	3.5			663	309 720	2-3						
71	" 48600	0-3	2.5			666	721	2-2.5						
72	" 48650	0-3	2.5			669	722	1-2						
73	" 48700	0-5	3m			674	723	2-3						
74	" 48750N	0-3	2.8m			677	724	2-3						
1875	" 48800N	0-3	2.2m			680	725	1-2						
76	" 48850	0-4	2m			684	726	1-2						
77	" 48900N	0-3	2.2			687	727	1-2						
78	" 48950N	0-3	1.5			690	728	1-2						
79	" 49000N	0-3	2.5			693	729	2-3						
80	99,000E/49000N	0-3	2.5			696	730	1-2						
1881	" 48950N	0-3	2.2			699	309 731	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH
EAST BLOCK

LOGGED: _____

DATE: July 27/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1882	99,000E/48900N	0-5	68% OF GRAVEL 4m OF SANDY clay			704	309 732	3-4						
83	" 48850	0-3	2m			707	733	2-3						
84	" 48800	0-3	1.5			710	734	1-2						
1885	" 48750	0-3	1.5			713	735	1-2						
86	" 48700	0-2	1.5			715	736	1-2						
87	" 48650	0-2	1			717	737	0.5-1						
88	" 48600	0-3	1.5			720	738	1-2						
89	" 48550	0-4	1.5			724	739	1-2						
1890	" 48500	0-2.5	1.5			726.5	309 740	1-2						
91	" 48450	0-2.5	1.5			729	741	1-2						
92	" 48400	0-3	1.5			732	742	1-2						
93	" 48350	0-2	1.5			734	743	1-2						
94	" 48300	0-3	1.2			737	744	1-2						
1895	" 48250	0-3	1.5			740	745	1-2						
96	" 48200	0-3	1.5			743	746	1-2						
97	" 48150	0-5	4.2			748	747	3-4						
98	" 48100	0-4	2.5 2st + 4th			752	748	3-4						
99	" 48050	0-5	2			757	749	1-2						
1900	" 48000	0-5	3.5			762	309 750	3-4						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH
EAST BLOCK

LOGGED: _____

DATE: July 27/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1901	99800E/48300N	0-3	Base of gravel 2.5 clay + ss			765	309 751	1-2						
2	" 48350N	0-4	3.5			769	752	2-3						
3	" 48400N	0-3	1.5			772	753	1-2						
4	" 48450N	0-3	2.5			775	754	1-2						
1905	" 48500N	0-2	1			777	755	0.5-1						
6	" 48550N	0-2	1.5			779	756	1-1.5						
7	" 48600N	0-2	1			781	757	0.5-1						
8	" 48650N	0-3	2.5			784	758	1-2						
9	" 48700N	0-3	2.5			787	759	1-2						
1910	" 48750N	0-3	2.5			790	309 760	1-2						
11	" 48800N	0-2	1.5			792	761	1-1.5						
12	" 48850N	0-3	1.8			795	762	1-2						
13	" 48900N	0-3	1.5			798	763	1-1.5						
14	" 48950N	0-2	1.5			800	764	1-1.5						
1915	" 49000N	0-2	1.8			802	765	1-1.5						
16	99600E/49000N	0-3	2.7			805	766	1-2						
17	" 48950N	0-3	2.2			808	767	1-2						
18	" 48900N	0-3	2.5			811	768	1-2						
1919	" 48850N	0-3	2.5			814	769	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

EAST BLOCK

LOGGED: _____

DATE: July 27/1993

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814

HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1920	98600E/48800N	0-3	BASE OF GRAVEL 2m. CLAY OF. Lm.			817	309 770	1-2						
21	" 48750	0-3	2			820	771	1-2						
22	" 48700	0-4	2.2			824	772	1-2						
23	" 48650	0-3	1.4			827	773	1-2						
24	" 48600	0-3	2.			830	774	1-2						
1925	" 48050N	0-3	2.5			833	775	1-2						
26	" 48000	0-4	3			837	776	1-2						
27	" 47950	0-3	2			840	777	1-2						
28	" 47900	0-4	3.5			844	778	2-3						
29	" 47850	0-4	3			848	779	2-3						
1930	47800	0-4	3			852	309 780	2-3						
31	47750	0-4	2.5			856	781	2-3						
32	47700	0-4	3.8			860	782	3-4						
33	47650	0-5	4			865	783	3-4						
34	47600	0-5	4.2			870	784	3-4						
1935	47550	0-5	4			875	785	3-4						
36	47500	0-5	5+ Silica too hard to drill			880	786	4-5						
37	47450	0-6	5.1			886	787	4-5						
1938	47400	0-5	4.5			891	309 788	4-4.5						

RAB GEOLOGICAL & SAMPLE LOG

GRID: ORLANDO SOUTH

LOGGED: _____

DATE: July 27/28/1993 EAST BLOCK

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
27 1939	98600E / 47350	0-5	BASE OF CHANNEL 3.8 CLAY + or sands			896	309 789							
28 40	98800E / 47450	0-5	4			901	790							
41	" 47500	0-5	3.5			906	791							
42	" 47550	0-7	6.1			913	792							
43	" 47600	0-7	4			920	793							
44	" 47650	0-5	3.5			925	794							
1945	98800E / 47700	0-6	5			931	795	4-5						
46	98600E / 47300	0-5	4.3			936	796	3-4						
47	98800E / 47400	0-5	4			941	797	3-4						
48	" 43350N	0-4	3			945	798	2-3						
49	" 43300N	0-5	3.5			950	799	2-3						
1950	99000E / 47400N	0-3.5	2.5			953.5	309 800	1-2						
51	" 47350N	0-4	3			957.5	801	2-3						
1952	" 47300N	0-4.5	3			962	802	2-3						
	END OF	PROGRAM.												

RAB GEOLOGICAL & SAMPLE LOG

GRID: QUEEN OF SHEBA

LOGGED: _____

DATE: July 29/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1953	6100N/9500E	0-7	<i>Basal. L. M. G. 1-7. clay or 2st. + minor g/b</i>			7	309 803	0-1						
54	9450E	0-2	1 <i>purple clay</i>			9	804	0-1						
1955	9400E	0-1.5	1 "			10.5	805	0-1						
56	9350E	0-3	3 <i>-high g/b. grey 2st. + minor g/b</i>			13.5	806	2-3						
57	9300E	0-2	1.5 "			15.5	807	0-1						
58	9250E	0-3	1.5 "			18.5	808	0-1						
59	9200	0-1	1 <i>clay</i>			19.5	809	0-1						
1960	9150	0-2	1 <i>of grey 2st.</i>			21.5	309 810	0-1						
61	9100	0-3	1 <i>clay or 2st.</i>			24.5	811	0-1						
62	9050	0-2	1 "			26.5	812	0-1						
1963	9000E	0-2	<1 <i>purple near 2st.</i>			28.5	813	0-1						
1964	5900N/9000E	0-3	<0.5 <i>clay + v. g/b ~50%</i>			31.5	814	2-3						
65	9050E	0-3	2 <i>clay or 2st.</i>			34.5	309 815	1-2						
66	9100	0-1	1			35.5	816	0-1						
67	9150	0-3	7.5 <i>purple 2st.</i>			38.5	817	2-3						
68	9200	0-3	1.5 <i>grey 2st.</i>			41.5	818	1-2						
69	9250	0-2.5	.5 <i>+ sp. g/b grey 2st</i>			44	819	1-2						
70	9300	0-2	0.2 <i>clay + g/b + near 2st</i>			46	820	0-1						
71	9350	0-1	1 "			47	821	0-1						

RAB GEOLOGICAL & SAMPLE LOG

 GRID: QUEEN OF SHEBA.

 LOGGED: W. GIFFORD

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1972	5900N/9400E	0-1	barrel spec. c clay + ox. 2st. + 9			48	309 822	0-1						
73	" 9450	0-3	0-1.5 " + 9.			51	823	1-2						
74	" 9500N	0-3	.2 "			54	824	0-1						
75	5700N/9500E	0-2	shale g/b + clay			56	825	0-2						
76	" 9450	0-1	hard sh. s/c.			57	826	0-1						
77	" 9400	0-2	purple sh. 2st. + g/b			59	827	0-1						
78	" 9350	0-1	Red Silice shale + g/b vn.			60	828	0-1						
79	" 9300	0-3	purple silice 2st. + g/b			63	829	1-2						
80	" 9250	0-4	2-5 "			67	309 830	1-2						
81	" 9200	0-2	1 "			69	831	0-1						
82	" 9150	0-3	1-5 " + 2st sh. + clay			72	832	0-1						
83	" 9100	0-3	0-2 H'pan. c clay + 2st.			75	833	1-2						
84	" 9050	0-2	1.5 " " + 2st. hard clay			77	834	0-1						
1985	" 9000E	0-3	0-1 H'pan. 1-2 gravel. 2st. + g/b 2-3 c clay			80	835	1-2						
86	5500N/9000E	0-2	0-1 " " + 2st. 1-2 "			82	836	1-2						
87	" 9050	0-5	0-1 H'pan. 1-2 clay/shale. pale clay 2st. + g/b			87	837	1-2						
88	9100	0-2	0-1 H'pan. 1-1.5 gravel. c clay/2st.			89	838	1-2						
89	9150	0-2	auth.			91	839	1-2						
1990	9200	0-2	0-1.5 clay H'pan. + 5 clay			93	840	1-2						

RAB GEOLOGICAL & SAMPLE LOG

GRID: QUEEN OF SHEBA

LOGGED: _____

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
1991	5500N / 9250E	0-3	0-1 M'Paw Yellow 1-2 Red gravel with clay or sil.			96.	309 841	1-2						
92	9300	0-3	clitto			99	842	1-2						
93	9350	0-2	0-1.5 clay gravel. 1/2 clay			101	843	1-2						
94	9400	0-5	blue sand clay & gravel sil. sh.			106	844	1-2						
95	9450	0-2	M'Paw 0-1 CLAY & GRAVEL			108	845	0-1						
1996	9500	0-2	M'Paw CLAY & GRAVEL			110	846	1-2						
97	5300 ✓ 9500E	0-2	0-1 M'Paw GRAVEL 1-2 clays			112	847	0-1						
98	9450	0-2	0-1.5 gravel. 1/2 clay			114	848	0-1						
99	9400	0-1				115	849	0-1						
2000	9350	0-2				117	309 850	0-1						
61	9300	0-5	0-1 Sand gravel & 1/2 clay & gravel 2-5 clay - sil. sh.			122	851	1-2						
62	9250	0-2	0-1 Sand gravel. 1-2 grey clay & gravel.			124	852	0-1						
63	9200	0-3	0-2 gravel. 2-3 clay			127	853	1-2						
64	9150	0-1	gravel.			128	854	0-1						
65	9100	0-2	0-1 M'Paw 1-2 Clay & g/l.			130	855	0-1						
66	9050	0-5	0-1 gravel. 1-5 clay or sil.			135	856	0-1						
67	9000E	0-2	0-1.5 gravel.			137	857	0-1						
68	5100N 9000E	0-2	clay.			139	858	0-1						
	9050E	0-2	0-1 gravel 1-2 clays			141	859	0-1						

