For
Appendix 9c
Lithology Data – Scanned Paper logs

(See Digital File EL20_2003_200605_13_Appendix9c.pdf)

NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 1 OF 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
0	72	-65	Easting_AMG	379899
27	74	66.5	Northing_AMG	5324310
			Elevation (m)	275
			Azimuth_Mag	72°
			Dip	-65°

PROJECT:	TASMANIA EL20 2003
PROSPECT:	GARFIELD
DATE:	6.4.2006
LOGGED BY:	NF

HOLE DEPTH | CORE RECOVERY | RQD | SAMPLE NO PREFIX | SULPHIDES % (.1 .3 1 3 5) | PICTORIAL LOG: STRUCT, ALT | GRAPHIC LOG mm (0.06 0.5 2 8 32 64) | GEOLOGY NOTES | SUMMARY LOG

2 m — NO RECOVERY

4 m

6 m — ~5.5m start of core recovery

6-7m very weathered

Green patchy weak chlorite altered feld-phyric massive andesitic lava. Phenos upto 3x2mm - medium size

8 m — selective chl alt^{n} of ferromagnesian minerals (biotite, amphibole, pyroxene ??) highly abundant

10 m — 10-17m texturally destructive oxidation / weathering Fe-oxide weathering along fractures, especially well developed from 13-14 m. → after sulphides?

12 m

14 m — Rare qtz phenos.

No mineralisation.

16 m

18 m

20 m — 20m base of oxidised zone

22 m — Irregular to semi parrallel veinletts now composed of Ser ± cb. Not common.

24 m

26 m

28 m — F — 30-33m increase in number ± size of phenos.

30 m — Mafic xenolith, fine grained, contains single pyrite grain. (PY)

32 m — Gradational contact over ~20cm - change in pheno size & abundance.

34 m — Green patchy weak chl-ser altered med. sized mod abundant feld-phyric massive andesitic lava

36 m — less porphyritic than the above unit - more equigranular & slightly smaller pheno size ~ 2x1 m.

38 m — No mineralisation.

40 m

REMARKS

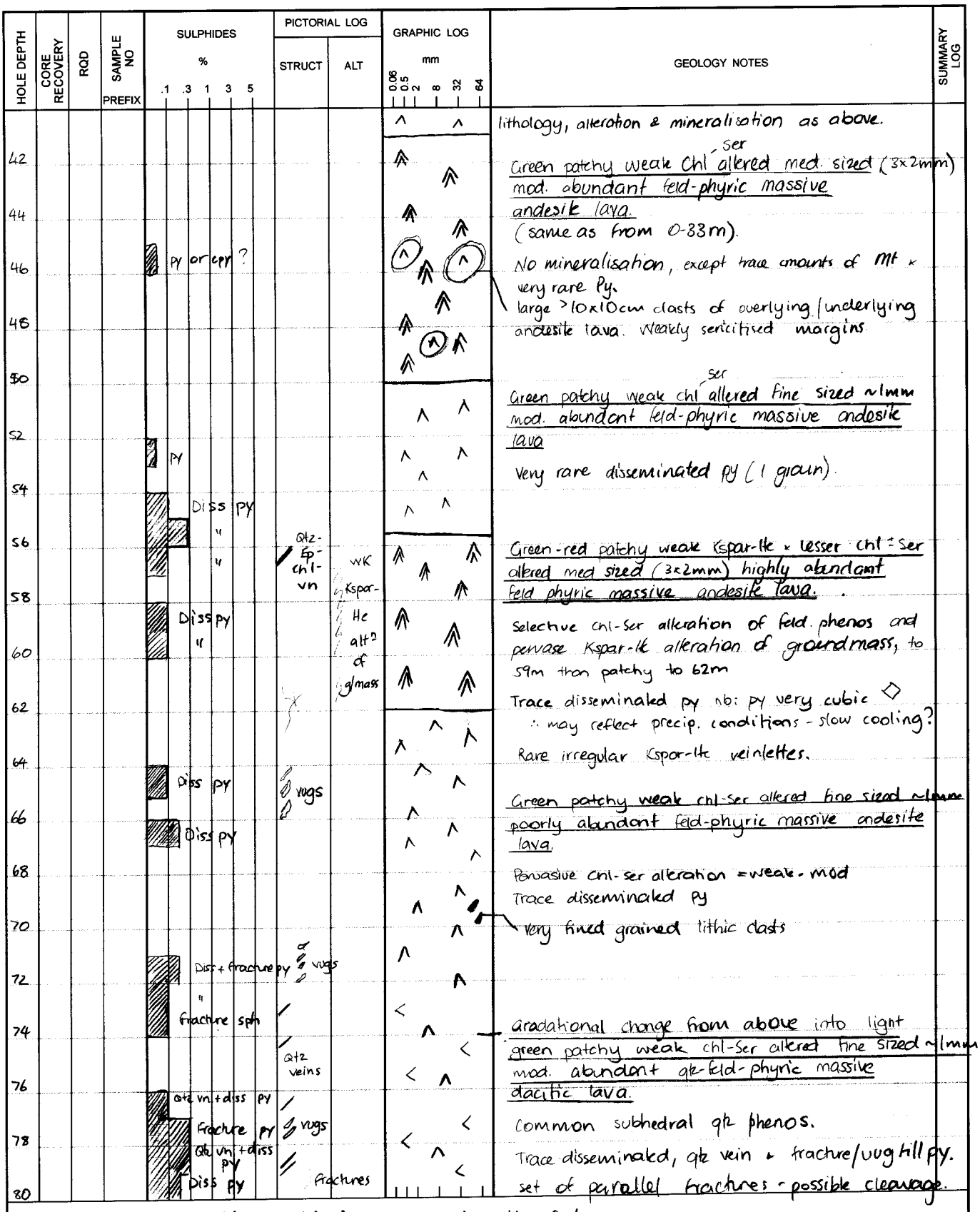
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 2 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
62	71	66.5	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	7·4·2006
LOGGED BY:	NF



REMARKS Increase in visible sulphide compared with 0-40m.

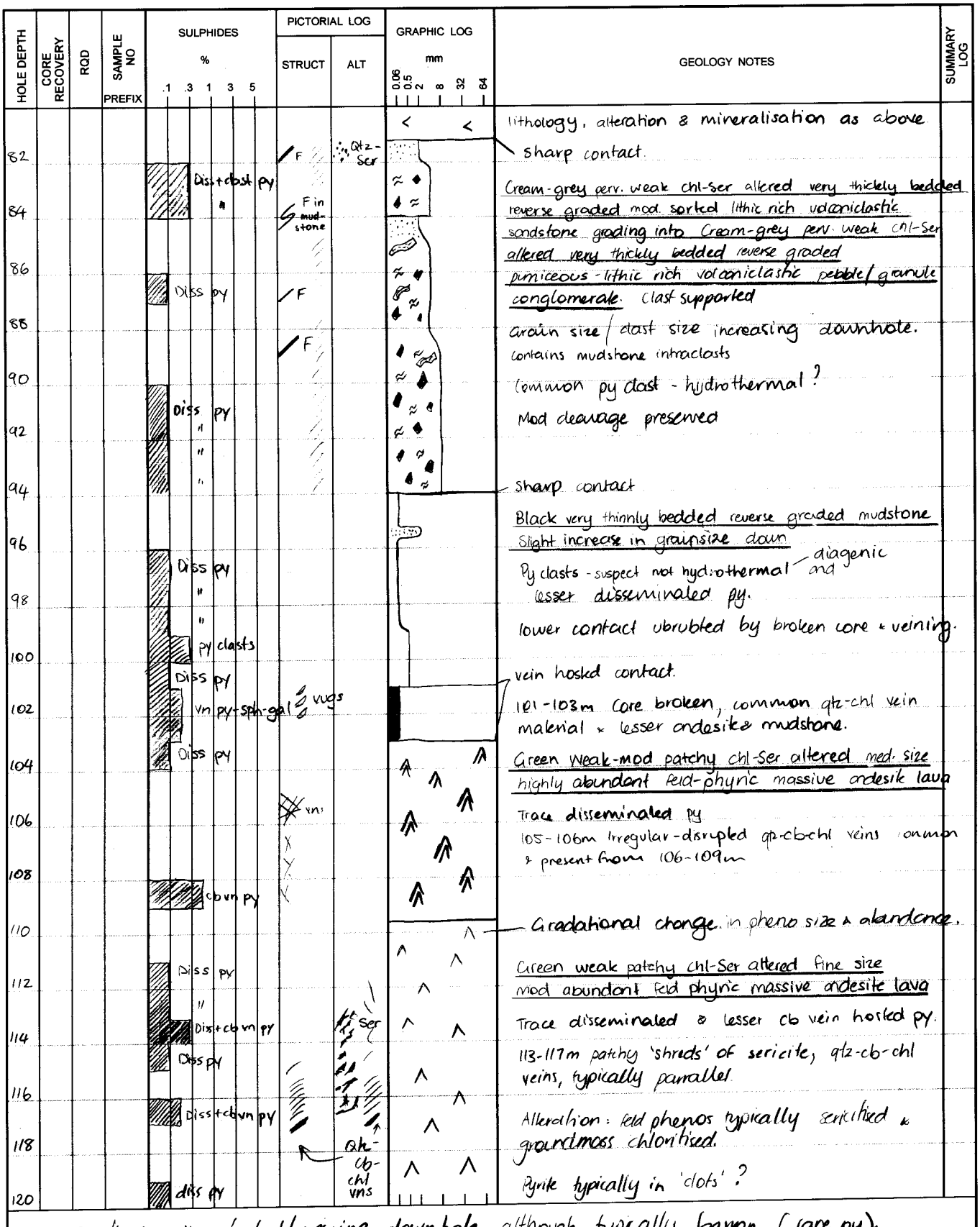
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 3 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
87	73.5	66	Easting_AMG	
111	72.5	65.5	Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 2/2003
PROSPECT:	GARFIELD
DATE:	7·4·2006
LOGGED BY:	NF



REMARKS Increase in qtz-cb-chl veining downhole, although typically barren (rare py).

