

ASSESSMENT REPORT ON THE 1984
DIAMOND DRILLING PROGRAM
ON THE
HART CLAIM GROUP, B.C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,811

NTS 104 K/9E

58°36' N. Lat.

132°03' W. Long.

Atlin Mining Division

Owned By: Kerr Addison Mines Ltd.

Newmont Exploration Ltd.

Operated By: Kerr Addison Mines Ltd.

F. Daley
May 1985

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1. INTRODUCTION

a. Location

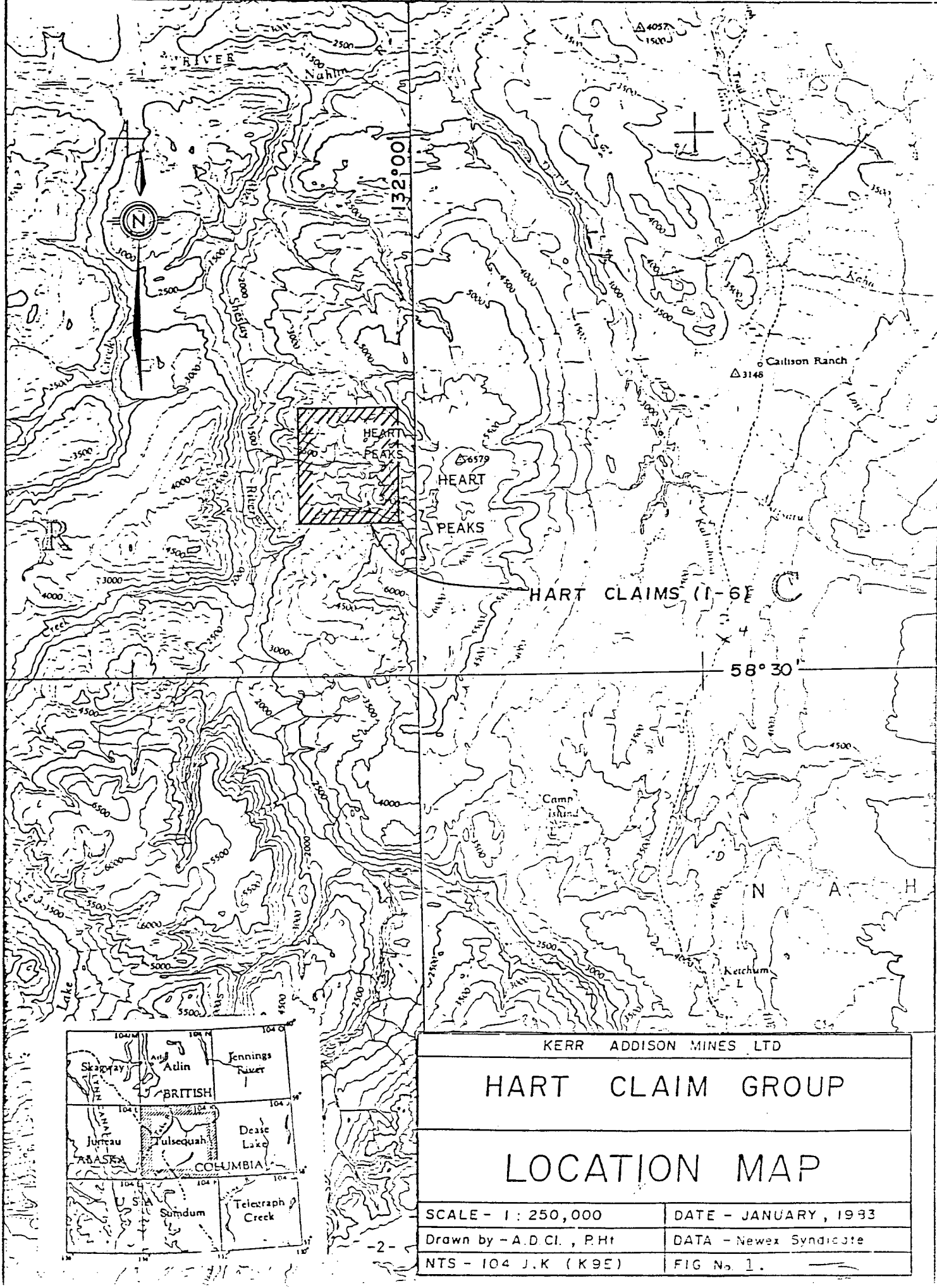
The Hart 1-6 claim group is approximately 145 km south east of Atlin, B.C., centered at 58°36' north latitude and 132°03' west longitude. (Figure 1). All claims are within NTS 104K 9E and are assigned to the Atlin Mining Division. (Figure 2).

The 120-unit claim block covers the western slopes of 'Heart Peaks', 2 local basalt domes some 15-40km, north-east of the eastern boundary of the Coast Plutonic Complex. Elevations range from 850m along the western claim boundary to 1750m across the plateau at the eastern margin. Several recent volcanic edifices form prominent peaks of 1500-1600m elevations.

Vegetation in the lower western area consists of second growth pine and spruce. Alpine conditions prevail over most of the property above 1150m elevation and consist of various grasses, moss, buckbrush, alder and dwarf fir. Many areas of the claims, including steep talus slopes and plateaus to the east, have no vegetation cover.

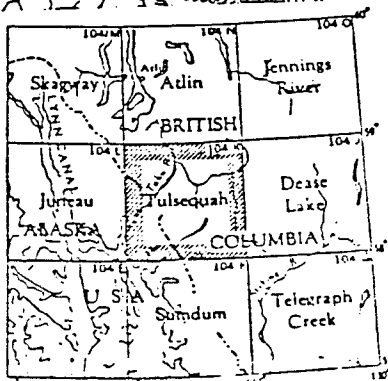
b. Access

Helicopter transportation is the only means of access to the Hart Claim group. Float-equipped fixed wing support is possible from Trapper Lake (35km SW) or Camp Island Lake (20km SE). In 1984, charter helicopter service was available in Atlin, Telegraph Creek and Dease Lake.



HART CLAIMS (1-6) C

58° 30'

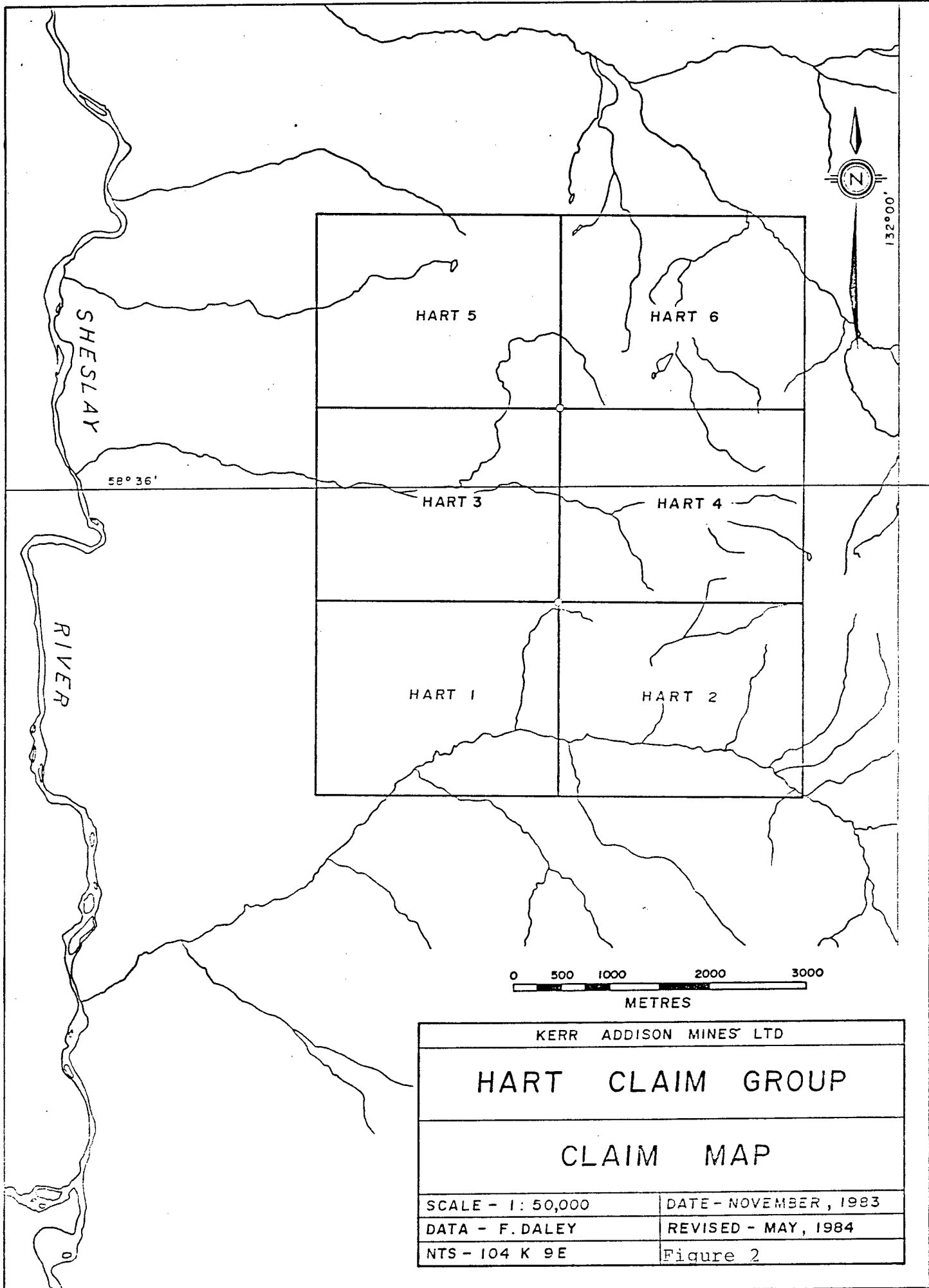


KERR ADDISON MINES LTD

HART CLAIM GROUP

LOCATION MAP

SCALE - 1 : 250,000	DATE - JANUARY, 1993
Drawn by - A.D. Cl., P.Ht	DATA - Newex Syndicate
NTS - 104 J.K (K95)	FIG No. 1.



c. Previous Exploration

Prospecting in 1980 by a crew of J.C. Stephen's Ltd. personnel located rusty weathering quartz veins within siliceous and pyritic rhyolite and trachyte breccias. Rock geochem analyses showed the veins to have anomalous precious metal content. The Hart 1-6 claims, totalling 120 units, were staked in June 1981 by J.C. Stephen on behalf of the Newex Syndicate (Newmont, Lornex and Stephen), and transferred from J.C. Stephen to Newmont Mines Ltd. by a bill of sale recorded 12 March 1983.

As manager, J.C. Stephen Ltd. ran a 1981 geological and geochemical program. 140 man days were spent prospecting, gridding and mapping new showings, and collecting 339 rock, soil and talus samples for geochem analyses. Values up to 15 oz/t Ag and 6500 ppb Au were recorded in rock samples.

In 1982, J.C. Stephen Ltd. conducted another geological and geochemical program for the Newex Syndicate. The property was mapped on a 1:5000 scale and quartz vein zones were trenched and sampled. No significant assay values were obtained during the 1982 program.

By a March 1983 Letter of Quit Claim, Lornex terminated their participation in the Hart Claims and all interest was transferred to Newmont. In February 1983 Kerr Addison Mines Ltd. entered into an agreement with Newmont to earn an interest in the property and assumed the role of operator for the 1983 exploration program.

d. 1983 Exploration Program

From June 24 to August 12, 1983, a crew of 4-5 people spent a total of 217 man-days on a program of regional and detailed mapping, grid construction, VLF EM-16 surveys, rock, talus and soil sampling and prospecting.

Results of these surveys are documented in Assessment Report Number 12141.

2. 1984 Drilling Program

From June 24 to August 23, Connors Drilling Ltd., on behalf of Kerr Addison Mines Ltd and Newmont Exploration of Canada Ltd., completed 8 holes totalling 1972.3m of NQ core drilling on the Hart Claim Group. Three areas were drilled; the Top Dome, Quartz Hill Zone and Steep Zone:

<u>Zone</u>	<u>Hole No's</u>	<u>Claim</u>	<u>Set-Ups</u>	<u>Metreage</u>
Top	84-1,2,3,8	Hart 3	3	1100.6
Qtz Hill	84-4,5	Hart 3	1	462.5
Steep	84-6,7	Hart 4	1	409.2
				<u>1972.3</u>

All core was logged, split and sampled on the property by Kerr Addison personnel between June 24 and August 29, 1984. The core is stored on the property at the site of the 1984 camp.

All core was split for geochemical +/-or assay analyses. Three metre samples of wallrock were analysed by rock geochemical techniques for Au(ppb) and Ag(ppm). Quartz veins and adjacent 1 metre hanging wall and footwall samples were analysed by fire assay technique for Au (oz/t) and Ag (oz/t) and geochemical technique for As(ppm) and Sb(ppm). All analyses were done by Chemex Labs Ltd. of North Vancouver. A total of 851 drill core and 50 surface samples were analysed.

Table one lists the grid co-ordinates, collar elevations, hole attitudes and lengths for drill holes 84-1 to 84-8.

TABLE 1

HART 1984

LOCATION, BEARING & DIP OF DDH 84-1 to 84-8

DDH #	1983 GRID		COLLAR ELEV. M.		DIP	BRG	LENGTH	
	North	East					Ft.	M
84-1	3+22N	2+45E	1450		-40	340		0
					-38	341	200	61
					-38	341	450	137
					-38	343	695	214.9
84-2	3+22N	2+45E	1450		-61	340		0
					-63	339	500	152
					-64	357	747	228
					-65	339	913	278.4
84-3	280N	1+35E	1445		-60	345	0	0
					-59	353	200	61
					-59	353	500	152
					-60	359	721	220
84-4	822N	300E	1338		-40	253		0
					-37	251	690	210.3
84-5	822 N	300 E	1338		-60	253	0	0
					-62	250	820	249.4
							827	252.1
84-6	1150N	268E	1230		-40	080	0	0
					-40	N.A.	310	94.5
					-42	080	629	191.8
84-7	1150N	268E	1230		-60	080	0	0
					-62	081	500	152.4
					-62	082	713	217.3
84-8	3+82N	3+70E	1410		-60	308	0	0
					-64	308	905	275.9
					-64	313	1271	387.5

TOTAL 6469 1972.3

3. - RESULTS AND INTERPRETATION

a. TOP ZONE

1983 mapping and rock geochemical surveys outlined 2 drill targets on Top Dome.

The objective of the 1984 drilling on Top Dome was to find the sources of quartz vein float material that assayed up to .9 oz/t Au and 36 oz/t Ag as well as test for depth continuity to an east-west vein system exposed on the north face of Top Dome.

Holes 84-1 (-40°) and 84-2 (-60°) were collared from the same 1983 grid location; 3+22N, 2+45E. Hole 84-3 (-60°) was approximately 105 m west, at the same elevation, at grid co-ordinates 2+80N, 1+35E. Hole 84-8 (-60°) was collared at 3+82N, 3+70E. (Figure 3)

Summary logs for holes 84-1, 2, 3 & 84-8 are described in the following section. Copies of the logs, with assays, are in Appendix I.

i. Hole 84-1

Upper 25m is mainly white to buff weathering heavily clay altered massive to flow laminated trachyte. Minor local sections of medium grey, siliceous, pyritic trachyte. Intense clay alteration of 3-7% feldspar phenocrysts. Up to 3% pyrite as disseminations and fracture fillings.

From 25-49m, noticeably less clay alteration, lithology is more medium grey weathering, silicified and pyritic flow laminated trachyte. Laminations are on a mm scale with fine grained pyrite parallel to lamination planes.

From 50 to 53m, on the hanging wall of a quartz-sulphide vein, a 3m section of buff to tan weathering, clay altered massive and flow laminated trachyte.

From 53 to 66m, virtually same as trachyte in 25-49m interval; mottled grey, siliceous and pyritic massive > flow laminated trachyte. Moderate to intense clay alteration of feldspar phenocrysts.

Minor, < 1m wide quartz amethyst vein at 66m. Crystalline to vuggy (~5% open space) with no visible sulphides.

From 67-70m, trachyte is mainly light grey, flow laminated, with noticeably more Fe-oxidation on fractures.

The section from 70-76m is visibly similar to 53-66m interval with 2-4% disseminated and fracture controlled pyrite in a medium grey, siliceous, locally flow laminated to massive trachyte.

A distinctive 7m section, from 76-83m, has an anomalous pyrite content of up to 7%, occurring in hairline micro veinlet stockworks and fine grained disseminations. Fractures have 0-3% white and green clay selvages. The trachyte in this interval is distinctive for its white to light grey weathering, silicification, and increase in pyrite content with depth.

From 83-93m, again a grey weathering, silicified, flow laminated trachyte with 1-3% pyrite parallel to laminations. Fairly constant moderate to intense clay alteration of 3-7% feldspar phenocrysts.

A 1m wide (drill thickness) banded quartz vein from 93-94m. Banding on mm scale at 45° to core axis. Minor, dark grey, siliceous, brecciated 'stringer' parallel to banding. Minor (<2%) visible pyrite.

From 94-112m, light to medium grey, flow laminated > massive trachyte with 2-5% pyrite parallel to laminations and 0-0-3% feldspar phenocrysts with 70-90% clay alteration. Local sections with up to 7% pyrite in micro stockworks. Several quartz veins <1m thick. A .5m wide quartz amethyst vein at 112m has 2% pyrite and minor arsenopyrite (?)

From 112 to 123m; mottled grey, silicified, pyritic, massive to weakly flow laminated trachyte.

At 124m, banded quartz vein, brecciated on hanging wall, pyrite-rich (7%) on footwall.

From 124-128m, same trachyte as Section 112-123m.

From 128-129m there is in situ brecciation and quartz flooding of the trachyte with inter-clastic pyrite stringers on a mm scale.

From 129-135m, same grey silicified, pyritic trachyte with minor, local in situ brecciation and 5mm quartz veinlets.

A banded quartz vein at 135m has a vuggy axis and 1-2% disseminated pyrite. Vein wall contacts have 1-2mm clay selvages.

From 135-138m; 2 minor white crystalline quartz veins in essentially same massive, pyritic and silicified trachyte.

From 139 to 144m the trachyte is locally brecciated with pyrite to 3% as disseminations and stringers, breccia consists of dark grey pyritic trachyte fragments in a lighter grey, finer grained trachyte matrix.

A .5cm wide grey quartz vein at 144.5m has noticeably strong clay altered hanging and footwalls.

From 145 to 149m, trachyte with in-situ trachyte breccia, similar to 139-144m.

From 149-151m, dark grey trachyte becoming more silicified and pyritic with depth (up to 5% pyrite).

At 151.5m, a 3cm wide quartz amethyst vein with <1% visible sulphides. Vein is colour banded and has <3% vug development.

From 151-155m, silicified trachyte with quartz flooding and quartz-pyrite micro veinlet stockworks. Distinct 'veins' in this zone are 1-1.5cm wide cockscomb crystalline quartz with 1-2% visible metallics.

From 155-158m, silicified and clay altered trachyte, clay alteration is best advanced along fractures.

From 158-172m trachyte is porphyritic with 15% feldspar phenocrysts weakly clay altered, most are < 4mm in size. One to three cm wide quartz veins are dominantly cockscomb crystalline quartz.

From 172 to 187m, phreatic explosion breccia with trachyte and Takwahoni sediment clasts, up to 10cm in diameter. Sediment clasts show bedding/colour banding and are argillically altered. Pyrite occurs both within clasts and in matrix and along fractures. Minor, < 2cm quartz veining with 3-10% open spaces and < 2% pyrite and metallics.

Breccia from 187 to 194m is better sorted, more homolithic, fine grained.

Quartz veins from 194-195m in the explosion breccia are vuggy (3-15%) +/- crystalline, not banded.

From 195-203m, explosion breccia with clasts up to 20cm, trachyte and sediments. Pyrite (1-3%) in matrix and clasts.

From 204 to 205m several small quartz veins in breccia, 1.5-2cm wide with <1% visible sulphides.

From 205 to 215m (end of hole); same phreatic explosion breccia, relatively coarse with fragments up to 20cm and moderately strong clay altered zones.

ii. Hole 84-2

- 19.98 - 27.5m - Medium grey to buff coloured massive trachyte.
1-2% disseminated pyrite; 5-7% clay altered
kspars phenocrysts.
- 27.5 - 27.75m - Quartz vein 2cm at 15° to core axis.
- <1% metallics.
- 27.75 - 30.6m - Trachyte as 19.98 - 27.5m.
- Quartz veins:
27.8-27.9 - 2.8cm @ 20° to CA* <1% metallics
28.2-28.55 - 10° to CA* <1% metallics
28.7 - 0.75cm @ 15° to CA
29.2-30.6m - crushed
- 30.6 - 34.1m - Buff coloured massive trachyte
- 3-6% pyrite, 5% clay altered Kspars phenocrysts
- Quartz vein @ 32m, 0.5cm @ 20° to CA
- 34.1 - 48.8m - Massive to weakly flow banded trachyte with
3-5% pyrite as disseminations and fracture
fillings. Trachyte more flow laminated with
depth.
- 48.8 - 61.4m - Massive to weakly flow banded pyritic trachyte
with 3-5% pyrite. Clay alteration along
fractures.
- 61.4 - 61.6m - Quartz vein, 20° to CA Vuggy and sheath crystal
development. - 1% very fine grained metallics
- 61.6 - 67.3 m - Trachyte as 48.8 - 61.4

* CA - Core Axis

67.3 - 67.4 m - Quartz vein (cored in chips) White to tan quartz w/minor amethyst. No banding.

~1% metallics.

67.4 - 92.15m - Massive to weakly flow banded silicic and pyritic trachyte. Kspar from 1-4%. 3-6% pyrite.

- Quartz veins: 83m - 5mm @5° to CA
88m - 3mm @25° to CA
92.1-92.15 - 4.5cm @ 30° to CA

92.15 - 95.35m - Massive silicic and pyritic trachyte. 3-5% pyrite

95.35 - 119.6m - as above, massive to flow laminated trachyte
2-5% pyrite parallel to flow laminations
Quartz stockwork @ 114.8 - 115.2m.

119.6 - 120.7m - Quartz vein 10-20° to CA. 1-2cm wide.
<1% sooty grey metallics.

120.7 - 121.3m - Trachyte as 95.4 - 119.6.

121.3 - 121.8m - Quartz stockwork 5mm - 2cm wide veins.
<1% metallics.

121.8 - 124.4m - Trachyte as 95.4 - 119.6.

124.4 - 125.3m - Quartz vein 1-2cm wide @ 10-15° to CA

125.3 - 125.6m - Quartz vein 3-7mm wide @ 35° to CA

125.6 - 135.1m - Trachyte as 95.4 - 119.6 but with greater pyrite, 5-7%.

- Quartz veins: 128m 5mm @ 25° to CA
3mm @ 35° to CA

- 135.1 - 154.4m - Massive medium to light grey silicic and pyritic trachyte - less silicic than before. 2-5% pyrite . Quartz veinlets @ 136.6 - 136.8 m, 145.8m, 148.9m, 149.9m, 150.6m. All < 5mm.
- 154.4 - 154.9m - Quartz vein 6mm @ 5° to CA containing pyrite and clay .
- 154.9 - 158.1m - Light buff grey trachyte as 135.1 - 154.4m.
- 158.1 - 158.4m - Two quartz veinlets 158.1 - 6-8mm @ 20° to CA
158.4 - 1cm @ 20° to CA.
- 158.4 - 172.3m - Massive to weakly flow laminated trachyte - silicic and pyritic. 5-7% pyrite, 1-3% clay altered Kspar phenocrysts.
- 172.3 - 172.4m - Breccia fragment.
- 172.4 - 193.6m - Massive trachyte, silicic and becoming more clay altered with depth. 1% breccia fragments. 5-8% pyrite.
Quartz veins: 183.9 - 184.1 2cm @ 20-25° to CA
Quartz amethyst.
186.5-186.83 8mm @ 15° to CA
188.4-188.8 2 veinlets 3-5mm @ 10-15° to CA
- 193.6 - 196.0m - Clay altered brecciated fault zone.
- 196.0 - 210.3m - Trachyte, massive, silicic to weakly clay altered. 3-6% pyrite.

- 210.3 - 210.6m - Brecciated trachyte in clay altered matrix,
2-3% pyrite.
- 210.6 - 217.45m- Massive, clay altered trachyte, 2-3% pyrite.
- 217.45 - 222.4m- Massive to porphyritic, silicic and clay
altered trachyte. Minor quartz filled
fractures. 2-3% pyrite.
- 222.4 - 223.4m - Clay gouge and intensely clay altered trachyte.
- 223.4 - 237 m - Porphyritic trachyte with 15% clay altered
Kspar phenocrysts. 3-4% pyrite.
- 237 - 237.45m - Pyrite vein 2mm wide @ 5° to CA
- 237.45 - 257.1m- Porphyritic trachyte as at 223.4-237m.
3-4% pyrite.
- 257.1 - 279.75m- Explosion breccia, light to medium grey.
Sub-angular clasts up to 20cm of massive
trachyte and laminated Takwahoni sediments.
3-4% pyrite.

iii. Hole 84-3

Casing to 9.2m.

- 1 - 5.5m - Silicic, massive to weakly flow laminated trachyte - 1% pyrite.
 - Ground quartz vein in 1st 3m (no meterage available) 1-1.5 cm wide. White-grey quartz with incorporated, clay altered breccia fragments.
- 5.8 - 5.9m - Quartz vein, 7 mm wide, 10° to core axis.
- 5.9 - 17.4m - Flow laminated trachyte, locally clay altered.
 - 9.1- 9.2m quartz flooded and brecciated trachyte. <1% pyrite.
- 17.4 - 17.5m - Ground quartz vein, massive, white to grey quartz with approximately 1% metallics. Vein is approximately 1.5cm wide.
- 17.5 - 27.8m - Clay altered massive to weakly flow laminated trachyte. <1% pyrite.
- 27.8 - 51.7m - Silicified, flow laminated trachyte. <1% pyrite
- 51.7 - 51.8m - 1 - 1.5cm wide quartz clay veinlet @ 30° to core axis. 1mm ankerite clay selvages.
- 51.8 - 62.7m - As 27.8 - 51.7
 - Local ankerite stockwork fracture filled zones @ 60.0 and 61.3m.
 - 58.75 - 5mm crystal quartz veinlet @ 50° to core axis. <1% pyrite along boundaries.
- 62.7 - 70.2m - Silicified and pyritic flow laminated trachyte. Local pyrite content 7-10% along fractures, parallel to laminations and as minor sulfide clots to 3mm.

- 70.2 - 73.5 m - Distinctive tan to orange-brown flow laminated trachyte becoming more clay altered with depth. 1-3% pyrite.
- 73.5 - 75.4 m - Quartz vein, massive white quartz with 5% black, fine grained metallics in tan, silicified brecciated fragments. Lower 0.6m of vein up to 25% black metallics. Vein contact @ 30° to core axis.
- 75.4 - 90.5 m - Grey, silicified, massive to flow laminated pyritic trachyte. 2-5% pyrite.
- Quartz veinlets @ 77.1m, 1cm wide @ 25° to CA
 - 80.8, 5mm wide @ 25° to CA
 - Trachyte becomes coarser to porphyritic in local sections.
- 90.5 - 94.2 m - Massive to weakly flow laminated mottled grey silicified and pyritic trachyte.
- 1-2% clay altered breccia fragments.
 - Concentrated zone of disseminated pyrite @ 91.6 - 91.8m, up to 10% pyrite.
 - Quartz veinlets: 92.1m, white quartz with 1mm wide pyrite envelopes.
 - 92.35m - white to grey quartz with 3% pyrite.
- 94.2 - 95.9 m - Trachyte breccia.
- Quartz vein @ 94.9m with 5mm quartz amethyst along axis and 3mm wide fine crystalline white quartz borders. <1% metallics.
- 95.9 - 98.5 m - Trachyte as 90.5 to 94.2m.
- 98.5 - 99.1 m - Massive silicic and pyritic trachyte. 2% pyrite.