LAB GEOLOGICAL & SAMPLE LOG

GRID: _____

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
2010	5100N 9100E	0-2	1 sand. 1-2 clay.			143	309 860	0-1						
11	" 9150	0-2	fine gravel. clay. - 1			145	861	0-1						
12	" 9200	0-5	0-1 fine gravel 1-5 clay.			150	862	0-1						
13	" 9250	0-1	gravel 7/8 boulders? etc.			151	863	0-1						
14	" 9300	0-3	gravel - 1.5			154	864	1-1.5						
2015	" 9350	0-1	gravel & clay			155	309 865	0-1						
16	" 9400	0-3	gravel & 2 2+ pink clay			158	866	1-2						
17	" 9450	0-3	1/2 gravel & clay 0-2			161	867	1-2						
18	" 9500E	0-5	0-1.5 clay + gravel. 1 clay.			166	309 868	0-1						
2019	4300N 9400E	0-3	1-1.5 sand 1-1.5 clay. - w/ par 3+			169	869	1-2						
20	" 9450E	0-7	ORANGE SILT - w/ par 0-4.5 br. clay + 1/2 gravel & clay			176	309 870	4-5						
21	" 9500E	0-6	0-5.5 w/ par 6 clay + 2.5 br. - w/ gtz			182	871	4-5						
22	" 9550	0-5	0-4 orange gravel par. 4-5 ps. clay gravel.			187	872	4-5						
23	" 9600	0-6	0-3.5 or. gravel par. 3.5-5.0 775/9 gravel. 5-6 clay			193	873	4-5						
24	" 9650	0-5	0-3 w/ par 3.5-5 clay + gtz			198	874	2-3						
2025	" 9700	0-5	0-4 w/ par 0-5 clay			203	875	3-4						
26	" 9750	0-5	2013			208	876	3-4						
27	" 9800	0-1	0-3.5 w/ par 1 yellow clay			212	877	2-3						
28	" 9850	0-4	0-2.5 w/ par 2-5 clay + silt & clay			216	878	2-3						

RAB GEOLOGICAL & SAMPLE LOG

GRID: QUEEN OF SHEPHERD

LOGGED: _____

DATE: JULY 27/1973
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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As			
2029	4300N/9900E	0-4	0-3 H'PAN cgl. 3-4 clay			220	309 879	2-3					
30	" 9950E	0-3	0-2 H'PAN cgl. 2-3 clay + silty clay			223	880	1-2					
31	" 10,000E	0-3	0-2.1 H'PAN-CGL.			226	881	2-3					
32	" 10,050E	0-3	0-2.5 " " clay 2st. 2-5-7. dense yellow			229	882	2-3					
33	" 10,100E	0-3	0-2 Red H'PAN 2-3 yellow H'PAN			232	883	2-3					
34	" 10,150E	0-4	0-3.5 Red + yellow H'PAN + cgl.			236	884	3-4					
35	" 10,200E	0-3	Hardpan.			239	885	2-3					
36	" 10 240	0-3	Hardpan yellow clay base			242	886	2-3					
2037	" 10 300E	0-4	0-3 yell. ren. h'pan cgl. 3-4 clay + silty clay		*	249	887	3-4					
2038	4100N/10,300E	0-5	0-4.5 H'PAN cgl. 4-5 yellow clay			254	888	3-4					
39	250	0-5	0-4 Red H'PAN cgl. 4-5 yellow clay + silty			259	889	3-4					
40	200	0-4	0-4 Red Hardpan. minor cgl.			263	309 890	1-2					
41	150	0-7	0-4 Hardpan 4-5 cgl. Red. Fst. 5-6 + pale cgl. sh. cgl. ↓ silty clay.			270	891	5-6					
42	100	0-5	0-3 Red Hardpan. silt. 3-4 clay + Red. chert cgl. 4-5 min clay			275	892	2-3					
43	050	0-6	0-4 Red H'PAN. silty cgl. 4-6 clay + Fst. cgl.			281	893	5-6					
44	10,000	0-6	0-4 Red H'PAN cgl. 4-5 yellow clay ex. cgl.			287	894	4-5					
45	9950	0-5	0-3 Red H'PAN. 3-4 pink clay cgl. 4-5 yellow cgl. + clay			292	895	4-5					
46	900	0-5	0-4 Red H'PAN cgl. 4-5 pale clay + minor pebbles			297	896	3-4					
47	9 850	0-5	0-4.5 silty 4-5.5 pale clay + cgl.			302	897	4-5					

RAB GEOLOGICAL & SAMPLE LOG

GRID: QUEEN OF SHEBA

LOGGED: W. GIFFORD

DATE: July 30 / 1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
2048	4100N / 9800E	0-5	0-2 Red brn. sandstone. 2-4 pbrn. cgl. 4-5 high clay. micr cgl.			307	309 898	4-5						
49	" 750	0-4	0-3 Red h'p m cgl. 3-4 clays.			311	899	2-3						
2050	" 750	0-5	0-4 Red cgl-silt. 4-5 yellow clays			316	309 900	3-4						
51	" 650	0-4	0-3.5 Red cgl. 3.5-4.0 clays			320	901	3-4						
52	" 600	0-4	ditto			324	902	3-4						
53	" 550	0-5	0-4 Hard pan cgl. 4-5 pale clays.			329	903	3-4						
54	" 500	0-4	0-4 Hard pan cgl. clay & sand.			333	904	3-4						
55	" 450	0-5	0-4.5 ditto			338	905	4-5						
56	" 9400	0-8.5	0-5.5 Silt/hardpan. micr cgl ↓ siliceous & 5.0- siliceous			344.5	906	4-5						
2057	3900N 9400E	0-3.5	Hardpan cgl. siliceous			347	907	2-3						
58	" 9450	0-5	0-4 Red cgl. H'p m 4-5 clay cgl/s			352	908	3-4						
59	" 9500	0-3.5	0-3.5 ditto + siliceous to hard.			355.5	909	2-3						
60	" 9550	0-4	cgl-silt. ditto			359.5	910	3-4						
61	" 9600	0-4	cgl. silt ↓ 3 clay, siliceous & 4			363.5	911	2-3						
62	" 9650	0-4	ditto			367.5	912	2-3						
63	" 9700	0-4	0-3.5 cgl. silt ↓ clay.			371.5	913	3-4						
64	" 9750	0-4	ditto			375.5	914	3-4						
65	" 9800	0-5	0-4 cgl-silt. 4-5 clays siliceous & 5			380.5	915	3-4						
66	" 9850	0-4	0-3 cgl silt 3-4			384.5	916	2-3						

RAB GEOLOGICAL & SAMPLE LOG

GRID: RM110

LOGGED: W. J. Joffe

DATE: July 30/1993

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
2076	5100E 5000N	0-2	Red soil - 1 wh. clay			2	309 926	0-1						
77	5050	0-1	Soil talus - 9/siliceous st.			3	927	0-1						
78	5100	0-2	soil cemented talus 1-2 clay + fine gravel.			5	928	1-2						
79	5150	0-2.5	0-1.5 gravel. 1.5-2 wh. clay			7.5	929	1-2						
2080	5200	0-1.5	gravel + clay, qtz + siliceous st.			9	930	1-1.5						
81	5250	0-1	gravel + clay.			10	931	0-1						
82	5300	0-2	Purple sh. + wh. clay			12	932	0-1						
83	5350	0-1	clay + purple st.			13	933	0-1						
84	5400	0-1	clay + purple clay			14	934	0-1						
2085	5450	0-1.5	gravel clay. red siliceous clay			15.5	935	0-1						
86	5500	0-1	gravel clay clay base			16.5	936	0-1						
87	5550	0-3	soil / gravel / red clay + silt st chips			19.5	937	1-2						
88	5600	0-2	soil purple clay.			21.5	938	1-2						
89	5650	0-2	soil / gravel. purple clay / fine gravel.			23.5	939	1-2						
90	5700	0-3	0-2 gravel. 2-3 purple silt, qtz + ferr. st.			26.5	940	2-3						
91	5750	0-2	clay, F.C.F. + shale fragments			28.5	941	1-2						
92	5800	0-3	gravel / iron clays + occ. st.			31.5	942	1-2						
93	5850	0-3	clay + gravel + iron purple st / quartz			34.5	943	2-3						
94	5900	0-4	gravel + 2 iron clays			38.5	944	2-3						

RAB GEOLOGICAL & SAMPLE LOG

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38.5

HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As			
2095	5100E/5950N	0-2	Soil/clay purple clay			40.5	309 945	1-2					
30 96	6000N	0-3	0-2 silt. 2-3 very white clay			43.5	946	1-2					
31 2097	5300E/6000N	0-5	0-3.5 Hard pan cgl. 3.5-4.0 grey clays & 1 m. silty clay			48.5	947	3-4					
98	5950	0-5	0-3.5 Hard pan cgl. 3.5-5 yellow clay & silty clay			51.5	948	3-4					
99	5900	0-4	with			55.5	949	3-4					
2100	5850	0-3	0-2.5 hard pan cgl. & yellow clay			58.5	309 950	2-3					
2101	5800	0-5	0-2.5 Hard pan cgl. 2.5-3.5 white clay & cgl. & red clay			63.5	951	2-3					
02	5750	0-4	0-2.5 2.5-3.5 white clay & even red clay			67.5	952	3-4					
03	5700	0-4	0-1 Soil 1-2.5 h'pm cgl. 2.5-4 red. of silty & silty clay			71.5	953	2-3					
04	5650	0-2	cgl. - silty sand too hard			73.5	954	1-2					
05	5600	0-4				75.5	309 955	3-4					
06	5550	0-4				79.5	956	3-4					
07	5500	0 2				83.5	957	1-2					
08	5450	0-2				85.5	958	1-2					
09	5400	0-1				87.5	959	0-1					
2110	5350	0-3				88.5	309 960	2-3					
11	5300	0-2				91.5	961	1-2					
12	5250	0-1				93.5	962	0-1					
2113	5200	0-1				94.5	309 963	0-1					

RAB GEOLOGICAL & SAMPLE LOG

GRID: RHINO

LOGGED: W. J. Hone

DATE: July 31/93

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94.5

HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
2114	5300E/5150N	0-1	Soil/gravel → silty shale etc.			95.5	309 964	0-1						
15	" 5100N	0-2	"			97.5	965	0-1						
16	" 5050N	0-2	"			99.5	966	1-2						
17	" 5000N	0-3	"			102.5	967	2-3						
18	5500E/5000N	0-3	"			105.5	968	2-3						
19	" 5050	0-0.5	" too hard.			106	969	0-0.5						
2120	" 5100	0-1	"			107	309 970	0-1						
21	" 5150	0-3	"			110	971	2-3						
22	" 5200N	0-2	"			112	972	1-2						
23	" 5250	0-1	"			113	973	0-1						
24	" 5300	0-2				115	974	0-1						
25	" 5350	0-4				119	309 975	2-3						
26	" 5400	0-1				120	976	0-1						
27	" 5450	0-3				123	977	2-3						
28	" 5500	0-3.5				126.5	978	2-3						
29	" 5550	0-1				127.5	979	0-1						
2130	" 5600	0-2	Soil + hardpan ↓ 2.5 yellow clay			129.5	980	1-2						
31	" 5650	0-2.5	duff ↓ 2.5 white clay			132	981	1-2						
32	" 5700N	0-3	" ↓ 3.0			135	982	2-3						

RAB GEOLOGICAL & SAMPLE LOG

GRID: RHINO

LOGGED: W. J. J. J.