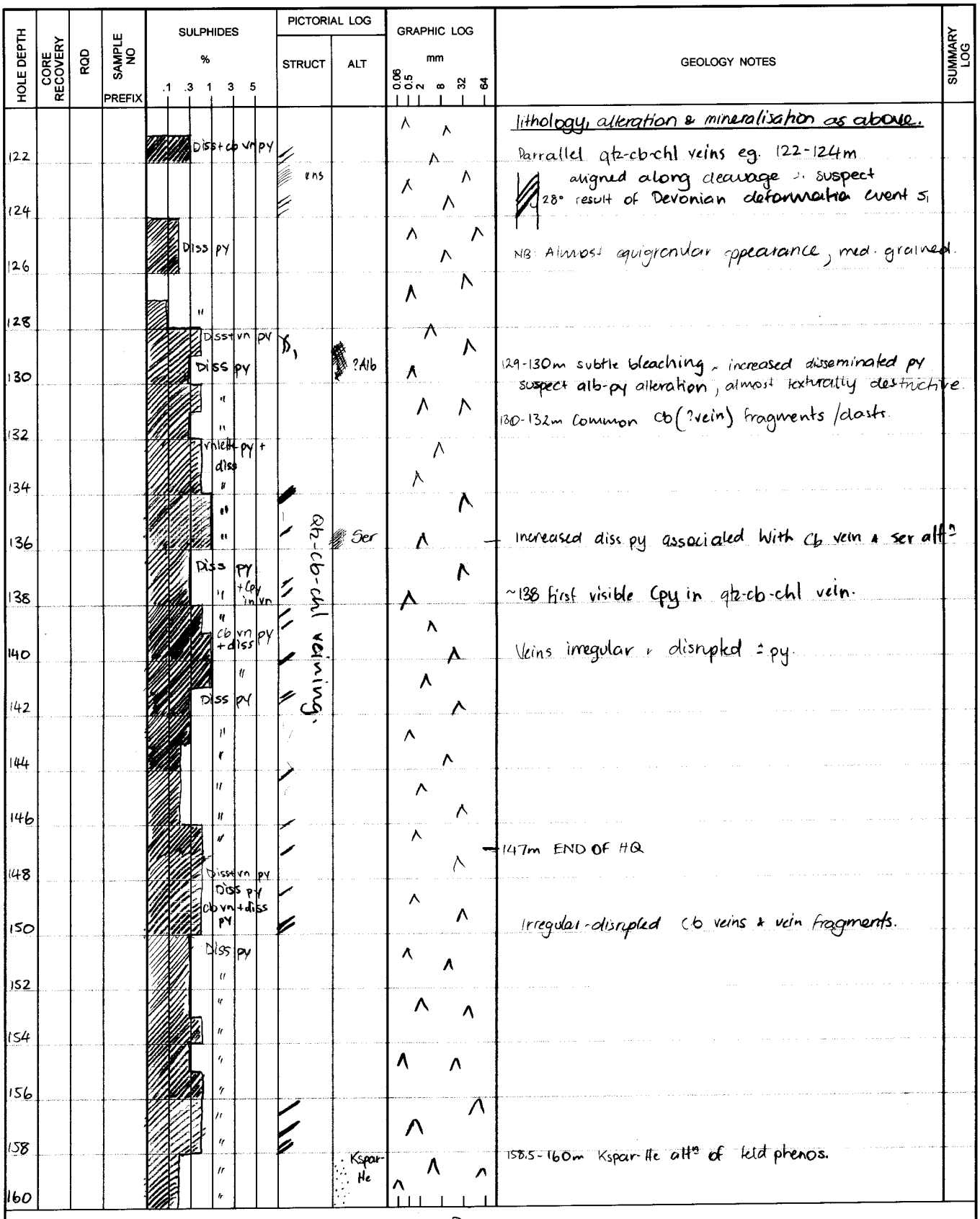
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 4 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
160	70	62	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	8·4·2006
LOGGED BY:	NF



REMARKS Nb: Substantial increase in visible Py

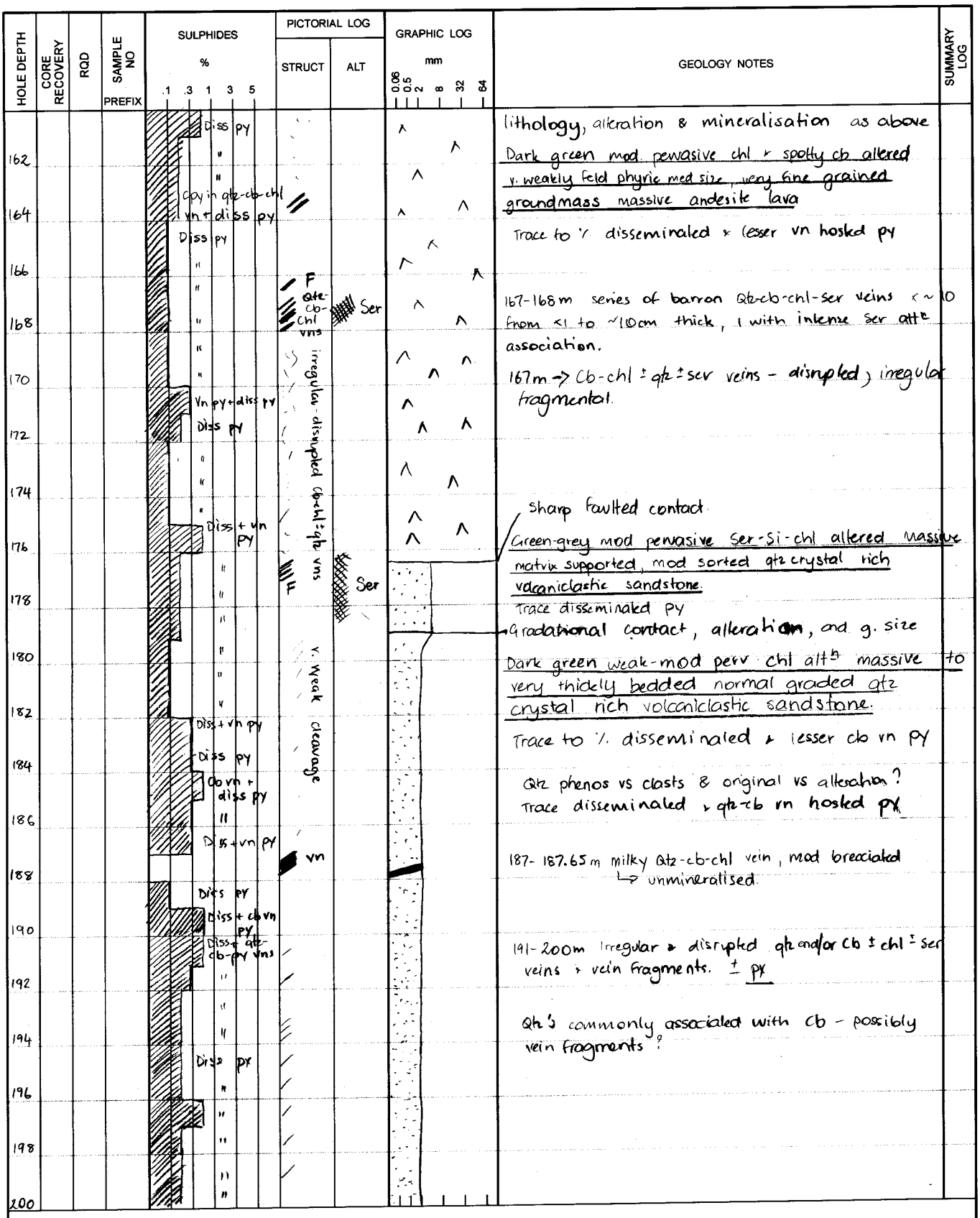
NEWCRESTMINING LIMITED

DRILL HOLE No NCT008

SHEET 5 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
			Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	19-4-2006
LOGGED BY:	NF



REMARKS

NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 6 OF 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
204	70	60	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 2003
PROSPECT:	GARFIELD
DATE:	20-4-2006
LOGGED BY:	NF

HOLE DEPTH | CORE RECOVERY | RQD | SAMPLE NO PREFIX | SULPHIDES % (.1 .3 1 3 5) | PICTORIAL LOG: STRUCT | ALT | GRAPHIC LOG mm (0.06 0.5 2 8 32 64) | GEOLOGY NOTES | SUMMARY LOG

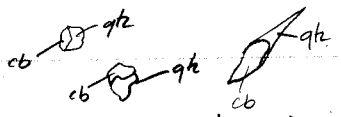
202
204 Diss py + cpy + vn py
206 Diss py
208 Diss + vn py
210 Diss py
212 diss + vn py
214 Diss py
216
218
220
222
224
226 Diss + vn py
228 Diss py
230 Diss + vn py
232 Diss py
234 Diss + vn py
236 Diss py
238 Diss py + cpy
240 Diss py

vn
vn
vn
vn
vn
vn
vn
vn Ser
vn
Bedding?
So
vn
? Ser
cb py vn
cb vn

lithology, alteration & mineralisation as above

Patchy zones of qtz ?phenos or ?clasts commonly associated with cb.