- 99.1 - 101.15 - Trachyte breccia, clay altered and becoming more silicified with depth . 2% pyrite.
- 101.15 - 103.7 - Silicified and pyritic massive to flow banded trachyte. 3-5% pyrite.
- 103.7 - 104.45 - Trachyte breccia.
- 104.45 - 108.7 - Massive silicic and pyritic trachyte.
3-4% pyrite.
- four parallel quartz veinlets @ 106-106.1m,
all 3mm wide @ 25° to core axis.
- 108.7 - 109.1 - Trachyte breccia 2-3% pyrite.
- 109.1 - 112.8 - Massive silicic and pyritic trachyte. 3-4% pyrite. Breccia lined fracture @ 112.8m.
- 112.8 - 113.3 - Trachyte breccia. 5-6% pyrite.
- 113.3 - 115.15 - Trachyte, massive, silicified and pyritic. 5% pyrite.
- 115.15 - 115.3 - Quartz vein, banded white quartz with 2cm of coarsely crystalline quartz along axis
- No visible metallics.
- 115.3 - 135.45m - Mottled, medium grey, siliceous and pyritic, massive to weakly flow laminated trachyte.
Minor quartz veining at 127.1-127.3m; pyrite filled fractures at 128.4m, 135.0m; in situ brecciation at 117.1-117.3m, 119m.
- 135.45 - 135.9m - Trachyte breccia 2% pyrite.
- 135.9 - 142.3m - Massive silicic and pyritic trachyte 5-7% pyrite.
- 142.3 - 142.5m - Brecciated and clay altered trachyte with silicified trachyte clasts in a clay matrix. 3% pyrite.

- 142.5 - 151.6 m - Massive silicified and pyritic trachyte.
3-7% pyrite. Dark grey.
- 151.6 - 169.6 m - As above with light grey trachyte.
- 169.6 - 175.8 m - Mottled buff to medium grey silicic and
pyritic trachyte, 2-5% pyrite.
- 175.8 - 179.0 m - Broken and clay altered trachyte, 3-5% pyrite
- 179.0 - 191.7 m - Massive light to medium grey silicic and
pyritic trachyte, 2-3% pyrite.
- 191.7 - 192.4 m - Clay rich brecciated gouge - 50% clay altered
trachyte clasts, 50% clay matrix.
- 192.4 - 219.8 m - Massive light grey-green pyritic trachyte,
green tint probably due to epidote-montmor-
illonite alteration, 2-3% pyrite.

iv. Hole 84-8

Casing to 12.2 m

- 12.2 - 19.2 m - Clay altered massive to weakly flow laminated trachyte, 1% finely disseminated pyrite, ground quartz veins @ 14-14.9m and 15.5 - 16.8m (veins < 2cm wide)
- 19.2 - 29.4 m - Clay gouge with brecciated trachyte fragments, < 1% pyrite.
- 29.4 - 33.9 m - Clay altered trachyte, < 1% pyrite, quartz vein @ 31.7m, 1cm wide.
- 33.9 - 34.1 m - Clay gouge.
- 34.1 - 55.6 m - Clay altered massive pyritic trachyte, 3-5% pyrite, quartz veins, 39.7 - 39.8, 4mm @ 25° to core axis.
- 55.6 - 156.8 m - Clay altered massive trachyte with local flow laminations. Clay alteration decreases below 90m.
- 2-4% ksp, 1% breccia fragments (intensely clay altered). 2-3% pyrite. Quartz veins:
69.2m - 2 veins, 1 and 1.5cm wide @ 35° to core axis; 71.4m 2cm @ 30° to core axis;
97.4m - 1cm @ 27° to core axis; 106m - 1.5cm @ 30° to core axis; 106.1 - 106.2m 3mm wide veinlet paralleling core axis and separate 6mm wide vein @ 45° to core Axis.
- 156.8 - 160.8 m - Massive clay altered trachyte similar to last interval except for an increase in Kspar phenocrysts (4-5%), 1-2% pyrite.
- 160.8 - 174.5 m - As above with weak local flow laminations, 2-3% pyrite.

- 174.5 - 204.5m - Clay altered weakly flow laminated trachyte
2% green clay altered breccia fragments,
3-5% clay altered kspar phenocrysts.
3-4% pyrite.
- 204.5 - 225.9m - Clay altered massive trachyte, grey-green in
colour (darker colour is more silicified)
Local faint flow laminations, 4% pyrite.
2mm wide quartz-pyrite vein @ 211.8 m.
- 225.9 - 232.9m - Trachyte as above except with an increase in
kspar phenocrysts. 4% pyrite. Quartz veins:
227 - 227.4 m , 3mm wide quartz veinlet
sub-parallel to core axis.
229.4 - 229.8, 7mm @ 5° to core axis.
231.6 - 231.7m, 6mm @ sub-parallel to core axis.
232.6 - 232.9m, 1cm, sub-parallel to core axis.
- 232.9 - 251.7m - Medium grey, massive clay altered pyritic
trachyte, 3-4% kspar phenocrysts, 1% clay
altered breccia fragments, 3-4% pyrite.
- 251.7 - 256.3m - Trachyte as above with increased fracture
controlled pyrite with dendritic envelopes.
3-4% pyrite.
- 256.3 - 264.6m - Trachyte as 232.9 - 251.7.
- 264.4 - 279.5m - Trachyte as above with black alteration
envelopes (5mm wide) along pyrite lined
fractures - 3-4% pyrite.
- 279.5 - 307.3m - Medium grey massive and pyritic clay altered
trachyte. 2-3% pyrite.
- 307.3 - 324.1m - Porphyritic trachyte with weak clay alteration.
7-12% kspar phenocrysts, 3-4% pyrite.

- 324.1 - 337.6m - Clay altered massive and pyritic trachyte
with patchy kspar phenocrysts and pyrite.
1-4% kspar, 1-3% pyrite.
- 337.6 - 342.3m - Clay altered massive and pyritic trachyte
with 1-2% kspar phenocrysts and 1-2% pyrite.
Core is highly fractured and broken.
- 342.3 - 365.5m - Highly fractured clay altered pyritic
trachyte with local fracture controlled, in situ
trachyte breccia. 3-4% pyrite.
- 365.5 - 378.6m - Intensely clay altered explosion breccia.
3-4% pyrite.

TOP ZONE

Assay/geochemical results indicate low precious metal concentrations for both quartz veins and wallrocks, including pyritic trachyte and explosion breccia. Au content varies from .003 oz/t to .01 oz/t, Ag from .01 oz/t to 2 oz/t with most $< .2$ oz/t. Although values are slightly higher in the quartz veins, they are the same order of magnitude as in the wallrocks. There does not appear to be an obvious strong correlation between Au-Ag and visible sulphide content, alteration, or depth.

To date, veining does not exhibit much continuity. There were no significant amounts or thicknesses of banded quartz veins found in Holes 84-1, 2,3 and 8. The frequency and nature of the veins resembled more of a stockwork development, indicating that the area drilled is possibly high up in an epithermal setting. The area near Hole 84-3 appears to be peripheral or 'distal' to the main area of hydrothermal activity. This is shown by:

- i. Decrease in the amount of quartz veining
- ii. Decrease in the strength of silicification and clay alteration
- iii. Lack of explosion breccia in stratigraphy.

Hydrothermal fluids were both siliceous and metalliferous. Pyrite appears to be both syn and epigenetic; occurring as sulphide bands parallel to flow banding in trachyte and as cross cutting fracture fillings with dendritic patterns.

Clay alteration may be a surficial feature in Hole 84-1 but there is a distinct increase in clay alteration with depth in Hole 84-2, possibly related to fluids associated with the explosion breccia.

The relatively minor quartz veining intersected so far is not indicative of the voluminous banded quartz vein float seen on the south side of Top Dome. There still appears to be potential for increased metals at depth. The following conclusions may be drawn from the 1984 drilling on the Top Dome. This is shown by:

- i. A total lack of base metal sulphides in the system drilled to date.
- ii. An increase in clay alteration with depth in 84-2 and breccia at the bottom of the deepest hole (84-8) are a good indication of deep fluid movement.
- iii. Massive to semi-massive quartz-pyrite veinlets on a millimetre scale in Hole 84-8 possibly indicate increasing sulphide content with depth.

MINERALIZATION

No significant economic mineralization was encountered in Holes 84-1, 2, 3 or 84-8. The best intersections were:

<u>Hole</u>	<u>Interval</u>	<u>Au(oz/t)</u>	<u>Ag(oz/t)</u>
84-1	114.7 - 114.9	.004	2.14
84-2	28.6 - 29.2	.003	1.6
	92.1 - 92.2	.052	0.43
	200.8 - 201.0	.044	1.14
84-3	73.2 - 75.4	.006	3.02
84-8	53.9 - 54.9	.01	.4

b. QUARTZ HILL ZONE

Drilling on the Quartz Hill Zone tested a surface showing of .5-1.5m wide white crystalline, quartz veins. The veins trend roughly north-south within the main body of the phreatic explosion breccia along the east ridge of Top Dome.* 1983 rock sampling returned anomalous but low Au and Ag values associated with the quartz veins. The veins are typically massive to crystalline quartz, commonly with vuggy textures and sheath crystal development. Several veins have quartz crystals to .5cm wide with clear grey interiors and cloudy white 'rims', possibly indicating a change in rate of crystallization. The Quartz Hill veins differ from the Top Zone veins in that;

- i. Their strike is roughly north-south whereas the Top Dome veins trend more east-west
- ii. The Quartz Hill veins are not banded in mineralogy +/- or colour
- iii. They are mainly hosted by the explosion breccia, unlike the trachyte hosted Top Dome veins.

*(Figure 3)

i. Hole 84-4

The first 26m is a phreatic explosion breccia with sub-angular clasts of trachyte and Takwahoni sediments up to 35cm in width. Pyrite occurs both as disseminations within the matrix as well as within individual fragments.

A 6cm wide massive white quartz vein with about 4% open vugs and no visible metallics occurs at 26m .

From 26 to 30m, same explosion breccias as above.

From 30 to 33m is a breccia with large (up to 20cm) trachyte clasts in a matrix of fine to medium grained explosion breccia. The explosion breccia appears to be infilling fractures within the trachyte. Trachyte has 1% finely disseminated pyrite and 3% clay altered feldspar phenocrysts.

Trachyte and in-situ trachyte breccia occurs between 33 and 65m. The trachyte is light to medium grey, silicified and pyritic with 3-5% clay altered Kspar phenocrysts. The in-situ breccia shows only minor rotation of fragments in a silicic and pyritic matrix. Breccia has 1-15% open space which is lined with quartz and ankerite(?)

Within this interval, quartz veins occur at:

40m; 6cm wide @ 60° to core axis with pyrite and arsenopyrite
41.1 - 41.6; 30cm wide @ 60° to core axis, banded to sheath textured quartz with about 3% open space and 1% visible metallics.

45.4m; 1 cm wide @ 50° to core axis

48 m ; 1.5cm wide @ 40° to core axis

50 m ; 2cm wide @ 50° to core axis with no visible metallics

52 m ; 1cm wide @ 60° to core axis, cockscomb crystal growth.

- 57 m ; 2cm wide @ 50° to core axis, coarsely crystalline cockscombe quartz, no visible sulphides.
- 58 m ; 12cm wide @ 40° to core axis, massive white quartz with 5% open space.
- 59.5m; 4cm wide weakly banded to massive quartz with 1% open space and no visible metallics.

From 65 to 73m, pyritic and clay altered explosion breccia, reasonably well sorted with about 95% of trachyte and sediment clasts <1cm in size. Two pulses of brecciation seen along hangingwall contact. Main body of breccia has rough 'alignment' of clast @ 25° to core axis.

From 73 to 78m, massive, silicic and pyritic trachyte with local in-situ trachyte breccia. Up to 3% Kspar phenocrysts in trachyte. 2-4% pyrite as fracture fillings, disseminations and 'sulphide rims' on some fragments. Minor quartz veining, 5cm wide, has low sulphide content.

Massive to weakly flow laminated trachyte and trachyte breccia occurs between 78 and 144m. Trachyte contains 4-6% Kspar phenocrysts and 4-5% disseminated and fracture controlled pyrite. Some trachyte fragments also have a <1mm thick pyrite rim. Clasts are mainly medium grey to buff in a dark grey silicic and pyritic matrix. Fractures and vugs are lined with quartz+/- Ankerite. Minor quartz veinlets all <10cm. quartz "flooding" occurs at 87.8m, 91.2m, 92.2m, 94.9m, 95.5m, 96m, 97.2m, 100.3m, 101.2m, 111.8m, 113.8m, 115.7m, 122.8m, 128.3m, and 141.7m. The trachyte and trachyte breccia becomes progressively more clay altered towards the end of this interval.

From 144 to 167.6m is a very distinctive, intensely clay altered explosion breccia within sections of equally clay altered tuffaceous sediment. The intensity of clay alteration resembles fault gouge and mud in places. 3-15% pyrite occurs as disseminations in gouge (matrix) and as sulphide clasts in breccia. Locally, tuffaceous sediment shows bedding.

From 167.6 to 210.3m is an intensely clay altered explosion breccia, similar to previous section but with two noticeable differences;

- i. Absence of tuffaceous sediment
- ii. Increase in abundance of clasts to about 50% .
Most clasts are 2cm in diameter, 90-100% clay altered and appear mainly as smears or streaks. Less than 1% of the clasts are black Takwahoni sediments.
3-5% pyrite occurs as fine grained aggregates within breccia and as disseminations in the matrix.

ii. Hole 84-5

- 6.4 - 11.8m - Trachyte breccia, 4-6% pyrite. Silicic and pyritic matrix, massive to weakly flow laminated silicic and pyritic trachyte fragments.
- 11.8 - 50.6m - Explosion breccia, dominantly trachyte clasts with greater than 10% fine grained matrix. Evidence of multi-stage brecciation. 1-3% sediment clasts, 2% pyrite in matrix. Some larger trachyte fragments contain rounded to elongate fragments in a flow laminated matrix. 1.5cm vein @ 20° to CA @ 49.25m. 4cm vein @ 30° to CA @ 50.1m.
- 50.6 - 64.3m - Trachyte with trachyte breccia, 3-5% pyrite, 70% of which occurs in the matrix. Massive to weakly flow banded trachyte with angular trachyte fragments cemented with a pyritic and silicic matrix.
- Quartz veins: 50.83 - 1cm @ 40° to core axis
50.95 - 1cm @ 40° to core axis
54.3 - 1.5cm @ 55° to core axis
55.6 - 1-1.5cm @ 30° to core axis
57.8 - 1cm @ 35° to core axis
62.1 - 3cm @ 30° to core axis
- 64.3 - 65.8m - Quartz vein sub-parallel to core axis.
- 65.8 - 105.3m - Trachyte with trachyte breccia as 50.6-64.3m
3% pyrite
- Quartz veins: 65.95-66.11 - ground, 3cm wide
68.1 - 68.4 - vuggy quartz
veinlet, stockwork
68.8-69.21 - vuggy quartz vein-
let, stockwork

65.8 - 105.3m continued

- Quartz veins:

74.3 - 1cm @ 40° to CA-3% pyrite-
incorporated trachyte fragments

75.6 clay-pyrite veinlet 5mm @ 40° to CA

- Sulfide concentrated areas:

84.3 - 84.6m

91.6 - 92.0m

92.8 - 93.2m

105.3 - 111.8m - Clay altered trachyte breccia

111.8 - 130.9m - Trachyte breccia, 3-6% pyrite.

Concentrations of pyrite occur at:

115.1 - 115.3m

116.75 - 117.0m

125.51 - 128.4m

128.4 - 128.6m

130.9 - 144.7m - Explosion breccia: 40% fragments, 60% clay
rich matrix.

98% trachyte fragments

1-2% pyrite clasts

1% sediment clasts

144.7 - 180.4m - Extremely clay altered explosion breccia

Pale green clasts of clay-epidote? in a
grey clay matrix

2-4% pyrite

180.4 - 185.2m - Grey clay gouge, 2-3% pyrite

185.2 - 191.8m - Explosion breccia - intensely clay altered
at beginning of interval becoming silicified
w/depth. 3% pyrite

191.8 - 211.4m - Trachyte with trachyte breccia. Quartz veins:
1cm @45° to core axis at 192.1m. At 193.2m, poor
recovery of a 2.5-3cm wide vuggy crystalline quartz
vein.

211.4 - 211.6m - Intensely clay altered, flow
laminated trachyte.

211.6 - 234.7m - Extremely clay altered explosion breccia
(becoming less altered with depth)
1-2% pyrite.

234.7 - 252.0m - Grey clay gouge. 1% pyrite.

QUARTZ HILL ZONE

The intensity of silicification and clay alteration in Holes 84-4 and 84-5 is the strongest seen in the 1984 drilling. A 'quartz flooded' section of trachyte and trachyte breccia in Hole 84-4 from 25m to 140m has an average gold content of .015 oz/t. The trachyte and trachyte breccia is silicified and vuggy, with up to 15% open space cavities now lined with quartz crystals and ankerite. The amount of vugginess, alteration and presence of ankerite are all unique to the Quartz Hill setting.

There is visible arsenopyrite associated with the gold enriched zone, occurring both in quartz veins and the silicified trachyte breccia. There is no appreciable Au or Ag associated with either the phreatic explosion breccia or the intensely clay altered breccia and tuffaceous sediment.

The intense clay altered zone on the footwall of the gold enriched zone, may be fault related as some of the core now resembles gouge or mud and some of the relic breccia fragments are smeared and elongate. The gold enriched zone is possibly a sub-horizontal tabular zone extending more north-south along the ridge than sub vertical.

c. STEEP ZONE

The Steep Zone was drilled to test a setting similar to that at Quartz Hill, massive to crystalline north trending quartz veins within the explosion breccia.* Previous surface sampling indicated a precious metal content of 200-500 ppb Au and 10-15 ppm Ag in veins .5 to 1.5m wide.

*(Figure 3)

i. Hole 84-6

- 14.4 - 41.4m - Explosion breccia: 95% trachyte clasts
5% sedimentary clasts
60% clast >0.5cm
40% clast-matrix <0.5cm
Breccia is clay altered and oxidized,
1% pyrite
- 41.4 - 41.5m - Quartz vein 4cm @ 40° to CA
- 41.5 - 56.25m - Explosion breccia: as 14.4-41.4m becoming progressively more clay altered
1% pyrite
- 56.25 - 68m - Explosion breccia: as 14.4-14.6 with no Fe Oxide and a greater percentage of pyrite
4-6% pyrite
66.6 quartz veinlet stockwork
- 68 - 68.35m - Clay gouge - contact between breccia and trachyte
- 68.35 - 77.3m - Massive trachyte - silicic and pyritic
2% pyrite - 76.4 vuggy quartz @ 50° to CA

- 77.3 - 77.4m - As 68-68.35m
- 77.4 - 91.5m - Explosion breccia as 14.4 - 41.4 except very little Fe Oxidation - 1% pyrite.
- 91.5 - 126.7m - Trachyte breccia- pyritic and clay altered (2.5 silica) - not an in-situ trachyte breccia, this breccia is more like an intrusion breccia with rounded clasts which have a graded contact with the matrix i.e. as Xenolith .
- 126.7 - 154.5m - Trachyte - massive, silicic and pyritic.
1-6% pyrite dominantly fracture controlled.
129 - 129.3 - Quartz vein stockwork
128.5 Quartz veinlet 1mm-1cm wide @ 25° to CA
131.2 - 131.45 - 2 veins 2cm wide @ 25° and 45° to CA
139.2 - vuggy quartz stockwork(4mm wide veinlets)
- 154.5 - 191.6m - Porphyritic silicic and pyritic trachyte with in-situ trachyte breccia. Trachyte breccia is more pyritic than massive trachyte with 4-6% total pyrite.
Locally pyrite can increase to >10%
Quartz veins: 155.1 - Quartz clay vein 1cm @ 30° to CA
176.4 - Quartz pyrite vein 1cm @ 60° to CA

Sub rounded clasts in some cases have very faint borders with porphyritic to massive trachyte matrix. Ratio of clasts to matrix about 1:3. Py in matrix, rimming breccia clasts and along fractures within clasts. Dominant fracture direction at 45° to core axis. Most fracture not silica filled.

ii. Hole 84-7

- 27.4 - 33.3m - Explosion breccia: 92% trachyte clasts,
4% sediment clasts, 3% clay clasts,
1% pyrite clasts.
70 % clasts, 30% matrix.
- 33.3 - 36.55m - Oxidized and clay altered massive trachyte
- 36.55 - 67.3m - Explosion breccia: as above with increased
clay alteration.
At 62.4m, ground quartz vein.
- 67.3 - 69.1m - Trachyte with trachyte breccia . 2% pyrite.
Quartz veins: 68.2m 1cm @ 35° to CA
69.1 10cm @ 60° to CA
- 69.1 - 69.7m - Explosion breccia
- 69.7 - 96.1m - Trachyte - massive, silicic and pyritic.
3% pyrite. Patchy quartz flooding and
clay alteration.
- 96.1 - 96.8m - Explosion breccia : 20% fragments, 75% matrix.
80% trachyte clasts, 15% sediment clasts,
5% pyrite.
- 96.8 - 121.1m - Porphyritic, silicic and pyritic trachyte
Quartz flooded with local zones
of quartz-pyrite infilling along fractures
producing stockworks and vuggy quartz cavities.

121.1 - 121.9 m - In-situ trachyte breccia. 7% pyrite

121.9 - 128.61m - Trachyte as 96.8-121.1 . 5% pyrite

128.61 - 174.2m - Porphyritic, silicic and pyritic trachyte -
green-grey translucent matrix.
3-5% pyrite.

135.1m - gypsum vein, 1cm @ 35°
- local visible arsenopyrite.

152.34 152.5 - quartz vein 1cm @ 10°

159 - 159.2 - vuggy quartz veinlet stockwork
veinlets <1cm.

174.2 - 179.3m - Trachyte as 96.8 - 121.1m

179.3 - 207.1m - Trachyte as 128.61 - 174.2m

191.4 - 191.5 - quartz vein 7cm @ 60° to CA

207.1 - 211.1m - Trachyte as 96.8 - 121.1m.

211.1 - 217.3m - Trachyte as 128.61 - 172.4m.

STEEP ZONE

Although similar to the Quartz Hill Zone in its geologic setting, the Steep Zone differs dramatically in that there is significantly less alteration, (both silica and clay), no appreciable quartz 'flooding' or ankerite and very low precious metal content in both the quartz veining and the wall rocks. Gold content has a maximum of .01 oz/t over a 1 m interval; most analyses are in the 20ppb - 100ppb range. Silver varies from 1 to 6ppm.

Precious metal content in drill core is in the same order of magnitude as previous surface sampling and shows no apparent increase with depth.

APPENDIX I

HART 1984 ASSESSMENT REPORT

APPENDIX I

Itemized Cost Statement

A. Wages

i.	Fred Daley	June 16 - Sept 1, 1984	
	78 days x \$130/day		\$10,140
ii.	Gay Wingert	June 16 - Sept 1, 1984	
	78 days x \$85/day		6,630
iii.	Jasmine Hobart	June 16 - Sept 1, 1984	
	78 days x \$55/day		4,290
iv.	A. Clendenan (Field)		
	10 days x \$175/day		1,750
v.	R. Dujardin (Field)		
	6 days x \$200/day		1,200
vi.	P. Haillot (Drafting)		
	31 days		2,820
vii.	L. Kluber (typing, photocopying etc)		
	10 days		<u>900</u>
	TOTAL WAGES		\$27,730.

B. Food and Accommodation

NB.	Billed through Connors Drilling Ltd.	
	229 man-days x \$60/man/day	\$13,740

C. Transportation

i. Fixed Wing

F. Daley	Vancouver to Terrace (return)	\$	296.
G. Wingert	" " " "		296.
J. Hobart	" " " (single)		148.
A. Clendenan	" " " (return)		296.
R. A. Dujardin	" " " "		<u>296.</u>
		\$	1,332

Itemized Cost Statement

ii. Rotary			
Mobilization & Demobilation of camp,			
5 drill moves. Northern Mtn. Helicopters			
(205)	51.7 hrs @ \$1120/hr		\$57,904.
Camp Servicing, fuel, supplies, samples, etc.			
Frontier Helicopters Ltd. (206 B)			
	90.2 hrs @ \$375/hr		<u>33,825</u>
TOTAL AIR TRANSPORTATION			\$93,061
C. iii. Shipping Charges (trucking, air freight)			
Drill core samples; Dease Lake to Terrace (truck) \$2,272.			
"	"	" ; Terrace to Vancouver	
		(CP Air freight)	4,400.
Fuel; Terrace to Dease Lake (Lindsay's Transport) 6,298.			
Fuel; Dease Lake to Hart property			
	(BC-Yukon Air Service)		<u>17,550.</u>
TOTAL SHIPPING CHARGES			\$30,620.
D. Fuel			
i.	Diesel	115 45-gal drums	\$14,425.
ii.	Jet Fuel	61 45-gal drums	10,065.
iii.	Propane	20 100 lb tanks	<u>3,250.</u>
FUEL TOTAL			\$27,740.
E. Equipment Rentals			
i. Sperry Sun Camera (from Connors Drilling Ltd)			
	\$1500/mo x 3 mo.		\$4,500.
ii. Telephone, Radio rentals, etc.			
			<u>\$1,910.</u>
RENTAL TOTAL			\$6,410

Itemized Cost Statement

F. Drilling

Connors Drilling Ltd.

NQ Core, 8 holes

1972 m x \$112.60/m

\$222,060.

G. Geochemical/Assay Analyses

Chemex Labs Ltd.

901 rock samples for Au,Ag,As,Sb.

@ \$13.88/sample

\$12,510.

TOTAL 1984 EXPENDITURES

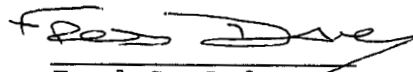
\$433,871.

APPENDIX II

Authors Qualifications

I, Fred S. Daley, residing at 7511 Greenlees Road, Richmond, B.C, declare that:

1. I am a graduate Geologist from the University of British Columbia (B.Sc. Honours; 1975) and Queen's University (M.Sc. 1985).
2. I have been active in all phase of mineral exploration for base and precious metals during the past 10 years in B.C., the Yukon and the Western United States.
3. I was employed by Kerr Addison Mines Ltd., for the period of May 28, 1984 to September 14, 1984 as the Project Geologist and Party Chief.
4. I was personally present and supervised all aspects of the field program described in this report.