DATE: July 31/93

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
2133	5500E/5750N	0-3	Soil + handpan ↓ 3.0			138	309 983	2-3						
34	" 5800	0-3				141	984	2-3						
2135	" 5850	0-5				146	309 985	4-5						
36	" 5900	0-3				149	986	2-3						
37	" 5950	0-3				152	987	2-3						
38	" 6000N	0-3				155	988	2-3						
39	5700E/6000N	0-2				157	989	1-2						
2140	" 5950	0-3				160	309 990	2-3						
41	" 5900	0-2				162	991	1-2						
42	" 5850	0-2				162	992	1-2						
43	" 5800	0-3				165	993	2-3						
44	" 5750	0-3				168	994	2-3						
2145	" 5700N	0-5				173	309 995	3-4						
46	" 5650	0-2.5				175.5	996	2-2.5						
47	" 5600	0-4				179.5	997	2.5-3.5						
48	" 5550	0-3				182.5	998	2-3						
49	" 5500	0-3				185.5	999	2-3						
2150	" 5450	0-2				187.5	310 000	1-2						
51	" 5400	0-5				192.5	418 401	4-5						

RAB GEOLOGICAL & SAMPLE LOG

GRID: RHINO

LOGGED: W. Jiffon

DATE: July 31/93

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HOLE NO.	CO-ORDINATES	FROM TO	GEOLOGICAL DESCRIPTION	WATER TABLE DEPTH:	PLOTTING SUMMARY	ACC. TOTAL DEPTH	SAMPLE NO.	INT'VAL	Au	As				
2152	5700E/5350N	0-2				197.5	418 402	1-2						
53	" 5300	0-3				200.5	403	1-2						
54	" 5250	0-3				203.5	404	2-3						
2155	" 5200	0-3				206.5	418 405	2-3						
56	" 5150	0-2.5				209	406 407	1-2 1-2						
57	" 5100	0-1.5				210.5	408	1-1.5						
58	" 5050	0-1				211.5	409	0-1						
59	5700E/5000N	0-2				213.5	410	0-1						
2160	5900E/5000N	0-2				216	418 411	1-2						
61	" 5050	0-2.5				217	412	1-2						
62	" 5100	0-1				218	413	0-1						
63	" 5150	0-1				219	414	0-1						
64	" 5200	0-1				220	415	0-1						
2165	" 5250	0-1				221	418 416	0-1						
66	" 5300	0-3				224	417	2-3						
67	" 5350	0-3				227	418	2-3						
68	" 5400	0-3				230	419	2-3						
69	" 5450	0-4				234	420	2-3						
2170	" 5500	0-4				238	418 421	3-4						



RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION): TENNANT CREEK N.T.

YEAR: JULY 1993

Location ORLANDO SOUTH
WEST BLOCK

Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number										
		North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni									
1	21 15 43	49 000	97 000	10	10	-					1 - 2	307 794	001		13.1														EL
2		44	050	"	4	14	-					1 - 2	795	001		10.2													7325
3		45	100	"	3	17	-					1 - 2	796	001		9.0													
4		46	150	"	2	20	-					1 - 2	797	001		19.4													
5		47	200	"	3	23	-					1 - 2	798	001		24.8													
6		48	250	"	3	26	-					1 - 2	799	001		45.7													
7		49	200	97 200	3	29	-					1 - 2	307 800	001		15.9													
8	15 50	150	"	3	32	-						1 - 2	801	001		19.3													
9		51	100	"	3	35	-					1 - 2	802	001		16.5													
10		52	050	"	3	38	-					1 - 2	803	001		13.6													
11	15 53	49 000	"	3	41	-						1 - 2	804	001		9.2													
12	15 54	49 000	97 400	2	43	-						0.5 - 1.5	805	001		10.7													
13	15 55	050	"	1.5	44.5	-						0.5 - 1.5	806	002		15.5													
14		56	100	"	2	46.5	-					1 - 2	807	001		13.1													
15		57		3	49.5	-						0 - 1	808	001		8.1													
16		58	49 150	97 600	3	52.5	-					1 - 2	809	001		7.8													
17		59	100	"	3	55.5	-					1 - 2	810	001		8.5													
18	15 60	050	"	3	58.5	-						1 - 2	811	001		9.1													
19		61	49 000	"	2.5	61	-					1 - 2	812	001		8.4													
20	15 62	49 000	97 800	3	64	-						1 - 2	813	001		8.4													
21		63	050	"	1	65	-					0 - 1	814	001		10.2													
22		64	100	"	2	67	-					1 - 2	815	001		7.6													
23	15 65	49 000	98 200	2	69	-						1 - 2	816	001		10.5													
24		66	050	"	1	70	-					0 - 1	817	001		33.2													
25		67	100	"	1	71	-					0 - 1	818	001		10.8													
26		68	150	"	1	72	-					0 - 1	819	001		8.2													
27		69	200	"	1	73	-					0 - 1	307 820	001		7.6													
28	15 70	250	"	2	75	-						0 - 1	821	001		9.2													
29		71	300	"	5	80	-					0 - 1	822	001		9.0													
30		72	49 000	98 000	2	82	-					1 - 2	823	001		9.2													

RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

YEAR: July 1993

Location ORLANDO SOUTH.
WEST BLOCK

						82				307 823																				
Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number											
		North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni										
1	21	15	73	49	050	98	000	1	83	-				0-1	307	824	001		10.2											
2			74		100		"	1	84	-				0-1		825	001		13.6											
3		15	75		150	-		2	86	-				0-1		826	001		9.6											
4			76	49	250	97	800	2	88	-				0-1		827	001		10.9											
5			77		205		"	1	89	-				0-1		828	001		9.3											
6			78		150		"	2	91	-				0-1		829	001		10.0											
7			79	49	200	97	600	2	93	-				0-1	307	830	001		7.1											
8		15	80		250		"	2	95	-				1-2		831	001		12.3											
9			81		300		"	3	98	-				1-2		832	003		17.1											
10			82		350		"	5	103	-				1-2		833	001		7.0											
11			83	49	400	97	400	3	106	-				1-2		834	001		10.7											
12			84		350		"	3	109	-				1-2	307	835	001		10.0											
13		15	85		300		"	3	112	-				1-2		836	001		10.3											
14			86		250		"	3	115	-				1-2		837	001		6.2											
15			87		200		"	3	118	-				1-2		838	001		10.0											
16			88	49	250	97	200	2	120	-				1-2		839	001		36.0											
17			89		300		"	2	122	-				0-1	307	840	001		17.1											
18		15	90		355		"	3	125	-				1-2		841	001		11.6											
19			91		400		"	3	128	-				1-2		842	002		13.3											
20			92		450		"	3	131	-				1-2		843	003		32.8											
21			93	49	500	97	000	3	134	-				1-2		844	003		21.9											
22			94		450		"	3	137	-				2-3	307	845	002		55.2											
23		15	95		400		"	3	140	-				1-2		846	003		93.5											
24			96		350		"	3	143	-				1-2		847	004		21.5											
25			97		300		"	3	146	-				1-2		848	002		42.6											
26			98	49	200	98	000	3	149	-				1-2		849	001		8.4											
27			99		250		"	3	152	-				1-2	307	850	001		12.1											
28		16	00		300		"	3	155	-				1-2		851	001		6.8											
29			01	49	300	97	800	3	158	-				1-2		852	001		6.5											
30			02		350		"	3	161	-				0-1		853	001		11.0											



RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

YEAR:

Location ORLANDO SOUTH.

WEST BLOCK

	Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock Type	Note	Tenement Number
			North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co	ppm Ni		
	21	16 03	49 400	97 800	2	163	-			0-1	307 854	001		12.1					41	
	2	21 04	450	"	3	166	-			1-2	855	001		10.4					41	
21	3	21 05	500	"	3	169	-			1-2	856	001		120.5					2	
22	4	22 06	49 650	97 600	5	174	-			1-2	857	007		14.4					1	
	5	07	600	"	3	177	-			1-2	858	003		14.1					41	
	6	08	550	"	5	182	2-5	433 010	001 11.3	1-2	859	001		21.2					41	
	7	09	500	"	3	185	-			1-2	307 860	001		13.3					41	
	8	16 10	450	"	3	188	-			1-2	861	001		27.4					41	
	9	11	400	97 600	3	191	-			1-2	862	001		7.7					41	
	10	16 12	49 450	97 400	3	194	-			1-2	863	001		10.4					41	
	11	13	500	"	3	197	-			1-2	864	001		11.4					41	
	12	14	550	"	3	200	-			1-2	307 865	003		31.2					41	
	13	15	600	"	6	206	-			1-2	866	005		30.1					7	
	14	16	650	"	3	209	-			1-2	867	005		33.2					5	
	15	17	700	"	5	214	2-5	433 011	002 11.7	1-2	868	001		28.7					5	
	16	18	750	"	3	217	-			1-2	869	001		19.1					6	
	17	19	800	"	5	222	-			2-3	307 870	001		17.6					41	
	18	16 20	49 800	97 200	5	227	1-3	433 012	001 21.9	3-4	871	001		53.7					20	
	19	21	750	"	6	232	4-6	433 013	001 137.6	3-4	872	001		37.8					9	
	20	22	700	"	4	236	-			2-3	873	001		18.9					3	
	21	23	650	"	3	239	-			2-3	874	001		18.8					2	
	22	24	600	"	5	244	-			3-4	307 875	001		27.1					11	
	23	16 25	550	"	4	248	-			2-3	876	002		29.0					3	
	24	26	500	"	4	252	-			2-3	877	002		8.5					41	
	25	16 27	49 550	97 000	5	257	-			2-3	878	002		32.8					5	
	26	28	600	"	5	262	1-4	433 014	003 29.2	4-5	879	003		27.0					6	
	27	29	650	"	5	267	-			2-3	307 880	002		18.5					2	
	28	16 30	700	"	5	272	-			2-3	881	002		28.6					4	
	29	31	750	"	4	276	3-4	433 015	001 27.0	2-3	882	001		26.8					4	
	30	22 32	800	"	7	283	-			5-6	883	002		42.2					24	