Common cb ± qtz ± chl veins, parrallel & disrupted predominantly unmineralised.



- very Weak cleavage through rock
- No variation in alteration downhole
- No significant change in mineralisation.
- possibly Dacite/rhyolite due to zone of coherancy - no obvious fragmentals ??
- Massive!
- very rare obvious bedding ie ~222m.

REMARKS

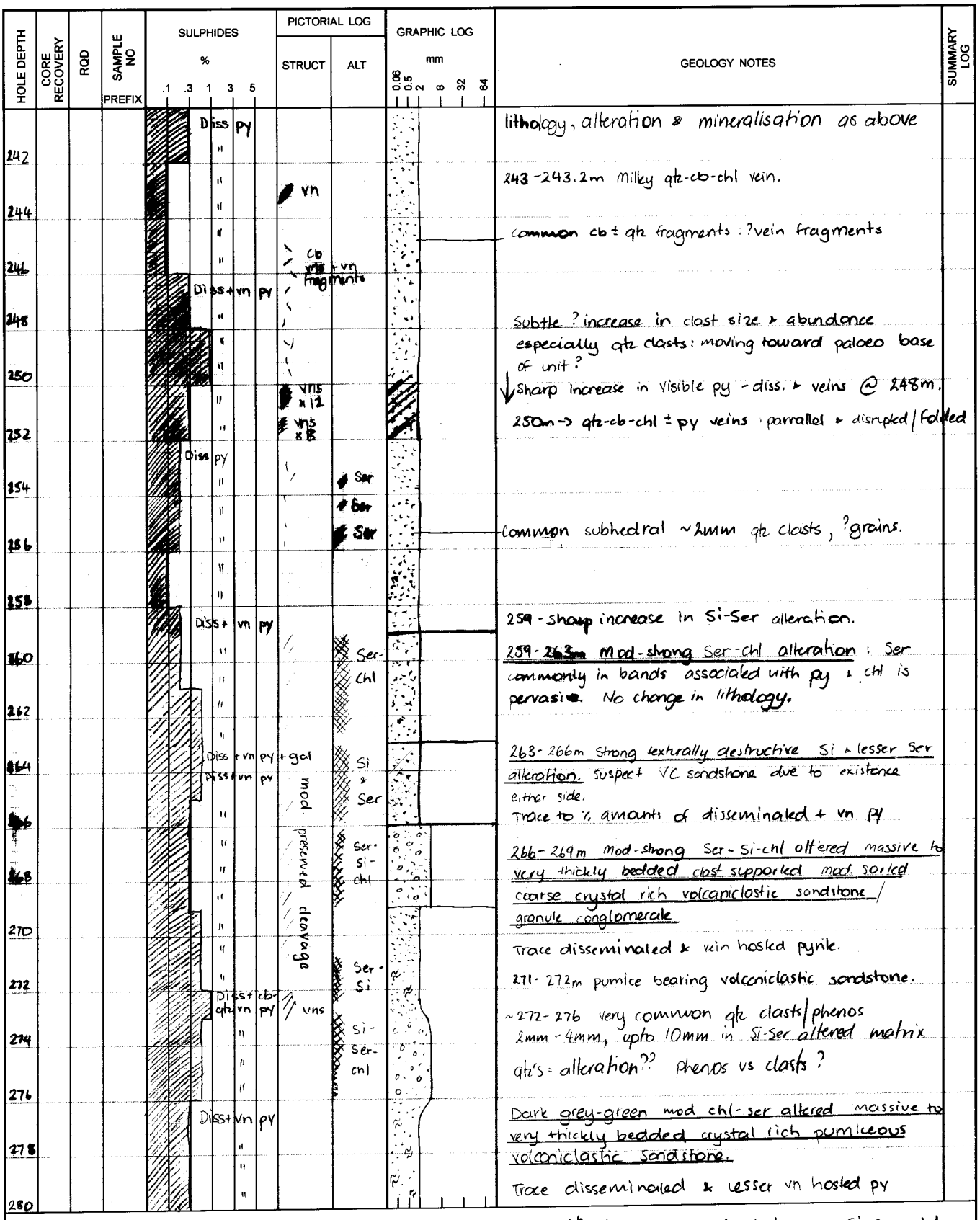
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 7 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
250	70	58	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	21-4-2006
LOGGED BY:	NF



REMARKS Significant increase from wk-mod chl ± Ser alt^{n} to mod-str-intense Si-Ser-chl alteration @ 259m, coupled with a noteable increase in visible sulphide - py.

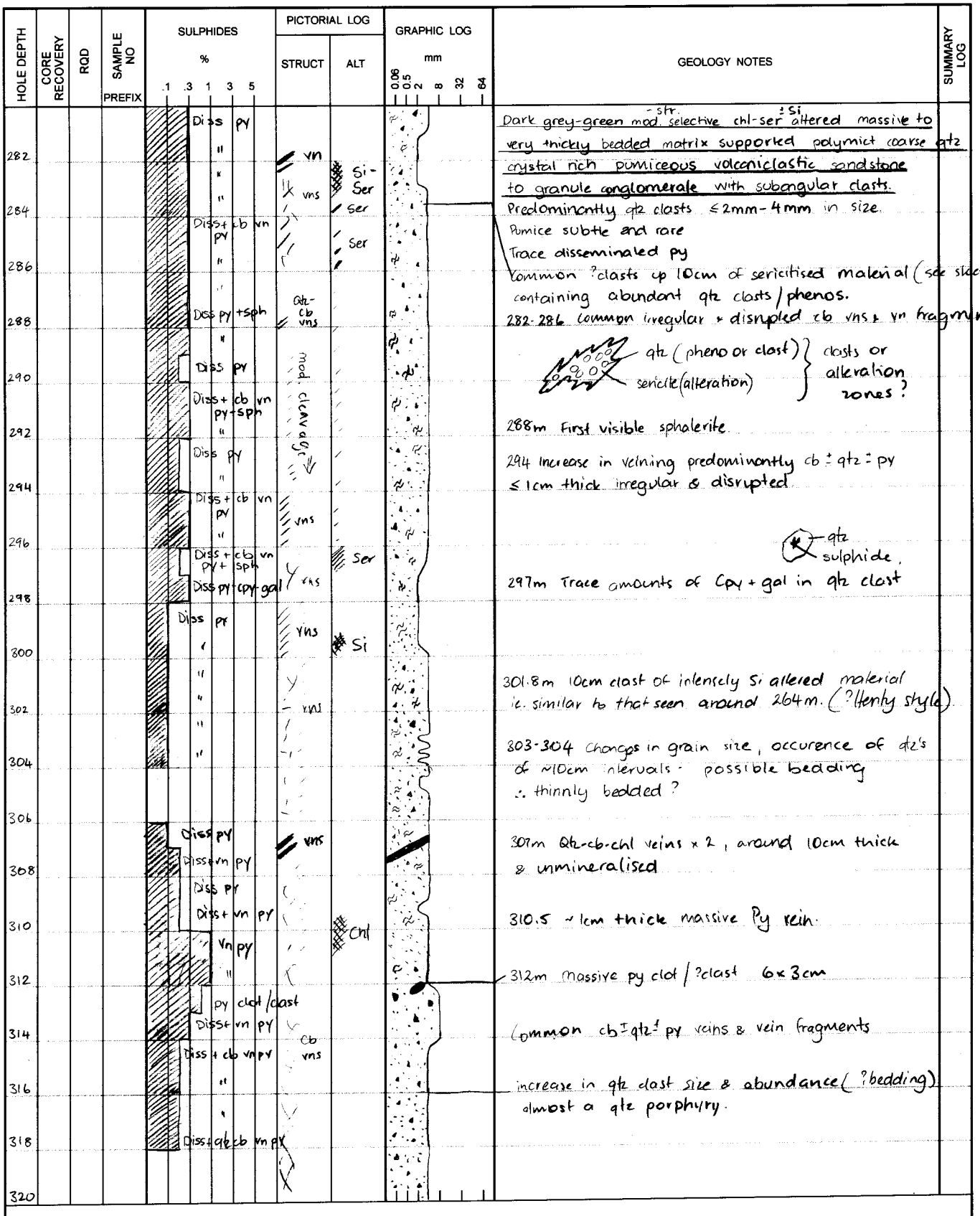
NEWCRESTMINING LIMITED

DRILL HOLE No NCT008

SHEET 8 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
300	70.5	56	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA E20/2003
PROSPECT:	GARFIELD
DATE:	22·4·2006
LOGGED BY:	NF