Fred S. Daley

APPENDIX III

DRILL LOGS & ASSAYS

SPERRY SUN
DIP TESTS

LENGTH DIP BEARING
0m. -40° 340°
61m. -38° 341°

LENGTH DIP BEARING
137m. -38° 341°
214.9m. -38° 343°

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

LOCATION: Heart Peaks

BEARING: 345°

LATITUDE: 3+22N

PROPERTY: Hart Claims

HOLE No.: 84-1

DATE COLLARED: June 24/84

LENGTH: 215m

DEPARTURE: 2+45E

CORE SIZE: NQ(WL)

SHEET No.: 1 of 20

DATE COMPLETED: July 2/84

DIP: -40° COLLAR

ELEVATION: 1450m

SCALE OF LOG:

LOGGED BY: WINGERT/DALEY
DATE: June 24/84

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate %	Silice - Ind (3)	Connectors, $\angle$	Veins, $\angle$, dikh.	Faults, $\angle$	Bedding, $\angle$	Cleavage, $\angle$	Rock Type Structure	Meters	Mineralization Type	GRAPHIC LOG										CLAY										METER BLOCKS	EST. CORE REC	ASSAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
											Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Matrix	Pheno.	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm			Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
2.44-8.55m (Casing to 54m) Trachyte - massive, fg, med grey w/ euhedral ksp phenos (2mm) - phenos are clay altered. Trach is silice & pyritic w/ fg cubic, diss. py. - rare qtz veinlets (2cm-2mm) w/ no mineralization - open space filling apparent		0																	5-10%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Note: TGS on graphic log - samples taken by Tom Schroeter, Aug. 23, 1984

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 94-1 SHEET No. 2 of 20

From -To		PROPERTY																HOLE NO. 2		SHEET NO. 2 of 2																	
ROCK TYPE AND TEXTURES Colour, Alteration		Quartz	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	Metre G	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Magnetite	Pyrite	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y								
																													SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
14.4-14.6 Qtz Vein - massive to banded wht-tan qz bands - massive to minor vugs - <10% diss. metallics - etc stringers (20cm) in trach HW - banding = 20-400 cm CA - vein contact undefined.					20-400																						146	76%	6205	.002		0.19		32	7.1		
- banding is poorly defined w/ wht to buff bands - int bands can be relatively fine to coarse - banding is not continuous - fractures lined w/ clay																													6206	.003		0.20		35	7.6		
14.6-22m Trachyte - massive light mottled grey w/ subhedral ksp phenos (2mm) altering to clay - patchy diss py. & silicification - limonite coated microfractures - <10% v fg.				2.5										8%								0-20%	50-70%			<1%			6207			0.04		65	4.7		
diss. metallics. minor montmorillonite?																													156								
																														6208		15		1.2			
																														6209		30		1.6			
																														6210							
22.01-23.20m Clay cemented trachyte gouge - badly broken - silicified indl frags.																																					
23.20-49.0m Siliceo pyritic																																					
Trach - <10% diss py in matrix + ↑ 30% py in sulfide clasts - limonite lined micro-fractures w/ bleached alt. halos ↑ 4cm wide. Ksp phenos		2-3												50%								0	500/0														

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 84-1 SHEET No. 3 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contact, °	Veins, °	Faults, °	Bedding, °	Cleavage, °	Rock Type Structure	Meters	Mineralization Type	Albite	K-feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
																											SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
are patchy, trach is flow banded w/ distinct fine lam. do pg outlining flow banding - 2 gfc veins, one wht solid veinlet @ 37m (2mm wide)							90°																		37.0	6211							
@ 31.2-31.24, 2cm wide vein @ 45° to CA w/ symmetrical banding - open space xtal growth - no visible sulfides, limonite & jarsite on HW contact																									26.5	6212		10		1.4			
- trach becomes more clay rich w/ depth. 444-44.9 Qtz-clay - sulfide fault? Gouge zone @ 15-20° to CA, diss py to 2% light apple grn vitreous mineral (fluorite?) in 1-3mm fracture.							65°																		30.8	6213		.003		0.01		60 6.0	
																										31.2	6214		.003		0.13		200 7.6
																										32.2	6215		.003		0.01		65 5.8
																										32.2	6216			20		10	
																										35.1	6217						

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-1 SHEET No: 4 of 20

From -To		KERR ADDISON MINES LIMITED														PROPERTY:														HOLE No. 2		SHEET No. 1 of 2							
ROCK TYPE AND TEXTURES Colour, Alteration		Quartz	Carbonate %	Silica - Ind (3)	Contacts, $\angle$	Veins, $\angle$, d.d.	Faults, $\angle$	Bedding, $\angle$	Cleavage, $\angle$	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Neerly	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb			
																											38.4		6218		5		1.3						
																										41.4		41											
																										43.6		43.6		6219		20		1.7					
																													44										
																													98%		6220		20		1.7				
																													46.3										
																													98%										

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-1 SHEET No: 5 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Contact, ° Veins, ° Faults, ° Bedding, ° Cleavage, ° Rock Type Structure	GRAPHIC LOG Meters Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite CLAY Marx Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
						SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
					80%	6221	<.003		0.06		65	4.7	
49.2-49.85 Qtz Vein - massive Qtz w/ 15% open space, 65° to CA - clay seams 2 to banding (1mm) - no visible sulfides, symmetrical banding - sooty grey streaks 2cm in axis of vein. NW & FW have clay gouge		65° 20cm 65° 60-90° 30-70°			80%	6222	.006		0.28		45	7.8	
49-52.7m Clay altered zone w/ Qtz vein. - buff to tan rock w/ altered ksp phenos 21% dias. sulfides	0			7%	80%	6223	<.003		0.54		45	8.2	
53.71-65.70 Silic & pyritic Trachyte - red grey in colour ksp phenos 2mm as clay altered - weak flow banding - Fractures can be filled w/ clay or fine gr. py - fractures have a bleached alb halo	12		40-70°	8%	52.5 53	6224		20		2.2			
Qtz Vein 59.6-2cm, 45° to CA, massive 59.8-1cm - 3 bands, 45° to CA 60.2-1cm 2 " 50° "		55° 45-75°			100%	6225		10		1.1			
					100%	6226		15		1.0			
		45-75°			100%	6227	<.003		0.01		46	4.4	

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 94-1 SHEET No.: 6 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Concretions, <	Veins, <	Faults, <	Bedding, <	Cleavage, <	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	Aug	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Akagayite	METERS BLOCKS	EST. CORE REC	A S S A Y							
																					SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb
																				9.1								
																					99.5							
																					6228	.010		0.00		33	3.4	
																					6229	<.003		<0.01		45	3.2	
																					61.2							
																					62.5		15		0.7			
																					65							
55.71-67.0m Tan to buff clay alt trachyte - weakly flow lens w/ 2-10% altered kaplans Qtz veins: 66-66.03 3cm @ 600 fca Coarse stalling cockatoo qtz which is clean to yellow on borders becoming amy along axis. Itals to 1.5m long w/ 5% open space along axis - no visible sulfides. 66.24-66.32 2.5cm @ 700 fca											3%									62.31	<.003		<0.01		41	3.8		
																					66.3	.006		0.12		17	2.4	
massive wht-grey qtz w/ clay																					6233	<.003		0.10		30	5.6	

N.T.S. MAP GRID: 104 K 9B

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 94-1 SHEET No: 7 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silice - Ind (3)	Contacts, %	Veins, %	Faults, %	Bedding, %	Cleavage, %	Rock Type Structure	Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
																											SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
66.7-67.0 - 30 cm wide @ 40° to CA. -massive, wuggy light grey qtz showing sheaf texture along borders 50% open space - no visible sulfides. Contacts are clay altered.																											66.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-1 SHEET No.: 8 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3) Contacts, % Veins, % Faults, % Bedding, % Cleavage, % Rock Type Structure Meters Mineralization Type	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y							
						Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
			77.7	840	6240		20		0.9				
			77.7	840	78								
			77.7	840	(6241) (6253)								
			80.8										
			95%	81	6054	<.003		0.12		57	64		
82.4-82.79 Trachyte as above. (62.8-82.4) except no large aggregates of py.			82.6	160%	6055	<.003		0.02		20	30		
Qtz Veins: 82.77-82.8 @ 75° to CA. w/ smoky sheath textured etc w/ 70% open space 4mm bleached alt. halo on FW, <10% fine gr. metallics			160%		62056	<.003		0.06		50	64		
83.65-83.8 200 to CA 75cm wide, poorly defined contacts w/ 7mm bleached clay alt. envelopes - up to 70% py as stringers + disseminations			84.7		6057		25		0.9				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 64-1 SHEET No: 9 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Connect, % Veins, % Faults, % Bedding, % Cleavage, % Rock Type Structure Meters	GRAPHIC LOG Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
						SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
Occur in the Vein. 90.6-90.9 - crushed qtz vein ~40% recovery w/ assorted chips of qtz veined trachyte, qtz small, & pyritic trachyte. Moderate to strong clay alter.					88.9 88.8								
					88.4 88.2	6054	20		0.8				
		50°			88.5 88.6	6059	<0.03		<0.01	50	5.2		
		20°			88.6 88.7	6060	0.08		0.08	21	14		
					88.8 88.9	6061	<0.03		<0.01	69	7.0		
					89.0 89.1	6062	<0.03		<0.01	57	10.2		
92.2-93.8 qtz vein w/ 2 silicified trachyte bands @ 45-55° to CA, 11 to qtz bands - 2 mentioned of these 2 bands are 1x4cm & 2x8cm & they contain 5% pyritic clasts (5%) qtz bands are 1/2" wide. Vein borders are steep textured & wavy w/ 50% open space. On footwall side have 0.25m of bleached & clay altered trachyte.		100° 45-55°			89.2 89.3	6063	0.03		0.24	16	13.8		
					89.4 89.5	6064	<0.03		0.02	33	42.0		
94.55-115m Trachyte-massive to weakly flow banded, red grey Silicic & Pyritic	3				89.6 89.7	6065	20		0.7				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 6A-1 SHEET No.: 10 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Concretions, %	Veins, < 1m	Faults, < 1m	Bedding, < 1m	Cleavage, < 1m	Rock Type Structure	GRAPHIC LOG														Meters	Mineralization Type	Albite	K-Feldspar	Aug	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
											SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppa	Hg ppb																															
Py is fracture controlled but has diffused into trachyte leaving dendritic disseminated py envelopes. Py aggregate blobs are more prominent than before									350 450																										97.8														
Qtz Veins: 109.55-109.59 - brecciated etc vein w/ 2-3% d. 100 py, 5% open space, med gry massive qtz @ 35-400 to CA.																																				98.1	6066	25	0.9										
112.5-113.5 - 25-45 to CA. banded qtz w/ wht, gry & mm. qtz + 7-10% open space. buff agn clay frags + dk gry silicified material to banding. Banding ranges fm 0.8mm to 1cm wide. Erratic py distribution locally to 590 w/ 190 sooty gry metallics																																				98.9	100.9												
114.7-114.9m - brecciated etc vein w/ silicified footwall & clay vein wall (60%) contact @ 280 to CA? - clots of py upto 2cm long (2-3% py)																																				103.9	6067	20	0.5										
-390 open space At 115.2m - breccia dyke @ 250 to CA, 3.8 cm wide. med - dk gry silicified trachyte clots									600 50-60																										105.2	106.9	6068	30	0.9										
(2.5cm) in a light gry clay & qtz matrix. Appears to be an alignment of fragments to diking Pyrite is more concentrated in the clots																																				107.6	108.9	6069	20	0.9									
																																				108.35	6070	1.003	006	61	8.4								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 64-1 SHEET No.: 11 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	Graphic LOG Meters G	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Aksay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
																													SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
									45-70°																		98% 109.35	6071	1.007		0.04		65	60		
																										110.3 98% 111.3	6072	1.003		0.02		61	7.6			
																										112.5 98% 112.9	6073	1.003		0.01		50	7.8			
																										113.5 98% 113.8	6074	1.003		0.08		79	9.2			
																										114.7 98% 114.9	6075	1.003		0.02		79	8.4			
																										116.4 98% 116.9	6076	1.003		0.06		77	9.2			
																										117.9 98% 118.2	6077	1.004		2.14		140	150.0			
113-116.2 - Clay altered trachyte - mottled red grey colour w/ 10% ksp phenocrysts 20% disc py occurring in streaks & blobs throughout py.																										118.2 98% 118.5	6078	1.003		0.58		50	370			
116.2-123.7m - Massive to weakly flow banded silice & pyritic trachyte - ~20% ksp phenocrysts & 10% breccia frag (46mm) which are dk grey & pyritized.																										116.4 98% 116.9	6079		20		1.0					

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 84-1 SHEET No. 12 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silica - Ind (3)	Contacts, < Veins, <, w/d, Faults, < Bedding, < Cleavage, < Rock Type Structure	GRAPHIC LOG Meters Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
						SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
Pyrite occurs in 1/8 aggregates (streaks & streaks) & along hairline fractures. Fractures are generally clay altered w/ 1-2 mm of clay					119.8	6080							
121.3 - 3mm wide pyritic band w/ ~ 18% py. - angle to CA = 35° - Band occurs in a localized brecciated zone ~ 15cm wide			30.45, 50		121	6080	30		1.2				
					122.7	6081	<0.03		0.02		73	8.4	
123.7 - 124.16m Qtz Vein @ 40-500 bch vein is barren @ border w/ dk grey silt. silic bands to 10mm. - 70% py open space, brecciated on NW & concentrated in py on FW (70%) - faint opalescent luster to greyish etc.		44.45 40-50°			123.7	6082	.003		0.36		39	13.6	
124.16 - 125.6m Trachyte as 1150 - 1162m					124.6	6083	<0.03		<0.01		90	8.4	
					127.1	6084	45		1.4				
128.6 - 129.1m Brecciated Trachyte - in situ breccia w/ etc, clay & py shaly angle to CA = 30° - no rotation of frag py occurs in strings					128.6	6085	35		4.7				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 94-1 SHEET No: 13 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Concretions, %	Veins, %	Faults, %	Bedding, %	Cleavage, %	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
																											SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
134.1-134.7m Med to Light Grey silica & pyritic trachyte. 3-7% clay altered ksp phenos. Minor local in situ breccia "Dyke" + minor (<6mm wide) qtz veins					30-90°			45-50°																	130.1		731.2						
L to CA					30-90°			45-50°																	132.6		6086	20		1.6			
134.7-134.75m Banded grey with qtz veins w/ vuggy aug. clay alto @ FW & NW contacts in diam L to vein. Vein @ 70° to CA. 10% Diss by & grey metallics.					50-70°																			134.15		6087	<0.03		0.02	85	7.2		
134.76-135.2m Massive silica & pyritic med grey trachyte. 20% ksp phenos & fine dendritic py. stringers. Fracture lined w/ clay 2 qtz veins @ 3mm-6mm wide running L to CA @ 35° to CA respectively					50-70°																			134.15		6089	<0.03		0.06	77	8.0		
Veins consist of massive wnt qtz					30-90°			40-70°																	135.1		06090	20		1.2			
135.24-144.6m Trachyte w/ localized in situ breccia zones. Trach is med grey silica, pyritic massive. w/ 20% ksp phenos.								45-50°				20%							0.1						141.8		06091	15		0.8			
Py is finely diss throughout trach & occurs in stringers & blobs. Breccia consists of dk grey pyritic Trach frags in a lighter grey								45-50°																141.8		06091	15		0.8				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 94-1 SHEET No: 14 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y									
																										SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
Tachylyte & pyritic matrix. breccia zones: 138.24-138.74m 141.6 - 141.87m 143.83-144.6m																									100%	06092	35		0.8						
144.6-144.8m Clay altered tach buff-grey w/ 8cm wide grey qtz veins @ 80° to CH.			0.5		5m 500						0							60%							100%	144.8	06093	30		0.5					
144.8-145.85m Tachylyte ad 138.24-144.6m w/ 1 inch breccia @ 145.15-145.32m																									100%	147.8									
145.6-151.45m Clay altered tach. Silic w/ depth. Tach becomes more siliceous finely dis. throughout. 145.6-149.2 clay altered zone (90%) which is brecciated on the NW. dk grey tach. Scarping clay matrix. Contact @ 25° to CH. 2 qtz veins @ 44mm wide			0.25	25%				28 4.5 50°			1%							20-30%	50-70%						100%	06094	35		1.4						
151.45-151.49m Qtz Vein, 2cm wide @ 45° to CH. Vein is cream to white in colour w/ grey bands along the selvage 50% open space, <10% metallics; one spot 0.5cm x 0.5cm of omphacite - qtz matrix occur in radiating form. 151.5-153.5m Siliceous pyritic tach. normal grey color. Tachylyte is qtz shaded w/ qtz-py microcrystals stacked. Fractures are dk grey					1.5m 350						<1%							50%	5%						100%	151.46	06095	2.003		0.04	35	68			
151.5-151.55m 151.5-153.5m Siliceous pyritic tach. normal grey color. Tachylyte is qtz shaded w/ qtz-py microcrystals stacked. Fractures are dk grey																			50%	5%						100%	151.5	06097	993		10.01	25	6.8		

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-1 SHEET No.: 15 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silica - Ind (3)	Connectivity %	Veins, %	Faults, %	Bedding, %	Cleavage, %	Rock Type Structure	Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
																												SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
less pyritic & lighter assay fm axis Other fractures are lined w/ qtz veins or vuggy qtz cavities. 2) 152m - 154m km wide @ 45° to CA containing wht cockerite qtz w/ metallics along selvege																												06098	003		0.08		100	7.6	
1) 152m - 154m wide @ 350 to CA wht-gray qtz, 20% open space & 10% metallics. Vein has trachyte frags incorporated into the qtz.																																			
3) 153m - 154m wide @ 55° to CA - 150 (1) - 154																																			
Py occurs mainly along microfractures & is finely dis. throughout trach. 155.51 - 155.8m Alternating silicified clay altered trachyte. Silicified trachyte is massive w/ 40%																												155.1	06099	003	0.01	0.01	73	7.0	
Ksp phenos 10% breccia frag (trach) fractures are clay altered. Trachyte is intensely altered at: 155.51 - 155.8m; 156.1 - 156.26; 156.35 - 156.5m. Pyrite occurs along microfractures & is finely disseminated throughout trachyte.																												156.1	06000		85		1.3		
155.51 - 156.45m Porphyritic Trachyte w/ 10% Ksp phenos 24mm large - Ksp has only minor clay alt. Trachyte contains approx. 3% breccia frag 1cm - frags are generally more pyritic than the matrix & vary fm massive to porphyritic trachyte.																												156.1	06001						
Py occurs along microfractures & is finely dis. throughout the porphyry. Dominant fracture direction is fm 60-40° & fracture surfaces are lined w/ clay & have																												156.5	06002		40		0.7		
																												156.1	06002		40		0.9		

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, $\angle^{\circ}$	Veins, $\angle^{\circ}$, Mkt.	Faults, $\angle^{\circ}$	Bedding, $\angle^{\circ}$	Cleavage, $\angle^{\circ}$	Rock Type Structure	Meters	Mineralisation Type	Albite	K-Feldspar	Anorth	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
																												SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
bleached envelopes. From 168.42-169.6m trachyte is clay altered (60-100%) From 169.6-169.8m trachyte is qtz flooded w/ a stockwork of qtz filled microfractures and lined cavities Qtz Vein: 1mm-1cm @ 45° to CA wht cockscamb qtz. 169.65m - 1cm @ 45° to CA wht cockscamb qtz 169m .25cm @ 50° to CA, wht cockscamb qtz. 169.2m - 0.3cm @ 50° to CA, wht cockscamb qtz.								45-55																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

HOLE No.: 94-1 SHEET No.: 17 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silica - Ind (3)	Connectivity, %	Veins, < 5mm	Faults, < 5	Bedding, < 5	Cleavage, < 5	Rock Type Structure	Meters	Mineralisation Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Montmorillonite Phengite Fe Oxide Arsenopyrite Pyrite
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N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-1 SHEET No.: 18 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration .	Quartz Carbonate % Silice - Ind (3)	Contacts, % Veins, % Faults, % Bedding, % Cleavage, % Rock Type Structure	GRAPHIC LOG Meters Mineralization Type	Albite K-Feldspar Aug Biotite Muscovite Sericite Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assey Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
								SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb
186.65-194m Breccia as above except clasts are generally smaller ranging up to 5cm - Breccia has a more homogeneous size range - interstratified Clay altered sections @ 187.1 - 187.5m.	25-30	100-100	43-50		0-40	2.3%	187.5	06015	.003		0.08		53	8.0	
								06016		8		0.8			
							190.5	06017		8		0.7			
194-194.3 - Qtz Vein 1.5cm @ 187.5m Ch. - w/lt coarsened qtz w/ 25% fine pyrite in the lined zone - 15% open space. 194.3-194.55 Breccia as 186.65-194.0m. 194.55-194.92m - Qtz Vein 1.5cm @ 187.5m - 3% open space - milky - clear qtz w/ 1cm coarsened qtz along edge w/ banded qtz along axis. 2% sandy grey metallized.		100-100	43-50				193.5	06018	2.003		0.04		36	8.0	
							194.3	06019	2.003		0.12		53	8.4	
							194.3	06020	.003		0.13		33	7.8	
							194.9	06022	2.003		0.08		50	13	

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 94-1 SHEET No: 19 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3) Contacts, 2° Veins, 2° Faults, 2° Bedding, 2° Cleavage, 2° Rock Type Structure	GRAPHIC LOG Meters Mineralisation Type Albite K-feldspar Apatite Biotite Muscovite Sericite Chlorite Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
				SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
104.2-205.28m E-plasma breccia w/ clasts ranging to 20cm. Rock stained red clay clasts are subangular - whit to dk grey in colour. Py occurs finely diss throughout matrix, clasts & occurs along microfractures. clay altered breccia occurs @ 199.25 & 202.5 m.			100% 197.5	06023	10		1.3				
			90% 199.6	06024	< 5		0.6				
			100% 201.5	06025	3		1.1				
203.29-208.1m Explosion breccia w/ 20% clay altered clasts (2cm) Matrix red stained red grey matrix w/ finely diss py. qtz veins: 204.67m - 1.5-2cm @ 45° to CA. w/ coarsened qtz, 10% open space & pyrite in sulfid. 204.16m - 2cm @ 45° to CA. - clean to wht qtz, 30% open space 1% visible sulfid. 206.1-212.65m Explosion breccia as above containing coarse frasp to 20cm long - clay altered cores @ 206.2 & 209.4m @ 210.17 and 210.4-210.68m breccia contains 20% qtz filled fractures w/ largest veinlet @ 0.5-1cm wide & @ ~100 to CA min is clay textured w/ milky	3 1.52m @ 45° 210.17m @ 45° 210.4m @ 45° 210.68m @ 45°		100% 203.7 204.1 204.8 207.1 207.6	06026 06027 06028 06029 06030	0.10 2.003 2.003 5 2.003		0.19 0.09 0.08 8.3 0.04		41 37 63 81	64 13.0 68 154	

[illegible]

LENGTH	DIP	BEARING
228 m.	-64°	357° 10'
278.4 m.	-65°	339° 10'

HOLE No.: 342

SHEET No.: 1 of 23

LOGGED BY: Daley Winger

DATE: July 8, 1984

Note: TGS on graphic log implies samples taken by Tom Schroeter, Aug. 23, 1984

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 3 of 22

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate %	Silice - Ind (3)	Contacts, 2°	Veins, 2°	Faults, 2°	Bedding, 2°	Cleavage, 2°	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																												Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
Fracturing is intense, 1 per 10m.																									90%	06048		25		0.8				
																									97%	40.6								
							50-70°																		88%	06049		15		0.6				
							50-70°																		88%	06050		15		1.0				
							50-55°																		95%	46.6								
							50-55°																		97.5%	06101		15		1.1				
43.5-61.4m Massive to weakly Flow banded pyritic trachyte Med grey in colour w/ bleached envelopes around Fractures. Py occurs finely dis throughout trachyte							50-55°																		98%	4.6								
	2.5%																								50.6		06102		10		1.0			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 4 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silica - Ind (3)	Connect, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	GRAPHIC LOG										CLAY Micas Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length METERS BLOCKS	EST. CORE REC	A S S A Y									
											Meters	Mineralisation Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	SAMPLE No.				Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb			
in dk gry oxidized aggregate (blobs + bands) Pyritic bands across to flow laminations									15°	45.5°												55.3	98.6	06103		5		0.7					
in fine dendritic patterns randomly oriented throughout trachyte Fracture surfaces are clay lined.									15°	45.5°												55.5	94.9	55.6									
									30°	50°													100%	100%	06133		10		0.9				
									30°	50°													58.5	100%	58.6	06134		80		1.4			
									30°	50°													58.8	100%	58.6	06135							
61.4-61.6m Qte Venn 20 to 40% mottled w/lt loggy shaly textured Qte w/ 17% open space - vugs contains clay (limonite) - 10% py + sandy grey metallics.									20 to 20°														10%	95%	60.4	06135		<003		0.08		29	10%
61.6-61.7m									15°														61.9	95%	61.4	06136		<003		0.14		30	10.2
Trachyte as 48.8-61.4m									15°														63.4	95%	62.8	06137		<003		0.12		43	15.8
									60°	150°													64.1	50%	64.1	06138		55		26			
									60°	150°													64.2	70%	64.2								
									60°	150°													65.2	40%	65.2								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 5 of 23

From -To		Quartz	Carbonate %	Silica - Ind (3)	Contacts, °	Veins, °, width	Faults, °	Bedding, °	Cleavage, °	Rock Type	GRAPHIC LOG	Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
ROCK TYPE AND TEXTURES Colour, Alteration																														SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb
																													75%	06139	<.003		0.08		79	450	
67.3-674m Qtz vein (gravel) Milky white to yellow Qtz w/ some amyg. & sandy grey metallic - no banding. 674-67.1m						100%																						67.3 67.6	67.3 67.4	67.3 67.4	<.003		0.10		61	250	
Massive to weakly flow banded trachyte-siliceous pyritic - red grey in colour. Oxide & ksp. phenos is														1-40%									0-50%	10-20%			30-50%		76%	67.4							
patchy, 1-40% Flow banding is outlined by thin dk grey pyritic bands - py also occurs along microfractures & is finely									45-75%	45-30%																		70.7 71.5	70.7 71.5	70.7 71.5		35		2.6			
disseminated throughout the trachyte w/ some aggregated (ranched to dendritic blobs)																											72.2	72.2	72.2	72.2		20		1.5			
Fractures are generally dry w/ some clay lined fractures Clay altered zones occur @ 83.65-83.95m & @																												74.4	74.4	74.4							
76.3-764m Qtz vein @ 83m → 5mm @ 80 to 81. (only 3mm of vein core) - Massive white									50%	45%																		76.2 76.5	76.2 76.5	76.2 76.5		20		1.5			
																												77.4	77.4	77.4							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-2 SHEET No.: 6 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate %	Silice - Ind (3)	Contacts, 4°	Veins, 4°	Faults, 4°	Bedding, 4°	Cleavage, 4°	Rock Type Structure	Meters	GRAPHIC LOG	Mineralisation Type	Albite	K-feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
																										SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa
qtz w/ 30% sooty gray metallics.																										06145		20		1.6		
																								78.1	96%	80.4						
																								81.1	96%							
																								80.6	96%							
																								80.5	96%	06146		20		1.6		
																								80.6	96%							
																								83.2	96%	83.4						
																								105%								
																								84.7	92%	06147		40		3.3		
																								86.4								
																								87	96%	06148		30		1.3		
																								88.4								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 7 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice Ind (3) Connect, % Veins, % Faults, % Bedding, % Cleavage, % Rock Type Structure Meters Mineralization	GRAPHIC LOG	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite Magnetite Pyrite Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST CORE REC	A S S A Y							
					SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
3mm wide qtz veins @ 250 to CA. massive wht qtz w/ 6% open space & 2% sooty grey metallic Strong fracturing subparallel to CA				89.4 89.9	06149		30	1.2				
				89.6 89.8	92.1 06104			0.28		90	66.0	
321-92.16m 4.5 cm wide qtz vein @ 35 to CA. 1.5m of stellite amy along axis w/ wht stellite border ~5% open space & 2% py - Mn Contact not present. py dec in vugs				91.7 92.2	06105	0.003	0.003	0.43		18	11.0	
92.18-92.36m Massive silice med gry trachyte. 2-3% ksp phenos. 3-8% py finely dis throughout trach (dendritic habit) & along microfractures -Fracture occurring subparallel to CA. contain iron films of clay.				93.3 98.4	06150		60	2.1				
				94.4 95.7	06107	0.007		0.05		110	11.8	
95.4-119.6m Massive silice & pyritic trachyte - med gry w/ 1-2% ksp. phenos - flow laminations visible @ 104 am w/ fine mm wide light & dk gry bands & swirls. Py is patchy but				95.4 95.7 95.9	95.55 06109	0.003		0.05		110	11.8	
				96.4 100.8	06151		80	1.2				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 8 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Magnetite	Pyrite	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																												Au oz/ton	Au g/t	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
pervasive w/ 2-5% occurring as fine disseminations. Fracture controlled w/ dendritic habit & as blobs ranging from 1mm - 3cm long.																									8.8	99.4								
* Qtz veinlet stockwork @ 114.5-115.2 w/ a clay gouge filled fracture zone. Veinlets are 1cm @ 0-10° to CA. w/ pyritic borders. Minor qtz veinlets occur sporadically throughout. A clay altered section occurs @ 104.5-106.5 (silica-2.5)								45° 40°																	106.3	06152		20		1.2				
Main fracture directions are @ 30, 35 & 40° & are dry lined w/ finely crystalline py or clay.																									104.2	06153		50		1.5				
																									97.2	06154								
								15° 40° 30° 35°																	106.7	06154		40		1.6				
																									108.2	06155		35		1.7				
																									110	06155								
																									111.3	06155								

* Sample measured @ 114.5-115.2
log measured @ 114.5-115.2

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 9 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3) Contacts, 2° Veins, 4° Faults, 2° Bedding, 2° Cleavage, 2° Rock Type Structure Meters	GRAPHIC LOG	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite CLAY Magnetite Pyrite Arsenopyrite Pyrrhotite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
					SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
				113.4	100% 06156		35		1.6			
				113.8	06110	<.003		0.03		110	130	
	QTZ			93% 113.2	06111	.006		0.12		220	29.0	
					06112	.003		0.02		100	130	
				116.4	116.2		25		1.5			
					118.6							
				100% 119.5	06113	<.003		0.04		83	12.8	
119.6-120.7m Qtz Vein 10-25ft Fg. gry siliceous band 11 to contacts @ 1-2cm wide. Qtz is clean to wht., coarse, > taline w/ <1% sooty gry metallic.	119.6-120.7			119.5	119.6							
Siliceous bands are sulfide bearing.				100% 120.7	06114	.080		0.13		23	7.0	
120.7-121.3 (119.5-120.3) Trachyte as 98.4-119.6			2-7% 120.7		120.7							