		283																				
Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock GT	Note	Tenement Number			
		North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni		
1	16 33	49 850	97 000	5	288	-			Au	0	2-3		884	001		22.3				41		
2	34	900	"	5	293	3-5	433	016	001	17.3	2-3		985	001		17.8				41		
3	16 35	950	"	4	297	-					2-3		886	001		26.9				41		
4	36	50 000	"	8	305	-					1-2		887	001		16.6				5		
5	37	50 050	"	3	308	-					1-2	307	888	004		13.9				8		
6						-					-											
7						-					-											
8						-					-											
9						-					-											
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					308																	

RAB / AIR CORE DRILLING SUMMARY
 AREA / JV (OPTION): TENNANT CREEK N.T.
 YEAR: _____

Location ORLANDO NORTH. ✓

	Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number	
			North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni
1	22/6	38	2 000	2 000	11	11	-				1-2	307 889	< 001		4.3				<1		EL.
2		39	050	"	3	14	-			AU CU	1-2	890	< 001		4.1				<1		7325
3		40	100	"	5	19	2-5	433 017	< 001	3.1	1-2	891	< 001		5.5				<1		
4		41	150	"	3	22	-				1-2	892	< 001		3.4				<1		
5		42	200	"	3	25	2-7	018	< 001	5.0	1-2	893	< 001		6.3				<1		
6		43	2 250	"	7	32	-				1-2	894	< 001		4.2				<1		
7		44	2 250	18 00	3	35	-				1-2	307 895	< 001		9.0				<1		
8	16	45	200	"	4	39	-				2-3	896	< 001		5.3				<1		
9		46	150	"	4	43	-				1-2	897	< 001		10.1				<1		
10		47	100	"	3	46	-				1-2	898	< 001		8.6				<1		
11		48	050	"	3	49	-				0-1	899	< 001		6.9				<1		
12		49	2 000	"	2	51	-				0-1	307 900	< 001		4.8				<1		
13	16	50	2 000	16 00	3	54	-				0-1	901	< 001		8.2				<1		
14		51	050	"	3	57	-				1-2	902	< 001		14.9				<1		
15		52	100	"	4	61	2-4	433 019	< 001	11.2	1-2	903	< 001		12.4				<1		
16		53	150	"	3	64	-				1-2	904	< 001		9.1				<1		
17		54	200	"	2.5	66.5	-				1-2	905	< 001		11.0				<1		
18	16	55	2 250	"	3	69.5	-				1-2	906	< 001		12.3				<1		
19		56	2 250	14 00	5	74.5	1-5	433 020	< 001	5.3	0-1	907	< 001		8.3				1		
20		57	200	"	1	75.5	-				N.S	N.S	-								
21		58	200	"	5	80.5	-				1-2	908	< 001		7.8				<1	Redrill	
22		59	150	"	3	83.5	-				1-2	909	< 001		14.0				<1		
23	16	60	100	"	5	88.5	2-5	433 021	< 001	10.5	1-2	307 910	< 001		9.4				<1		
24		61	050	"	4	92.5	-				1-2	911	< 001		7.7				<1		
25		62	2 000	"	3	95.5	-				1-2	912	< 001		8.4				2		
26		63	2 000	12 00	5	100.5	-				1-2	913	< 001		10.5				<1		
27		64	050	"	3	103.5	-				2-3	914	< 001		8.0				<1		
28		65	100	"	4	107.5	-				1-2	307 915	< 001		10.2				<1		
29		66	150	"	3	110.5	-				2-3	916	< 002		26.4				7		
30		67	200	"	4	114.5	-				1-2	917	< 001		12.2				<1		

BS IS FINAL

AREA / JV (OPTION): _____

YEAR: July 22 1993

Location ORLANDO NORTH

[illegible]



RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

YEAR: July 1993

Location ORLANDO SOUTH

EAST BLOCK

		126-5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

YEAR: July 25/1993

Location ORLANDO SOUTH
EAST BLOCK

236

Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

Location

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ASARCO AUSTRALIA LTD



Page 5 of 10

RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

YEAR: July 25/26/93

Location ORLANDO SOUTH

EAST BLOCK

	Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number
			North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co	ppm Ni		
	25	17	95	47 400	100 600	5	415	-		3-4	309 645	<0.001		9.9					<1	EL
	2	"	96	350	"	3	418	-		2-3	646	<0.001		6.0					<1	7325
	3	"	17	97	300	"	2	420	-	1-2	647	<0.001		1.9					<1	
	4	"	98	47 600	99 600	5	425	-		3-4	648	<0.001		9.1					<1	
	5	"	99	47 650	"	5	430	-		3-4	649	<0.001		11.1					<1	
	6	"	18	000	700	"	4	434	-	2-7	309 650	<0.001		8.5					<1	
	7	"	01	750	"	5	439	-		2-3	651	<0.001		12.0					<1	
	8	"	02	800	"	4	443	-		2-3	652	<0.001		8.5					<1	
	9	"	03	850	"	4	447	-		2-3	653	<0.001		10.4					<1	
25	10	"	04	900	"	4	451	-		2-3	654	<0.001		10.9					<1	
26	11	"	18	05	950	"	5	456	-	3-3.5	309 655	<0.001		8.2					<1	
	12	"	06	48 000	"	3	459	-		1-2	656	<0.001		10.0					<1	
	13	"	07	050	"	3	462	-		1-2	657	<0.001		11.1					<1	
	14	"	08	100	"	3	465	-		1-2	658	<0.001		13.1					<1	
	15	"	09	150	"	3	468	-		1-2	659	<0.001		10.8					<1	
	16	"	18	10	200	"	4	472	-	1-2	309 660	<0.001		8.8					<1	
	17	"	11	250	"	3	475	-		1-2	661	<0.001		8.5					<1	
	18	"	12	300	"	3	478	-		1-2	662	<0.001		9.3					<1	
	19	"	13	350	"	3	481	-		1-2	663	<0.001		12.3					<1	
	20	"	14	400	"	3	484	-		1-2	664	<0.001		13.4					<1	
	21	"	18	15	450	"	3	487	-	1-2	309 665	<0.001		10.3					<1	
	22	"	16	500	"	2	489	-		0.5-1.0	666	<0.001		9.6					<1	
	23	"	17	550	"	4	493	-		2-3	667	<0.001		9.7					<1	
	24	"	18	600	"	3	496	-		2-2.5	668	<0.001		8.7					<1	
	25	"	19	650	"	4	500	-		1-2	669	<0.001		8.8					<1	
	26	"	18	20	700	"	3	503	-	1-2	309 670	<0.001		7.1					<1	
	27	"	21	750	"	2	505	-		0-1	671	<0.001		10.7					<1	
	28	"	22	800	"	3	508	-		1-2	672	<0.001		11.1					<1	
	29	"	23	850	"	3	511	-		1-2	673	<0.001		8.5					<1	
	30	"	18	24	48 900	"	2	513	-	1-2	309 674	<0.001		5.6					<1	



RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

YEAR: July 26/1993Location ORLANDO SOUTHEAST BLOCK

	Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE									Rock	Note	Tenement Number
			North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co	ppm Ni			
1	26	18 25	49 950	99 600	2	515	-			0-1	309 675	<0.001		7.5					<1		BL
2		26	49 000	"	3	518	-			2-2.5	676	<0.001		8.9					<1		7325
3		27	49 950	99 400	3	521	-			1-2	677	<0.001		7.6					<1		
4		28	900	"	3	524	-			2-2.5	678	<0.001		8.7					<1		
5		29	850	"	3	527	-			1-2	679	<0.001		13.0					<1		
6	18	30	800	"	2	529	-			1-1.5	680	<0.001		7.3					<1		
7		31	750	"	3	532	-			1-2	681	<0.001		14.6					<1		
8		32	700	"	3	535	-			1-2	682	<0.001		8.6					<1		
9		33	650	"	3	538	-			1-2	683	<0.001		8.1					<1		
10		34	600	"	3	541	-			1-2	684	0.001		9.1					<1		
11	18	35	550	"	2	543	-			1-1.5	309 685	<0.001		8.9					<1		
12		36	500	"	3	546	-			1-2	686	<0.001		13.8					<1		
13		37	450	"	2.5	548.5	-			1-2	687	<0.001		13.0					<1		
14		38	400	"	4	552.5	-			2-3	688	0.004		11.4					2		
15		39	350	"	5	557.5	-			3-4	689	<0.001		9.9					<1		
16	18	40	300	"	4	561.5	-			2-3	309 690	0.006		9.8					<1		
17		41	250	"	3	564.5	-			1-2	691	<0.001		11.4					<1		
18		42	200	"	3	567.5	-			1-2	692	<0.001		12.6					<1		
19		43	150	"	3	570.5	-			1-2	693	0.00		11.9					<1		
20		44	100	"	2.5	573	-			1-2	694	<0.001		10.2					<1		
21	18	45	050	"	3	576	-			1-2	695	0.001		10.6					<1		
22		46	48 000	"	3	579	-			1-2	696	<0.001		13.0					<1		
23		47	47 950	"	4	583	-			2-3	697	<0.001		12.1					<1		
24		48	900	"	4	587	-			3-4	698	0.001		16.0					<1		
25		49	850	"	4	591	-			2-3	699	0.001		15.1					<1		
26	18	50	800	"	4	595	-			2-3	309 700	0.001		15.6					<1		
27		51	750	"	5	600	-			2-3	701	0.001		11.6					<1		
28		52	700	"	4	604	-			2-3	702	0.001		16.1					<1		
29		53	650	"	3	607	-			1-2	703	<0.001		13.0					<1		
30	18	54	47 750	99 200	3	610	-			2-3	309 704	0.001		12.1					<1		



RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

YEAR: JULY 1993Location ORLANDO SOUTH
EAST BLOCK

		610																			
Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number		
		North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni	
1	26 18 55	47 800	99 200	4	614	-				3-4	309 705	<0.001		10.4					<1		EL
2	56	850	"	3	617	-				1-2	706	<0.001		15.4					<1		7325
3	57	900	"	3	620	-				2-2.5	707	<0.001		10.6					<1		
4	58	950	"	4	624	-				3-4	708	<0.001		12.4					<1		
5	59	48 000	"	4	628	-				2-3	709	<0.001		8.3					<1		
6	18 60	050	"	3	631	-				2-2.5	309 710	0.001		11.2					<1		
7	61	100	"	3	634	-				2-3	711	<0.001		9.8					<1		
8	62	150	"	3	637	-				1-2	712	<0.001		8.6					<1		
9	63	200	"	2	639	-				1-1.5	713	<0.001		15.0					<1		
10	64	250	"	5	644	-				3-4	714	<0.001		11.7					<1		
11	65	300	"	3	647	-				1-2	309 715	<0.001		9.4					<1		
12	66	350	"	3	650	-				1-2	716	<0.001		7.4					<1		
26 13	26 18 67	400	"	3	653	-				1-2	717	0.001		8.5					<1		
27 14	27 68	450	"	3	656	-				1-2	718	<0.001		8.7					<1		
15	69	500	"	3	659	-				1-5	719	<0.001		8.0					<1		
16	18 70	550	"	4	663	-				2-3	309 720	<0.001		7.9					<1		
17	71	600	"	3	666	-				2-2.5	721	<0.001		9.8					<1		
18	72	650	"	3	669	-			As ∞	1-2	722	<0.001		8.9					<1		
19	73	700	"	5	674	3-5	433 026	<0.001	7.1	2-3	723	<0.001		8.2					<1		
20	74	750	"	3	677	-				2-3	724	<0.001		7.4					<1		
21	18 75	800	"	3	680	-				1-2	309 725	<0.001		7.4					<1		
22	76	850	"	4	684	2-5	433 027	0.001	4.8	1-2	726	<0.001		8.2					<1		
23	77	900	"	3	687	-				1-2	727	<0.001		9.0					<1		
24	78	950	"	3	690	-				1-2	728	<0.001		6.4					<1		
25	79	49 000	"	3	693	-				2-3	729	<0.001		4.5					<1		
26	18 80	49 000	99 000	3	696	-				1-2	309 730	0.001		7.6					<1		
27	81	49 950	"	3	699	-				1-2	731	<0.001		9.6					<1		
28	82	900	"	5	704	-				3-4	732	<0.001		6.0					<1		
29	83	850	"	3	707	-				2-3	733	<0.001		5.0					<1		
30	18 84	800	"	3	710	-				1-2	309 734	<0.001		7.5					<1		



RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION): TENNANT CREEK N.T.

YEAR: JULY 1993

Location ORLANDO SOUTH
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RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION): TENNANT CREEK N.T.

YEAR: JULY 27 1993

28

Location ORLANDO SOUTH-
EAST BLOCK

		28		890				309 764												
Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number	
		North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni
1	27 19 15	49 000	98 800	2	802	-				1-1.5	309 765	<.001		9.0				<1		
2	16	49 000	98 600	3	805	-				1-2	766	<.001		10.2				<1		
3	17	48 950	"	3	808	-				1-2	767	<.001		10.0				<1		
4	18	900	"	3	811	-				1-2	768	<.001		8.5				<1		
5	19	850	"	3	814	-				1-2	769	<.001		7.5				<1		
6	19 20	800	"	3	817	-				1-2	770	<.001		8.4				<1		
7	21	750	"	3	820	-			AN 20	1-2	771	<.001		7.3				<1		
8	22	700	"	4	824	2-4	433 030	001 7.1		1-2	772	<.001		6.4				<1		
9	23	650	"	3	827	-				1-2	773	<.001		7.0				<1		
10	19 24	600	"	3	830	-				1-2	774	<.001		6.8				<1		
11	19 25	48 050	"	3	833	-				1-2	309 775	<.001		10.1				<1		
12	26	48 000	"	4	837	2-4	433 031	001 8.4		1-2	776	<.001		10.8				<1		
13	27	47 950	"	3	840	-				1-2	777	<.001		10.6				<1		
14	28	900	"	4	844	-				2-3	778	<.001		10.8				<1		
15	29	850	"	4	848	-				2-3	779	<.001		12.5				<1		
16	30	800	"	4	852	-				2-3	780	<.001		12.0				<1		
17	31	750	"	4	856	-				2-3	781	<.001		14.2				<1		
18	32	700	"	4	860	-				3-4	782	<.001		14.4				<1		
19	33	650	"	5	863	-				3-4	783	0.002		12.8				<1		
20	34	600	"	5	870	-				3-4	784	<.001		12.6				<1		
21	35	550	"	5	875	-				3-4	785	<.001		13.6				<1		
22	36	500	"	5	880	-				4-5	786	<.001		12.9				<1		
23	37	450	"	6	886	-				4-5	787	<.001		10.4				<1		
24	38	400	"	5	891	-				4-4.5	788	<.001		9.8				<1		
27 25	19 39	350	"	5	896	-				3-4	789	<.001		11.6				<1		
28 26	19 40	47 450	98 800	5	901	-				3-4	309 790	<.001		13.4				<1		
27	41	500	"	5	906	-				2-3	791	<.001		11.3				<1		
28	42	550	"	7	913	-				5-6	792	<.001		7.9				<1		
29	43	600	"	7	920	4-7	433 032	001 8.2		3-4	793	<.001		11.5				<1		
30	19 44	650	"	5	925	-				3-3.5	309 794	<.001		10.8				<1		

RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION): TENNANT CREEK N.T.

YEAR: July 28 / 1993

Location ORLANDO SOUTH
EAST BLOCK

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RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION): TENNANT CREEK N.T.

YEAR: JULY 29/1993

Location QUEEN OF SHEBA

	Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number	
			North	East			From-To (m)	Number	ppm Au	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni
1	29/19	53	61 00	9 500	7	7	1-7	433 033	1001 7.3	0-1	309 803	40 001		20.4					<1		EL
2		54		9 450	2	9	-			0-1	804	40 001		11.5					<1		7181
3		55		400	1.5	10.5	-			0-1	805	40 001		12.2					<1		
4		56		350	3	13.5	-			2-3	806	40 001		12.2					<1		
5		57		300	2	15.5	-			0-1	807	40 001		8.6					<1		
6		58		250	3	18.5	-			0-1	808	40 001		18.7					<1		
7		59		200	1	19.5	-			0-1	809	40 001		15.9					<1		
8	19	60		150	2	21.5	-			0-1	309 810	0.002		11.2					<1		
9		61		100	3	24.5	1-3	433 039	1001 11.9	0-1	811	40 001		8.7					<1		
10		62		050	2	26.5	-			0-1	812	40 001		7.6					<1		
11		63		000	2	28.5	-			0-1	813	40 001		4.7					<1		
12	19	64	5 900	9 000	3	31.5	0-2	433 035	1001 14.6	2-3	814	40 001		10.0					<1		
13		65		050	3	34.5	-			1-2	309 815	0.001		9.5					<1		
14		66		100	1	35.5	-			0-1	816	0.001		11.9					<1		
15		67		150	3	38.5	-			2-3	817	40 001		7.9					<1		
16		68		200	3	41.5	-			1-2	818	0.001		7.8					<1		
17		69		250	2.5	44	-			1-2	819	40 001		7.7					<1		
18	19	70		300	2	46	-			0-1	309 820	40 001		8.6					<1		
19		71		350	1	47	-			0-1	821	0.001		10.6					<1		
20		72		400	1	48	-			0-1	822	40 001		9.8					<1		
21		73		450	3	51	-			1-2	823	40 001		13.8					<1		
22		74		500	3	54	1-3	036	1001 6.2	0-1	824	40 001		8.9					<1		
23	19	75	5 700	9 500	2	56	-			0-1	825	40 001		7.9					<1		
24		76		450	1	57	-			0-1	826	40 001		13.9					<1		
25		77		400	2	59	-			0-1	827	40 001		21.3					<1		
26		78		350	1	60	-			0-1	828	40 001		11.2					<1		
27		79		300	3	63	-			1-2	829	40 001		13.7					<1		
28	19	80		250	4	67	2-4	037	003 11.5	1-2	830	40 001		9.8					<1		
29		81		200	2	69	-			0-1	831	0.001		14.3					<1		
30	19	82		150	3	72	-			0-1	832	40 001		11.8					<1		

RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

Location

YEAR:

Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE				BEDROCK SAMPLE								Rock	Note	Tenement Number			
		North	East			From-To (m)	Number	ppm Au	ppm Ag	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni		
1	19 83	5 700	9 100	3	75	-						1-2	309 933	<	001		11.5				<1		EL 7/81
2	84		050	2	77	-						1-1	834	<	001		14.0				<1		
3	19 85		000	3	80	-						1-2	835	0	001		11.0				<1		
4	19 86	5 500	9 000	2	82	-						1-2	836	<	001		11.0				<1		
5	87		050	5	87	2-5	433 038	<	001	6.6		1-2	837	<	001		11.9				<1		
6	88		100	2	89	-						1-2	838	<	001		11.6				<1		
7	89		150	2	91	-						1-2	839	<	001		13.4				<1		
8	19 90		200	2	93	-						1-2	309 840	<	001		14.3				<1		
9	91		250	3	96	-						1-2	841	<	001		9.7				<1		
10	92		300	3	99	-						1-2	842	<	001		13.4				<1		
11	93		350	2	101	-						1-2	843	<	001		9.7				<1		
12	94		400	3	106	2-5	433 039	<	001	6.5		1-2	844	<	001		9.4				<1		
13	95		450	2	108	-						0-1	309 845	<	001		15.7				<1		
14	19 96		9 500	2	110	-						1-2	846	<	001		9.9				<1		
15	19 97	5 300	9 500	2	112	-						0-1	847	<	001		9.3				<1		
16	98		450	2	114	-						0-1	848	<	001		10.0				<1		
17	99		400	1	116	-						0-1	849	<	001		11.3				<1		
18	2 000		350	2	118	-						0-1	309 850	<	001		9.3				<1		
19	01		300	5	123	2-5	433 040	<	001	4.8		1-2	851	<	001		5.3				<1		
20	02		250	2	126	-						0-1	852	<	001		10.4				<1		
21	03		200	3	129	-						1-2	853	<	001		4.5				<1		
22	04		150	1	130	-						0-1	854	<	001		10.7				<1		
23	05		100	2	132	-						0-1	309 855		001		10.6				<1		
24	06		050	5	137	1-5	433 041	<	001	9.6		0-1	856	<	001		10.0				<1		
25	07		9 000	2	139	-						0-1	857	<	001		11.3				<1		
26	08	5 100	9 000	2	141	-						0-1	858		001		10.9				<1		
27	09		050	2	143	-						0-1	859	<	001		9.0				<1		
28	2 010		100	2	145	-						0-1	309 860	<	001		5.7				<1		
29	11		150	2	147	-						0-1	861	<	001		9.0				<1		
30	12		200	5	152	1-5	309 042	<	001	5.2		0-1	862		005		9.2				<1		