REMARKS

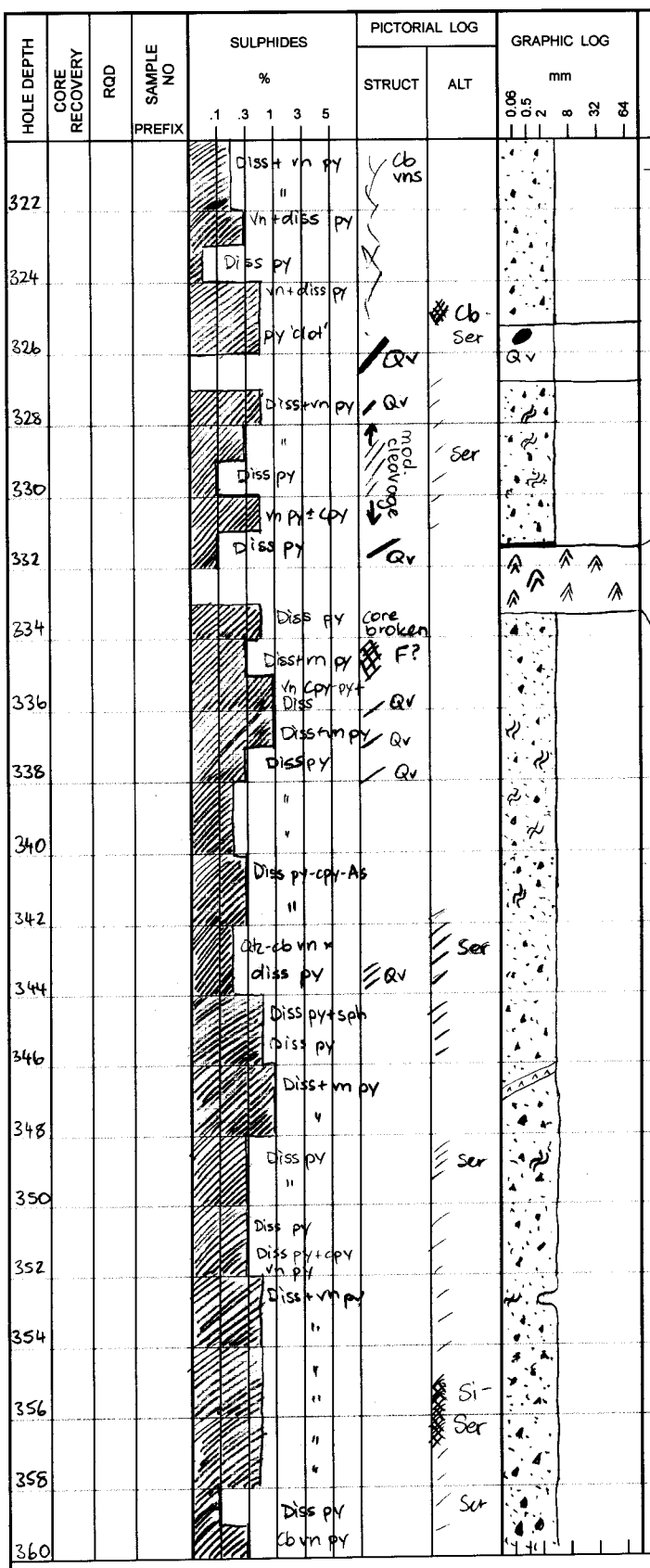
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 9 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
350	70.5	54	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	28.4.2006
LOGGED BY:	NF



GEOLOGY NOTES

lithology, alteration & mineralisation as above.

Common irregular - disrupted cb±qtz±py veins & vein fragments.

Qtz porphyritic.

325.3 - 326.7m Milky qtz-cb-chl - rock flour - py vns (x2) py occuring in large 'clot' ~2cm thick & surrounded by rock flour ? clast of massive sulphide.

patchy Ser alt°

? relict pumice.

Qtz-cb-chl-py vein hosted contact.

331.5 - 333.3 m: Dark green mod. perv. chl-ser altered med size mod. abundant pyx-amph phyric microcrystalline glmass flow foliated andesite dyke.

Unmineralised, except at lower intrusive contact.

Sharp ? intrusive litho. contact

335-336 ≤ 0.5% cpy diss & in vein - most cpy seen in hole to date - expect anomalous Cu.

Moderate cleavage preserved.

Increasing ser alt° downhole.

346.2 - 346.4 m 20cm thick Dark grey black wk-mod. perv. chl altered med. size mod. abundant ?pyx phyric microcrystalline glmass flow foliated andesite dyke

~0.5% disseminated py

347.8 - 348.3 m Andesite ?dyke same as above.

352.4 - 352.8m ? Bed of light green mod. pervasive ser. altered massive matrix supported well sorted crystal rich pumiceous volcaniclastic sandstone

Trace disseminated py ± cpy + vein py

355.5 - 356.6m zone of strong - intense Si-Ser alt° containing ~0.5% disseminated py.

Bleached zone ± Alb??

SUMMARY LOG

REMARKS

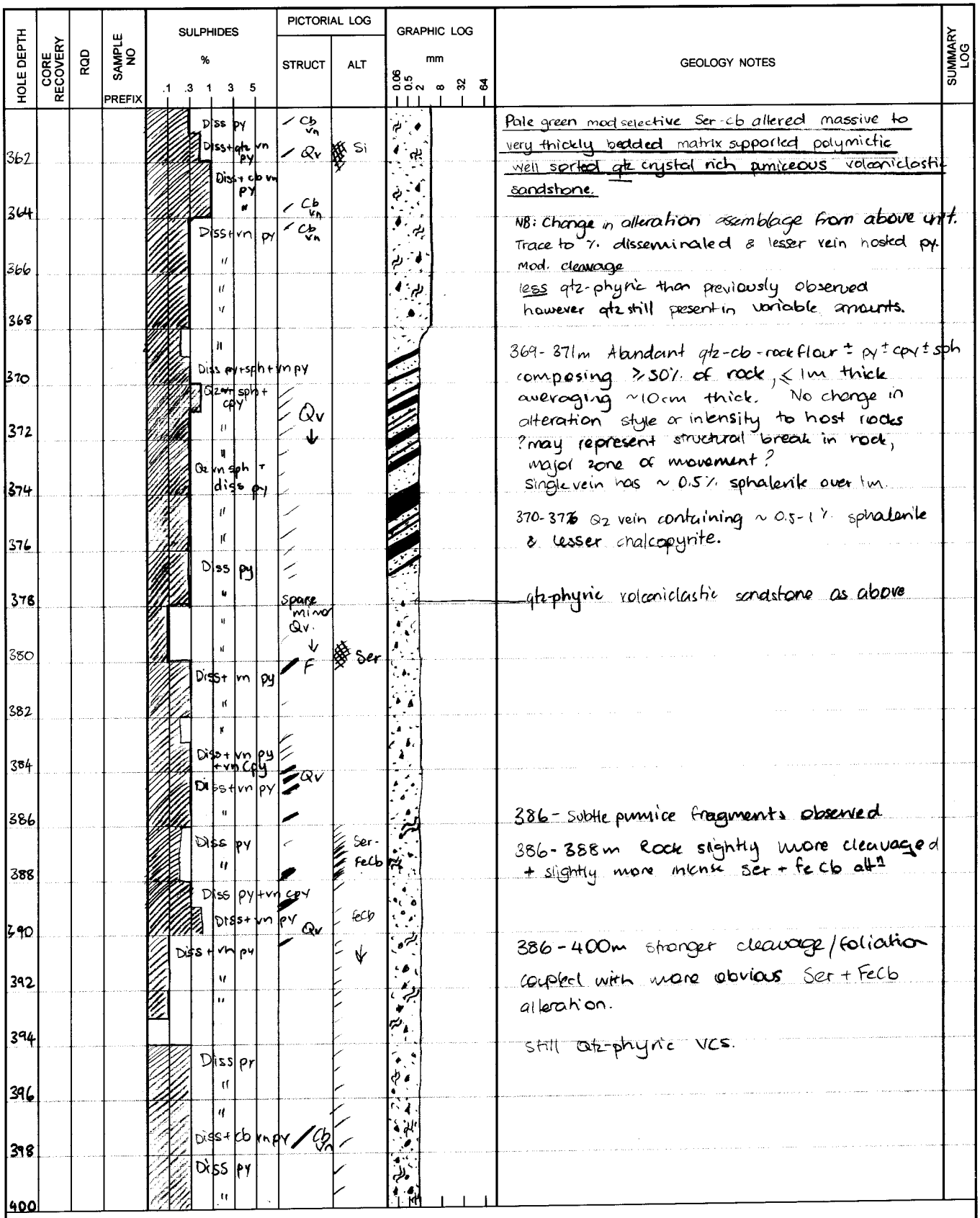
NEWCRESTMINING LIMITED

DRILL HOLE No NCT008

SHEET 10 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
400	70.5	51.5	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	23-4-2006
LOGGED BY:	NF



Pale green mod selective Ser-cb altered massive to very thickly bedded matrix supported polymictic well sorted qtz crystal rich pumiceous volcaniclastic sandstone.

