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PROJECT NAME: COMSTAFF PTY. LTD.

TITLE: QUARTERLY REPORT TO THE DEPARTMENT OF MINES, TASMANIA, FOR THE PERIOD 1ST OCTOBER TO 31ST DECEMBER 1981

MINERAL LEASE 62M/75

GODKIN

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: 1:250,000 Sheet: Queenstown K55-05

COMMODITY/IES: Sn

TEXT PAGES NO: 4

PLAN NOS: TAS/2/2513

TABLE NOS:

APPENDICES:

AUTHOR/S: I.G.P. Wilding, S.R. Yardley, J.D. Crimeen.

DATE: 26th January 1982

AUSTRALIAN ANGLO AMERICAN LIMITED

COMSTAFF PTY. LTD.QUARTERLY REPORT TO THE DEPARTMENT OF MINES, TASMANIA,
FOR THE PERIOD 1ST OCTOBER TO 31ST DECEMBER 1981MINERAL LEASE 62M/75
GODKIN

During the last quarter of 1981 work on the Godkin mineral lease has centred around the drilling of hole GDK 4 to follow up the encouraging Sn mineralisation intersected in hole GDK 3, drilled earlier in the year. The cost of the work has been \$25183. (Expenditure in the preceding quarter was \$15212). Although not all analytical data are yet available and plotting of data is still incomplete, the results suggest that the location of mineralisation is structurally controlled. During the first quarter of 1982 it is proposed to complete the assessment of the data from the GDK3-GDK4 area and to site and drill an exploratory hole below the old Fraser Mine workings in the southern part of the lease area. Budgetary estimates for the period January - March 1982 are \$79,782.

1. WORK COMPLETEDDiamond Drilling

GDK4 was drilled 100m to the north of GDK3 and at the same azimuth and declination (45° MN, 45°). The hole was designed to intersect a northerly continuation of the tin bearing quartz vein zone emplaced along the contact between conglomerate and gabbro as seen in GDK3.

Hole No.	Advance Metres	Duration
GDK4	0-277.0	19/11-8/12
Total metres drilled	277	
Days drilling & delays	21	
Rate per day	13.19m	
Delay days	3	(mechanical & cementing fault zone).
TRICONED	0- 3m, NQ 3.0-101.6m, BQ 101.6-277.0m	

The rig was demobilised and transported to Ramsay on the 10 December 1981.

Core grinding was completed to 277.0m and the most substantial quartz vein zone - 209.75-212.0m - containing massive pyrrhotite and pyrite, split.

2. RESULTS ACHIEVEDDiamond Drilling

As anticipated a sequence of cyclic sandstones/siltstones, conglomerate and gabbro were intersected, but the conglomerate was intersected at 189.0m - much deeper than predicted - which suggests the sedimentary sequence (probable basal Dundas) strikes at approximately 335⁰M and not 315⁰ as indicated on surface. Dips are steep west to vertical with depth. Mineralisation is again confined to mainly narrow (<0.5m) quartz/pyrrhotite pyrite veins; the most notable of which occur at the following intervals:

87.40 88.80
 209.90 - 210.90
 217.0 - 221.20
 239.50 - 241.80
 244.20 - 244.70
 259.40 - 260.20

No cassiterite is visible. The coarser grained sandstone units contain trace amounts of disseminated pyrrhotite and pyrite and locally up to 1-2% adjacent to quartz sulphide veins. The conglomerate horizon in this hole does not appear to be a favourable sulphide recipient. Significant sulphide mineralisation is confined to quartz veins of poor frequency.

A major fracture/fault zone occurs between 241.80 and 272.55.

Hornfelsing increases with depth but appears to be overprinted by clay chlorite alteration within the fault/fracture zone.

No tin results are available to date.