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	Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number			
			North	East			From-To (m)	Number	ppm Au ppm Ag ppm Cu	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni		
1	30	20	76	5 000	5 100	2	2	-				0-1	309 926		001		7.9				41		EL
2			77	050	"	1	3	-				0-1	927		002		9.4				41		718'
3			78	100	"	2	5	-				1-2	928		004		9.2				41		
4			79	150	"	2.5	7.5	-				1-2	929	L	001		9.6				41		
5	20	80	200	"	"	1.5	9	-				1-1.5	930	L	001		13.5				41		
6			81	250	"	1	10	-				0-1	931	L	001		8.9				41		
7			82	300	"	2	12	-				0-1	932	L	001		7.0				41		
8			83	350	"	1	13	-				0-1	933	L	001		10.5				41		
9			84	400	"	1	14	-				0-1	934	L	001		9.5				41		
10	20	85	450	"	"	1.5	15.5	-				0-1	935	L	001		34.6				41		
11			86	500	"	1	16.5	-				0-1	936	L	001		14.1				41		
12			87	550	"	3	19.5	-				1-2	937	L	001		9.6				41		
13			88	600	"	2	21.5	-				1-2	938	L	001		8.8				41		
14			89	650	"	2	23.5	-				1-2	939	L	001		9.9				41		
15	20	90	700	"	"	3	26.5	0-2	433 053	L 001	8.1	2-3	940	L	001		7.0				41		
16			91	750	"	2	28.5	-				1-2	941		006		9.5				41		
17			92	800	"	3	31.5	-				1-2	942	L	001		6.1				41		
18			93	850	"	3	34.5	-				2-3	943	L	001		10.2				41		
19			94	900	"	4	38.5	0-2	433 054	L 001	8.1	2-3	944	L	001		6.1				41		
20			95	950	"	2	40.5	-				1-2	945	L	001		11.9				41		
30 21	20	96	6 000	"	"	3	43.5	-				1-2	946	L	001		64.1				41		
31 22			97	6 000	5 300	5	48.5	0.5-3	443 055	L 001	12.4	3-4	947	L	001		12.0				41		
23			98	5 950	"	5	51.5	-				3-4	948	L	001		15.2				41		
24			99	900	"	4	55.5	-				3-4	949	L	001		14.3				41		
25	21	00	950	"	"	3	58.5	-				2-3	309 950	L	001		20.5				41		
26			01	800	"	5	63.5	3-5	433 056	L 001	10.6	2-3	951	L	001		18.2				41		
27			02	750	"	4	67.5	-				3-4	952	L	001		9.2				2.0		
28			03	700	"	4	71.5	-				2-3	953	L	001		16.5				3.		
29			04	650	"	2	73.5	-				1-2	954	L	001		15.2				4.		
30	21	05	600	"	"	4	77.5	-				3-4	955	L	001		12.9				3.		

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YEAR:

Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE								Rock	Note	Tenement Number					
		North	East			From-To (m)	Number	ppm Au ppm As ppm Cu	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co				ppm Ni				
1	21 06	5	550	5	300	4	77.5	-				3-4	309 956	6	001		9.9					2		
2	07		500		"	2	79.5	-				1-2	957		001		10.9					41		
3	08		450		"	2	81.5	-				1-2	958	4	001		10.4					41		
4	09		400		"	1	82.5	-				0-1	959		001		16.6					41		
5	21 10		350		"	3	85.5	-				2-3	309 960	4	001		7.4					41		
6	11		300		"	2	87.5	-				1-2	961		001		9.6					41		
7	12		250		"	1	88.5	-				0-1	962		001		12.0					41		
8	13		200		"	1	89.5	-				0-1	963	4	001		12.7					41		
9	14		150		"	1	90.5	-				0-1	964		001		9.3					41		
10	15		100		"	2	92.5	-				0-1	965		001		17.1					41		
11	16		050		"	2	94.5	-				1-2	966		003		20.2					1		
12	17	5	000	5	300	3	97.5	-				2-3	967	4	001		11.2					1		
13	18	5	000	5	500	3	100.5	-				2-3	968	4	001		17.4					41		
14	19		050		"	0.5	101	-				0-0.5	969	4	001		17.4					2		
15	21 20		100		"	1	102	-				0-1	309 970		002		21.9					1		
16	21		150		"	3	105	-				2-3	971		001		13.6					41		
17	22		200		"	2	107	-				1-2	972		001		8.4					41		
18	23		250		"	1	108	-				0-1	973		001		8.4					41		
19	24		300		"	2	110	-				0-1	974		001		12.9					41		
20	25		350		"	4	114	-				2-3	975		001		6.7					41		
21	26		400		"	1	115	-				0-1	976		002		11.9					41		
22	27		450		"	3	118	-				2-3	977		001		10.8					41		
23	28		500		"	3.5	121.5	-				2-3	978		001		6.5					41		
24	29		550		"	1	122.5	-				0-2	309 979		001		9.0					41		
25	21 30	5	600		"	2	124.5	-				1-2	980		001		6.2					41		
26	31		650		"	2.5	127	-				1-2	981		001		10.9					41		
27	32	5	700		"	3	130	-				2-3	982		001		9.0					41		
28	33		750		"	3	133	-				2-3	983		001		16.0					41		
29	34		800		"	3	136	0-4	437	657	<001	13.7	2-3	984	4	001		17.0				41		
30	35		850		"	5	141	-				4-5	985	4	001		14.1					41		



RAB / AIR CORE DRILLING SUMMARY

AREA / JV (OPTION):

Location RHINO GRID.

YEAR:

						141						785														Rock BE	Note	Tenement Number
Date	Hole Number	CO-ORDINATES		Depth (m)	Cumul Total	COMPOSITE SAMPLE			BEDROCK SAMPLE																			
		North	East			From-To (m)	Number	ppm Au	ppm Cu	From-To (m)	Number	ppm Au	ppm As	ppm Cu	ppm Pb	ppm Zn	ppm Co	ppm Ni										
1	21	36	5 900	5 500	3	144	-					2-3	309	986	001		14.1											
2		37	6 950	"	3	147	-					2-3		987	001		14.5											
3		38	6 000	5 500	2	149	-					1-2		988	001		13.3											
4		39	6 000	5 700	3	152	-					2-3		989	001		9.2											
5		40	950	"	2	154	-					1-2		990	001		10.6											
6		41	900	"	2	156	-					1-2		991	001		12.7											
7		42	850	"	3	159	0-2	433	058	001	12.2	2-3		992	001		11.1											
8		43	800	"	3	162	-					2-3		993	001		14.0											
9		44	750	"	5	167	-					3-4	309	994	001		12.3											
10		45	700	"	2.5	169.5	-					2-2.5		995	001		7.9											
11		46	650	"	4	173.5	-					2.5-3.5		996	001		10.1											
12		47	600	"	3	176.5	-					2-3		997	001		7.8											
13		48	550	"	3	179.5	-					2-3	309	998	001		11.8											
14		49	500	"	2	181.5	-					1-2	310	999	001		10.0											
15	21	50	450	"	5	186.5	0-4	433	059	001	7.6	4-5	310	000	001		12.9											
16		51	400	"	2	188.5	-					1-2	418	401	001		6.7											
17		52	350	"	3	191.5	-					1-2		402	001		12.6											
18		53	300	"	3	194.5	-					2-3		403	001		12.9											
19		54	250	"	3	197.5	-					1-2	418	404	001		10.1											
20		55	200	"	2.5	200	-					1-2		405	015		15.6											
21		56	150	"	1.5	201.5	-					1-1.5		406	001		12.0											
22		57	100	"	1	202.5	-					0-1		408	001		5.8											
23		58	050	5 700	2	204.5	1-2	433	060	001	9.3	0-1		409	001		12.4											
24		59	5 000	5 900	2.0	206.5	-					1-2	411	410	001		11.8											
25		60	5 000	5 900	2.5	209	-					1-2		414	001		11.6											
26		61	050	"	1	210	-					0-1		412	001		11.5											
27		62	180	"	1	211	-					0-1		413	001		7.5											
28		63	250	"	1	212	-					0-1		414	001		8.7											
29		64	280	"	1	213	-					0-1		415	001		9.9											
30		65	250	"	1	214	-					-	418	416	001		11.6											

AREA / JV (OPTION):

Page 4 of 4

Location RMINO GRID.

[illegible]

APPENDIX 2

RECONNAISSANCE SAMPLING SUMMARY

ASARCO AUSTRALIA LTD.

AREA / J.V. (OPTION): TENNAM CREEK. MARION Co

SHEET 1 OF 2

YEAR: SEPT. 1993.

AERIAL PHOTO DETAILS						SAMPLE DETAILS						ASSAY DETAILS						
DATE	RUN / NUMBER					SCALE	TENEMENT / NAME GRID CO-ORDINATES	SAMPLE BY:	SAMPLE TYPE	ROCKTYPE / DESCRIPTION	SAMPLE No.	LOCAL	ppm Au	ppm As	ppm Cu	ppm Zn	ppm	ppm
		I	II	III	IV													
		I	II	III	IV													
						1:10,000	EL. 7181 / Rhino	Wf.	Rock.	brecc. sediment	417954		—		9	—		
							" "		"	Lev. gneiss.	955		—		6	—		
							" "		"	9/12 - FeOx	956		—		4	—		
							" "		"	Feov. breccia	957		0.011		9	—		