NB: Change in alteration assemblage from above unit. Trace to 1% disseminated & lesser vein hosted py. Mod. cleavage

less qtz-phyric than previously observed however qtz still present in variable amounts.

369-371m Abundant qtz-cb-rock flour ± py ± cpy ± sph composing ≥30% of rock, ≤1m thick averaging ~10cm thick. No change in alteration style or intensity to host rocks ?may represent structural break in rock, major zone of movement?
Single vein has ~0.5% sphalerite over 1m.

370-377 Qz vein containing ~0.5-1% sphalerite & lesser chalcopyrite.

qtz-phyric volcaniclastic sandstone as above

386 - Subtle pumice fragments observed

386-388m Rock slightly more cleavaged + slightly more intense Ser + fe cb alt^{n}

386-400m stronger cleavage/foliation coupled with more obvious Ser + FeCb alteration.

still qtz-phyric VCS.

REMARKS

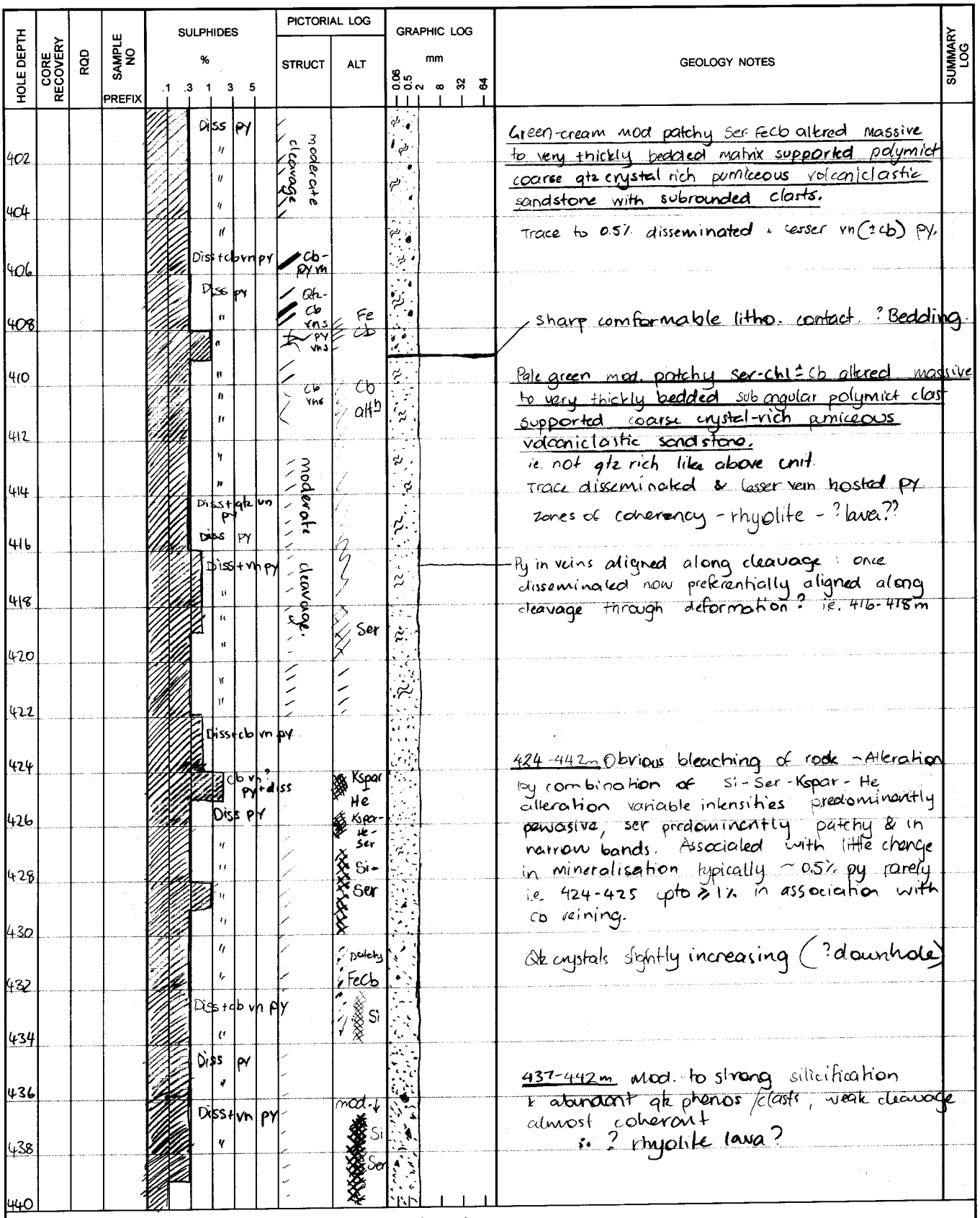
NEWCREST MINING LIMITED

DRILL HOLE No NCT006

SHEET 11 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
			Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL20/2003
PROSPECT:	GARFIELD
DATE:	25-4-2006 (ANZAC DAY)
LOGGED BY:	NF



Green-cream mod patchy ser-Fecb altered massive to very thickly bedded matrix supported polymict coarse qtz crystal rich pumiceous volcaniclastic sandstone with subrounded clasts.

Trace to 0.5% disseminated + lesser vn(±cb) py.

sharp conformable litho. contact. ? Bedding.

Pale green mod. patchy ser-chl ± cb altered massive to very thickly bedded sub angular polymict clast supported coarse crystal-rich pumiceous volcaniclastic sandstone.

ie. not qtz rich like above unit.

Trace disseminated & lesser vein hosted py.

zones of coherency - rhyolite - ? lava??

Py in veins aligned along cleavage : once disseminated now preferentially aligned along cleavage through deformation? ie. 416-418m

424-442m Obvious bleaching of rock - Alteration by combination of Si-Ser-Kspar-He alteration variable intensities predominantly pervasive, ser predominantly patchy & in narrow bands. Associated with little change in mineralisation typically ~0.5% py rarely ie. 424-425 upto ≥1% in association with cb veining.

Qtz crystals slightly increasing (? downhole)

437-442m Mod. to strong silicification & abundant qtz phenos/clasts, weak cleavage almost coherent

i.e. ? rhyolite lava?

REMARKS Petrology sample from 413.4m

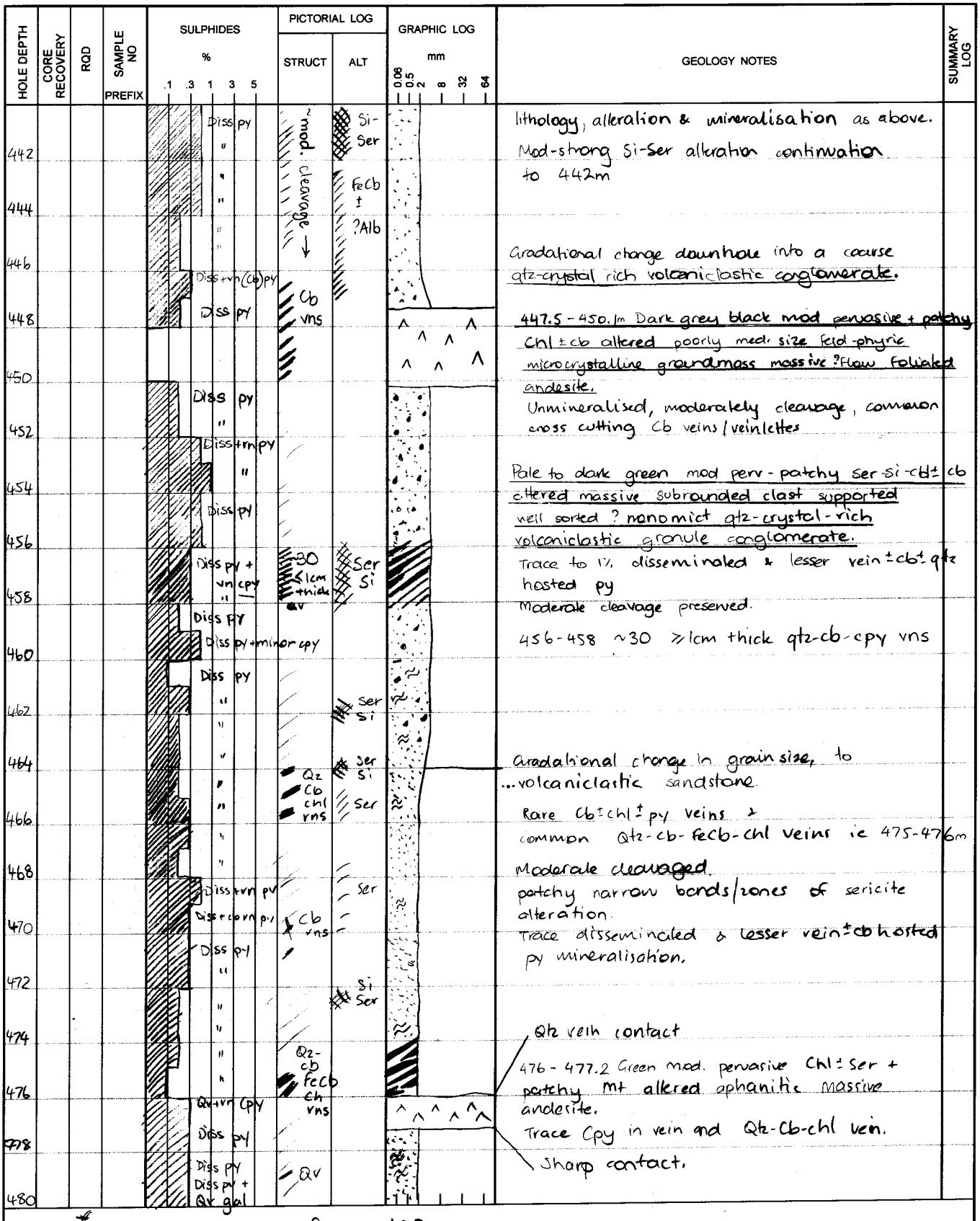
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 12 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
			Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	26.4.2006
LOGGED BY:	NF



