HOLE NO. : GP-90-14
SECTION : 2354.00 EAST

PLUTONIC OPERATIONS LIMITED
GOWRIE PARK

DIAMOND DRILL RECORD

Northing	: 4938.00	Drill Type	:
Easting	: 2354.00	Core Size	:
Grid	: FIRE TOWER	Contractor	:N Poltock
Direction	: Grid South		
Inclination	: -60.0	Dip Tests	Method:
Elevation	: 9885.00	Depth Az Dip	
Azimuth	: 180.0	32.3 180.0 -60.0	
Mag Azimuth	:		
Length (m)	: 32.30		
Precol. (m)	: 3.50 m		
BOCO	: <3.50 m		
TFR	: 3.50 m		
Water Table	:		

Property	: FIRE TOWER
State	: Tasmania
GMR	: GOG 4440
E.L. No.	: GOWRIE PARK
Project No.	: 706
Date Started	:
Date Completed	:
Logged by	: G. MacDONALD
Relogged by	:
Date Logged	: May '92
Interpreted	: G. MacDONALD
Initialled	:

From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Width (m)	Au (ppm)
.00	3.50	PRECOLLAR					
3.50	16.15	VOLCANICLASTIC					
		QUARTZ LITHIC VOLCANICLASTIC, SERICITIC. Generally beige green, occasionally darker green, and occasionally orange brown where strongly oxidised, medium grained to coarse grained (up to 8mm), massive, predominantly sub - angular to sub - rounded quartz rich, occasionally with lithics, volcaniclastic. The rock is predominantly silica sericite and carbonate altered with very occasional minor moderately chloritic patches. The rock is variably oxidised throughout being weak to moderately oxidised to 13.65 and strongly oxidised to 16.15. The rock is moderately quartz carbonate haematite veined throughout with veining generally at 50 to 80 degrees to the core axis, occasional manganese staining of fractures and some brick red alteration. The rock contains negligible sulphides.	SN0001	3.50	4.00	.50	.09
			SN0002	4.00	5.00	1.00	.26
			SN0003	5.00	6.00	1.00	.60
			SN0004	6.00	7.00	1.00	.30
			SN0005	7.00	8.00	1.00	.28
			SN0006	8.00	9.00	1.00	.17
			SN0007	9.00	10.00	1.00	1.19
			SN0008	10.00	11.00	1.00	.26
			SN0009	11.00	12.00	1.00	.06
			SN0010	12.00	13.00	1.00	.20
			SN0011	13.00	14.00	1.00	1.32
			SN0012	14.00	15.00	1.00	.47
			SN0013	15.00	16.00	1.00	.41
			SN0014	16.00	17.00	1.00	<.01
		3.50 7.10 As above but orange brown to beige green and carbonate altered, generally medium grained occasionally coarse grained (to 3 mm), moderately sub - angular quartz rich volcaniclastic with very occasional dark grey fine grained lithics weak to moderately quartz carbonate haematite veined, moderately oxidised. The rock contains minor chlorite veins at 70 degrees to the core axis from 6.80 to 7.10.					
		7.10 7.70 As above with occasional patches of diffuse brick red alteration and carbonate alteration in very fine veins throughout. Rock is silica sericite and carbonate altered throughout with medium grained to coarse grained (up to 8 mm) sub - rounded to sub - angular quartz. The rock contains minor chlorite veining.					
		7.70 7.80 As above but strongly chlorite altered.					
		7.80 10.45 As above but generally beige green, occasionally orange brown medium grained to coarse grained (up to 5 mm) sub - rounded to moderately sub - angular quartz rich					