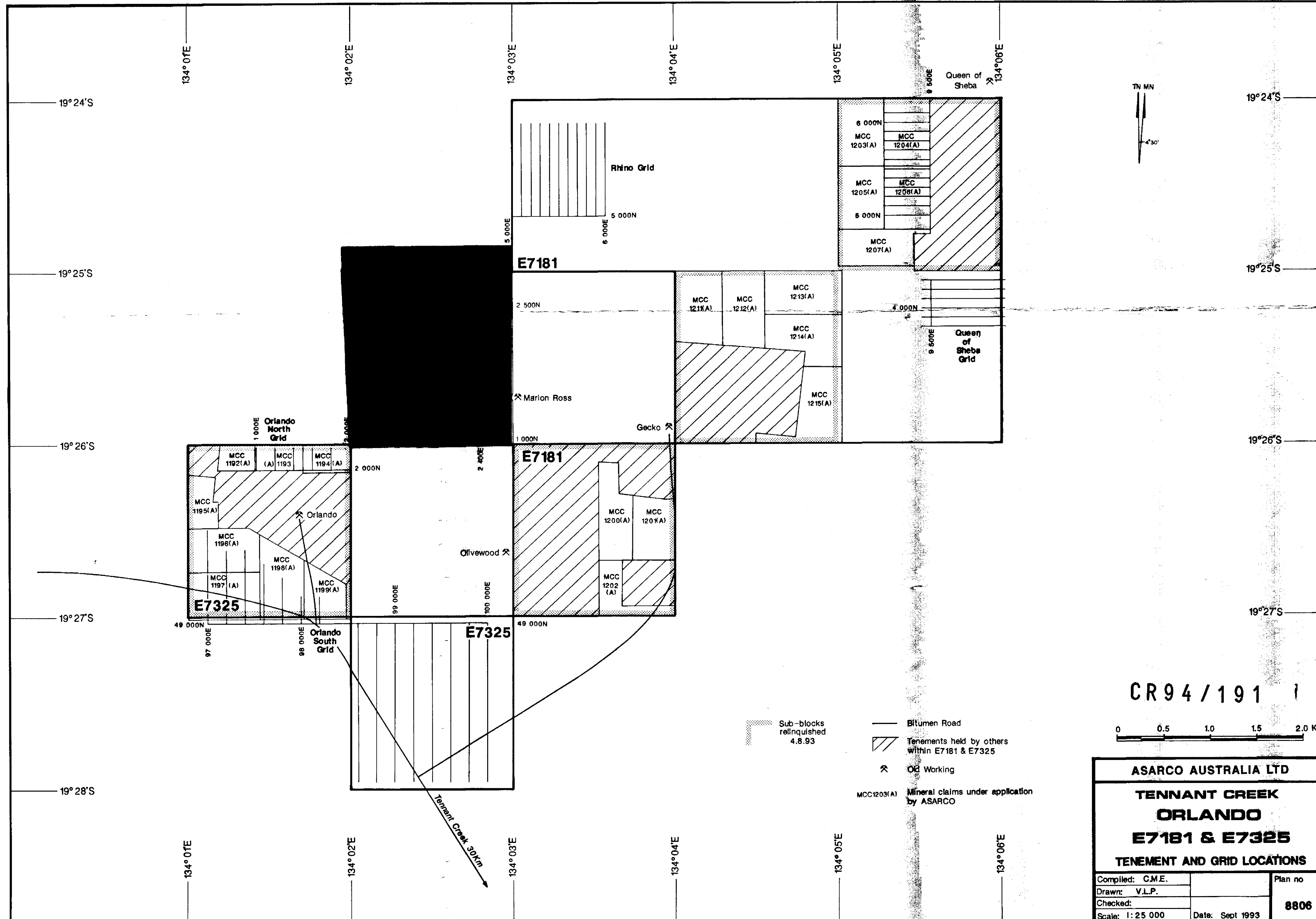
RECONNAISSANCE SAMPLING SUMMARY

ASARCO AUSTRALIA LTD.

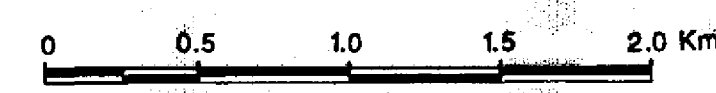
AREA / J.V. (OPTION): T.C. MARION ROSS
ORLANDO SOUTH.
GREY BLUFF

SHEET 2 OF 2

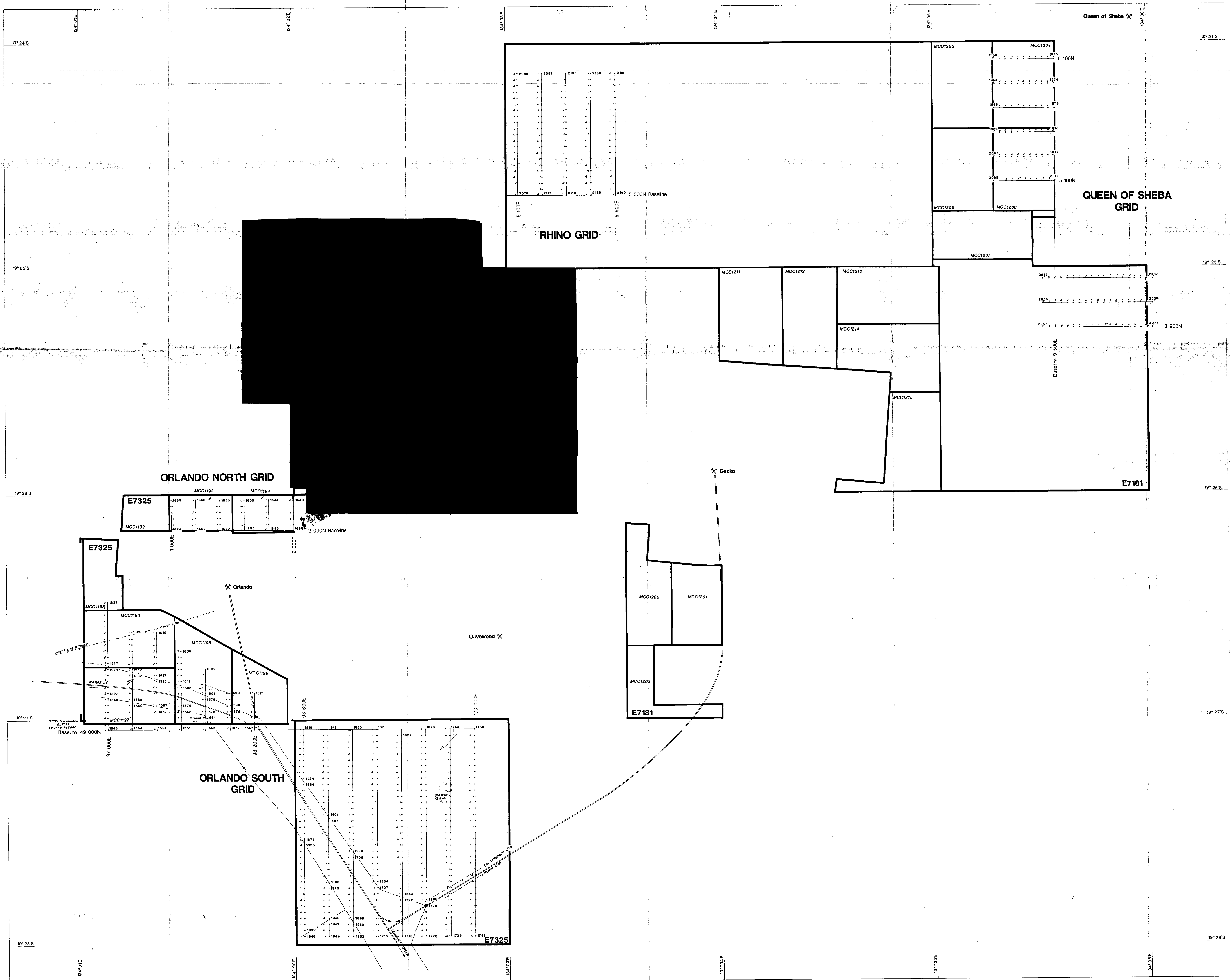
AERIAL PHOTO DETAILS				SAMPLE DETAILS						ASSAY DETAILS							
DATE	RUN / NUMBER	I	II	SCALE	TENEMENT / NAME GRID CO-ORDINATES	SAMPLE BY:	SAMPLE TYPE	ROCKTYPE / DESCRIPTION	SAMPLE No.	LOCAL	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		III	IV								Au	As	Cu	Bi			
		I	II	III	IV												
	EL 7325				ORLANDO SW 9700E/48800N HOLE # 1632	/	VAC CUTTINGS	6-7m SILICA EST.	985		—		170	59			
	"				ORLANDO SE 99800E/48900N 7325	.	Rock	Low silica shale	986		—		156	11			



CR94/191 1



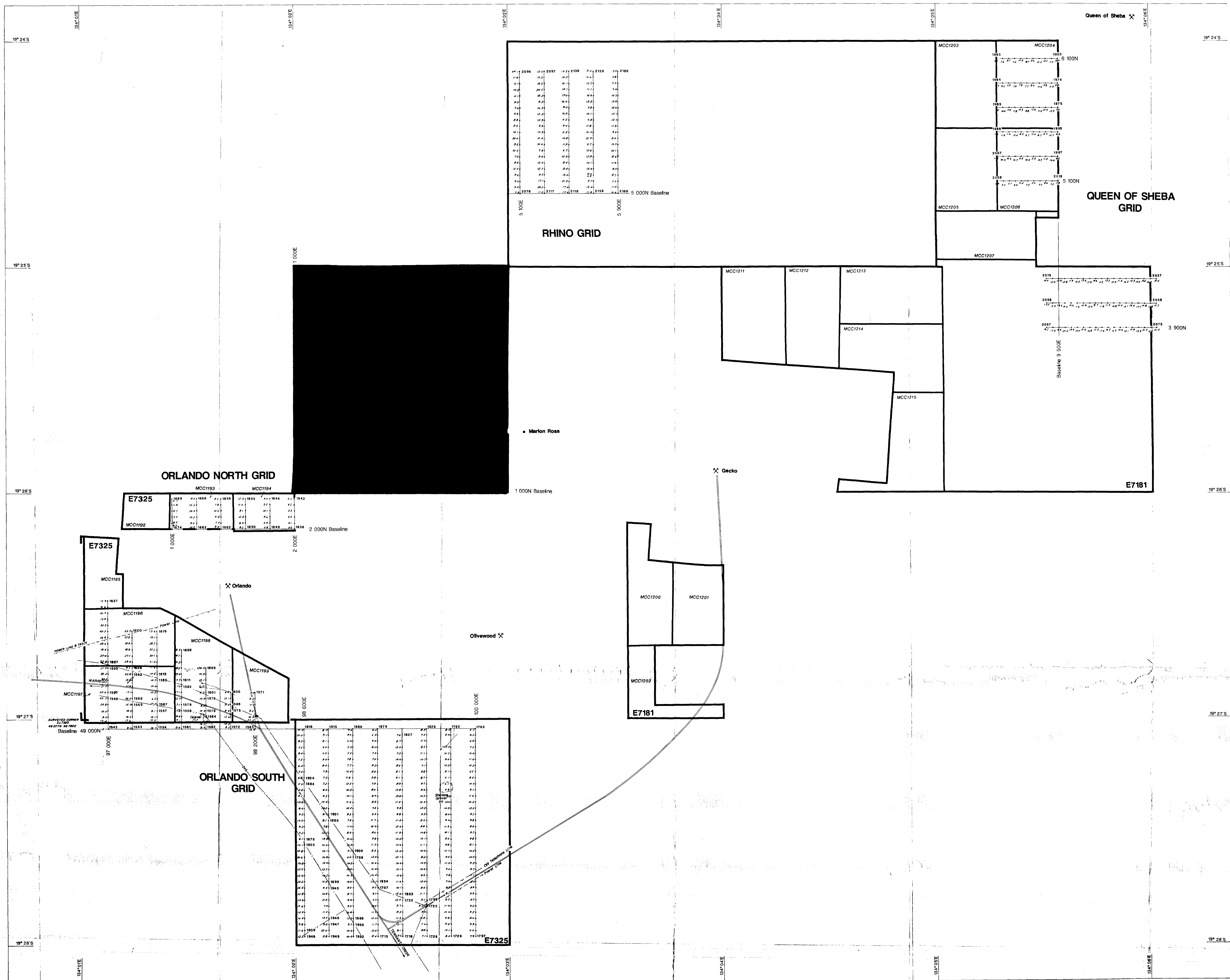
ASARCO AUSTRALIA LTD		
TENNANT CREEK		
ORLANDO		
E7181 & E7325		
TENEMENT AND GRID LOCATIONS		
Compiled: C.M.E.		Plan no 8806
Drawn: V.L.P.		
Checked:		
Scale: 1:25 000	Date: Sept 1993	