*

REMARKS Petrology sample from 453m

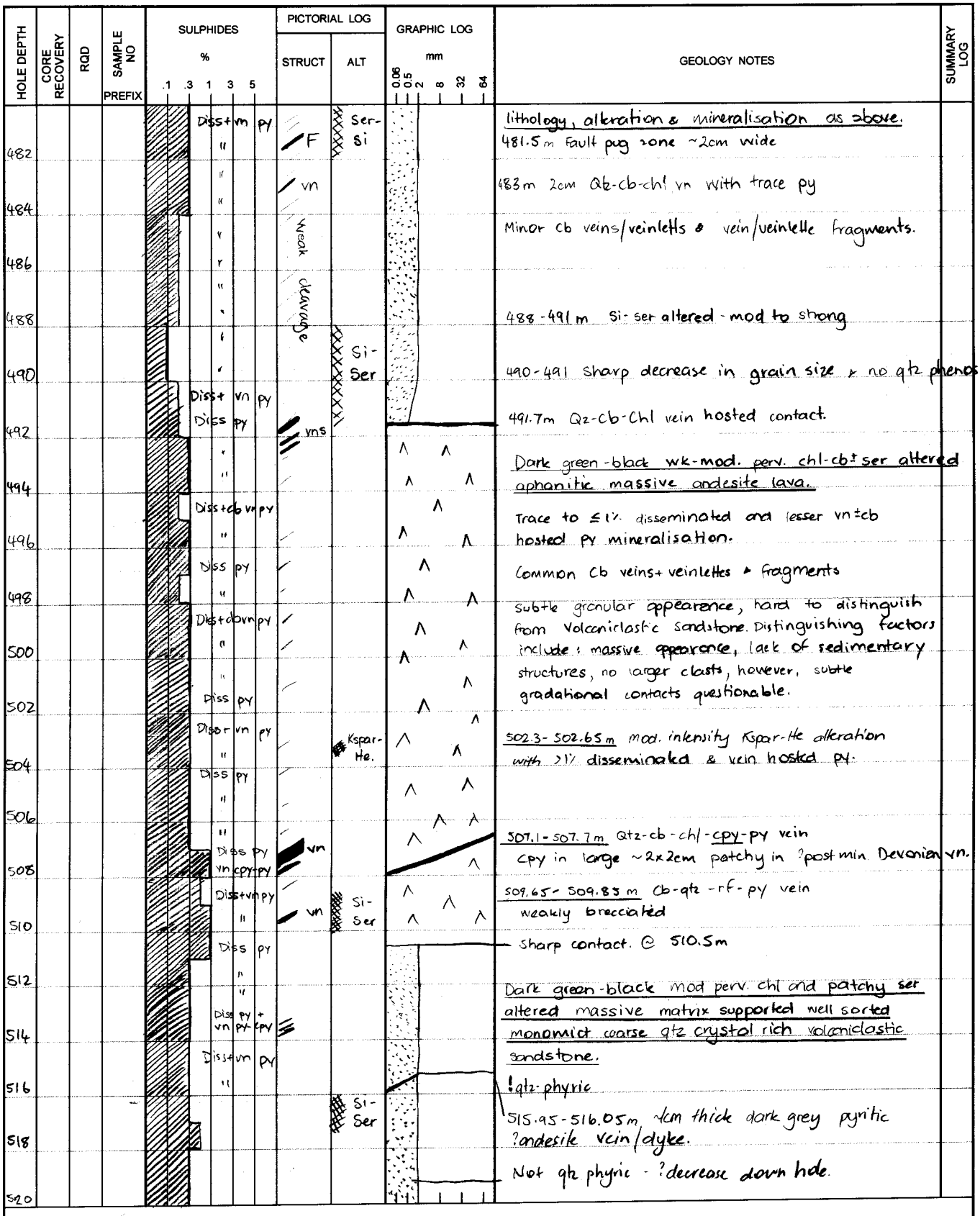
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 13 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
500	64	44	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	27.4.2006
LOGGED BY:	NF



REMARKS

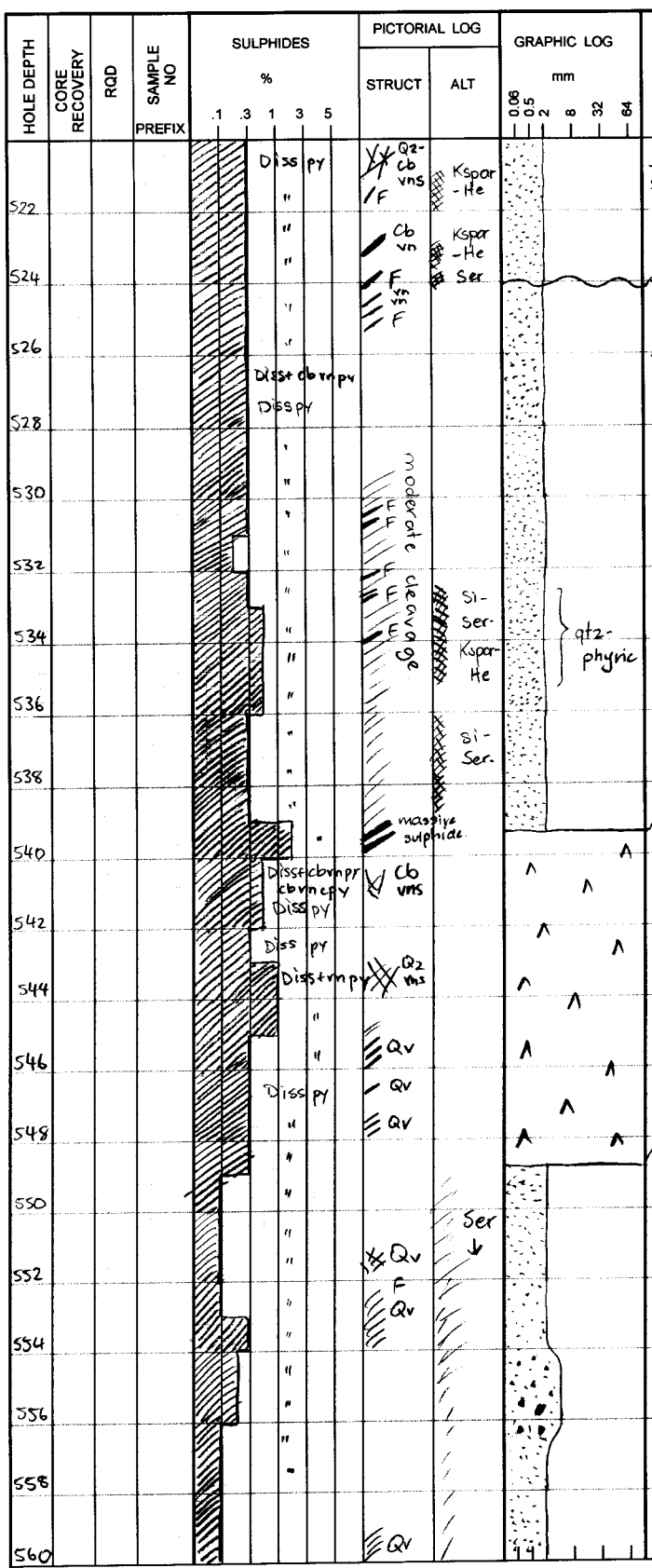
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 14 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
550	65	41.5	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	1.5.2006
LOGGED BY:	NF



GEOLOGY NOTES

lithology, alteration & mineralisation as above.
521.2m small fault zone, brecciated & qtz-cb vn hosted.