* assay @ 119.6-120.7m
log measured @ 118-119.3m

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-2 SHEET No.: 10 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3) Contacts, < Veins, < 1/4 in. Faults, 2" Bedding, < Cleavage, < Rock Type Structure Meters Mineralisation Type	GRAPHIC LOG	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
					SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
121.3-121.8m (120.5-120.8) Qtz Stak. work w/ veins 5mm-2cm @ 0- 35° to CA. Veins are vuggy w/ stau. growth cores - <1% metallic	55				06115 41.3	.012		0.02		100	7.2	
121.8-124.4m (120.8-124.4) Trachyte as 95.47-119.6m					06116 21.8	2.003		0.02		48	13.6	
					06117 22.8	2.003		0.03		73	13.0	
					06118 23.4	2.003		0.02		190	14.0	
					06119 24.4	2.003		0.01		130	10.2	
124.4-125.3m Qtz Vein 1-2cm @ 2 10-15° to CA. Very minor clay alt. 1 fg. brecciation on Hwt. w/ Vuggy Qtz w/ grey metallic @	125.3-125.6m 2-7mm Qtz Vein @ 35° to CA. - Gray stau. axis w/ white boron & py. + metallic along margins 3-5mm vein @ 35° to CA w/ noticeably less sulfides x cuts above vein			5%	95%	06120 25.4	.022	0.08		210	16.4	
				5.7%	100%	06121 26.4	.003	0.04		250	11.4	
125.6-135m Trachyte as 95.4-119.6m w/ a greater percentage of pyrite					06122 27.4	2.003		0.08		200	11.0	
2 Qtz veinlets @ 128m, 5mm wide, 25° to CA; and 135.1m, 3mm @ 35° to CA.					06123 28.4							
135-135.1 - Dark grey clay gouge seam.					06124 29.4		15	1.4				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No: 11 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz	Carbonate %	Silice - Ind (3)	Contacts, 2°	Veins, 4°, 4.5°	Faults, 2°	Bedding, 2°	Cleavage, 2°	Rock Type Structure	GRAPHIC LOG	Mineralization	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb			
																											130.4		131										
																											100%		06159		55		1.3						
																											100%		134										
																											134.7		06160		55		7.3						
																											136.5												
135.1- 134.4m Trachyte, massive + silice although not as Silice as 25.41-114.6m; - med grey to buff grey in colour w/ altered hyp phenos. - Py is patchy but pervasive occurring as fine disse; Fractured controlled dendritic Py + as blobs ranging from 1mm to 1cm in size. Qtz Veinlets occur @ 136.6-136.8m 3-5mm wide @ 10° to CH. Vuggy axis w/ gry massive (metallic) stringers // to CH; 145.8m - 2mm veinlet @ 35° to CH; 148.9, 149.9, 150.6m		25-3		3-10mm 10°									2-55% 2-10% 2-55% 2-55%								0-10% 20-50% 2-55%						133												
									25° 90°																			100%		06176		40		1.0					
																											139												
																											100%		06177		40		1.0						
																											141.1												

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 12 of 22

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3) Contacts, ° Veins, ° Faults, ° Bedding, ° Cleavage, ° Rock Type Structure Meters Mineralisation Type	GRAPHIC LOG	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Apatite Magnetite Sphalerite Galenite Copper Silver Gold Platinum Mercury Antimony Bismuth Cadmium Lead Zinc Nickel Cobalt Manganese Iron Sulfur Phosphorus Chlorine Fluorine Bromine Iodine Selenium Tellurium Molybdenum Rhenium Osmium Iridium Rhodium Palladium	METERS BLOCKS EST. CORE REC	A S S A Y							
					SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
etc clay-venites ranging from 15-400 to CA + 3-6mm w/ to venites contain py along selvege.				10.9	773							
Main Fracture @ 45° to CA -fractures contain up to 1-2mm of clay w/ some mont.				100%	06178		30		0.6			
				100%	06179		40		0.8			
				149.0	79							
				100%	06180		35		1.4			
				153.5								
				100%	06181	.006		.003		77	67	
154.4-154.9 6mm wide Qtz, Py. Clay-venites @ 3° to CA. Py occurs along bands w/ grey sandy gouge dark-grn clay at 155.9. En. Trachyte envelope has a noticeably darker grey colour.				154.9	06182	.006		0.19		90	11.0	

HOLE No: 84-2 SHEET No: 13 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, $\angle$	Veins, $\angle$ dkt.	Faults, $\angle$	Bedding, $\angle$	Cleavage, $\angle$	Rock Type Structure	Meters	GRAPHIC LOG	Mineralisation Type	Albite	K-feldspar	Anorth	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Accessory Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	A S S A Y									
																														Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb			
154A-155.1m Light buff grey trachyte to 155.1-154.4m																													06183	.003		0.09		83	52				
																											156.5		100%	06184	.003		0.06		81	62			
155.1-156.4m 2 Qtz veins @ 156.1 8mm wide @ 20° to CA, wht stallite Qtz w/ 5% open space along axis. 2 @ 156.4 - 1cm @ 20° to CA. Banded clear-wht Qtz w/ bombs 2mm wide CEW					3			5-20° 5-30° 20°														Q-50/2 10-40/2				5-70/0			156.7 156.4	06185	.003		0.16		77	70			
156.4-157.5m Massive to weakly flow laminated trachyte, light buff grey to med grey in colour, 1-30% ksp phenos have a patchy distribution. Some ksp has alters to mont. Fine pyritic bands outline lamination. Py also occurs along fractures w/ dendritic envelopes & as blobs to 1cm.								60° 40-60°																					157.8		06186	.003		0.08		59	84		
157.5-158.4m In diam. Py blobs w/ depth Qtz lined fractures have alteration envelopes of either dk grey or buff silice trachyte																														159.4		06187		15	08				
158.4-159.4m Dominant fracture direction is @ 45° - v. few clay lined fractures. -clay altered breccia frag.																														160.3		06188		20	08				
																														163.4		06189							
																														100%	155.4								

HOLE No.: 84-2 SHEET No.: 19 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts, $\angle$	Veins, $\angle$ dkt.	Faults, $\angle$	Bedding, $\angle$	Cleavage, $\angle$	Rock Type Structure	Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Matrix	Phenocrysts	Fe Oxide	Arsenopyrite	Pyrite	Aqueous Length	METERS BLOCKS	EST. CORE REC.	A S S A Y							
																											SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
@ 164m - 2cm long w/ grn mont. alter.								60°																	164.4	06189		20		1.2				
																										169.5	06190		10		1.5			
																										169.6	06191							
172.3 - 172.4m Breccia Frag of trachyte mottled buff to gray, bleached w/ clay altered ksp phenos								50° 90°					5%													172.5	06191		45		0.7			
172.3 - 193.6m Trachyte, massive w/ sparsitic ksp phenos Trachyte is silicified but becoming more clay altered w/ depth Breccia frags are prominent - 10% Lg. Breccia Frag occurs @ 176.7 - 176.9m or is 240% clay altered w/ clay altered ksp phenos to 5mm in diam. Phenos are rimmed								50° 50°				1-3%								0.20% 40-60%					174	06192		25		1.0				
In py. Py occurs sporadically throughout trachyte as fine dissem. blobs &																										177.1	06193							
																										179.2			55		0.9			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 15 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <	Veins, <	Faults, <	Bedding, <	Cleavage, <	Rock Type Structure	Meters	Mineralisation Type	Albite	K-Feldspar	Anhyd	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y								
																							SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb	
Fracture controlled dendritic py. (becoming less common w/ depth) Pyritic blobs & breccia frag are prominent. Local abundance of pyritic blobs occur @ 177-179.2																					180.4	180.4									
183.9-184.1 - Qtz amy vein 2cm wide, 20-25° to CA Microveinlets & stockwork evident to 4cm total				2cm 20-25°				45°															06192	35		1.3					
<10% amy, metallic visible @ vein axis.				11°				20°														185.2									
186.5-186.83 - Qtz vein 8mm @ 150 to CA - gray etc, pyritic																															
188.4-188.8m - 2 qtz veinlets 3-5mm wide @ 10-15° to CA.																							189.1								
Dominant fracture pattern @ 20° to CA - Fractures are clay altered w/ up to 5mm of clay.				3-5mm 10-15°																		86.9	06124 (06132)	000		0.08		57	6.6		
																							06125	<0.03		0.08		39	6.0		
																							186.5 06126 186.83	000		0.28		43	18.6		
																							187.8	06127	000		0.10		50	11.6	
																							188.4 06128 188.8 06129 188.8 06130	000 000 000 000 000		0.52 0.06 0.06 0.06 0.06		900 180 57	540 184 7.4		

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No: 16 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3) Contacts, ° Veins, °, dist. Faults, ° Bedding, ° Cleavage, ° Rock Type Structure Metres G	GRAPHIC LOG	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite Magnetite Pyrite Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
					SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
					189.1 06131	0.005		0.07		53	6.8	
					190.1 06195		20		1.4			
					191.1 06196							
					192.6 06197							
193.6-196.0m Clay altered brecciated fault zone. Fragments of trachyte & qtz in a soft clay matrix. Brecciated qtz veinlets which are pyritic. Contact to HW is silicified w/ 80% open space (wuggy qtz) @ 20° to CA.	0-3				193.5 06198	0.010		0.99		1100	910	
Total thickness of silicified breccia = 4cm. In beginning of breccia zone. Breccia is pyritic zone of qtz py. @ 195.3-195.4 w/ massive mottled, fg pyrite interstitial to silicified wuggy qtz. (20-40% py) py also occurs along shear & as frag in qtz.					196.0 06199		40		3.2			
196-197.5m Trachyte - green Cl ± chloritic.					197.5 06200							
197.5-210.8m Trachyte, massive silicified to clay altered w/ sporadic ksp phenos & highly clay altered zones	2-3				210.8 06201	0.003		0.12		88	12.0	
					210.8 06195	0.014		1.14		2700	125.0	

HOLE No. 84-2 SHEET No. : 17 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3) Contact, < Veins, < 1/2 in. Faults, < Bedding, < Cleavage, < Fract Type Structure Meters Mineralisation Type	Albite K-Feldspar Anorth Biotite Muscovite Sericite Chlorite Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	GRAPHIC LOG CLAY	A S S A Y						
					SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
Silicified trachyte occurs from 196-197.5 w/ dk gry glassy trachyte. Zone contains ~ 20% ksp phenos., 20% breccia frags (light gry clay altered trachyte) < 10% open space along micro veinlets & ~ 5% py. Py occurs along microfractures & as fine			201.5	06200	0.003		0.18		150	16.4	
Disco. blobs Rest of interval is light to med grey clay - altered trach. Zones of clay gouge occur @ 198.5-198.5m & @ 200-204-05m			203.9	06251	25		3.0				
Fractures are clay rich & pyritic			206	06252	25		2.4				
Trachyte contains ~ 10% breccia frags. Py occurs along microveins (to 1mm thick) @ 20-38 to CA. Few fractures show dendritic py. envelopes	20°		208	06253	25		1.2				
clay py veins @ 200.5, 0.5cm & 1.5cm wide @ 200 to CA. Veins contain ~ 60% py. py in soft clay matrix. Py also occurs as fine disco blobs. Vuggy Qtz veinlet @ 201.9 to 202.4, 100% open space.	45-50°		209.3								
210.5-210.6 - brecciated Trach in clay matrix. Frags are angular w/ little to no rotation 2-3% py	50°		210.9								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 18 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Silice - Ind (3)	Contact, <°	Veins, <°-dip	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	Graphic LOG Meters	Mineralization Type	Albite K-Feldspar	Ansg Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST CORE REC	SAMPLE No.	A S S A Y						
																					Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
210.6-217.45m Massive clay altered trachyte as 1975-210.3 clay gouge occurs @ 211.0- 211.1m, 215.8-215.85m & 214.95m.		2									5%					20-30% 50-100%	2.1%	20.1	100%	06254		20		1.3			
							45-50°											214.3	100%	06255		10		1.5			
217.45-222.4m Massive to -porphyritic silice to clay altered trachyte. Loc. pheno are sparitic ranging fm 1-10%	2-3										1-10%					0-30% 50-100%	2.3%	217	100%	06256		20		2.9			
A zone of dk gry silicified trachyte occurs @ 221.8- 222.2m Py occurs along microfractures & is finely dis throughout trachyte							45-50°											218.2	98%	06257		45		8.8			
clay gouge occurs @ 221m & 222.2m <10% gtz veins are all enveloped w/ clay clay Fractures are lined w/ clay																		220.6	95%	06258		20		2.5			
222.4-223.4m Highly clay altered zone containing clay gouge & clay altered trachyte bleached stringers of trachyte occur on NW & SW of zone																		222.5 223.4	95%	06259							
223.4-227m Porphyritic trachyte w/ 15% altered kop pheno (c. 5cm) Trach contains 21-20% breccia	2-3						30-50°				15-20%					0-20% 50-90%	3.4%	226.9	100%	06260		20					

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No: 22 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Concretions, %	Veins, $\frac{1}{2}$ "	Faults, $\frac{1}{2}$ "	Bedding, $\frac{1}{2}$ "	Cleavage, $\frac{1}{2}$ "	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length METERS BLOCKS	EST. CORE REC	A S S A Y								
																					SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
light grey matrix w/ 15-20% ksp phenos 2mm long. Phenos are clay altered. ~ 2-3% breccia Frasp becoming ↑ abundant w/ depth. Py occurs as fine dross, enveloping breccia Frasp along microfractures Dominant Fractures @ 45 ± 35° Fractures are lined w/ clay to 1cm. ~ 20% of clay alter is grn mont. Frm 254.2-260m is a section of mottled grn brecciated clay altered trachyte w/ stringers of interstitial py ~ 70% Py.			2-3				50-100					15-20							0-200/10 50-200/10	3-400	100%	06263		35		2.1			
																				240.8		241							
																				100%		06264		5		0.8			
							40-45													245.8		244							
																				100%		06265		5		0.8			
																				246.9		247							
																				100%		06266			15		0.8		
																				249.9		250							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No: 21 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, $\angle$	Veins, $\angle$, dia.	Faults, $\angle$	Bedding, $\angle$	Cleavage, $\angle$	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
																										SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
								70°																		06267		<5		1.6		
																								253.9	253							
																								254.5	06268		25		3.2			
								45° 70° 80°																255.1	06269	<0.03		0.30		110	240	
257.1-279.7m Explosion Breccia, light to red grey in colour, clay altered frasp are angular to subangular in a gritty clay altered matrix. Size of frasp range up to 20cm long	1.5-2.5		1.5-2.5																						257.5	06270	.008	0.11		180	97	
5-75% frasp are dk grey clay altered massive trachyte, ~10% frasp are laminated ssds.								30-40°																	258	06271	<0.03	0.14		110	240	
Highly clay altered sections occur @ 263.1, 275.4, & the last 20cm of the hole.																								259.9	06272		40		3.6			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No: 22 of 23

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pyrite	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y								
																												SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
Qtz veins: 255.5- 1.5-2cm @ 25° to CA, coarsely crystalline wht. Qtz w/ 30% open space & ~ 10% sulfides enveloping vein (sooty grey)																										95%	263									
265.7-265.9m 2 veins intersect @ 25° to CA, 1-1.5cm wide w/ wht cockscumb Qtz. The other is 0.5cm wide @ 30° to CA - wht massive Qtz w/ 10% sooty grey metallic								45°																		98%	266	06273		45		0.8				
270.7-271m - 1.5cm @ 15° to CA - wht cockscumb Qtz w/ <10% metallic. Pyrite diss. throughout breccia & is coarser & more crystalline in matrix than in frags					14.5-21.0-35°			45°																		98%	266	06274		5		0.4				
Py also occurs along micro fractures w/ dendritic envelopes (not common)					15-20°			25-30°																			98%	266	06275	0.003		0.06		35	2.0	
Dominant fracture @ 30° to CA & is usually lined w/ clay, 2mm.					1.5cm 15°			25-30°																			98%	266	06276	0.003		0.06		32	6.0	
								25-30°																				98%	266	06277	0.008		0.06		36	6.4
								25-30°																				98%	266	06278	0.006		0.02		27	4.8
								25-30°																				98%	266	06279	0.006		0.12		29	7.0

HOLE No: 84-2 SHEET No.: 23 of 23

[illegible]

N.T.S. MAP GRID: 104 K9
 LOCATION: HEART PEAKS
 DATE COLLARED: July 13/84
 DATE COMPLETED: July 22/84

BEARING: 345°
 LENGTH: 219.8 m
 DIP: -60° e COLLAR

KERR ADDISON MINES LIMITED

LATITUDE: 2485 N
 DEPARTURE: 1435 E
 ELEVATION: 1445 m

PROPERTY: HART
 CORE SIZE: NQ (WL)
 SCALE OF LOG:

HOLE No.: 84-3
 SHEET No.: 1 of 18
 LOGGED BY: WINGERT/DALEY
 DATE: July 18/84

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	Mineralization Type (6)	GRAPHIC LOG											METER BLOCKS	EST. CORE REC	ASSAY												
												Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Calcite	Pyrite	Hematite			Magnetite	Pyrite	Arsenopyr.	SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
Casing to 9.2m 1m-5.8m Trachyte - massive to weakly flow banded light gry to buff (bleached) in colour. 20% Ksp phenos to 2mm long, clay altered.			W		10-15cm															9-50%	50-100%	10%	10%		20%	1.0											
Core is crumbled, fracture & broken surfaces are lined w/ Fe Ox. Ground etc vein encountered in 1st 3m, 1-1.5cm wide, white-lgy gry etc w/ incorporated, clay altered breccia frags. <10% metallics Py is finely disseminated throughout trachyte w/ Py bbs <2mm in diameter. 80% of core is in chips.																								3.0	85		2.1										
5.8-9.9m etc vein, 7mm wide, wht etc w/ 40% open space along core axis, <10% metallics, @ 10" Fe CA					10"																			4.6	69%	06283	4003		0.01	90	10.0						
5.9-17.4m Trachyte - flow laminated w/ clay alt. Ksp phenos. Light gry to buff in colour, becoming more buff w/ depth. Trachyte is locally clay altered (2.5) - clay alt has no connection w/ colour.			2.5-3																	9-20%	50-100%	10%	10%		70%	5.8											
@ 9.1-9.2m trachyte is etc flooded med. gry in colour. Trachyte is fractured & brecciated (in situ) w/ ~20% clay																								9.7													

Springm Dip Table

LENGTH	DIP	BEARING
0 m	-60°	345°
61 m	-59°	353°
152 m	-59°	353°
220 m	-60°	359°

Note: TGS on graphic log implies samples taken by Tom Schroeder, Aug. 23, 1984

N.T.S. MAP GRID:

KERR ADDISON MINES LIMITED

PROPERTY:

HART

HOLE No: 84-3 SHEET No.: 2 of 18

W.T.S. MAP GRID. KERR ADRIAN MINES LIMITED PROPERTY: HOLE No. 2 SHEET No. 2 of 10																																	
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Sketches	Mineralization Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS EST. CORE REC	A S S A Y								
																									SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
5% Qtz infilling fractured incorporating trachyte frags. Qtz is finely disseminated through- out trachyte <10%																									75%	06287		110		2.2			
@ 14.4m ground Qtz Vein, 8mm wide, clean xtaline Qtz. 75% of core is rock chips.																									80%								
																									90%	12.7							
																									85%								
																									70%	06288		80		1.9			
																									65%								
17.4-17.5m Ground Qtz Vein - Whit gyrate w/ ~10% open space no banding, 10% sooty grey metallic. No Hw+FW, width is at least 1.0cm, no angle to core axis																									15.7	06289							
																									16.1			80		1.5			
																									16.4								
																									85%	06290	.006		0.08		195	9.6	
17.5-27.8m - Clay altered massive cu-flow laminated trachyte - light grey to buff in colour - <2% clay altered ksp phenos (63mm long) - Qtz is finely disseminated throughout trachyte & appears a sooty grey colour 70% of core is rock chips.		2-2.5								52%								20-46%	80-100%	<1%					17.4	65%	06291						
																									17.7	75%		.006		0.10		50	180
																									18.0	70%	06292	.004		0.15		160	150
																									18.6	80%							
																									18.9	70%							
																									19.5	65%							
																									19.8	70%		80		1.6			
																									20.4	80%	06293						
																									21.3								
																									21.6	60	21.5						

HOLE No.: 84-3 SHEET No.: 3 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type (6)	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green mica	Hematite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC.	A S S A Y							
																									SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
27.2-51.7m Silicified Trachyte - Flow laminated - medium grey to buff in colour, often a mottled buff-grey - 2% clay altered ksp phenos (5mm)			✓										2%							0-5% 80-100% 10%			22.6 23.5	70%	06204		35		2.3			
- although silicified ksp phenos - selected bands of flow lamin. are totally clay altered & weathered out leaving cavities ~ Open cavities w/in the trachyte ranges from 2-15% & is more abundant in bleached buff trachyte. - 2% ksp phenos have altered to montmorillonite - py occurs as fine dissemination throughout trachyte & is more abundant in grey trachyte (up to 10% py in grey trachyte) - No dominant fracture set - Fractures are lined w/ clay & FeOx - up to 2mm thick w/ clay																							24.7 25.3 26	70% 65% 65%	24.5 06205							
													2%		1%									27.7 28.3 29.8	75% 75% 75%	27.5 06206		75		1.7		
																								30.5 31.4 31.7	70% 70% 70%	30.5 06207		205		1.5		
																								32.9 34.1 34.7	70% 75% 70%	32.5 06208						
50% of core is rock chips.																								35.4 35.7	80% 80%	35.5 06209		35		0.6		

N.T.S. MAP GRID:

KERR ADDISON MINES LIMITED

PROPERTY:

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HOLE No: 84-3 SHEET No: 4 of 18

From -To		Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type (s)	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y									
ROCK TYPE AND TEXTURES Colour, Alteration																													SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
																											85%	37.5	42.5									
																											57.5		75%	06309		60		0.8				
																											39.3	39.5										
																											40.5		75%	06300		130		1.2				
																											41.7		80%	42.5								
																											43.3		85%									
																											44.5		75%	06301		30		0.5				
																											45.5		75%	45.5								
																											46.9		80%	06302		100		1.2				
																											48.2		85%	48.5								
																											48.5		85%	06303		45		1.5				

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HOLE No: 84-3 SHEET No.: 5 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type (6)	Albite	K-Feldspar	Anhydrite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC.	A S S A Y							
																												SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
51.8; 1-1.5cm WIDE QUARTZ - CLAY VEINLET AT 30° TO CORE AXIS. 1mm LIMONITE; CLAY SELVAGES ALONG VEIN BOUNDARIES. NO ST.					1cm 30°					51																50.3	75%	51.3							
										51																	51.5	75%	06315	1.00%	0.06	63	8.0		
										52																									
51.8-62.7; BUFF TO MED GREY FLOW LAMINATED TRACHYTE. LAM. @ 45° TO CORE AXIS.										52																		52.2	75%	06317	1.00%	0.10	125	8.0	
										53																		53.8							
ESSENTIALLY SAME AS SECTION 27.8-51.7m. LOCAL LIMONITE STOCKWORK FRACTURE FILLED ZONES AT							45°			54																	54.6	20%	06318	20	30	12	12		
										55																		55.2	80%						
										56																		55.8	70%	55.9					
60.0m; 61.3m										57																		57.4	75%						
										58																		57.9	50%	06319		40	19	19	
58.75m; 5mm XAL GR VEINLET @ 30° TO CORE AXIS 1% PYRITE ALONG BOUNDARIES										59																				58.9	85%				
										60																									
										61																		61		06320		30	16	16	
										62																									
62.7m-70.2m MEDIUM GR, SILICIFIED										63																		63.7	92%	06321		40	16	16	

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HOLE No: 84-3 SHEET No.: 6 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Metre	Mineralization Type (6)	Albite	K-Feldspar	Anhydrite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Pyrite	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y									
																											SAMPLE No.	Au oz/ton	Au % Pb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
PYRITIC, FLOW LAMINATED TRACHYTE. DIFFERS FROM PREVIOUS SECTION BY INCREASE IN PY CONTENT TO LOCALLY 7-10%																										28%	649									
ALONG FRACT // TO LAMINATIONS : AS MINOR ST "CLOTS" TO 3mm. ALSO INCREASE IN Fe-ox COATED STOCKWORK FRACTURES TO 3% OF CORE. MAIN FRACTURES AT 20-30° TO CORE AXIS, SOME UP TO 60°			3				8.2	6.1		66		1-3%								10.7%				2-3%		28%	649	55		1.8						
1-3% CLAY ALT KF. AT 68.7-68.9m BLUFF, BEACHED, SILICIFIED ZONE ADJACENT TO 2mm WIDE QTE CLAY VEIN @ 45° TO C.A					2mm @ 45°					68																68.9	66323	80		1.7						
70.2-73.5m DISTINCTIVE TAN TO ORANGE-BROWN (OXIDIZED?) FLOW LAMINATED			1-2			35°-35°				70		3-5%								70				1-3%		28%	66324									
TRACHYTE. SILICEOUS NEAR TOP, BECOMING SOFTER, MORE FRIABLE AT DEPTH (TOWARDS QTE VEIN, NEXT INTERVAL). OPEN SPACE TO ~ 5-7%						35°-35°				71		3-5%								70						71.9	66324	65		1.7						
ANOMALOUS GREEN, VITREOUS MINERAL IN MM FRACTURES AT 71.1m										72																	72.2									
										73																75%	66325	1003		0.14		140	7.6			
73.5m - 75.4m; QTE VEIN										74																	73.2	66323	1006		3.02		75	920		

Also prominent
lamination
at 10-30°
to C.A
@ 65m,
70m,
70.1m.

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HOLE No: 84-3 SHEET No.: 7 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	QUARTZ Carbonate % Silice - Ind (3)	Contacts	Veins Faults Bedding	Cleavage Rock Type Structure	Meters	Mineralization Type (6)	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite Glaucophane CLAY Pyrite Hematite Magnetite Pyrite Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y																									
										SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb																		
MASSIVE WHITE QR WITH 5% BLACK, FINE GRAINED TO SPODY METALLIC (Hem, mag, ASP?) IN TAN, SILICIFIED, BLEACHED TRACHYTE. LOWER .6m OF VEN UP TO 25% BLACK METALLICS			1.5m 25°		74.1																														
VEIN CONTACTS @ 30° TO CORE AXIS. ANOM BLUE GREEN MID. IN FECT																																			
75.4 - 80.5 m GRAY, SILICIFIED, MASSIVE TO FAINTLY FLAW LAMINATED PYRITIC TRACHYTE. PYRITE TO 5% BOTH DISSEM; FECT CONTAINED. Py "CASTS" UP TO 1 cm WIDTH			1cm 25°		76																					75.4	06326	.006	0.14	255	120				
3-10% clay ANTELOP KF PHENOL					78																					76.4	06327	200	5.1						
ORE VEINETS @ 77.1m; 1cm @ 25° TO C.A																										78.9									
80.8m; 5mm @ 25° TO C.A TRACHYTE POSSIBLY BECOMING COARSE, TO REAR/RITE. LOCAL SECTIONS			5mm 25°		80																						102.2	06328	113	2.2					
					82																						81.9								
					84																						100%	06329	70	0.9					
					85																						84.9								

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HOLE No: 24-3 SHEET No.: 8 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Metres Type (L)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y							
																										SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
																									100%	06330		55		0.8			
																									81.9								
																									100%	06331		100		0.7			
00.5-04.2m - Massive mottled grey frag. silicified & pyritic w/ a weak flow lam. 3-10% clay alt. ksp phenos. 1-2% clay alt. rounded breccia frag. to 1cm. Py is disc. of frag. controlled. A concentrated core of disc. py occurs @ 0.1m - 0.2m - 10% py		2.5						16	30°				3-10%						0-100% 10-50%				91	100%	06332		90		0.8				
Qtz veins @ 0.1m - w/ 2% w/ 1% open space along axis w/ 1mm wide py envelope 0.2-0.5 - 1.5 w/ grey qtz w/ 5% open space containing 2-3% disc py.								20															100%	06333									
04.2-05.4m - Trachyte breccia - silicified w/ subangular frag. - py occurs as disc blebs throughout matrix & frag. & enveloping frag. 95% frag as massive trachyte up to 10cm long. Qtz vein @ 0.1m - axis contains amy qtz (5mm) w/ 15% open space. Biotite contains 5% w/ 2% qtz (5mm) 10% metallic.		2.5						20															100%	06334									
blotches of green montmorillonite occur w/ in breccia matrix.																								100%	06335		0.04		0.4		650	180	
05.4-06.5 Trachyte as 00.5-04.2m.		2						30°					3-10%						0-10% 0-20%				92	100%	06336								

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HOLE No: 64-3 SHEET No.: 2 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	Mineralization Type (6)	Albite K-Feldspar Augite Biotite Muscovite Sericite Chlorite Green Mica Epidote Hornblende Glaucophane Hematite Magnetite Pyrite Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y								
													SAMPLE No.	Au oz/ ton	Au ppb Pb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
98.5-98.7 Trachyte Breccia as 94.2-95.9.														06336		210		1.9			
98.7-99.1 Trachyte - fg massive, silicic + pyritic. 2% altered ksp phenos 3% fg dendritic & frax. controlled py.											98.7			99.1							
99.1-101.15 Trachyte Breccia, clay altered becoming silicified in the last 80cm. Description as 94.2- 95.9m. - FW contact w/ trachyte @ 40		15										90%									
101.15-103.7m Med gry silicified trachyte-massive to flow banded @ breccia contact. Description as		30										0.5%					55		1.3		
90.5-94.2m. Footwall contact w/ breccia @ 300		30										0.5%	0-10%		100.4						
														100.9	103.1						
														103.6							
103.7 to 104.45m Trachyte Breccia as 94.2-95.9. clay all on NW, or varied on W-WN. Chy rich, 30% open space.		0										0-80%									
		30	30																		
104.45-108.7m - Massive, silicic + pyritic Trachyte - can have faint lam. Ksp phenos all to montrealite (grn.) Py occurs as fine dms + dendritic blobs, is fracture controlled & forms fine bands 1 to 4mm. Fractures as @ 40-80 to ch & lined w/ 1mm-1cm to light grn montrealite. @ 106m-106.1m 4" veinlets occur.		30	30									0.5%	10-50%		108.3						
3 vuggy etc veins, 1-4mm wide w/ 50% open space; 1 massive etc veinlet, 3mm wide w/ 40% mont. + 10% py; 1 brecciated etc-py veinlet, 8mm wide w/ 20-30% py All veinlets are @ 25 to 30 to ch & w/in															107.3	106.1					