From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Width (m)	Au (ppm)
		volcaniclastic. With very occasional dark grey fine grained lithics. Rock is silica sericite and carbonate altered throughout with moderate manganese staining throughout. Occasional quartz carbonate haematite veins are generally at 70 to 80 degrees to the core axis.					
10.45	10.55	Interbedded beige green, very fine grained volcaniclastic the upper contact is at 40 degrees to the core axis the lower contact in broken core. The rock contains no sulphides and is cross-cut by a quartz carbonate haematite vein.					
10.55	11.20	As above but beige green silica sericite and carbonate altered, medium grained to coarse grained (to 8 mm) quartz rich, very occasional lithics volcaniclastic. The rock contains no sulphides but has strong manganese staining.					
11.20	11.30	As above but moderately chlorite, carbonate altered, medium grained to coarse grained (to 5 mm) quartz volcaniclastic.					
11.30	13.45	As above but beige green, medium grained to coarse grained (to 4 mm) sub - rounded quartz rich volcaniclastic with occasional fine grained dark grey lithics (sediments). Rock is silica sericite and carbonate altered throughout. Rock contains numerous quartz carbonate haematite veins at 70 to 80 degrees to the core axis. The rock contains no sulphides.					
13.45	14.00	As above but dark green, moderately chlorite altered, carbonate altered weakly sericitized, medium grained to coarse grained to 7 mm quartz, occasional lithic volcaniclastic. The rock contains no sulphides but minor fine chlorite veins at 70 degrees to the core axis and occasional quartz carbonate haematite veins generally at 20 to 40 degrees to the core axis.					
14.00	16.15	As above but orange brown to cream strongly oxidised rock in very broken core. Possibly a fault but probably just a very strongly veined zone.					
16.15	19.65	FELSIC LAVA QUARTZ FELDSPAR PHYRIC LAVA. Pale pinky orange very fine grained, siliceous, possibly fine grained albite altered carbonate altered matrix with coarse grained (up to 10 mm) sub - angular clots / phenocrysts of quartz and sub - angular coarse grained clots of apple green to dark green sericite altered feldspar. Rock contains dendritic manganese staining. Some suggestion of coarse grained albite crystals sub - rounded but these are possibly an alteration effect. The rock contains no sulphides but contains very weak fine irregularly oriented haematite veinlets.	SN0015 SN0016 SN0017	17.00 18.00 19.00	18.00 19.00 20.00	1.00 1.00 1.00	<.01 <.01 <.01
19.65	21.50	SHEAR ZONE					

From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Width (m)	Au (ppm)
		Strongly sheared zone with shear foliation at 30 degrees to the core axis. Rock includes zones of the pinky orange felsic lava with coarse grained sub - angular quartz and green sericitized and carbonate altered, weakly chlorite altered fine grained rock with medium grained quartz clasts. Rock contains fine haematite veining streaming throughout and moderate manganese staining throughout.	SN0018	20.00	21.00	1.00	<.01
			SN0019	21.00	22.00	1.00	<.01
21.50	32.30	FELSIC LAVA					
		QUARTZ FELDSPAR PHYRIC LAVA.	SN0020	22.00	23.00	1.00	<.01
		Essentially appears to be the same unit as logged for 16.15 to 19.65 on the other side of the shear zone. Rock is a pale pinky orange to pale beige green, fine grained massive siliceous rock with coarse grained sub - angular clots / phenocrysts of quartz (to 10 mm) and somewhat diffuse bounded apple green clots of sericite altered feldspars (to 10 mm) occasionally with more sharp edges. Rock appears to be fine grained albite altered throughout. Very occasional quartz veins are indistinguishable from the phenocrysts (?). Rock contains very fine carbonate filled irregularly oriented fractures throughout. The rock contains approximately 2% pyrite, occasionally trace chalcopyrite throughout. The rock is weakly autobrecciated in the lower part of the intersection with a sericite matrix.	SN0021	23.00	24.00	1.00	<.01
			SN0022	24.00	25.00	1.00	<.01
			SN0023	25.00	26.00	1.00	.03
			SN0024	26.00	27.00	1.00	<.01
			SN0025	27.00	28.00	1.00	<.01
			SN0026	28.00	29.00	1.00	<.01
			SN0027	29.00	30.00	1.00	<.01
			SN0028	30.00	31.00	1.00	<.01
			SN0029	31.00	32.30	1.30	<.01
		21.50 22.40 As above but weakly oxidised in broken core. Rock contains occasional quartz carbonate haematite veins variably oriented.					
		22.40 22.70 As above but with approximately 5% pyrite in quartz pyrite infilling.					
		22.70 25.50 As above but with occasional wispy attenuated pyrite veins with minor pyrite throughout.					
		25.50 28.35 As above but with approximately 2% pyrite and trace chalcopyrite in attenuated veins and clots. Veins are oriented sub - parallel to the core axis. Rock is weakly autobrecciated from 26.90 to 28.35 with a sericite matrix. The rock contains occasional carbonate and minor quartz veins up to 1 cm wide.					
		28.35 28.80 As above but with 5% pyrite often with oxidised selvedges in veins and clots with trace chalcopyrite.					
		28.80 32.30 As above but with approximately 1% pyrite and trace chalcopyrite in veins and clots. Veining is sub - parallel to the core axis. Rock contains occasional quartz carbonate veins cross-cutting at 50 to 80 degrees to the core axis.					
		32.30 E.O.H.					