524m <1cm fault pug zone & approximate litho. change.

Pale green mod. perv. chl & patchy ser and wk patchy Kspar-He alt^{d} massive (to laminated?) matrix supported mod sorted lithic-rich monomict volcaniclastic sandstone.
Trace disseminated & lesser vn hosted py.
Not qtz phyric, however qtz is present.

530-534m At least 5 significant faults over 4m

532.6 - ~536m Si-ser-Kspar-He alt^{n} fault bounded upper contact & gradational lower contact. & associated with elevated (≤1%) disseminated py

Sharp contact with massive f.g. pyrite in >2cm bands

539.8 - 548.8m Green mod. perv. chl & patchy ser altered aphanitic massive andesite lava.
Trace to ≤1% disseminated & lesser cb vein hosted py + rare cb-cpy veins.
540-541m Irregular-disrupted cb±py± cpy veins.
543.4-543.9m Irregular-disrupted qtz-cb-chl-py veins.
544-548 - common Qtz±cb±chl±py veins.

Sharp contact

Pale green mod patchy ser-chl ± si altered massive subrounded clast supported well sorted coarse qtz crystal rich (qtz-phyric) monomict volcaniclastic sandstone to granule conglomerate.
551-551.6m Qtz-cb-chl veins
Trace disseminated py.
Ser alt^{n} decreasing down as with grain size ie. VC̲ - VC̲S̲

SUMMARY LOG

REMARKS ~8m of Andesite associated with elevated (upto ~1%) disseminated & cb vein hosted sulphide (namely py + v. rare cpy in cb vein).

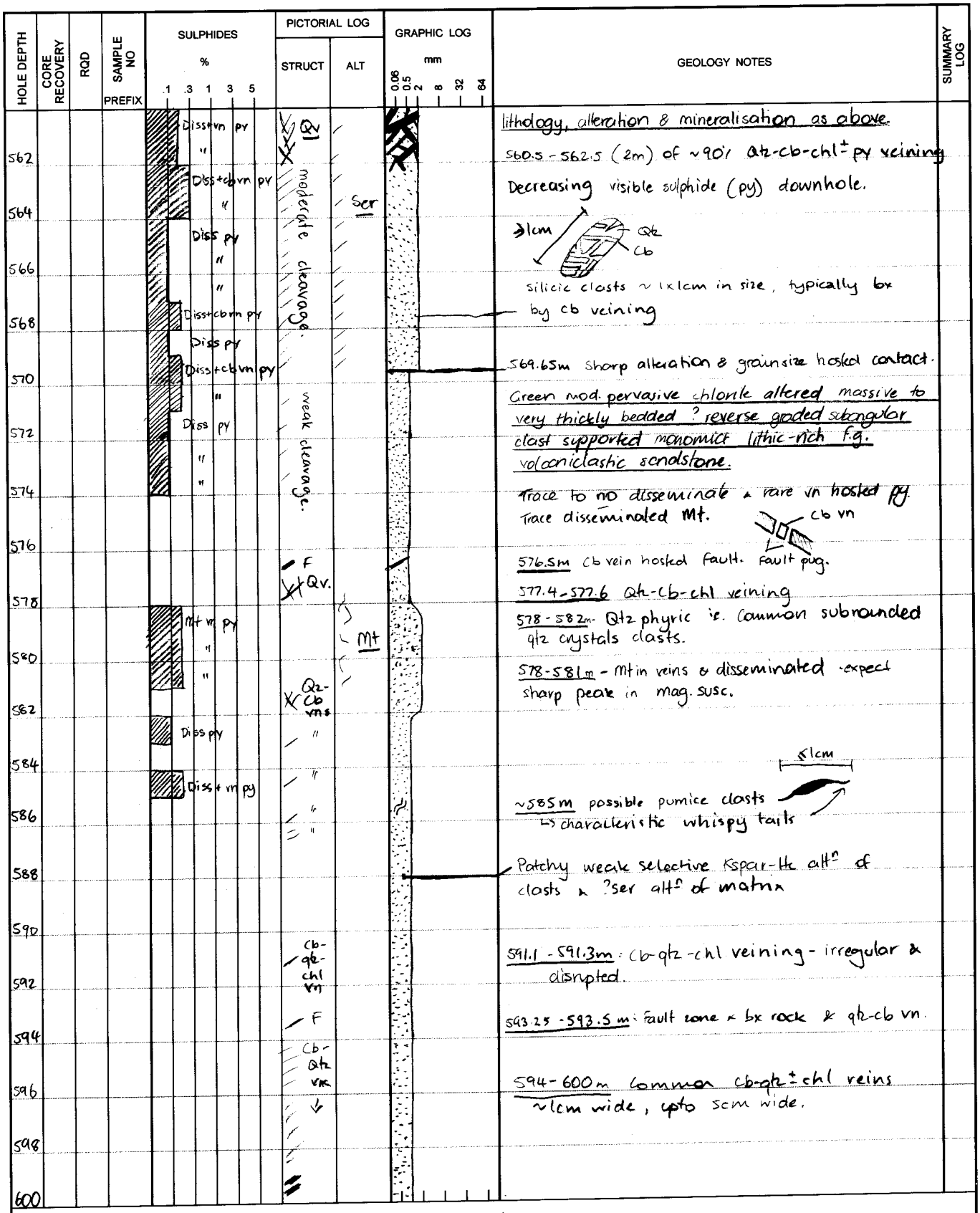
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 15 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
600	65	38.5	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	1-5-2006
LOGGED BY:	NF



REMARKS From ~570m predominantly unmineralised.

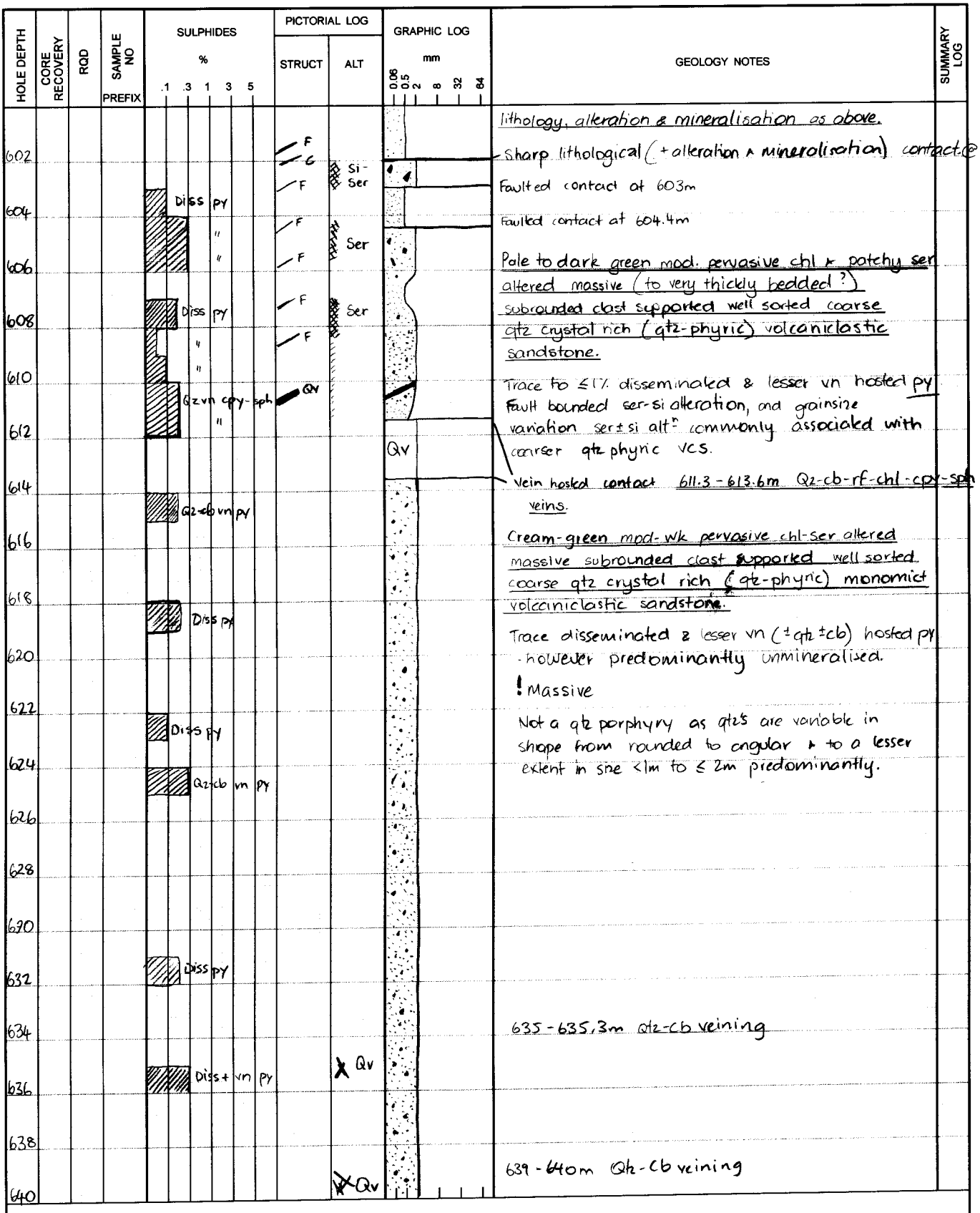
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 16 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
			Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	1-5-2006
LOGGED BY:	NF