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HOLE No: 84-3 SHEET No: 10 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Meters	Mineralisation Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epithite	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y								
																												SAMPLE No.	Au oz/ ton	Au ppb pb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
NW contact w/ breccia @ 80°				U																																
102.7-104.1m DK gry trachyte breccia w/ massive red gry trachyte clasts to 2cm, 2-5% d. ss. py, clay alt.			2	U																	30-40%			2-3%			100%	06339		69		2.1				
104.1-112.8m Trachyte as 104.45-108.7m Weak flow lam. @ 60° to LA Trachyte becomes more clay altered @ lower breccia contact - fm 115.41			2.5				80°					2-40%									10-30%			3-4%			20%		06340		40		2.0			
112.8m. Fractures contain up to 1cm of clay & breccia frags of trachyte																									111	20%										
																									112.2	20%			06341							
112.8-115.3 Trachyte Breccia as 94.2-95.8 - clay altered			2																		30-40%			5-6%			95%			70		3.8				
113-113.15 Trachyte as 104.45 to 108.7m			2.5-3				80°	50-60°													0-10%	30-50%		5%			20%									
																									114.45	20%			06342	006		0.12	85	17.0		
113.15-115.3 Qtz vein - banded w/ r Qtz w/ 2cm of cockscamp Qtz along axis - 20% open space - no visible sulfides. 2.5cm core width					25cm-150																					115.2	95%		06343	006	0.28		200	24.0		
115.3-135.45 Siliceous & pyritic, massive to weakly flow lam. Trachyte	3						80°																			117	95%									
Trachyte is a mottled red gry																										117.6	95%		06343	008	0.14		265	17.4		

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HOLE No. 84-3 SHEET No. 11 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Fossils	Bedding	Cleavage	Rock Type Structure	Metres	Mineralisation Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Hematite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC.	A S S A Y							
																									SAMPLE No.	Au oz/ ton	Au ppm PB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
colour w/ 3-5% clay altered Ksp plums to 2mm long. 21% clay altered breccia frag. 6. Clay is generally a light green colour indicating montmorillonite - Pyrite occurs mainly along microfractures + flow lam. as dendritic blobs. Py also occurs as fine disseminations throughout trachyte.							84	30° to 90°					4-50%						50-60%	40-60%				95%	116.3	06344		45		2.6		
@ 11m - breccia lined fracture @ 200 to 400 - 1cm wide w/ clay altered breccia clasts to .5cm long.																							119.5	95%	119.3							
@ 117.1-117.3, zone of insitu breccia w/ 95% breccia clast w/ no rotation on the clasts - 50% clay rich matrix																							121.75	95%	122.3	06345		40		6.3		
																							123.1	95%	123.3	06346		45		2.0		
																							123.5	95%	123.3							
137.1-127.3 Qtz vein @ 10° to 40° .4-1cm wide, vuggy fg w/lt qtz w/ 10% open space. Vein is enveloped w/ pye					0.4-1cm	10°																	124.5	95%	127.4	06347		30		1.8		
clay. 47% clay 44% py.																								90%	128.3							
128.4m. 2mm wide py. lined fracture containing 50% py. 50% clay							84																129.2	90%	129.8	06348		30		3.6		

[illegible]

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HOLE No: 84-3 SHEET No.: 13 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	Mineralization Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica Epithermal Type (5)	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y								
																										SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
Fire dissemination along microfractures 145.1-146.3 - fractured & brecciated clay altered trachyte as 142.3-142.5m. Fractures vary from 40-50° to CA & generally contain a thin clay lining <1mm								70-80°																145.8	95% 85%	06353		40		2.0				
																								146.6		146.3								
																									90%	06354		20		2.5				
																								149.0	90%	149.3								
151.6-169.6 Light grey to buff coloured massive, silicified & pyritic trachyte ~ 5% clay altered K-feldspar phenocrysts (<3mm in length) (40-50% grn clay) Trachyte displays a v. weak flow lam. which is outlined by mm scale lam of silicified trachyte or by mm scale py bands. Py occurs as fine delicate bands & dendritic dissemination, & along microfractures							60-70°	45-55°				5%											5-7%	180.3 151.2	100% 90%	06355		30		2.4				
																										152.3								
																											06356		23		2.0			
Dominant fracturing is @ 45, 35 & 60° to CA. Fractures are lined w/ clay <1mm & w/ some py.																								154.2		154.3								
																									100%	06357		20		1.7				
																								157.9										

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HOLE No: 843 SHEET No.: 14 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type (6)	Albite	K-Feldspar	Analcite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Pyrite	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y									
																											SAMPLE No.	Au oz/ ton	Au ppb PPB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
																									158.5	100%	158.3									
																										160.7	100%	06358		5		1.2				
161.5m CAVE																										161.2	95%	161.3								
																										163.1	95%	06359		30		4.5				
																										164.5	95%	164.5								
																										164.5	95%	06360		20		3.0				
167.4- 10cm of brecciated trachyte 95% trachyte frags <1cm in size in 5% clay matrix																										167.4	90%	167.3								
																										167.6										
169.6-175.8m - mottled buff to medium grey silice & pyritic																										168.9	100%	06361		30		1.7				
																										169.8	100%									
trachyte. 3-5% altered Ksp phenocrysts in 151.6-175.8 2-3% pyrite occurs dominantly along microfracturing <20% of py is disseminated																										171.6	100%	06362		25		2.0				

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HOLE No: 84-3 SHEET No: 15 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	Mineralization Type (4)	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y									
																											SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
@ 172.5-172.6 - Stockwork of veins w/ 30% open space. Veins consist of fine-grained crystalline.																											172.5	172.5								
From 172.6 - 175.8 trachyte becomes more clay altered & broken.																											173.5	173.5								
- Fracturing - as last interval																											173.7	173.7								
																											174.9	174.9	15		2.7					
175.8-179.2m - broken and clay altered trachyte w/ a possible cave between 175.9 & 176.8, black clay gouge occurs between 176.9 & 176.1m. Trachyte is massive w/ 20% clay all esp phenos, 3-5% py occurring as in																											175.8	175.8								
179.2-181.6m Trachyte becomes brecciated between 179.2 & 179.7.																											176.8	176.8	20		2.8					
181.6-184.4m massive light-med mottled grey silicic & pyritic																											178	178								
Trachyte 20% altered & esp phenos. 2-3% py occurs dominantly along fractures & maintaining its dendritic habit. Between 180.7 & 180.7 the trachyte is broken up. Fracture surfaces are all lined w/ clay 25mm																											179.2	179.2	35		2.9					
@ 183.35m a breccia lined fracture - 1cm of fine trachyte breccia along fracture plane @ 20° to CA																											180.7	180.7								
																											181.8	181.8								
@ 183.35m a breccia lined fracture - 1cm of fine trachyte breccia along fracture plane @ 20° to CA																											183.2	183.2	35		2.3					
																											184.4	184.4								
Dominant Fractures are @ 20° 45-50°																											185.9	185.9								
@ 185.1-185.4 Homogeneous, silicified inside breccia																																				

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HOLE No: 84-3 SHEET No: 16 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Car bonate % Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	Mineralization Type (6)	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green Mica Epidote Hornblende Glaucophane Actinolite Hornblende
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HOLE No: 84-3 SHEET No.: 17 of 18

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	GRAPHIC LOG Rock Type Structure	Meters	Mineralization Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Pyrite	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y							
																											SAMPLE No.	Au oz/ ton	Au ppb PPb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
Fractures contain a thin clay lining 2mm. Dominant Fracture directions are @ 30° - 60°																											06373		10		0.5			
Note: Green hue to trachyte probably due to montmorillonite And Epidote.																											06374		<5		0.4			
210.4-210.6 - Brecciated gneiss. Trachyte clasts in @ clay matrix - CAVE?																			100%						<1%									
212.6 - 212.7 - dk grey clay gneiss. CAVE?																																		

HOLE No.: 84-3 SHEET No.: 18 of 18

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N.T.S. MAP GRID: 104 K9

KERR ADDISON MINES LIMITED

LOCATION: HEART PEAKSBEARING: 255°LATITUDE: 8+22NPROPERTY: HARTHOLE No.: 84-4DATE COLLARED: July 23/84LENGTH: 210.3 mDEPARTURE: 3100 ECORE SIZE: NQ (WL)SHEET No.: 1 of 17DATE COMPLETED: July 26/84DIP: -40° @ COLLARELEVATION: 1338 m

SCALE OF LOG:

LOGGED BY: WINGERT / JMSDATE: July/84

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type	Structure	Meters	Mineralization	Type (6)	GRAPHIC LOG											EST. CORE REC	A S S A Y														
														Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Matrix	Pyrite	Hematite		Magnetite	Pyrite	Arsenopyr.	METER BLOCKS	SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb			
4.4-25.7m Explosion Breccia. - subangular fragments ranging up to 35cm core length. - fragments consist of ~ 5-7% sediments + 92-94% trachyte								30-40°																			6.4	35%	4.4											
+ 10% pyrite - the largest fragments are light grey massive + silicified trachyte, these are possibly fingers of trachyte - 10-20% of trachyte fragments are clay altered, 20-30% are bleached to wht - buff grey.																											7.0	55%												
- Py occurs as small blebs (frag.) in the breccia or as dissemination																											7.6													
- in the trachyte fragments																											8.8	50%	9.4											
- fm 13.4-13.9 m + fm 21.8-21.95m are zones of buff wht clay gouge.																											9.4													
- dominant fracturing is fm 20-40 to CA.																											11.0	70%												
																											11.6	90%	0.5											
																											13.1	98%	12.4											
																												16.4	96%	0.5										
																											18.1													
																											19.6	95%	0.5											
SPERRY SUN DIP TESTS																																								

SPERRY SUN DIP TESTS

LENGTH DIP BEARING
 0 -40° 253°
 210.3 m -37° 251°

Note: TGS on graphic log implies samples taken by Tom Schroeter, Aug. 23, 1984

N.T.S. MAP GRID:

KERR ADDISON MINES LIMITED

PROPERTY:

HART

HOLE No: 84-4 SHEET No.: 2 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silica - Ind(3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type (6)	Albite	K-Feldspar	Auginite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y						
																										SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
Note Values in Brackets are arithmetic conversion from Au ppb to oz/Ton Au or Au oz/Ton to Au ppb.										18														100%	18.7							
										20														21.5	06390	(.003)	105		0.6			
										22														100%	06390		90		0.5			
24.4-25.7 - Hanging wall of vein. Looks like the rest of +10 Explosion Breccia from 6.4 M to 29.5 M.										24												3	24.4	06390	0.12 (411)	.19		1400	190	1.3		
25.7-25.8m Qtz Vein, 6cm wide, 40° to CH. - massive wht qtz w/ ~ 4% open space no visible metallics, brecciated on the F.W side, & is clay altered along fractures, vugs abundant										26														100%	06390	0.008 (274)	0.11		1600	53.0		
25.8-29.5 Explosion Breccia as 6.4-25.7m		0.5								28														27.4	06390	0.008 (274)	0.02		590	120	1.0	
										30														100%	06390	(.002)	70		0.7		3.0	
29.5-32.8m Lg. angular trachyte clasts w/ explosion breccia matrix										32														100%	06390							

(the explosion breccia appears to
be infilling fractures w/ in
the trachyte along a trachyte

N.T.S. MAP GRID:

KERR ADDISON MINES LIMITED

PROPERTY:

HART

HOLE No. 244 SHEET No. 3 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	GRAPHIC LOG	Mineralization Type (6)	Albite	K-feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC.	A S S A Y							
																											SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb Sample 100g
explosion breccia contact. Dominant contact bet. trachyte & breccia is @ 40° to CA. Trachyte is light grey, massive & silice w/ ~10% finely dis. py.		5°				40-50°		30																	8.5		06396	(.002)	80		0.3			3.0
~30% ksp phenos (<2mm). Dominant fractures @ 40° & 50° 32.8-39.8m Trachyte w/ in situ trachyte breccia. breccia frags show little to no rotation w/ contact to trachyte @ 40-50°		40-50°				40-50°		35				3-5%											1-3%		33.5			(.01)	245		1.1			3.2
to CA. Breccia ranges from 10-50% to 90% trachyte frags in a silice, trachyte to pyritic matrix. The breccia contains 1-15% open space which is lined w/ qtz & Fe stained clay								34																	100%		06397							
Py occurs as fine disseminations or along microfractures which form a network around trachyte frags Trachyte is massive, silice & pyritic w/ 3-5% ksp phenos.		30m 60°						36																	100%		06398	.014		0.11		4700	400	1.05
Fractures are lined w/ clay &/or qtz. 30m wide qtz vein @ 37m, 60° to CA. containing shattered, massive qtz w/ Fe-Ox stain along fractures.								38																	100%		06399	.020		0.03		2000	168	1.7
39.8-39.9 qtz vein. 10cm wide, HW @ 70° to CA, FW @ 40°-massive wht-ton qtz w/ 15% open space & ~15% incorporated pyritic breccia frags. bordering breccia matrix is ~20% to 60% py to 2cm out 5m vein (2 MM band)		60m 70°-70°						39																	100%		06400	.010		.01		2600	190	1.0
39.9-41.1 Trachyte w/ in situ trachyte breccia as 32.8-39.8m								40																	100%		06401	.022		0.03		2000	162	1.2

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silico-Ind(3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	LOG Meters	Mineralization Type (6)	GRAPHIC												METERS BLOCKS	EST. CORE REC.	ASSAY												
												Albite	K-Feldspar	Anhydrite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite			Pyrite	Arsenopyrite	SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppa	Hg ppb Sample Int.			
41.1-41.3 - Ground core w/ abundant qtz, possibly one or two veins of massive to stalling etc. bordering breccia is pyritic w/ ~100% py.										41.1																	41.1											
41.3-41.6m. Qtz vein ~ 20 cm wide @ 60° to CA on FW - HW side ground. Vein consists of banded to stalling sheet textured qtz w/ ~ 30% open space and 40% metallic. Vein is oxidized & contains clay along fracts & vugs. Fine laminations of fgs. Chk grey silica had tan clay also occur w/in the vein. It appears to be a large oriented @ up to CA. Not w/ to the vein axis. Contact w/ schist etc is abrupt - appears to be a later occurrence. Vein envelope is pyritic ss @ 39.8-40.2 m in chips					30 CH					41.5																41.6	06404	.022	.14		3200	34.0	.5					
41.6-41.9m Trachyte w/ in situ trachyte breccia as 23.8-39.8m. Dominant fracturing is @ 40° & 60°. Fracture surfaces are oxidized w/ limonite Fe oxide.	V							50° 40°		42		2-3%							0%	0-15%			2-4%			42.7	42.6	06405	.016	.002		4600	430	1				
42.4m - 1cm wide cockscorn etc vein @ 60° to CA. On HW side, sum with vuggy siliceous zone w/ 35% oxidized vugs, 20% pyrite blobs					um 50° / 10°					44																43.3	43.2	06406	(.005)	.170		0.5			3			
43.1 Trachyte breccia w/ 25% open space - vugs lined w/ limonite etc										46																43.4	43.6	06407	(.007)	.235		0.5			1.4			
43.7 to 43.8m qtz veinlets, 1.5cm wide					um 50° / 10°					48																43.8	43.7	06408	.012		0.03		4200	48.0	.7			
40° & 60° to CA respectively w/ wht cockscorn etc. Veinlets splay out into smaller veinlets & are clay filled. From 43.6-43.8m matrix of breccia is tan clay - no visible metallics					um 50° / 10°					48																43.8	43.7	06409	.014		0.07		4200	44.0	.3			
50.2m - 2cm wide white corkscomb etc vein @ 50° to CA. - no visible metallics.										50																48.8	48.9	06410	.008		0.05		1700	144	1			
										50																100%	06411	0.00		0.15		3800	28.0	2.2				

N.T.S. MAP GRID:

KERR ADDISON MINES LIMITED

PROPERTY:

Hart

HOLE No: 84-4 SHEET No.: 5 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type (6)	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y							
																												SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb ppb Int.
30.45 Vuggy Breccia 51-51.5m - clay altered breccia ~ 20% to green clay - both matrix & frags altered 51.8m - 2 cockscorn etc veins @ 7mm + 1cm @ 60° to CA.			12							51											80-100%				56	50.3	100%	51.2							
52.5-53.9 - Grg clay gouge w/ 210% py			12							52															58	51.8	98%	06412	(.004)	130		0.5		3	
										54																53.8	98%	06413							
										57																54.9	98%	06415	.022		0.06		6100	70.0	2.4
57m - 2cm wide grt vein @ 50° to CA coarsely crystalline cockscorn etc w/ no visible metallurgy.										58																56.9	98%	06414	.028		0.03		6600	66.0	.8
57.95-58.1 12cm wide grt vein @ 40° to CA - massive wht grt w/ 50% open space + 85% dk grt silica + trachyte frags. < 10% metallics.										58																58.1	98%	06415	.026		0.01		5600	61.0	.75
59.4m grt vein, 4cm @ 50° to CA. weakly banded to massive grt w/ no visible metallics + 10% open space.										60												1% Pb				59.4	98%	06417	.028		0.05		7900	67.0	1.2
										61																61.0	98%	06418	.028		0.03		7000	66.0	.2
										62																62.5	98%	06419	.026		0.05		7800	52.0	1
										63																63.5	98%	06420	(.012)	400		0.5			3
										64																64.5	98%	06421							

N.T.S. MAP GRID:

KERR ADDISON MINES LIMITED

PROPERTY:

HART

HOLE No: 84-4 SHEET No.: 6 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silica - Ind (3)	Contacts	Veins Faults	Bedding	Cleavage	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type (6)	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	ASSAY							
																								SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb sample initial
64.9-71.5m. Explosion Breccia. ~15% sub. clasts, black (a); 80% clay <.5cm in diam 10% py <.5cm in diam.	2.5			25°		64.9										< 30% 0-50%				34%		65.5	100%	06421	(.011)	380	1.4			3	
70% trachyte which comprises of the widest size range - to 7cm except for ~ 80% clasts & 1cm the breccia consists of well-sorted fragments <1cm in size - frags are subangular.						66																67.6	100%								
② the NW contact 2 separate pulses of explosion breccia can be distinguished by size & alignment of clasts. Main body of breccia shows an alignment @ 25° to CA.						68																68.6	100%	06422	(.002)	65	2.5			3	
- Py occurs both on frags & also throughout the matrix. no dominant fracture direction 71.5-72.2 - massive silicic + py. trach Description as 72.25-	U					70			5%							0-10% 0-50%	0-5%					71.6	100%	06423	.003		0.04	620	13.2	3	
72.2-72.25 - Explosion Breccia as 64.9-71.5m. NW has 2 pulses as before. Py clasts up to .5cm. Also line NW contact w/ trach. 1-2mm wide. 2mm wide etc veins along NW - @ 45° to CA & 1" to contact	U					72										0-10% 0-50%	0-5%			5%			72.5	100%							
72.75-77.2m Massive, silicic + pyritic trachyte w/ trachyte breccia. 80% to phenos. Py occurs along microfractures finely disse throughout trachyte & in silicic matrix of breccia, often rimming fragments. Frags show no rotation < 30% matrix. Matrix contains up to 50% open space (w/ <1mm etc) Qtz veinlet @ 7cm, 6mm wide, @ 60° to CA - massive etc w/ 100% open space Vein is cut by a gm clay lined	3					73		3%							0	0				2-4%		74.7		06424							
						74																									
						76																	100%	75.5							

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Veins Faults Bedding	Cleavage Rock Type Structure	Meters	Mineralization Type (6)	Albite K-Feldspar Augite Biotite Muscovite Sericite Chlorite Green Mica Epidote Clay Hematite Magnetite Pyrite Arsenopyrite	METERS BLOCKS	EST. CORE REC.	A S S A Y							
									SAMPLE No.	Au oz/ ton	Au ppb PPB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb Sample Int.
5mm wide, wht cackcomb qtz @ 40° to CA. - Dominant fracture directions are @ 40° & 60° & generally lined w/ Limn Sb py or Qtz.		5mm 40°		76					06475	.010		0.01		4400	350	2.5
77.9-77.85 Qtz vein, 3.5cm @ 50° to CA - 2cm db wht cackcomb qtz along axis w/ 3% open space. Bubbles are mn oxide banded w/ grey yellow qtz. - visible sulfides. Envelope contains ~5% py.		3.5cm 50°		77					77.9 06426 77.8 06427 77.85	.016		0.03		5800	57.0	.9
77.95-144.0m. Massive to weakly flow laminated trachyte with in situ trachyte breccia. Rock ranges in colour from med gray to buff in color & is silicic & pyritic. Breccia consists of angular frag. frags in a dk gry silic & pyritic matrix. Frags have undergone little to no rotation, can be rimmed w/ py. The matrix can be vuggy or contain grn clay altn. Trachyte contains ~4-6% lapples 2-3mm long, 4-8% py occurring along fractures, & disseminated through out. Dominant fracture directions are 340°-50° & 60° & are lined w/ Qtz, py or FeOx.	3		45-50-60°	78	4-6%		0-6% 0-50%	4-6%	06428 78	.016		0.12		6100	59.0	1.05
				80					06429	200		0.9				3
				82					82		225		1.5			
				84				100%	06430							3
				86					86							
07.15 - Qtz veined 5mm @ 50° to CA Cackcomb qtz		5mm 50°		86				100%	06431		170		0.6			3

HOLE No.: 84-4 SHEET No.: 8 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silice - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	Mineralization Type (6)	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC.	A S S A Y									
																												SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb Sample int.		
																											100%	06432		190		0.8				3	
A1.2 Qtz Veinlet 8mm @ 50° to CA Cockscomb Qtz					5mm 50°																							91									
92.2m Qtz veinlet .7mm @ 40° to CA banded wht - clear Qtz w/ 20% py along axis + schwaeg					7mm 40°																						100%	06433		390		1.1			3		
94.0m - Qtz a clay lined fracture 1cm thick @ 50° to CA					1cm 50°			40°																			100%	94									
95.3m - 8mm wide Qtz, clay lined fracture @ 40° to CA																																					
96.0m - 1cm wide open fracture 110 CA lined w/ 1mm oxidized Qtz																												06434		460		1.0				3	
97.2 Qtz lined vuggy breccia																																					
																												100%	97								
99.7 Qtz lined vuggy breccia																																					
99.9 - 100.2 - 2cm wide fracture w/ siliceous tuffite & Qtz frags in clay matrix. 30cm width of tan bleached trachyte.								50°																				06435		460		1.0				3	

N.T.S. MAP GRID:

KERR ADDISON MINES LIMITED

PROPERTY: LAKEHOLE No: 84-4 SHEET No: 9 of 17

From - To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	GRAPHIC LOG Rock Type Structure	Meters	Mineralization Type (6)	Albite	K-feldspar	Angeles	Biotite	Muscovite	Sericite	Chlorite	Green mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METERS BLOCKS	EST. CORE REC	A S S A Y						
																										SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
100.3 - 2" qtz vein swelling to 1.5 cm x 1 cm wide - massive qtz w/ ox. along fractures & envelope.			1.5 x 1 cm 40°					100.3																	100%	06436	440		1.0			2.3
100.7 m - Open Jug @ 45° to CA, lined w/ qtz, half filled w/ oxidized clay & envelope in py.			See 100.3					100.7																	100%	06437	(.0385) 1320		1.3			.7
101.5 - Vuggy breccia. 10/101.55								101.5																	100%	06438	640		0.9			
102.0 - Vuggy qtz rich breccia. 15 cm								102.0																	100%	06439						3
- 2 mm qtz xtls lining vug.								102.5																	100%	06440	605		1.2			3
111.75 - 2 cm qtz vein @ 45° to CA white calc-silicate qtz, brecciated & oxidized along axis.			2 cm 45°					111.75																	100%	06441	410		1.4			.7
113.7 - 113.9 - stockwork of qtz veins in fracture - no visible metallic.								113.7																	100%	06442	410		1.2			.7
								113.8																	100%	06443	440		1.2			.9
								113.9																	100%	06444						

KERR ADDISON MINES LIMITED

N.T.S. MAP GRID: _____

LOCATION: _____

DATE COLLARED: _____

DATE COMPLETED: _____

BEARING: _____

LENGTH: _____

DIP: _____

LATITUDE: _____

DEPARTURE: _____

ELEVATION: _____

PROPERTY: HAET

CORE SIZE: _____

SCALE OF LOG: _____

HOLE No.: 84-4

SHEET No.: 10 of 17

LOGGED BY: _____

DATE: _____

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate Silice - Ind(3) Contacts Veins Fossils Bedding Cleavage Rock Type Structure Meters	GRAPHIC LOG Type (6)	Albite K-Feldspar Augite Biotite Muscovite Sericite Chlorite Green Mica Epidote Clay Hematite Magnetite Pyrite Arsenopyr. METER BLOCKS	EST. CORE REC	A S S A Y									
					SAMPLE No.	Au oz/ ton	Au ppb PPb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb Sample Int.		
115.6-115.6m - Very vuggy breccia - etc lined vugs.				115.2	100%	06444		850		1.4				3
				116.7	100%	116.7								
				118.2	100%	06445		430		3.0				3
				119.7	100%	119.7								
				120.1	97%	06446								
				121.6	97%	06446								
122.8-122.9 - Qz veined stockwork no visible sulfides				122.7	97%	122.7		485		1.2				3
				123.1	97%	123.1								
				124.6	98%	06447		700		1.6				3
				124.6	98%	124.6								
				125.7	98%	125.7								

N.T.S. MAP GRID: _____

KERR ADDISON MINES LIMITED

LOCATION: _____

BEARING: _____

LATITUDE: _____

PROPERTY: HARHOLE No.: 84-4

DATE COLLARED: _____

LENGTH: _____

DEPARTURE: _____

CORE SIZE: _____

SHEET No.: 11 of 17

DATE COMPLETED: _____

DIP: _____

ELEVATION: _____

SCALE OF LOG: _____

LOGGED BY: _____

DATE: _____

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Concns	Veins	Fouls	Bedding	Cleavage	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type (6)	Albite	K. Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyr.	METER BLOCKS	EST. CORE REC	A S S A Y							
																									SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Bg ppb Sample int
							128.5																100%	06448		800		1.6			3	
128.3m - 1.5cm wide qtz vein @ 45° to hor with cockscomb etc - no visible sulfide.			1.5cm - 45°				128.5																100%	128.7								
							129.5																100%	06449		675		2.0			3	
							131.7																100%	06450		1250		2			3	
							134.7																100%	134.7								
							137.1																100%	06451		970		1.4			3	
							137.7																100%	137.7								

KERR ADDISON MINES LIMITED

N.T.S. MAP GRID: _____

LOCATION: _____

DATE COLLARED: _____

DATE COMPLETED: _____

BEARING: _____

LENGTH: _____

DIP: _____

LATITUDE: _____

DEPARTURE: _____

ELEVATION: _____

PROPERTY: HART

CORE SIZE: _____

SCALE OF LOG: _____

HOLE No.: 84-4

SHEET No.: 12 of 17

LOGGED BY: _____

DATE: _____

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate Silica - Ind (3)	Contacts	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Meters	Mineralization Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyrite	METER BLOCKS	EST. CORE REC	A S S A Y							
																										SAMPLE No.	Au oz/ ton	Au ppb PPB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Pb ppm Sample int.
24.4 M. to 143.7 M. = 118.8 M. wid avg Au. 453 PPB, -01302/ton		3						140.7																		06452		200		6			3
141.7 - Opal lined fracture in trachyte frag of breccia. lining is ~ 4 mm wide								140.7																	140.7								
Trachyte + trachyte breccia becomes progressively more clay altered @ the end of the interval.	2.5							142																	142.7	95%	06453		120		2.6		3
	2							143																	143.3								
144-147.6 Gry pyritic, clay fault gouge. - 1st 30cm contains altered trachyte - fragments in a clay matrix.	0							144																	144.3	95%							
145-145.2m - Very pyritic, clay altered						35-55P		145																	145.8	95%	06454		40		1.4		
Breccia - light grn gry frags in a dk gry clay matrix ~ 100% py occurring as clasts + in matrix. Py								146																	146.3	95%							
- clay fault gouge varies from dark grey to a mottled grey where light grey patches are relic breccia fragments. Gouge contains								147																	147.3	95%							
fine disseminated pyrite, >3%								148																	148.9	95%	06455		15		8		
- Remnant fracture planes occur								149																	149.7	98%							