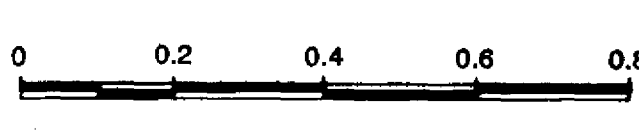
CR94/191

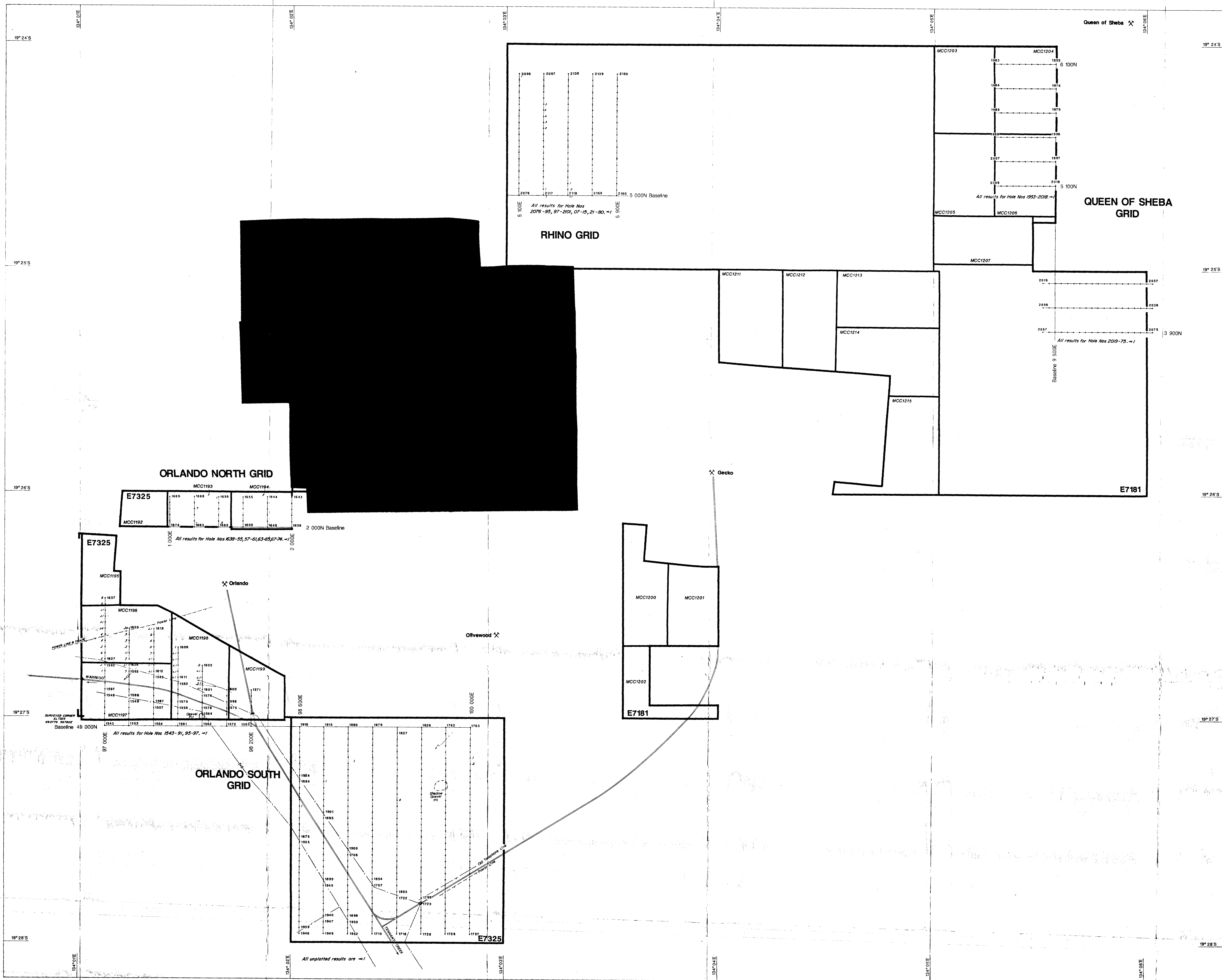
0 0.2 0.4 0.6 0.8 Km

ABARCO AUSTRALIA LTD	
TENNANT CREEK	
ORLANDO / MARION ROSS	
VACUUM DRILLING	
Au ppb	
Compiled : W.Gifford	PLAN No.
Drawn : E.M.S./V.L.P.	
Checked :	
Scale : 1:10 000	Date : Oct. 1993
	8808 A



CR94/191





ORLANDO NORTH GRID

RHINO GRID

QUEEN OF SHEBA GRID

ORLANDO SOUTH GRID

CR94/191

0 0.2 0.4 0.6 0.8 km

ASARCO AUSTRALIA LTD

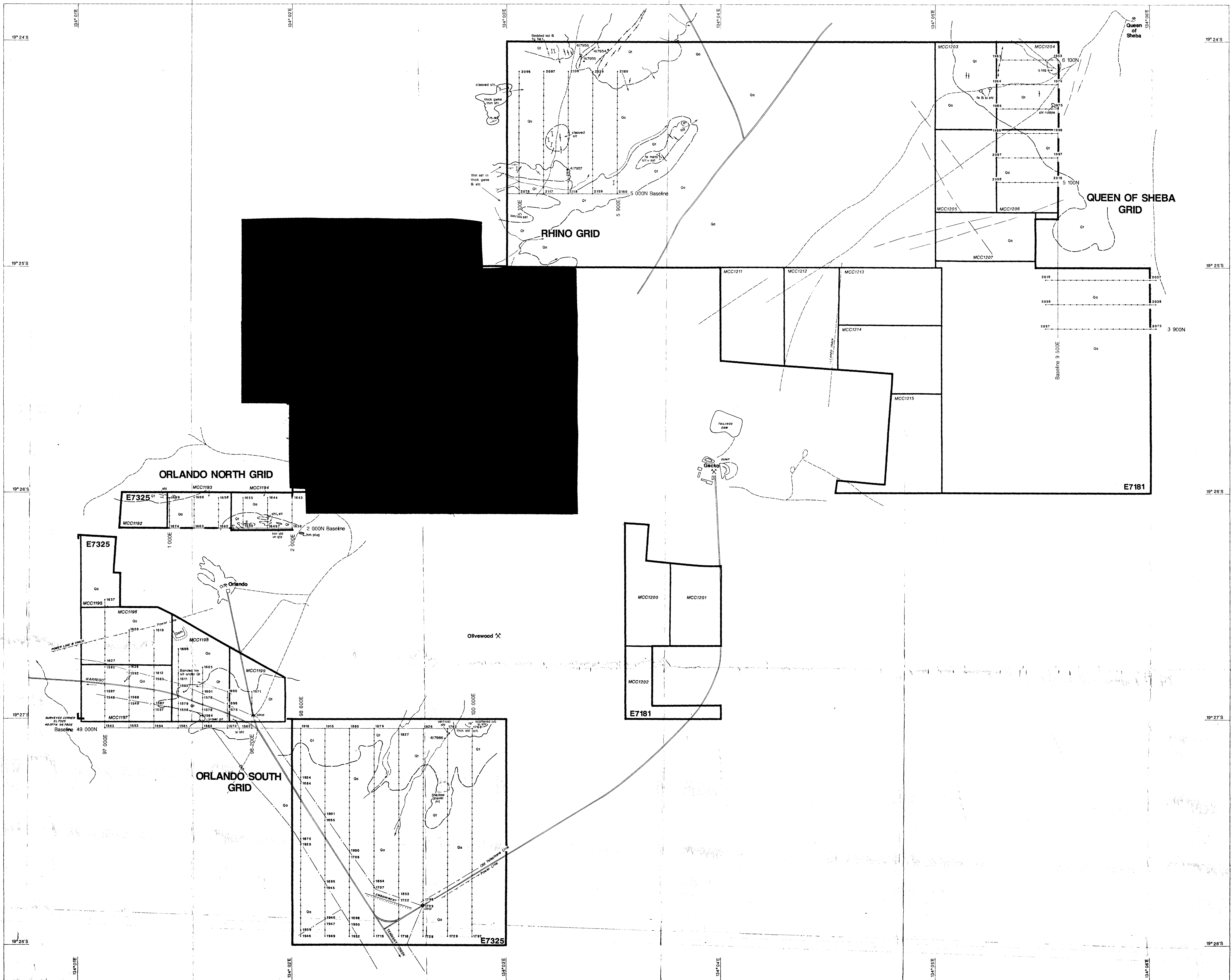
TENNANT CREEK

ORLANDO / MARION ROSS

VACUUM DRILLING

Bl ppm

Compiled: W. Gifford	PLAN No.
Drawn: E.M.S./V.L.P.	
Checked: E.M.S./V.L.P.	
Scale: 1:10 000	Date: Oct. 1993
	8808 C



- | | |
|--------|--|
| Qt | Elluvium + talus lag with sparse outcrop |
| Qa | Alluvium |
| ca | carbonate |
| cc | calcareous |
| ch | chert |
| cong | conglomerate |
| exfol | exfoliation |
| fel t | felsic tuff |
| fg | ferrogneous |
| goss | gossan |
| gwke | greywacke |
| hm | hematite |
| j | jasper-jaspilite |
| lam | laminated |
| q | quartz |
| shl | shale |
| si | silicified |
| slt | siltstone |
| sst | sandstone |
| tb | turbidite |
| o/c | outcrop |
| fg | fine grained |
| mass | massive |
| — | quartz vein |
| — | quartz hematitic vein |
| — | hematite body |
| — | Dip + strike |
| — | Inclined foliation |
| — | Cleavage, vertical inclined |
| — | Fault or shear |
| — | Anticline |
| — | Syncline |
| — | Geological boundary |
| — | Airphoto lineaments |
| — | Road |
| — | Track |
| — | Drainage |
| — | Vacuum drilling holes |
| 417986 | Rock sample |

CR94/191 1

0 0.2 0.4 0.6 0.8 Km

GEOLOGY DRAWN FROM
APPROX. 1:10 000 AIRPHOTO SCALE

ASARCO AUSTRALIA LTD

TENNANT CREEK

ORLANDO / MARION ROSS

GEOLOGY

Compiled: W. Gifford

Drawn: V.L.P.

Checked: 1:10 000 Date: Sept 1993

Scale: 1:10 000 Date: Sept 1993

PLAN No.

8808/6