REMARKS

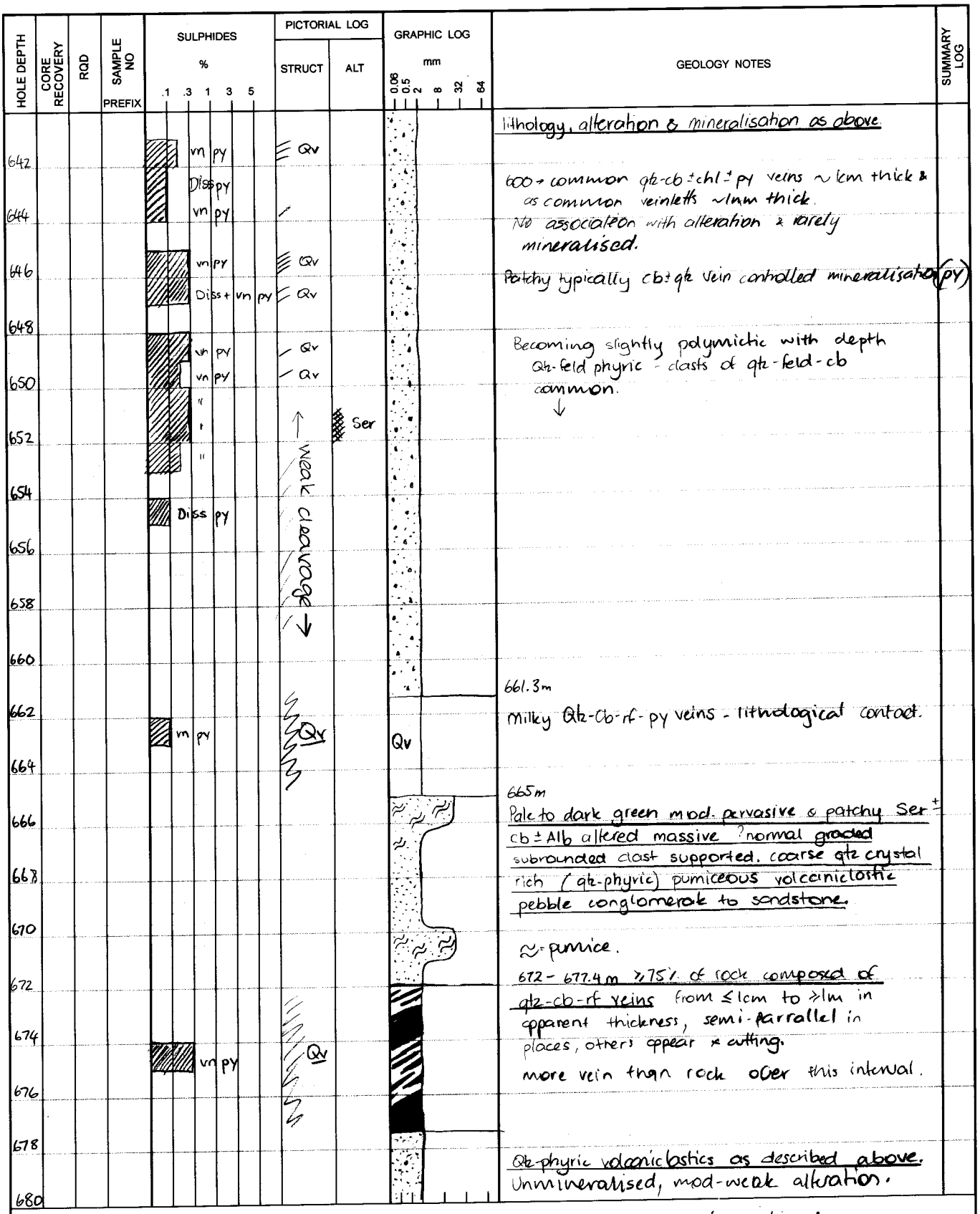
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 17 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
650	67.5	35.5	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	2·5·2006
LOGGED BY:	NF



REMARKS Relative to upper parts of hole, lower part unmineralised becoming less altered & mineralised with depth

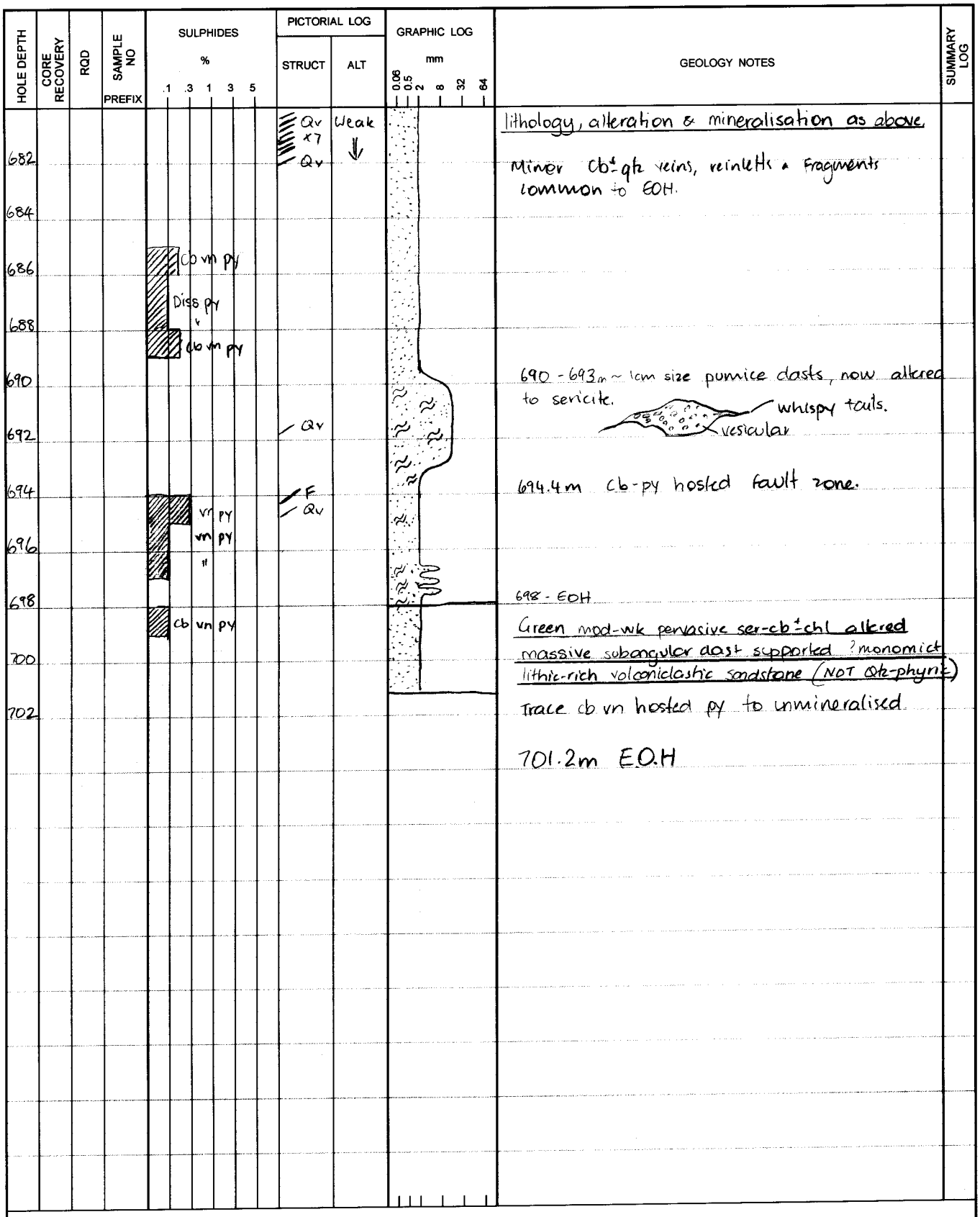
NEWCREST MINING LIMITED

DRILL HOLE No NCT008

SHEET 18 **OF** 18

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
701	67	32	Easting_AMG	
			Northing_AMG	
			Elevation (m)	
			Azimuth_ Mag	
			Dip	

PROJECT:	TASMANIA EL 20/2003
PROSPECT:	GARFIELD
DATE:	2.5.2006
LOGGED BY:	NF



REMARKS