DATE:

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silica - Ind (3)	Connects	Veins	Faults	Bedding	Cleavage	Rock Type Structure	Minerals	Mineralization Type (6)	Albite	K-feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Epidote	Clay	Hematite	Magnetite	Pyrite	Arsenopyr.	METER BLOCKS	EST. CORE REC	A S S A Y							
																												SAMPLE No.	Au oz/ton	Au ppb ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
@ 25°-55° at an angle, only ~ 1 per meter																										150.6	90%	06456		10		2.4			
																										152.25	90%	152.7							
																										155.5	90%	06457		<5		1.3			
156.6-161.2 medium gray clay containing 21.0%-35.0% light green-gray clay altered relic breccia fragments																										156.6	100%	155.7							
																										156.6	100%	06458		<5		1.3			
																										158.2	100%	158.7							
																										159.7	100%	06459		5		0.8			
																										161.2	100%	06460							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-4 SHEET No.: 14 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Concretions	Veins, < 1" dia.	Faults, < 1"	Bedding, < 1"	Cleavage, < 1"	Rock Type Structure	Meters	Mineralisation Type	Albite	K-Feldspar	Aug	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix Pheno	Fe Oxide	Arsenopyrite	Pyrite	Akseil Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																												Au oz/ ton	Au ppb X	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
										163															163.7		06469		< 5		0.9			
										164															164.6	98%	164.7							
										166															166.1	95%	06470		15		1.0			
										167															167.6	80%	167.7							
167.6-210.3 - Intensely clay altered breccia. Medium grey clay matrix with 50% breccia clasts. Clasts are less than 2cm in diameter 20-100% altered to clay & appear mainly as streaks or streaks. < 1% sediment clasts Pyrite occurs as fine grained aggregates or granules within the breccia & is dominantly found in the matrix.	0								55	168										95-100%				3-50%	169.2	80%	06471		< 5		0.5			
										170															170.7	95%	170.7							
-dominant fracture directions are @ 30°, 40°, & 50°, Fracture surfaces are polished clay - fractures not very prominent, only ~ 1 per 2m.										172															172.2	98%	06472		< 5		13.4			
										174															173.7	98%	173.7							
										176															175.3	98%	06473		< 5		0.5			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-4 SHEET No.: 15 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Connect, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Micas	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	A S S A Y									
																													SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
											176																98%	176.7										
											178																	98%	178.3	06471	5		0.3					
											180																	98%	179.7									
											182																	98%		06475	<5		0.2					
											184																	98%	182.7									
											186																	98%	184.4	06476	<5		0.3					
											188																	98%	186.7									
											190																	98%	188.7	06477	<5		0.3					
											192																	98%	190		188.7							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 84-4 SHEET No. 16 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silica - Ind (3) Concret, % Veins, % Faults, % Bedding, % Cleavage, % Rock Type Structure Meters	GRAPHIC LOG	Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Apatite Limonite	METERS BLOCKS EST CORE REC	A S S A Y							
							SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
		180				180.5	06478		5		0.3			
		182				188%	191.7							
		184				183.5	06479		5		0.3			
		186				188%	194.7							
		188				185.1								
		190				188%	06480		15		0.6			
		192				186.6	197.7							
		194				188%								
		196				188.1	06481		10		0.3			
		198				189.6								
		200				189%	200.7							
		202				201.2								
		204				188%	06482		5		0.3			
		206				200.7								
		208				189%	203.7							

N. T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-4 SHEET No.: 17 of 17

[illegible]

N.T.S. MAP GRID: 104 K9
 LOCATION: HEART PEAKS
 DATE COLLARED: July 27/84
 DATE COMPLETED: July 3/84

KERR ADDISON MINES LIMITED

BEARING: 255°
 LENGTH: 252m
 DIP: -60° e COLLAR

LATITUDE: 84°22' N
 DEPARTURE: 3400 E
 ELEVATION: 1350m

PROPERTY: HART
 CORE SIZE: NQ (WL)
 SCALE OF LOG:

HOLE No.: 84-5
 SHEET No.: 1 of 20
 LOGGED BY: WINGERT / DALEY
 DATE: JULY 28/84

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate Silica - Ind (3)	Connects	Veins	Faults	Bedding	Cleavage Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Pyrite	Hematite	Magnetite	Pyrite	Arsenopyr.	METER BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
																									Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
64-11.8m Trachyte breccia. Large massive to weakly flow lam. Silicic & pyritic trachyte fragments surrounded by finer grained trachyte breccia (probably a result of brecciation along fractures). Breccia matrix is silicic & pyritic w/ 10% pyrite occurring as pg aggregates & rimming clasts. Clasts contain finely disseminated py & fracture controlled py. Trachyte contains ~ 2-3% altered Ksp phenos. Dominant fracture @ 50° aligned w/ oxidized clay.	3				50°											0-5% 20-40% 1% 4-6%					6.6 7.3 8.5 9.71 10.55 9.5%	30% 35% 60% 70% 55% 95%	6.4 7.3 8.5 9.4 9.71 10.55 9.5%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

Sperry Sun Dip Test

LENGTH 249.4m DIP -62° BEARING 220°

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No.: 2 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Concretions	Veins, 4" and	Faults, 4"	Bedding, 4"	Cleavage, 4"	Rock Type Structure	Meters	Mineralization Type	Albite	K-feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Apatite	Meters	EST. CORE REC	SAMPLE No.	A S S A Y						
																													Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
large breccia clasts contain sm. rounded fragments in a flow laminated matrix some clasts are elongated parallel to lamination - flow breccia. These clasts contain ~10% py which is 100% fracture controlled (a late occurrence). Interstitial to these frags, the breccia is of a more homogeneous size w/ angular trachyte frags to 2cm in a dk grey silice & pyritic matrix. Matrix contains up to 6% py but 21.2-23.2m. Here, 2% py lined vugs also occur.			10					30°																5-5%	18.9	100%	18.4								
23.6-50.6m. Homogeneous trachyte			10					30°																5-5%	21.9	100%	21.4								
explosion breccia w/ <10% most angular breccia w/ <10% sediment clasts. Sediment clasts are black & <0.5 cm in size. - <10% dk grey silice & pyritic matrix. @ 38.6-38.6m, 100% matrix w/ ~10% pyrite			10					50°																3-5%	25.0	100%	24.4								
breccia fragments range up to 40cm in size w/ the larger fragments being the older trachyte breccia containing either flow laminated matrix or a massive fine grained buff coloured silice matrix. Other fragments consist of massive or flow laminated silice trachyte			10					50°																3-5%	26.3	100%	27.4								
Pyrite occurs as fine disseminations in the clasts, as fine grained aggregates in clasts within the matrix or infilling fractures			10					50°																3-5%	28.5	98%	28.4								
			10					50°																3-5%	31.1	98%	30.4								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 845 SHEET No.: 3 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Connect, <	Veins, < 1/2"	Faults, < 1/2"	Bedding, < 1/2"	Cleavage, < 1/2"	Rock Type Structure	Meters	Mineralization Type	Albite K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Muscovite Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y								
																							SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
- qtz veinlet @ 23.7m ± 8mm wide @ 38 to CA. Finely- textured qtz w/ ~15% open space ± 5% aggregated arseno xtals																						32.4	100%	06493		110		0.6			
Dominant fracture direction is @ 50° to CA. Fracture directions @ 30-35° are also prominent. Fracture surfaces are oxidized w/ a thin film of clay and iron oxide. (<1mm)																						34.1	100%	06494		160		0.6			
Analysis value in brackets is arithmetic conversion																						36.9	98%	06495	(011)	370		0.9			
																						38.4	98%	06496	(0096)	330		1.2			
																						41.4	98%	06497	(009)	330		1.3			
																						43.3	100%	06498							
																						44.8	100%	06499							
																						45.4	100%	06500							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No: 4 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3) Connect, < 1% Veins, < 1/2 Faults, < 1/2 Bedding, < 1/2 Cleavage, < 1/2 Rock Type Structure Meters Mineralization Type	GRAPHIC LOG	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite CLAY Micas Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS CORE REC	EST.	A S S A Y							
						SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
				1.3 3	100%	06498	(.0093)	320	1.0				
From 49.1 - 50.45 Stockwork of Qtz veins - massive to stallite Qtz w/ <1% sulfides				.7	100%	06499	.006		0.03	2350	16.2		
Vein @ 49.25m - 1.5 cm wide @ 20° to CA. Vein is shattered and oxidized along the axis (5mm wide) with a few clear stallite bands of Qtz and a white massive band of Qtz				1.3	100%	06499	.01		.03	3100	20		
2mm and 3mm wide respectively Vein @ 50.1 m km... wide @ 45° to CA - massive white quartz w/ very minor oxidation - no visible					100%	06500	.008		.007	1730	12.0		
sulfides. This vein joins a larger vein, 2.4 cm wide w/ 20% trachyte traps, 5% open space in stallite Qtz ~ 1% py													
50.6 - 64.3m Trachyte w/ trachyte													
breccia. Massive to weakly flow banded silice + pyritic trachyte w/ trachyte breccia occurring along fractures + developing to up to 20 cm wide. Breccia	3			506	100%	06500	.007		.05	2900	18		
ranges from ~ 20-25% angular trachyte fragments in a dk grey silice + pyritic matrix. Pyrite occurs as aggregates within the				.2		06500	.007		.05	2900	18		

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No.: 5 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Siliceous Ind (3)	Carbonate	Concretions	Veins, < 1" dia.	Faulting, < 1"	Bedding, < 1"	Cleavage, < 1"	GRAPHIC LOG Rock Type Structure Meters	Mineralisation Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Muscovite Phenocryst Fe Oxide	Pyrite	Arsenopyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	A S S A Y						
																									Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
matrix, rimming clasts, finely disseminated throughout matrix & clasts & occurring along micro fractures. Total of 8-8% pyrite w/ 70% occurring within																					2.6			06501	.006		0.09		6200	41.0	
the breccia matrix. Trachyte contains 2-4% ksp phenocrysts (< 2mm in size), py occurs finely disseminated throughout trachyte & occurs along fractures																					52.1			06502	.010		0.11		7600	54.0	
Qtz Veins: 50.85m. 1cm @ 40° to CA xtalline, cockscomb etc, no visible sulfides.																					.1	91.1		06503	.018		.08		3600	23	
50.95m. 1cm @ 40° to CA. xtalline, cockscomb etc, no visible sulfides																					.75	75%		06503	.018		0.13		7800	47.0	
54.3m 1.5cm @ 55° to CA banded to massive, no visible sulfides																					.1	55.2		06504	.026		0.13		10000	76.0	
55.6m 1-1.5cm @ 30° to CA xtalline cockscomb etc.																					2.1	100%		06504	.026		0.13		10000	76.0	
57.3-57.15m 2 veinlets, 5mm wide @ 50°, wht cockscomb etc.																								06505	.024		0.10		8600	69.0	
57.8m 1cm wide @ 35°, xtalline wht. cockscomb etc.																					.65			06505	.012		.03		2600	2.4	
60.1 2cm @ 30° to CA																								06505	.024		0.10		8600	69.0	
Qtz-clay vein, 1cm of clay matrix axis w/ wht massive etc along borders.																					105	58.51		06505	.024		0.10		8600	69.0	
Dominant fractures are @ 40°																								06506	.012		4.20		1.4		
lined w/ a thin film of Fe Oxide (< 1mm)																					2.0	60.5		06507	.014		0.09		6300	44.0	
																					1	61.6		06507	.014		0.09		6300	44.0	

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMSHOLE No.: 84-5 SHEET No.: 6 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silica - Ind (3)	Connectivity % Veins, < 1/2 Favours, < 1/2 Bedding, < 1/2 Cleavage, < 1/2 Rock Type Structure Meters Mineralization Type	GRAPHIC LOG	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite Smectite Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length METERS BLOCKS EST. CORE REC	A S S A Y							
					SAMPLE No.	Au oz/ ton	Au ppb Pb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
					06464	.02		.04		4700	32	
					06508	.010		0.10		4300	46.0	
					06463							
41.5-45.5m Coarsely crystalline qtz vein subparallel to CA. Vein is injected into dk gry silice breccia matrix - Area surrounding Vein is 100% matrix. Matrix contains 3% finely disseminated sulfides consisting of pyrite and arsenopyrite Qtz vein splays out into the breccia matrix incorporating fragments into the vein. Vein contains 2-3% fragments 2% open space + 1% Fe Oxidation The qtz contains no visible sulfides					06465	.026		.07		6800	72	
45.5-105.3m Trachyte/Trachyte Breccia as 50.6-64.3m - Breccia contains ~ 5% open space overall @ 65.85-66.11 - ground qtz vein, 2.5mm wide, coarsely crystalline Cockscomb qtz w/ no visible sulfides + no angle to CA.					06509	.028		0.10		4300	46.0	
@ 66.1-66.4 + 66.6-69.2m - stockwork of wht. wiggly qtz veins w/ incorporated breccia frags + ~ 2-5% Pb occurring as stringers + bebs w/in + around the veins.					06510	.003		0.13		5500	39.0	
Between 65.95-69.21 with the veining intervals the trachyte breccia matrix contains ~ 10% green epidote - montmorillonite					06467	.012		.25		3800	40	

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No.: 7 of 20

From -To		Quartz %	Carbonate %	Silice - Ind (3)	Connect, %	Veins, %	Faults, %	Bedding, %	Cleavage, %	Rock Type Structure	Metre	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
ROCK TYPE AND TEXTURES Colour, Alteration																													SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMSHOLE No: 84-5 SHEET No: 8 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silice - Ind (3)	Concret, <	Veins, <	Faults, <	Bedding, <	Cleavage, <	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite K-Feldspar Aug Biotite Muscovite Sericite Chlorite	CLAY Morph Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length Meters BLOCKS	EST. CORE REC	A S S A Y							
															SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
+consists of 60% qtz 20% py 10% clay } vein has ~10% open space. 83.2m-82.2m - qtz clay vein ~1.5cm wide w/ a 2-3cm wide brecciated sulfide rich envelope - breccia matrix is ~20% py. Vein is banded & brecciated w/ 20% sulfide.			✓										7.5		06516	.003		0.19		7500	44.0	
84.6m-83.1m - matrix is 90% flow laminated trachyte w/ narrow (1cm) banded breccia along fractures					10°								2.2		06517	.010		0.58		2000	26.0	
84.3-84.6 - sulfide rich breccia along fracture @ 10° to CA. Breccia is vuggy w/ ~1mm - 1cm qtz along lining fracture - sulfide envelope as above.			✓										100%		06518	.020		0.15		5400	29.0	
85.7-85.9 stockwork of qtz-clay veins in trachyte. Veinlets range from 1-5mm w/ clay. Veinlets have a clay core & are enveloped in py. Trachyte is flow laminated, p. to CA & crosscutting the veinlets. Trachyte is siliceous w/ ~3% ksp phen, & 10% finely disseminated pyrite.			3					10°					7.5		06519	.022		0.25		3400	21.0	
			✓		60°								3		06520		320	1.0				
													3		06521		265	1.4				
91.6-92m sulfide rich breccia lining fracture as 84.3-84.6m													1		06522		145	1.0				
92.8-93.2m. Pyritic trachyte locally >10% pyrite occurring in bands // to lamination @ 90° to CA													3		06523	.038	(1303)	0.40		7200	40.0	
					50°								3		06524		210	2.0				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No: 2 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, %	Veins, %	Faults, %	Bedding, %	Cleavage, %	Rock Type Structure	Meters LOG	Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite CLAY	Matrix Pheno Fe Oxide Arsenopyrite Pyrite Aksey Length	METERS BLOCKS	EST. CORE REC	A S S A Y								
																SAMPLE No.	Au oz/ ton	Au ppb PB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
94.5m Pyrite-clay veins @ 4cm wide ± 25° to CA. local py ± 5-6% occurring in veins ± 11 to laminations.			3				60°								95.1	95								
94.1-105.3m. Dominantly trachyte breccia Silicified to weakly clay altered w/ light grey pyritic to flow lam to massive frags in a lg light grey matrix. 2-4% py.															96.6	96		310	1.9					
98.3 - 100m local clay alteration py occurs finely disseminated throughout breccia - 1-2% w/ local ↑ in py by fracture controlled			2.5												98.1	98								
															99.7	99		75	1.4					
															101.1	101								
															102.7	102		125	0.9					
103.5-104m - Blue stained pyrite breccia. 7% Pyrite occurring as lg aggregates along clast matrix boundaries along fractures. The breccia localized around the pyrite is a brownish blue possibly from alteration of the py.															104.3	104								
105.3-111.5 - Clay altered trachyte breccia. Light to medium grey breccia w/ clay altered trachyte clasts in a fine grained clay altered matrix. Pyrite occurs dominantly in the matrix (< 10% py occurs in clasts)			1-2				50°								105.8	105		55	0.6					
															107.5	107								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No: 84-5 SHEET No: 10 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Connectivity %	Veins, < 5m	Faults, < 2°	Bedding, < 2°	Cleavage, < 2°	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Aug	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
																												SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
111.5-112.9m																									3	103.5	98%	06529		10		0.6			
																									3	110.3	98%	06530		140		1.0			
111.5-130.9m Trachyte breccia																									3	111.0	98%	06531							
mottled grey in colour w/ local variations to buff or light green from bleaching or clay alteration. Size of clasts ranges up to 30cm & vary from massive to flow banded,								30°-50°																	2	113.1	100%	06532		270		0.6			
Some clasts contain breccia frags. as well. Often these brecciated clasts contain a lamination & show an alignment & elongation of internal clasts. Trachyte																									6	114.9	100%	06533		014 (480)	0.20		3000	20.0	
clasts (in general) contain only about 10% of total pyrite. Total pyrite ranges up to 10-15% Pyrite occurs dominantly along fractures. Some stockwork of pyrite microveins in the trachyte clasts (4mm) or wider discontinuous fractures in the breccia. Py is also finely diss. w/in the matrix & occurs as aggr. w/in the matrix localizing on matrix-clast boundaries.																									3	116.4	100%	06534		315		1.1			
Localized concentrations of pyrite occur @ 115.1-115.3m massive py occurring along matrix-clast boundaries. ~15% py																									3	119.51	100%	06535		215		1.4			
																											100%	06536							

HOLE No.: 84-5 SHEET No.: 11 of 20

From -To		N.T.S. MAP GRID: 104 K 9B													KERR ADDISON MINES LIMITED PROPERTY																								
ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate	Silica - Ind (3)	Connectivity	Veins, < 5' x 1'	Faults, < 5'	Bedding, < 5'	Cleavage, < 5'	Rock Type Structure	GRAPHIC LOG Metres	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Naevy	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Aqueous Length	METERS BLOCKS	EST. CORE REC.	ASSAY										
																														SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
116.75-117m - py veinlet stockwork, veinlets 5mm wide + dominantly @ 30° to CH: -10% py																											135.51		06535				40		0.9				
125.51-128.4 Stockwork of py veinlets in trachyte ~ 6-7% py																										W	135.51		06536				130		0.9				
36.4 → 130.6 M = 94.2 metres w/d avg 357 PPB (.01%)																										U	135.51		06536				130		0.9				
128.4-128.6m - Py occurring interstitial to trachyte frags. ~10% py.																										W	135.51		06537				540		1.2				
Dominant fracture directions are @ 30° ± 50°, breccia is vuggy w/ fine etc etc etc lying susp. 2-10 mm space																										W	135.51		06538				130.6						
130.9-144.7 - Explosion Breccia - Intensely clay altered. 40% breccia frags - 60% clay matrix		1-1.5																									131.61		06539				90		1.2				
Breccia Frags range up to 20cm and are subangular. 9% trachyte 1-2 % py clasts. < 1 sed. clasts.																											133.6		06540										
Fragments become progressively more altered w/ depth.																											134.4		06541				65		1.4				
Py occurs finely disseminated in trachyte frags & clay matrix, as rim around frags & as clasts.																																							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No: 12 of 20

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: _____										HOLE NO. _____ SHEET NO. _____											
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	GRAPHIC LOG Rock Type Structure Meters Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y												
																					SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb					
No dominant Fracture direction																						136.6											
																						137.11	06540		30		1.3						
																						98%	139.6										
																						140.81	06541		20		1.3						
																						98%	141.6										
																						143.91	06542		10		0.5						
144.7-180.4 - Extremely clay altered Explosion Breccia. Trachyte clasts are a pale green clay-			0-0.5						142-503													98%	145.6										
epidote, matrix is 100% clay. Py occurs as granules in matrix (< 2mm in diameter). 21% black sediment clasts occur randomly throughout section (< 2mm in diameter) Clast become progressively less distinct w/ depth																						146.91	06543		20		0.2						
																						98%	148.6										

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No.: 13 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz Carbonate % Silice - Ind (3) Concretions, % Veins, < 1/2 in Faults, < 2" Bedding, < 2" Cleavage, < 2" Rock Type Structure	GRAPHIC LOG Metre Mineralization Type	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite	CLAY Micas Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC.	A S S A Y									
							SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
						1530	06544		< 5		0.2					
						1530	06545		< 5		0.2					
						154.5	154.6									
						157.5	06546		< 5		0.2					
						159.1	06547		5		0.2					
						160.6	160.6									
						162.1	06548		10		0.5					
						163.7	163.6									

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No.: 14 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Connect, <	Veins, < 1/4"	Faults, < 1/4"	Bedding, < 1/4"	Cleavage, < 1/4"	Rock Type Structure	Graphic Log Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Micas	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Akagite	Meters BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																												Au oz/ ton	Au ppb Pb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
																									169.2	98.5%	06549		13		05			
																									169.8	98.2%	06550		20		0.5			
																									169.3	98.2%	06551							
																									169.8	98.2%	06552							
																									171.3	98.2%	06553		40		0.4			
																									172.8	98.2%	06554							
																									174.3	98.2%	06555		55		0.6			
																									175.6	98.2%	06556							
																									177.4	98.2%	06557		40		0.6			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 845 SHEET No: 16 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Conductivity, %	Veins, < 5' x 12'	Faults, 2'	Bedding, 2'	Cleavage, 2'	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	Aug.	Biotite	Muscovite	Sericite	Chlorite	CLAY Nearby	Pheno.	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
																										SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
101.8-211.4m Trachyte - Trachyte breccia Dominantly massive to weakly flow 101m. siliceous pyritic trachyte w/ 2-10% fracture controlled brecciation (192.1m Cassidolite rock emb. gr. veinlet 2.1cm wide @ 45° to CA - no visible sulfides) (102.45m pyrite veinlet in trachyte breccia 3-6mm wide @ 80° to CA) Trachyte is light gray w/ 2-10%					25-30% Ksp		30-50°					<10%							0%	0-50%		2-3%				06558		25		1.0			
Ksp phenos, ~10% breccia fragments + 2-3% pyrite. Pyrite occurs as fine disseminations throughout trachyte. Fine bands to laminations, as a component of the breccia matrix and along micro fractures. - Breccia frags range up to 8 cm in size & are dk gray massive trachyte w/ bleached alteration halos.																										193.6							
Dominant fracture direction is @ 45° to CA. a breccia trachyte contact occurs from 194 to 198																										194.5							
At 193.2m 2.5-3cm wide Vuggy XALLINE GR vein, poor recovery, ~10% open space. No visible S.																										195.1		25		1.3			
																										196.6							
																										198.4		40		1.0			
																										199.6							
																										201.5		30		0.8			
																										202.6							
																										205.5							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 84-5 SHEET No. 17 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate	Silica - Ind (3)	Contacts, <°	Veins, < 1/2" dia.	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	Meters	Mineralisation Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	A S S A Y										
																							SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb			
203.6m Grt veinlet - coarsely crystalline cockscumb etc veinlet, ~ 1cm wide @ 25° to CA.					100%																		1042 06562		20		1.0						
																					204.8			1056									
																								1052									
																								1059			06563		5		0.8		
																								1082			1086						
																					209.5			1082			06564		20		1.6		
210.9-211.2m Sericite breccia dykes(s) all ~ 1cm wide @ 25° to CA + 50° to CA - Description as 101m.						50°															210.9			211.6									
211.4-211.6 Intensely altered trachyte - slow laminated.	5					70°														30%				0870			06565		25		0.5		
211.6-214.7 - Extremely clay altered Explosion breccia. Breccia becomes less altered w/ depth. Matrix is a mottled grey-grey clay w/ ~ 20-40% altered trachyte Seb. + Py clasts generally 1cm in diam. Py occurs finely disseminated throughout matrix clasts ~ 1/2"	0																				1286			214.6									
																								213.5									

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No: 18 of 20

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: _____																							
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, < 1/4"	Faults, < 1/4"	Bedding, <°	Cleavage, <°	Rock Type Structure	GRAPHIC LOG Metres	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Magnetite	Pyrite	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y								
																											SAMPLE No.	Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
No Dominant Fractures																										1008	06566		20		0.5				
																											217.6								
218.2 - 3cm wide Pyritic breccia dyle. - 30% finely studded by disseminated throughout. 25° to CA.																										218.5	06567		23		0.5				
																											220.7	220.6							
																											220.8								
																											221.2	06568		20		0.4			
																											221.0	223.6							
																											224.6	06569		45		0.3			
																											226.2	226.6							
																											227.7								
Clay altered breccia heumed greener - (mont. epidote)																											228.9	06570		25		0.1			
																											229.6	229.6							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-5 SHEET No.: 19 of 20

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silice - Ind (3)	Contacts, %	Veins, %	Faults, %	Bedding, %	Cleavage, %	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
																											SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
																									98%	06571		15		0.1			
																									332	232.6							
																									108%	06572		20		0.2			
234.7-252m - Light gry clay gauge w/ fine brachyocid Frags <2mm. <1% py.								252																	98%	235.6							
Finely disseminated throughout. dominant fractures @ 25° & 30°																									236	06573		15		0.5			
																									100%	238.6							
																									239	06574		10		0.1			
240.5-240.4m dk gry pyritic clay w/ 20% breccia Frags <2mm 20% finely crystalline py.																									100%	241.6							
- possible dyke, contact is @ 50° to 60°																									100%	06575		10		0.2			

HOLE No.: 84-5 SHEET No.: 20 of 20

From -To		GRAPHIC LOG														ASSAY																			
ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Concretions	Veins, < 1/4 in.	Faults, < 1/4 in.	Bedding, < 1/4 in.	Cleavage, < 1/4 in.	Rock Type Structure	Meters	Mineralization Type	Albite	K-feldspar	Ans	Biotite	Muscovite	Sericite	Chlorite	CLAY	Magnetite	Pyrite	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppm
																										244.6									
																										247.6									
																										250.6									
																										250.6									
																										250.6									
																										250.6									
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																										250.6									

N.T.S. MAP GRID: 104 K9

KERR ADDISON MINES LIMITED

LOCATION: HART PEAKSBEARING: 080°LATITUDE: 11450 NPROPERTY: HARTHOLE No.: 84-6DATE COLLARED: AUG 2/84LENGTH: 191.8 mDEPARTURE: 2468 ECORE SIZE: NQ (WL)SHEET No.: 1 of 14DATE COMPLETED: AUG 6/84DIP: -40° e COLLARELEVATION: 1230 mSCALE OF LOG: LOGGED BY: WINGERT/DALEYDATE: AUG 8/84

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silica - Ind (3)	Contacts	Veins	Fossils	Bedding	Cleavage	Fracture Type	GRAPHIC LOG	Mineralization Type (6)	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	Green Mica	Pyrite	Hematite	Magnetite	Pyrite	Arsenopyr.	METER BLOCKS	EST. CORE REC	A S S A Y								
																									SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
14.4-41.4m Explosion Breccia Containing ~ 95% trach. clasts (<10cm) 5% sed. clasts (<10cm) total clast > 0.5cm = 60% total clast (+matrix) < 0.5cm = 40%																							4.9	4.2									
Breccia is clay altered + oxidized Matrix is dominantly clay & ~ 40% of the core is orange w/ Fe Ox. In the clasts, clay alteration ranges from 0-100%. Smaller clasts (<1cm) can be totally oxidized. Larger clasts contain only oxidation rims Py occurs finely disseminated throughout clasts (trach) & matrix Dominant fracture directions range from 35-45° - fracture surfaces are generally oxidized.	0.5-1					35-40°											70-80%	0-100%	5%				85%	11.2									
																								20.1	20.1								
																								21.5	85%								
																									75%								
																								24.1	24.1								
																								25.6	25.6								