Brief petrological descriptions have been requested for the following intervals:

Sample No	Interval
Z0420	209.0
"	214.20
"	212.10
"	218.55
"	221.80
"	226.10
"	229.70
"	244.0
"	245.50
"	255.0
"	265.0
Z0431	273.0

A summary log of GDK4 is tabulated below:

Interval Metres	Lithology	Mineralisation	Structure (Core inter- section angle)
0 - 3.0	Triconed	Py, Po/Float	
3.0 - 129.60	Narrow (0.5-3.0m) cyclic beds of siltstone and sandstone	Minor Py dissem.	79.0m 73° 85.5m 57° 98.60m 35° 110.0m 50°
129.60-168.40	Coarse grained sandstone - hornfelsed	Sporadic veinlets of Po, Py, Aspy, Cp	130.0m 45° 142.0m 45° 153.0m 65° 161.50m 58°
168.40-189.0	Alternating (5-15cm) bands of sandstone & siltstone with odd grit bands. (subangular clasts of white chert).	Rare veinlets as above	172.0m 55-58° 184.50m 55° 189.0m 45°
189.0-202.20	Conglomerate - sub rounded white & pink fractured chert clasts. Hornfelsed.		202.0m 45°
202.20-221.50	Intensely hornfelsed sandstone with minor grit bands & fine grained sandstone	Qtz vein and fractured zone Po, Py, Cp	
221.50-227.50	Gabbro dyke?	1cm qtz vein & cassiterite?	
227.50-241.80	Hornfelsed sandstone with sporadic conglomerate & grit bands	Sporadic qtz pyrite veins (up to 3cm)	
241.80-244.70	Brecciated sandstone & possible gabbro - clay sericite altered. Two phases of qtz veining - first phase brecciated; second phase sulphide bearing.	Open qtz veins with Aspy/Py/Cp Sooty black min	Vein CIA's 50°, 60° 30°

244.70-256.70	Brecciated clay sericite altered Gabbro? - porphyritic texture. Actinolite/ tremolite lining fractures	Rare Qtz veins & fracture Po	
256.70-258.0	Conglomerate band; chert clasts extensively fractured		
258.0 -259.0	Fractured clay chlorite altered (overprints hornfelsing) sandstone		
259.40-260.20	Open Qtz vein lined by massive vuggy pyrite with central core of Po/Cp	Massive Po Py	Vein CIA 47° 42-45°
260.20-272.55	Extensively fractured hornfelsed sandstone. Odd chert clast or brecciated vein quartz	Rare Qtz veins & Po, Py, Cp	Vein CIA 45°
272.55-277.0	Green porphyritic clay chlorite altered gabbro?	ditto	Contact CIA 45°

3. FORECAST

1. Completion of the detailed drill log for GDK4.
2. Survey in collar of GDK4.
3. Assessment of GDK4 results when they come to hand. Further drilling in this area will depend on the overall pattern of these results.
4. Location of a suitable drill pad and drilling of a hole below the old Fraser Mine workings.

[Signature] for { I.G.P. Wilding, Chief Divisional Geologist
S.R. Yardley, Senior Geologist
J.D. Crimeen, Geologist

Approved by *[Signature]*
R.J. Kernick, Exploration Manager

I, OSVALDO TIBURCIO FILOMENO FONSECA of 56 Partridge Crescent, Frankston in the State of Victoria, Accountant DO SOLEMNLY AND SINCERELY DECLARE AS FOLLOWS:-

- 1. That the details of work for the six months ending 31 December 1981 on Mineral Lease 62M/75 are described in the accompanying report.
- 2. That in the six months ending 31 December 1981 Comstaff has expended \$40 395 on work on Mineral Lease 62M/75 and that this is further broken down into:

	\$
(a) Field staff and associated costs	10 267
(b) Operating costs	1 353
(c) Tenement costs	962
(d) Specialist services	-
(e) Project management	2 243
(f) Drilling	25 570
(g) Contractors	-
(h) Capital expenditure	-
	\$40 395

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

DECLARED AT *Melbourne*)
)
 in the State of Victoria)
)
 this *26th* day of)
)
 January 1982)

O. Fonseca

Before me:

[Signature]

EL 5/63 AREA 6

ROSEBERRY

5 370 000 m N

WILLIAMSF

ML 62 M / 75

FRASER MINE
old workings

5 cm

LEGEND

- Access road construction
- Line cutting
- Sampling
- Surveying
- Stream sediment samples taken
- Geophysical survey
- Geological mapping
- Costeering
- Drilling

COMSTAFF PROPRIETARY LIMITED

ML 62M / 75
GODKIN

PLAN TO ACCOMPANY QUARTERLY
REPORT FOR OCT. - DEC. 1981

DRAWN GEODRAFT	COMPILED S.R.Y., JDC	SCALE 1 50 000	TAS/2/2513
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