Sperry Sun Dip Test

Length	Dip	Bearing
0m	-40°	080°
94.5m	-40°	240°?
191.8m	-42°	080°

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-6 SHEET No.: 2 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Concretions	Veins, 1/2"	Faults, 2"	Bedding, 1/2"	Cleavage, 1/2"	Rock Type Structure	Meters	Mineralization	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																												Au oz/ ton	Au ppb PB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
																									21.1	80%	26.2		45		0.2			
																									22.6	75%	06583							
																									23.6	92%	29.2							
																									30.5	95%	06584		15		0.3			
																									32		32.2							
																									33.5	95%	06585		5		0.5			
																									35.1	95%	35.2							
																									36.6	98%	06586		45		0.5			
																									38.1	98%	38.2							
																									39.2	98%	06587		45		0.6			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-6 SHEET No.: 3 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Connectivity, % Veins, % Faults, % Bedding, % Cleavage, % Rock Type Structure	GRAPHIC LOG Meters Mineralization Type	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite	CLAY Kaolinite Illite Fe Oxide Arsenopyrite Pyrite Akasay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
							SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
41.4-41.5m Qtz Vein @ 40° to CA. 4mm w/ 1cm wide f.g. massive qtz borders w/ coarsely crystalline stony textured core, ~ 100% open space. <1% sulfide, 1% FeOx		4mm 48°				98%	40.4 06588	0.10		0.10		130	2.6	
41.5-56.25m Explosion Breccia					10%	98%	40.9 06589	0.06		0.08		26	2.2	
Fm 41.5 to 45.4 Description as 14.4-40.8m					50%	98%	41.4 06590	0.03		0.08		90	2.4	
Fm 45.4 to 56.25 Breccia becomes progressively more clay altered w/ matrix & clasts becoming 100% clay - Fm 45.4-50, matrix is clay						98%	42.7 06591	15		0.9				
Trachyte frag. have also altered to clay, sed frag. are still only partially altered. Fm 50-56.25 have light green (low) clay altered clasts in a clay matrix <1% Fe silicate py	0-2.5	35-50			100%	100%	44.2 06592		45	0.5				
Dominant Fractures are @ 35 & 50°						100%	45.7 06593							
						100%	47.2 06594							
						100%	48.8 06595		45	0.3				
						100%	50.3 06596							
						100%	51.8 06597							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-6 SHEET No.: 4 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Contact, <° Veins, <° Faults, <° Bedding, <° Cleavage, <° Rock Type Structure Meters Mineralisation Type	GRAPHIC LOG	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	A S S A Y							
							SAMPLE No.	Au oz/ ton	Au ppb PPB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
						100%	06594		<5		0.6			
						53.5	53.4							
						100%								
						54.9 55.5	06595		<5		0.2			
56.25-68m Explosion Breccia as 14.4-40.8 except there is no FeOx & 70% of py is greater. Pyrite occurs as clasts ~30% & finely disseminated throughout on rimming clasts.	0.5-1		40°-50°		70-80% 0-90%	56.7 57.9	56.9 06596	96%	<0.03		200	130	10.0	
Qtz Veins: 1 @ 55m 0.8m-2cm wide spalling into 2 @ 80°+38° to CA wht crystalline Qtz w/ ~100% open space + 210% py occurring along borders	1cm @ 550					100%	58.1 06598		<.03		0.01	160	8.2	
3mm wide Qtz veinlet @ 30.7m 80° to CA. wht crystalline Qtz, no visible sulfides Dominant Fracture direction is @ 400-50°	3mm @ 30					59.4	59.1							
						97%	06599		5		0.3			
						61.0								
						97%			10		70			

N.Y.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-6 SHEET No.: 5 of 14

N.T.S. MAP GRID: 504 X 35																																								
KERR ADDISON MINES LIMITED PROPERTY																																								
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate	Silice - Ind (3)	Concretions, %	Veins, < 1/4 in.	Faults, < 1/4 in.	Bedding, < 1/4 in.	Cleavage, < 1/4 in.	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno.	Fe Oxide	Arsenopyrite	Pyrite	Apatite	Meters BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y											
																													Au oz/ ton	Au ppb ^{ppb}	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb					
																												06600		65.1		86%		0.5						
66.6m - Qtz veinlet stockwork in 12cm wide trachyte clast - fg wht + talline qtz w/ ~50% open space + 10% py stringers 1mm x 8mm along borders.																												67	06601		92%		10		0.6					
68.25 - 68.35 Contact bet. Breccia & Trachyte - 18cm of light gry clay gauge followed by dk gry ground pyritic clay & trachyte w/ a strand massive qtz vein 2 1cm wide.			0		1cm																									68.1										
68.35 - 77.3m Massive Trachyte Light gry silic & pyritic w/ 50% partially clay altered ksp phenos 2mm in diameter. Pyrite occurs finely disseminated throughout trachyte Dominant fracture direction is @ 50-60° ± 30°, fractures are lined w/ clay < 3mm of clay.			2.5										5%								10-30% 10-50%					20%		68.9		98%	06602			10		0.2				
																												70.1												
																														98%	71.1									
																														06603			5		0.2					
																												72.4												
																														98%										

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-6 SHEET No.: 6 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Concretions	Veins, < 1/2"	Faults, < 1"	Bedding, < 1"	Cleavage, < 1"	Rock Type Structure	Meters	MICROLOG	Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y								
																														Au oz/ton	Au ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
																														74.1								
26.4 - Vuggy Qtz @ ~85 to CA. - Fine open space fractures lined w/ crystalline Qtz. 76.7 - light grey clay gouge (5cm)																														76.2	06604		<5		0.1			
77.2m - 77.4m - light grey clay gouge - contact bet. strachanite & breccia. 77.4 - 41.8m Explosion breccia. As 14.4 to 41.8 except v. little FeO. 10% py finely disseminated throughout clasts & matrix km wide dk grey clay seam @ 41.4m No dominant fracture direction Clasts are generally smaller than in the interval of 14.4 - 41.8m																														77.1								
																														78.2	06605		20		0.4			
																														78.9								
																														80.1	06606		10		0.4			
																														83.1								
																														85.3	06607		<5		0.3			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-6 SHEET No.: 8 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3) Concretions Veins, 2" Faults, 2" Bedding, 2" Cleavage, 2" Rock Type Structure Meters Mineralisation	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST. CORE REC	SAMPLE No.	A S S A Y						
					Au oz/ ton	Au ppm Pd	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
The entire interval is clay altered & varies fm 10-200 Intense clay alt is sparitic Qtz Veinlets: 0.1m coarse well sorted qtz & feld along fracture @ 45° - no visible sulfides.			80%	101.1							
102.55 - 8mm wide qtz veinlet @ 75° to CA. Fg grey qtz w/ 50% open space & 10% sandy gry metallics			100%	06613	15		0.2				
Dominant fracture direction is @ 45° & direction ranges			99%	104.1			0.3				
10m 35-50° - fracture surfaces are clean.			100%	107.1							
			100%	06615	15		0.4				
			100%	06616	25		0.3				
			100%	113.1							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-6 SHEET No.: 2 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Concretions, %	Veins, < 1/4 in.	Faults, < 1/4 in.	Bedding, < 1/4 in.	Cleavage, < 1/4 in.	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y								
																														Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
																											114.3	100%	06617		25		0.6					
																											115.8	100%	06618		10		0.3					
																											117.3	100%	06619									
																											118.8	100%	06620		15		0.3					
120.4m - Qtz Veinlet, Fg xtalline wht etc w/ < 9% Fg xtalline py along axis. 4mm @ 55° to CA						4mm 55°																						120.4	100%	06621								
?																											121.9	100%	06622									
124.9-125.6 Pyritic Trachyte Breccia w/ > 10% Py forming in matrix & rimming clasts - etc veinlet 4mm @ 70°						4mm @ 70°																						124.9	100%	06623		30		0.8				
126.6-126.7 Pyritic breccia (8%) w/ etc vein @ 80° to CA 0.6-1cm Fg. wht etc w/ 80% open space 126.7-126.8 Trachyte						5-1cm 80°																				5%	126.5	100%	06624		25		0.5					

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: B4-6 SHEET No.: 10 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate %	Silice - Ind (3)	Connect, < 2"	Veins, < 2"	Faults, < 2"	Bedding, < 2"	Cleavage, < 2"	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
																										SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
Massive Silic + Pyritic Trach Med gry w/ 5-7% hop phenos 2.5mm long. Phenos are partially altered to clay			12				35-60°				5-7%								0-50%	0-200%		1-5%			100%	06672		<5		0.3			
21-20% py occurs as fine disseminations w/ trach. 2-35% py occurs as aggregates (blobs 2mm in diam) w/in trach.																									128.5	100%							
65% py 1/2 fracture controlled total. Py ranges fm 1-6% -fracture controlled by 1/2 a later occurrence - entering the system during the same time as Qtz. This trachyte, unlike previous intervals is silicic w/ more Qtz veining. Fracture controlled py + Qtz form stockworks of Qtz-py veinlets through section			75°																					129.5 129.6	65%	06673		<5		0.4			
Qtz Veins: 12cm. Qtz vein 5cm long w/ ~ 50% incorporated trachyte fragments - fragments are angular w/ v. little rotation -fg. x-talline Qtz w/ 10% open space & no visible sulfides.			45° 20-25°																						131	100%	06674	<.005		0.13		120	38
12a-12a.3m - Qtz veinlet stockwork -fg wht x-talline Qtz w/ 50% open space.																									131.8	95%	06675	<.005		0.11		140	15.0
125.5m. Qtz veinlet @ 20° to LA																									132.8		06676	<.005		0.11		90	8.2
1mm - 1cm wide fg x-talline Qtz w/ 60% open space & 10% fg py x-tals on axis.																									134.1		06677		<5		0.3		

Q3 = Qtz stockwork

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-6 SHEET No: 11 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Concretions, %	Veins, 2" - 4"	Faults, 2"	Bedding, 2"	Cleavage, 2"	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y									
																													Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb			
131.2-131.45m. Qtz veining. wht xtaline Qtz w/ <10% visible sulfides. 2 veins, 1 @ 25° to CA (no width) & 1 @ ~45° to CA & ~2cm wide. Also get ground Qtz & some Qtz stockwork.																											137.1	95%	06628		60		0.5					
134.2 - Vuggy Qtz stockwork (Qtz veinlets < 4mm)																													139.46	95%	1388							
137.6 - 1cm wide Qtz vein @ 70-80° to CA. Wht cockscorn Qtz w/ ~10% open space - no visible sulfides.																														105		0.7						
137.0 - 2 4mm wide Qtz veinlets @ 55° to CA. Wht xtaline Qtz w/ ~10-12% open space.																																						
139.3m - 0.5-1cm wide Qtz veinlet w/ ~30% trachyte breccia fagg & 15% open space. Fg. Wht xtaline Qtz w/ no visible sulfides.																																						

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-6 SHEET No.: 12 of 14

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY:										WELL HEAD														
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ton	Au ppb	A S S A Y					
																															Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
																												150.8								
																												150.8								
																												153.6								
																												154.5								
154.5 - 154.6 Porphyritic silice + pyritic trachyte w/ situ trachyte breccia.			3		100%																							155.4		06634		175		0.8		
Trachyte is medium grey becoming light grey to buff, bet 154 & 150.5 m (bleached) - ~100% ksp phenos (<6mm long) which are weakly clay altered.																												156.0								
Trachyte contains ~20% finely disseminated py.																												156.5		06635		225		0.6		
Py + silica has formed a matrix the situ breccia which occurs along open fractures. Py + silica																												159.5								
has welded trachyte debris along these fractures to produce a trachyte breccia. Matrix to clast ratio is ~10:90 in general although the % of Qtz is greater in some																												160.0								
sections. The trachyte breccia has, in general ~5-10% open space in the matrix.																												162.8								
Clasts are angular & of the same composition as the																												163.1								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-6 SHEET No.: 13 of 14

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silica - Ind (3)	Contacts, <°	Veins, <°, M.L.	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Anhydrite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	A S S A Y							
																													Au oz/ ton	Au ppb PPB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
trachyte already described Clasts generally have a light grey bleached rim (<5mm thick)																										164.6	100%	06637		165		0.6				
Trachyte breccia contains											166																166.1		165.8							
24-60% py which dominantly occurs in the matrix																											100%	06638								
Fracture directions dominantly occur bet 80-70° & are usually lined w/ fine py xtals or qtz (2mm)											168																167.6	100%		165		0.6				
Area of in situ trachyte breccia (310cm)																											100%	1668								
168.8-166.3m (166.3-166.4 - light grn-grey pyritic clayey)											170																168.2	100%		150		0.3				
160.3-160.8m - 21% qtz in matrix.																											100%	06639								
163.2-163.4m.											172																	100%	171.8							
164.6-168.3m - contact w/ trach @ 40°																											100%	06640								
167.9-168.2m 169.2-172.5m 177.7-184.3m											174																	100%		130		0.7				
167.1-167.2m qtz veins: 186.1 qtz clay vein, 1cm wide @ 30° to CH. 21% py.																											100%	174.8								
176.4m 1cm wide qtz py vein @ 60° to CH. xtaline qtz w/ ~20% open space & 50% finely xtaline py diss. throughout											176																100%	06641		60		0.5				
											178																	100%	177.8							

176.5

N. T. S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-6 SHEET No.: 14 of 14

From -To		ROCK TYPE AND TEXTURES Colour, Alteration										Quartz %	Carbonate %	Silice - Ind (3)	Contacts, °	Veins, °	Faults, °	Bedding, °	Cleavage, °	GRAPHIC LOG	Rock Type Structure	Mineralization Type	Albite	K-Feldspar	Ans	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	A S S A Y						
																																					SAMPLE No.	Au oz/ton	Au ppb ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
177.3m - 211 bands of qtz py open wide @ 70° to CA. 4cm apart separated by a breccia clast. Fine grained xtaline qtz w/ ~ 5% open space																																				06642	110		0.5						
25% fg pyrite occurring as aggregates along to edge of the vein.																																				180.8									
																																				06643	25		0.1						
																																				183.8									
																																				06644	30		0.2						
																																				186.8									
																																				06645	50		0.5						
																																				189.8									
																																				06646	35		0.4						
																																				191.6									

NOT

Sunny Sun Dip Test:

LENGTH DIP BEARING
0 m -60° 080°
152.4 m -62° 081°
217.3 m 082°

KERR ADDISON MINES LIMITED

N.T.S. MAP GRID: 104 K 9E
LOCATION: Heart Peaks
DATE COLLARED: Aug 6/84
DATE COMPLETED: Aug 12/84

BEARING: 080°
LENGTH: 217.4 m
DIP: -60° e calae

LATITUDE: 11450 N
DEPARTURE: 2468 E
ELEVATION: 1230 m

PROPERTY: Hart Claims
CORE SIZE: NQ (WL)
SCALE OF LOG:

HOLE No.: 84-7
SHEET No.: 1 of 17
LOGGED BY: WINGERT/DALEY
DATE: Aug 8/84

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3) Connects, < Veins, < stick Faults, < Bedding, < Cleavage, < Rock Type Structure Meters Mineralization Type	GRAPHIC LOG	Albite K-Feldspar Augite Biotite Muscovite Sericite Chlorite	CLAY Matrix Pheno. Fe Oxide Arsenopyrite Pyrite Assay Length	METER BLOCKS EST. CORE REC	A S S A Y							
						SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Bg ppb
27.4-32.3m Casing to 27.4m. Explosion breccia 92% Trachyte - clasts to 30m. 4% Sphalerite 3% Clay altered frags. 5% Pyrite - finely diss in trach.	2			20.50%	1%	<1%	27.4	27.4					
70% clasts, 30% matrix. clasts are subangular. matrix is clay altered Dominant Fractures are @ 35°-50° + ac lined w/ Fe Ox. (clim)							28.9	06657	65		0.6		
							30.5	30.5					
							31.5	06658	25		0.4		
32.3-36.55m - Oxidized & clay altered trachyte ranging from 0.5 in places to 100% clay. Trachyte is massive w/ ~20% py which occurs as oxidized disseminations throughout trachyte. Dominant Fracturing is @ 50-60° Fracture surfaces are oxidized Contact w/ breccia @ 50° - possible dyke or clast.	50 (HLL)		<1%				33.5	33.5					
				80.70	1%	2%	35.1	06659	30		0.2		
36.55-67.3m Explosion Breccia -Description as above except	0			100%	<1%		36.6	06660	5		0.2		

Note: TGS on graphic log implies samples taken by Tom Schroeter Aug. 23, 1984

1.04 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: THINK GENIUS

HOLE No.: 24-7 SHEET No.: 2 of 17

[illegible]

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No.: 3 of 17

From -To		KERR ADDISON MINES LIMITED																		PROPERTY																						
ROCK TYPE AND TEXTURES		GRAPHIC LOG																		A S S A Y																						
Colour, Alteration		Quartz	Carbonate %	Silice - Ind (3)	Connectivity	Veins, < 5m	Faults, < 5m	Bedding, < 5m	Cleavage, < 5m	Rock Type	Structure	Meters	Mineralization	Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Muscov	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS	BLOCKS	EST.	CORE REC	SAMPLE	Au	Au	Ag	Ag	As	Sb	Hg		
																																	No.	oz/	ppb	ton	ppm	ppm	ppm	ppm	ppb	
				3																				0			2%				100%	06665				<5			0.3			
																															100%	54.5				<5			0.3			
																															100%	06666				<5			0.3			
																															100%	57.5				<5			0.1			
																															100%	06667				<5			0.1			
																															100%	06668				<5			0.5			
62.4m. Ground Qtz Vein - Clean Coarsely crystalline Qtz at least 2cm wide - no angle to CA No visible metallica.																															61.8	06669	0.003			0.14		90	7.2			
																															62.45	06670	0.003			0.08		140	7.2			
																															63	06671	0.003			0.08		150	7.2			
																															75%	06672				<5			0.9			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-7 SHEET No.: 4 of 17

N.T.S. MAP GRID: 104 5 9E										KERR ADDISON MINES LIMITED										PROPERTY																	
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure	GRAPHIC LOG	Metres	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y									
																												SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
																												06673									
																												06673									
67.3-69.1m. Trachyte Breccia. 20cm of massive trach @ beginning of interval - grey w/ 20% finely diss py. Trachyte is clay altered for rest of interval, green grey in colour w/ breccia zones @ 67.9-68.0m & 68.2-68.5m. Breccia consists of subrounded trachyte clasts (5mm) in a clay rich matrix - clay altered trachyte contains ~30% finely diss. py. etc veins @ 68.2m. 1cm @ 35 to 40 whit massive to striae (along axis) etc w/ ~10% diss. py blobs (1mm)																												67.3									
																														06674	2.003		2.11		170	8.0	
69.1-69.7m. Trachyte Breccia. 20cm of massive trach @ beginning of interval - grey w/ 20% finely diss py. Trachyte is clay altered for rest of interval, green grey in colour w/ breccia zones @ 67.9-68.0m & 68.2-68.5m. Breccia consists of subrounded trachyte clasts (5mm) in a clay rich matrix - clay altered trachyte contains ~30% finely diss. py. etc veins @ 68.2m. 1cm @ 35 to 40 whit massive to striae (along axis) etc w/ ~10% diss. py blobs (1mm)																												69									
69.1-69.7m. Trachyte Breccia. 20cm of massive trach @ beginning of interval - grey w/ 20% finely diss py. Trachyte is clay altered for rest of interval, green grey in colour w/ breccia zones @ 67.9-68.0m & 68.2-68.5m. Breccia consists of subrounded trachyte clasts (5mm) in a clay rich matrix - clay altered trachyte contains ~30% finely diss. py. etc veins @ 68.2m. 1cm @ 35 to 40 whit massive to striae (along axis) etc w/ ~10% diss. py blobs (1mm)																												06675	2.003		0.20		100	4.2			
69.1-69.7m. Trachyte Breccia. 20cm of massive trach @ beginning of interval - grey w/ 20% finely diss py. Trachyte is clay altered for rest of interval, green grey in colour w/ breccia zones @ 67.9-68.0m & 68.2-68.5m. Breccia consists of subrounded trachyte clasts (5mm) in a clay rich matrix - clay altered trachyte contains ~30% finely diss. py. etc veins @ 68.2m. 1cm @ 35 to 40 whit massive to striae (along axis) etc w/ ~10% diss. py blobs (1mm)																												06676	2.003		2.11		400	7.0			
69.7-96.1 Trachyte - massive siliceous & pyritic etc flooded, some lens siliceous																														06676	2.003		2.11		400	7.0	

w/ death

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No.: 5 of 17

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: [REDACTED]										HOLE NO. [REDACTED]													
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Contacts, $\angle$	Veins, $\angle$, $\angle$	Faults, $\angle$	Bedding, $\angle$	Cleavage, $\angle$	Rock Type Structure	LOG Meters	Mineralization Type	Albite	K-Feldspar	Anis	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																													Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
3% finely diss py. - py also lining spine fractures Dominant fractures are @ 30° & 50°, only 2 fractures lined w/ qtz the rest are dry or lined w/ clay.								30° + 50°					10/10							0%	30/10-40%			30/10	70.7	100%	06677		23		0.5				
- ksp. phenos are patchy ranging from 10% - 50% w/ phenos becoming more abundant & clay altered w/ depth Between 95-106.1 trachyte contains ~10% patchy clay blobs (1cm long) - altered ksp. phenos? Clay altered cores: 81.5-81.6 m. 86.2-86.6 m - section begins w/ 10cm @ explosion			2.5																							73.1	100%	06678		20		0.3			
breccia w/ 30% py. - contact @ 35° to 40° A. py on NW of trach is aligned 11° to contact																									76.5	100%	06679		25		0.4				
																									78	100%	06680		60		0.2				
																									81.1	100%	06681		70		0.2				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No.: 6 of 17

From -To		Quartz %	Carbonate %	Siliceous Ind (3)	Concretions %	Veins, < 1/2"	Faults, < 1/2"	Bedding, < 1/2"	Cleavage, < 1/2"	GRAPHIC LOG Rock Type Structure Meters Mineralization	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
ROCK TYPE AND TEXTURES Colour, Alteration																					SAMPLE No.	Au oz/ ton	Au ppm Ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
																			81.1	100%	85.2						
					35°														81.2	100%	06662		35		0.2		
																			81.7	100%	88.2						
																			81.5	100%	06663		<5		0.2		
81.2 - 81.6 vein, 10mm wide @ 30° to 60° white finely crystalline etc. - no visible sulfides						6mm. Sil													82	100%	91.2						
																			83.6	100%	06664		5		0.1		
																			84.2	100%	94.2						
																			84.2	100%	06665		10		0.1		
84.1 - 84.2 Explosion Breccia 25% rock 75% med grey fg. matrix. 15% red, 5% py, 80% fract. - of total breccia 10% finely diss. py. (aggregated < 5mm)		2.5	65°															10%	84.1	100%	96.6						

N.T.S. MAP GRID: 1.04 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No.: 7 of 17

[illegible]

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No: 8 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Contacts, °	Veins, °, dkt.	Faults, °	Bedding, °	Cleavage, °	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Aksey Length	METERS BLOCKS	EST. CORE REC	A S S A Y																	
													SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb										
														106.7																
														107.3																
														108.6		50		0.2												
														108.8																
														109.7																
110-110.4m - py stockwork w/ dk grey silicified halos around trachyte fragments - stailine qtz lining open spaces - no rotation of trachyte														110.3																
110.4-110.5m - as above.														110.5																
110.5-111.7m - as above														111.7																
112.4-112.8m - Opaline qtz stockwork w/ qtz as thick as 1cm between trachyte frags - qtz contains 20% open space w/ fine needle like qtz atab lining vugs - finely diox. py in dk grey silic														112.4																
halos around qtz														112.8																
113.1m - 7mm wide qtz veinlet @ 45° to CA - w/ stailine qtz w/ 2% open space - no visible sulfides														113.1																
														113.4																
														113.5																
														113.7																
														113.9																
														114.1																
														114.3																
														114.5																
														114.7																
														114.9																
115.1-115.7m - py stockwork as 110-110.4, appearing more brecciated w/ more py, 8% occurring as aggregates between frags & finely diox in dk grey silic halos.														115.7																

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-7 SHEET No.: 9 of 17

[illegible]

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No: 10 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silica - Ind (3)	Contacts, <	Veins, < Incl.	Faults, <	Bedding, <	Cleavage, <	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	A S S A Y							
																											SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
																										180	06699							
																											125.5		85		0.5			
126.2-126.5m - Qtz Py Stockwork 126.61-124.2m. Porphyritic oitic & pyritic Trachyte w/ 8% albite Ksp phenos in a lg. green-grey matrix w/ a translucent lustre. Trachyte is Qtz & feldspar w/ Qtz - Py veinlet stockwork & vuggy Qtz along open fractures Py occurs as fine euhedral disseminated throughout trachyte & along fractures Dominant fractures are @ 35-40° & 66-60° & lined w/ fine py xstals, Qtz or are dry. - Localized bands of hematitic alt producing bands of wire coloured trachyte - only have a change in the colour of the matrix (no fracture) Hematitic alt occurs @: 145m, alt @ 126.6 to 124.2m, alt ranging from sub 11 to 1 to CA 126.6-124.2 @ 12 to CA.										35-40° 55-60°			8%							0%	0-25%		3-50%		126.6		100	06700		15		0.3		
																											131.5							
125.9-124.4m Qtz Py Stockwork w/ vuggy etc lining open fractures w/ ~7% local py.																											06701		65		0.5			
																											134.3							
																											06702	0.003		0.06		960	16.0	
124.1m Gypsum Vein; swelling to 1cm wide @ 35° to CA; Clear fibrous gypsum xstals oriented ⊥ to vein wall occurring with tiny euhedral Qtz xstals. Spherals are visible along the vein wall contact consisting of py & arsenopy. - 7% outcrops.										150-35°											2%	5%					124.1	06704	0.003		0.01		200	4.2

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No.: 11 of 17

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Silice - Ind (3)	Contact, <	Veins, < 1/4 in.	Faults, <	Bedding, <	Cleavage, <	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Magnetite	Pyrite	Arsenopyrite	Pyrite	Apatite	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																										Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
																								100%	134.3							
																								100%	06705	5		0.3				
																								100%	139.3							
																								100%	06706	25		0.4				
																								100%	142.3							
143.6 - clay py Veinlet < 1mm wide @ 20' to LA, - local etc. py stockwork				2mm. 20'																				100%	06707	55		0.5				
143.1 - 143.6 - Qtz py stockwork w/ v fine gr. massive (cryptocrystalline) light grey etc swelling to 1.5cm py dominantly occurs as fine grains forming envelopes around Qtz & fracture (py envelope < 1mm wide)																								100%	143.3							
144.5 - 144.56m - as above, 145.4 - open fracture filled w/ cryptocrystalline etc & vuggy clear etc + tabs.																								100%	06708	85		0.9				
147.55 - x-talline etc lining an open fracture w/ py envelope < 1mm wide																								100%	148.3							
148.2 - 148.5 - Qtz py stockwork.																								100%	06709	30		1.2				
																								100%	149.3							
																								100%	06710	< 0.03		0.03		69	20	

HOLE No.: 84-7 SHEET No.: 12 of 17

[illegible]

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No: 84-7 SHEET No: 13 of 17

From -To		Quartz %	Carbonate %	Silice - Ind (3)	Contacts, °	Veins, °, Met.	Faults, °	Bedding, °	Cleavage, °	Rock Type	Structure	Meters	Mineralization	Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS	BLOCKS	EST.	CORE REC	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
ROCK TYPE AND TEXTURES Colour, Alteration																																	SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No: 84-7 SHEET No.: 14 of 17

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: _____									
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Contacts, °	Veins, °, Ind.	Faults, °	Bedding, °	Cleavage, °	Rock Type Structure	Meters Mineralization Type	Albite K-Feldspar Aug Biotite Muscovite Sericite Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length METERS BLOCKS	EST. CORE REC	A S S A Y								
													SAMPLE No.	Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
											171.51		06724		20		0.2				
											100.6		172.4 06725		<5		0.1				
													173.6 06726	0.005		0.05		110	6.4		
174.2-174.2 Trachyte as 96.8-121.1m Dominant fracture direction is @ 45-50° - Fracture surfaces are generally lined w/ clay.	2.5-3					45-50°			3-5%	0-10% 30-40%		174.41	06727 175.2 06728	<0.03		0.06		170	4.4		
174.2-174.8m Clay Py Stockwork w/ Fracture infillings to 5cm wide but containing fragments (30%) of wallrock. - ~30% py - 70% clay.													176.3	0.003		0.08		200	4.4		
175.15-175.3 - as above except 45mm width + 50% py.																					
177-177.41 - Brecciated Trachyte w/ 90% light grey silic matrix 175.6 - Qtz vein @ 30° to CH ~ 8mm wide - x-talined Qtz w/ 10% deo py.		8mm 30°										177.41	06729		70		0.3				
										0-5% 0-25%			100.6	179.2							
179.3-207.1m Trachyte as 126.61- 174.2m	3					30-35-45-50°															
Dominant Fracture directions are @ 30, 35, 40 & 50° - Fracture surfaces are generally dry or lined w/ 1mm of py-clay. <5% of fractures are lined w/ Qtz.												180.41	06730		50		0.3				

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No.: 15 of 17

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY:																	
From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	GRAPHIC LOG Rock Type Structure Meters Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y								
																						SAMPLE No.	Au oz/ ton	Au ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
180.2-180.5 - Clay - py stockwork veinlets < 2mm - 4-70 local py																						180.2							
181.4 - 181.9 - as above																					183.9	06731	30		0.2				
																						185.2							
																					186.51	06732	< 5		0.3				
																						188.1							
																					189.61	06733	50		0.7				
180-180.5 Qtz py stockwork - veinlets < 2mm wide w/ some clay alln. 20% local py.																						180.6							
20-65 - Qtz vein, 6mm wide @ 20° to CA - xtalite calcocomb Qtz w/ 20% open space & 20% py occurring as aggregates with the vein @ the bottom																						180.6	06734	.006	0.03	3900	49.0		
181.1-181.5m - Qtz vein 7cm wide @ 60° to CA. Massive to vuggy w/ Qtz w/ vugs lined - w/ clay. 50% incorporated - breccia frags < 20 py w/ in vein HW contact is lined w/ 18 py.																						181.6							
181.6-181.9 - Sheeted clay - py veinlets @ 20° to CA veinlets < 2mm wide w/ ~50% local py.																						181.65	06735	235	0.74	630	46.5		
																						181.65	06736	.006	0.05	820	14.0		
																						182.6	06737	30		0.4			
																						182.6							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-7 SHEET No: 16 of 17

From - To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate Silice - Ind (3)	Contact, % Veins, % Faults, % Bedding, % Cleavage, % Block Type Structure	GRAPHIC LOG Meters Mineralization Type	Albite K-feldspar An Biotite Muscovite Sericite Chlorite CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS EST CORE REC	SAMPLE No.	A S S A Y						
							Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
194.15-194.7 - Clay py stockwork - veins < 2mm w/ clay, oxide py envelopes - 5% local py					100%	194.6							
196.7-198.4m - Clay py stockwork w/ 3 brecciated fractures of clay py mineral 1cm wide @ 35° to CA (197.2m) vein has 20% py w/ clay 35% py occurring in massive aggregate in vein & as a py envelope 50% blotchy clay brecciated fractures occur 197.6m 10cm wide ~ 40° to CA w/ 50% pyritic matrix - 197.6m 1cm wide @ 40° to CA w/ 30% siliceo pyritic matrix		1cm 25°			100%	196.7			0.3				
					100%	197.6	0.003		0.11		170	6.8	
					100%	198.3							
					100%	198.3							
					100%	198.3							
200.9m-201m - trachyte breccia w/ 50% lg. silice matrix.					100%	201.2							
202.0m - Fracture @ 35° infilled w/ 20% massive py blotches, 30% dk grey silice blotches & 30% orange - cream coloured v. lg. etc					100%	202.7							
					100%	203.6							
204.0-205m - 35° py veins, 3mm wide @ 35° to CA Orange massive v. lg. etc w/ ~ 50% lg. py.					100%	204.3							
					100%	205.3							
207.1-211.1m Trachyte as abt. 121.1m Dominant fracture directions occur @ 35° & 55° & are lined w/ clay & py matrix as.	253	55° 55°		1.5%	0.10%	207.2							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-7 SHEET No.: 17 of 17

[illegible]

Sonyan Dip Test: Length Dip Bearing
 0 m. -60° 308°
 275.9 m -64° 308°
 387.5 m -64° 313°

KERR ADDISON MINES LIMITED

N.T.S. MAP GRID: 104 K 9E

LOCATION: Heart Peaks

DATE COLLARED: Aug 13/84

DATE COMPLETED: Aug 23/84

BEARING: 308°

LENGTH: 387.5 m

DIP: -60° COLLAR

LATITUDE: 5+82 N

DEPARTURE: 3+70 E

ELEVATION: 1410 m

PROPERTY: Hart Claims

CORE SIZE: NQ (WL)

SCALE OF LOG:

HOLE No.: 84-8

SHEET No.: 1 of 29

LOGGED BY: WINGERT/DALEY

DATE: Aug /84

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Contacts, L	Veins, L, thick. Faults, L	Bedding, L	Cleavage, L	Rock Type Structure	Meters	Mineralization Type	Albite	K-Feldspar	Augite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno. Fe Oxide Arsenopyrite Pyrite	Assay Length METER BLOCKS	EST. CORE REC CORE	A S S A Y									
																			SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
Casing to 41 ft																												
12.2-19.2m Massive-weakly flow lam Trachyte, buff in colour, clay altered & becoming more clay altered w/ depth. 2-4% clay altered ksp pheno.		2.5			35°					240%							10-34% 50-60%	19%	58% 68% 50%	06747 06748 06749	<0.03 2.003 2.003		0.16 0.13 0.13		100 90 61	8.8 8.4 6.0		
19% pyrite occurring finely diss. throughout trachyte & 3% sooty gry aggregates <0.8cm in diam. Note: Core is 95% gravel.			Ground Vein															11.6 12.9 14.6	60% 60% 60%	06749 06750 06751	<0.03 2.003 2.003		0.13 0.13 0.22		61 90 90	6.0 7.0 7.0		
Qtz veins: Ground Qtz between 14 & 14.9m - no < to CA or width. Coarsely stalline Qtz, vuggy w/ no visible sulfides in Qtz			Ground Vein															15.5	50%	06751	<0.03		0.17		140	8.2		
Between 15.5 & 16.3m - Qtz vein 2.3mm wide, fgr, grey massive Qtz w/ fine sooty grey metallics (10%) Vein is 1-1.5cm wide w/ a fine band (<1mm) of grey Qtz down																		16.8 17.7	45% 55% 45%	06752	<0.03		0.08		160	9.2		
axis enveloped by fgr mottled whit. to grey Qtz. <10% sooty gry metallics.		2																17.3 18.4	70% 50% 65%	06753		10	0.5					
14.2-22.4m Clay gouge w/ brecciated trachyte fragments																		19.5	50% 65%	06754								
-40% light grey clay matrix w/ 60% massive clay altered trachyte clasts		0													100%			20.1	<1%	06754			35	1.2				
<10% pyrite																		21.6	50%									

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-8 SHEET No.: 2 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Contact, <° Veins, <° Faults, <° Bedding, <° Cleavage, <° Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y						
										SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm
No dominant Fracture direction.			22					22.2	22.6							
			24					24.1	24.6	06155		30		1.5		
			26					26.6	26.6							
			28					28.1	28.6	06156		50		1.7		
29.4-33.9m Clay altered Trachyte - very light grey in colour. Ksp phenos are totally clay altered ~ 2% 1% diss. Py. Dominant Fracture direction is 35-45°	0.5		30	+	2%		100%	29.51	30.6							
			32						32.6	06157		63		26		
Qze vein @ 31.7m 2.1cm wide - no Z to CA. - wht finely stalling qze w/ ~ 5-8% open space.		1cm	34					34.1	34.6							
			36					36.6	36.6	06158		30		23		
			38					38.1	38.6							
			40					40.1	40.6							
			42					42.1	42.6							
			44					44.1	44.6							
			46					46.1	46.6							
			48					48.1	48.6							
			50					50.1	50.6							
			52					52.1	52.6							
			54					54.1	54.6							
			56					56.1	56.6							
			58					58.1	58.6							
			60					60.1	60.6							
			62					62.1	62.6							
			64					64.1	64.6							
			66					66.1	66.6							
			68					68.1	68.6							
			70					70.1	70.6							
			72					72.1	72.6							
			74					74.1	74.6							
			76					76.1	76.6							
			78					78.1	78.6							
			80					80.1	80.6							
			82					82.1	82.6							
			84					84.1	84.6							
			86					86.1	86.6							
			88					88.1	88.6							
			90					90.1	90.6							
			92					92.1	92.6							
			94					94.1	94.6							
			96					96.1	96.6							
			98					98.1	98.6							
			100					100.1	100.6							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No.: 84-6 SHEET No.: 3 of 29

N.T.S. MAP GRID: 104 K 9E										KERR ADDISON MINES LIMITED										PROPERTY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, 2°	Veins, 2°	Faults, 2°	Bedding, 2°	Cleavage, 2°	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
																						SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
33.9-34.1m Clay gouge w/ black sed. Frag. - light gray trachyte frag. Black sed. Frag. become so altered the become a mass of black clay - 10% py. py.			0																	1%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No.: 84-8 SHEET No.: 4 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silica - Ind (3)	Connects %	Veins, < 1/4 in.	Faults, < 1/4 in.	Bedding, < 1/4 in.	Cleavage, < 1/4 in.	GRAPHIC LOG Rock Type Structure Metres	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Phenocrysts	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	A S S A Y						
																											Au oz/ ton	Au ppm	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
55.5-55.6m - Intensely altered trachyte 54.5-55.5m - Brecciated gouge w/ intensely altered trachyte frag + ~10% py occurring as clasts (py aggregates ranging up to 1.5cm long)									44															44.5	99%	06765		30		1.7			
Qtz Veins: 39.7-39.8m, 4mm @ 35° to CH. Fg w/lt crystalline Qtz w/ 70% open space & 20% Fg. Sooty gry sulfides.									46															46.9	93%			20		1.7			
2 Pyrite veins, 1 @ 54m, 2cm wide @ 35° to CH paralleling a 3mm wide Qtz vein on FW side. (w/lt cockscum Qtz) - 60% Fg. massive py. in a gry silicic matrix.									48															48.4	98%	06766							
1 @ 55.3m 2.5cm wide @ 35° to CH. 50% granular py in dk gry clay.									50															50.9	97%	06767	.003		0.08		110	16.2	
									51															51.4	98%	06768	.003		0.10		75	6.0	
									52															52.6	98%	06769	.003		0.08		120	10.4	
									53															53.7	98%	06770	.003		0.11		120	9.6	
									54															54.9	98%	06771	.003		0.11		120	9.6	
									55															55.5	70%	06772	.011		0.35		550	51.3	
35.6-55.8m med. grey. clay altered massive trachyte w/ zones of intense clay alteration & clay gouge. - local flow laminations - outlined by light & dk grey lamination.	0.5-1.0								56															56.1	95%	06773							
									57															57.9	99%								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 48 SHEET No.: 5 of 29

From -To		Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, <°	Faults, <°	Bedding, <°	Cleavage, <°	GRAPHIC LOG	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS	BLOCKS	EST. CORE REC.	A S S A Y							
ROCK TYPE AND TEXTURES Colour, Alteration																												SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
Trachyte contains 2-4% clay altered lap phenos which appear white to green in colour (grn-mant?); <10% breccia fragments - rounded avocado green clay altered fragments <1cm in size; <10% diss py. Pyrite is dominantly fracture controlled forming fg aggregates																									54.4	99%	06774		60		1.0				
on py veinlets along fracture surfaces. 210% py filled fractures show py diffusing into trachyte forming dendritic patterns of dark grey pyritic envelopes. Total Pyrite = 2.3%																									63.3	98%	06775		50		1.2				
Dominant Fracture directions occur @ 30° ± 5° - fracture surfaces are lined w/ clay &/or pyrite. <5mm																									64.76	100%	06776		50		1.1				
Clay gouge is only prominent to 90m. These zones occur @: 57.6-57.8m. 59.3-59.4m. 61.1-61.9m. 65.2-65.4m. 71.4-71.7m. HW contact @ 30° to CH 72.2-72.3m. 77.9-78.1m. 84.0-84.1m.																									66.6	98%	06777		40		1.2				
Qtz Veins: 69.6m - 2 veins @ 35° to CH. 1 x 1.5cm wide, finely crystalline wht Qtz w/ 50% open space along vein axis & grey																									69.21	95%	06778 06779 06780 06781 06782		003 003 003 003 003		0.35 2.12 0.07 0.12 0.01	550 200 130 120 120	57.0 12.7 9.0 35.0 5.0		

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 6 of 29

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED		PROPERTY:		WATER		A S S A Y																						
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contacts, <°	Veins, < 1/2"	Faults, <°	Bedding, <°	Cleavage, <°	Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Phase Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
V. Fg. silice bands. The 1cm vein contains the grey qtz along the axis & the 1.5 cm vein contains the grey qtz along the borders. These bands are patchy @ 3-5 mm wide. Veins contain ~ 1% finely diss. py.									72														72.1							
									74														95% 06783		25		1.3			
71.4m - 2cm @ 30° to CA - FW contact is w/ brecciated clay-trachyte gouge. - w/ massive stellite qtz w/ 3% open space & 1% disseminated py.									76														74.7 95% 75.4 75.9							
									78														98% 06784		15		0.9			
97.4m - 1cm @ 21° to CA. V. Fg. vuggy grey qtz w/ ~ 5% open space, one 5cm x 0.5cm incorporated trachyte frag. + 1% diss. py. Vein borders consist of 2mm bands of coarser grained qtz which grade in a wht to a dk grey colour.									80														77.4 97% 78.4							
									82														79.2 100% 06785		20		0.7			
106m - 11.6m @ 30° to CA. - w/ stellite qtz w/ 2mm of amy along axis. < 1% open space. 1% diss. warty grey stellite - py.									84														80.8 100% 06786							
106-106.2m. 3mm wide veined w/ stellite qtz. Vein 11's CA then splits into two veins one as above & one 1mm wide py veined									86														83.5 98% 06787							
																							84.4 06787							
																							84.9 06788	1.003		0.07		230	11.2	
																							85.0 06789	1.003		0.01		130	7.0	
																							85.3 06789	1.003						

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-2 SHEET No.: 7 of 29

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: HART GUYANA										HOLE NO. 104 K 9E												
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Connect, <	Veins, < 5' dia.	Faults, <	Bedding, <	Cleavage, <	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y							
																											Au oz/ ton	Au ppm Ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
1062m - 6mm @ 45° - banded qtz vein w/ 2mm dk white qtz enveloping 2mm dk grey vfg pyritic qtz - 1% open space - 20% sulfides along vein axis								87.5																87.5	99.2	06790		20		0.6				
849m 1cm wide wht. cockscamb qtz vein - ground - no 7 to ch. no visible sulfides.								89.5																89.5	100%	89.0								
								90																	100%	90.1	06791		30		0.6			
								92																	92.3	99.4	94.2		25		0.8			
								94																	94.2	100%	95.0							
								96																	95.7	100%	96.9		30		1.0			
								98																	96.2	100%	96.9	< .002		0.4		130	6.6	
								97																	97.2	97.2	06795	.003		0.09		130	124	
								97.35																	97.35	100%	97.6	.000		0.02		140	6.6	

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-B SHEET No.: 2 of 29

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: [redacted]										WELL NO. [redacted]													
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Connectivity	Veins, $\angle$ μ m	Faults, $\angle$ μ m	Bedding, $\angle$ μ m	Cleavage, $\angle$ μ m	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Anhydrite	Biotite	Muscovite	Sericite	Chlorite	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y							
																												Au oz/ ton	Au ppm PPB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
111.8-112.4 - Fracture controlled fine grained py @ $\sim 30^\circ$ to CA - fine sheeted stringers of dendritic py.										110															111.8	100%	110.5								
										112																112.3	100%	06804		20		1.6			
										114																113.3	100%	113.3							
								30° 45'		116																114.3	98%	06805		10		1.7			
								30°		118																115.5									
116.8-117.4 - 50% py occurring fine grained aggregates ≤ 3 mm long - lath shaped to blob shaped.								20°		120														38		100%	116.8								
117.4 - 3mm wide py-clay vein @ 30° to CA								40°		122																117.0	100%			2.5		1.0			
118.4-119.4 - 4 py veinlets 1mm wide w/3mm wide dk grey pyrite envelopes								25°		124																118.5	100%	06806							
120.4-120.6m - 50% py occurring as fine grained aggregates ≤ 1 mm long - lath shaped to blob shaped.								40°		126														38		100%	119.3								
120.8-121.02 fine grained pyritic blobs ± 1 cm $\times$ 2-4cm originating along fractures & diffusing into troughs								30° 55'		128																119.5	95%								
								50°		130																120.4	100%	06807		15		0.9			
								35° 45'		132																121.6	100%								
								50°		134																123.1	100%	122.5							
125.4-125.9 - Gray clay gouge - contacts @ 40° to CA								35° 45'		136																123.1	100%	06808		10		0.7			

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-B SHEET No.: 10 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (S)	Conduct, °	Veins, °, d.d.	Faults, °	Bedding, °	Cleavage, °	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																											Au oz/ ton	Au ppb ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb
			0.5						124														2-32	124.6	100%	125.5							
									126															126.2	100%	06809	20		0.6				
									128															128.6	100%	128.5							
									130															130.2	100%	06810	45		0.9				
130.1m - 2mm wide grey vein w/ 4mm wide pyritic clay envelope @ 20° to CA.					2mm 20°			20-30°/45°	130														2-3%	130.6	100%	131.5							
132.7m - 5mm dk grey clay gauge @ 20° to CA								50°	132															132.3	100%	06811	55		1.7				
								8°	134															135.3	100%	134.5							
									136														2%	135.3	100%	06812	25		1.1				
									138															137.8		137.5							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMSHOLE No: 84-B SHEET No.: 11 of 29

From -To		Quartz	Carbonate %	Silice - Ind (3)	Contacts, $^{\circ}$	Veins, $^{\circ}$	Faults, $^{\circ}$	Bedding, $^{\circ}$	Cleavage, $^{\circ}$	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
ROCK TYPE AND TEXTURES Colour, Alteration																											SAMPLE No.	Au oz/ ton	Au ppm PB	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
									15-25° 45°	138													1-2%		100%	06813		25		0.9				
				0.5						140															140.2	140.5								
										142															141.7	141.5	06814		25		0.6			
									10-15°	144															143.3	143.5								
									10-15°	146															145.3	145.5	06815		50		0.7			
14.65m - 5mm wide pyrite-clay vein @ 80° to CA.								0°		148															146.6	146.5								
										150															148.2	148.5	06816		35		1.4			
										152															149.7	149.5								
										154															151.2	151.5	06817		5		0.4			
										156															157.0	157.0								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 84-E SHEET No.: 12 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Siliceous Ind (3)	Contacts, $\angle^\circ$	Veins, $\angle^\circ$ & dkt.	Faults, $\angle^\circ$	Bedding, $\angle^\circ$	Cleavage, $\angle^\circ$	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	A S S A Y						
																											Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
								25°			1-4%							50-80%	100%			20%		152.5	100%								
																								157.2	100%	06818	20		0.4				
																								155.7	100%	155.5							
156.3-160.3 med grey clay altered massive trachyte - as last interval except for an increase in plagioclase - no flow laminations - very little fracture controlled pyrite.								43-50°			4-5%							50-100%	100%					157.2	100%	06819	15		0.5				
Trachyte is mottled white to greyish patchy green mont-epidote altered ksp plenos & more granular texture than before.																								155.3	100%	155.5							
4-5% ksp altered to clay. 1-2% py - occurring dominantly as fg. aggregates in the Trachyte - 1 pyrite lined fracture @ 159.5m - 2mm wide @ 5° Fo CA.							3mm 5°																		100%	06820	30		1.5				
160.3-174.3 Massive clay altered Trachyte w/ 4-5% clay altered ksp plenos								25° 50° 75°			7-5%							50-100%	100%			2-5%		160.3	100%	161.5							
-Trachyte is medium gr. fine grained as 550-165.7m w/ a very weak local laminations py occurs disseminated throughout trachyte & also																								161.8	100%	06821	5		1.0				
																								163.4	100%								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No. 048 SHEET No.: 13 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate	Silica - Ind (3)	Connects, %	Veins, %	Faults, %	Bedding, %	Cleavage, %	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y						
																											Au oz/ ton	Au ppm	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
occurs along fractures. Dominant fracture directions are @ 25 and 50° - fractures are lined with clay &/or pyrite.									15.5																100%	164.5							
									16.0																100%	06822		<5		0.8			
									16.5																100%	167.5							
									16.8																100%	06823		5		0.9			
									17.0																100%	170.5							
									17.2																100%	06824		10		0.9			
									17.5																100%	172.5							
									17.6																100%	06825		10		1.2			
174.5-204.5 m med gry clay altered trachyte. 3-5% clay altered. ksp. phenos. <2mm in diameters.	1.5								17.6																100%	175.6							
2% advanced green clay altered fragments (clay & red blobs incorporated into matrix blobs are less than 1cm in diameter.									17.6																100%	177.1							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-8 SHEET No.: 14 of 29

N.T.S. MAP GRID: 104 K 9E										KERR ADDISON MINES LIMITED										PROPERTY: HART GLEN										HOLE NO. SHEET NO.									
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate	Silice - Ind (3)	Contacts, °	Veins, °	Faults, °	Bedding, °	Cleavage, °	Rock Type Structure	Meters	Mineralization Type	Albite	K-feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Mashix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	A S S A Y																
																							SAMPLE No.	Au oz/ ton	Au ppm AD	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb									
Trachyte contains a faint but pervasive flow lamination - occurs in ~80% of the core - flow lamination is outlined by streaks of darker grey trachyte & alignment of disseminated pyrite.										178											178.6	100%	06526		5		2.1												
Pyrite occurs as fine grained disseminations & aggregates < 5mm in diameter, rimming & disseminated within clay altered fragments, or fracture controlled (2mm wide) - fine grained pyrite agg. have a dendritic habit. as well as ~40% of the fracture controlled pyrite								45-50°		180											181.7	100%	06527		13		1.7												
Dominant fracture directions are @ 25° & 45-55° - fracture surfaces are lined w/ clay & pyrite (Kammite)										182												184.7	100%	06528		20		1.3											
										184												186.2	100%	06529		20		1.2											
										186												187.8	100%	188.5															
								25° 45-50°		188												189.3	100%	06530		25		1.1											
										190												190.5	100%	191.5															
										192												191.1	94%																

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-B SHEET No.: 15 of 29

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: [REDACTED]										ROLL NO. [REDACTED]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silica - Ind (3)	Veins, % Faults, % Bedding, % Cleavage, % Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite K-Feldspar Anhydrite Biotite Muscovite Sericite Chlorite	Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
											Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			192.5				192.5		100%	06831			40		1.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 848 SHEET No.: 16 of 20

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: HARK		HOLE NO. 06836		ASSAY						
From - To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Contact, < Veins, < Faults, < Bedding, < Cleavage, < Rock Type Structure - Meters	GRAPHIC LOG	Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite CLAY Magnetite Pyrite Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb							
- Darker grey-green, more translucent trachyte is harder - more silicified (222.8 - 223.8)	15		206.5					206.5														
- Trachyte contains 1-3% clay			207.2			207.2		207.2		10		1.0										
altered esp. pyrox. which are <2mm long; 2% adularia green clay fragments <4cm long (mont-epidote) - clay fragments are pyritic containing fine			209.2			209.2		209.2														
crystalline py. disseminated throughout or rimmed w/ fine pyrite. Py occurs as finely disseminated or disseminated aggregates of		200 @ 25°	211.1			211.1		211.1		<5		1.2										
fine pyrite (<5mm) throughout trachyte - pyrite aggregates occur all to flow laminations when present; Py also occurs as fracture controlled py. <2mm wide.		25° 45° 50°	213.7			213.7		213.7		<5		0.9										
@ 211.8 - 2mm wide py-qtz veinlet @ 28° to CA w/ 70% fine grained disc. pyrite + 30% qtz-clay			215.2			215.2		215.2														
Dominant Fracture directions are @ 25°, 45° & 80° - Fracture surfaces are lined w/ <2mm of clay &/or pyrite.		50°	216.7			216.7		216.7		<5		1.0										
			218.5					218.5														
			219.8			219.8		219.8		<5		1.3										

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY:		HOLE NO.:		A S S A Y																					
From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (%)	Connectivity %	Veins, < 1/2 in.	Faults, < 1/2 in.	Bedding, < 1/2 in.	Cleavage, < 1/2 in.	Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Ans	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	E.S.T. CORE REC	SAMPLE No.	Au oz/ ton	Au ppm	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb		
											220																100%	221.3	221.5								
											222																100%	222.8	06841		< 5		1.0				
											224																100%	224.3	224.5								
											226																100%	226.9	06842			< 5		1.1			
225.9-226.9m Massive clay altered pyritic trachyte w/ qtz veins.		1.5							25-50°		226														4%		227.4	227.5	06843	< 0.03		0.11		33	34		
No of Ksp phenos. (4-8%) qtz veins: 227-227.4. 3mm wide qtz veins subparallel to CA. - 1/2 in. w/ cobbles qtz w/ 2-3% py along envelope.											228																100%	228.65									
228.3-229.0 - 6mm wide qtz veins spalling on HW. w/ cobbles qtz - 1/2 in. visible sulfides. vein is curved coming to col @ 25° & leaving @ 25° on same side											230																100%	230.5	229.15	06844	< 0.03		0.06		36	30	
229.4-229.8 - 7mm wide qtz vein @ 3° to CA w/ 2mm green fsp qtz on bds & w/ cobbles qtz along axis & 2% py occurring along vein envelope & 7% open space											230																100%	230.5	229.15	06845	< 0.03		0.10		43	4.2	
231.6-231.7 - 6mm wide w/ w/ x-tralline qtz - vein curves as 228.8-229. - vein is enveloped in py - 4% py											230																100%	230.5	230.5	06846	< 0.03		0.12		46	30	
											230																100%	230.5	230.5	06847	0.14		0.10		50	2.3	
											230																100%	230.5	230.5	06848	0.14		0.10		50	2.3	
											230																100%	230.5	230.5	06849	0.14		0.10		50	2.3	

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 848 SHEET No. 18 of 22

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: HART CLAIMS		HOLE NO. 104 K 9E		SHEET NO. 104 K 9E														
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contact, <	Veins, <	Faults, <	Bedding, <	Cleavage, <	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
232.6-238.9m. 1cm subparallel rock (not planar) with cockscum qtz w/ 10% amy along axis. 100% open space - 3% py along envelope.					10m																235.5	100%	06849	<203		0.11		110	5.8	
238.9-251.7 Med. grey massive																						238.9	100%	06850	<203		0.26		73	3.4
clay altered pyritic trachyte - 34% clay altered ksp phenos 2mm wide - 10% adularia green clay-epidote fragments 2mm in diam - frags.		15.2						25.1-45.50														235	100%	06851	<203		0.29		67	3.6
contain fine dls py & can be rimmed w/ pyrite py occurs finely dls throughout trachyte as fine aggregates 2mm & fracture controlled 2mm																						236.5	100%	236.9						
wide py, veins Dominant Fracture directions are @ 25° 45° 60° & line w/ clay & in pyrite																						238	100%	06853		<5		1.6		
																						239.6	100%	239.9						
																						241.1	100%	06854		10		1.8		
																						242.5	100%	242.9						
																						244.1	100%	06855		<5		1.0		
244.6-245.8 - 2mm wide qtz-py veins subparallel to CH - greyish py cockscum qtz w/ ~7% open space along vein axis. 10% py occurs in fine grained bands bordering the more crystalline vein axis.																						245.7	100%	245.9						

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 848 SHEET No.: 12 of 29

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY: _____										ROLL NO. _____													
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contact, <	Veins, < 1/4 in.	Faults, <	Bedding, <	Cleavage, <	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
								35° 45-50°	246																246.3	90%									
									247																	247.2	90%	06856		20		0.9			
									248																	248.7	100%	248.9							
									250																	250.2	80%	06857		<5		1.2			
251.7-256.3m Trachyte as above									251			3%									30-60%	100%			3-4%	251.7	100%	251.9							
With dominantly fracture controlled, dendritic pyrite. (75% of pyrite is fracture controlled)	15-2							15-30° 45-50°	253																	253.2	100%								
Dominant Fracture directions are @ 15-30° & @ 45°									254																	254.8	100%	06858		5		1.5			
Fracture surfaces are lined w/ clay &/ or pyrite.									256																	256.3	100%	256.9		<5		1.1			
256.1m - 2cm db clay gouge									257																	257.9	100%	06859							
256.3-264.6m	15-2							45-50°	258												30-60%	100%			3-4%	257.9	100%	257.9							
Trachyte as 2329-251.9									260																		259.4	100%	06860		<5		0.9		
								15-25°	260			2-12									30-60%	100%			3-4%										

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No.: 84-8 SHEET No.: 2 of 2

N.T.S. MAP GRID: 104 K 9E										KERR ADDISON MINES LIMITED										PROPERTY: KERR ADDISON MINES LIMITED										HOLE NO. 104 K 9E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate % Silice - Ind (3)	Contacts, 4° Veins, 2° Faults, 2° Bedding, 2° Cleavage, 2° Rock Type Structure	GRAPHIC LOG Meters	Mineralization Type	Albite K-Feldspar Anorthite Biotite Muscovite Sericite Chlorite	Matrix Pheno. Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
										SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			260					100%	260.9	06860																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY:

HART CLAIMS

HOLE No: 248 SHEET No: 21 of 29

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY:		A S S A Y							
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Siliceo - Ind (3)	Connect, % Veins, % Faults, % Bedding, % Cleavage, %	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ton	Au ppm ppb	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb						
1-2			274					274.9													
			275				100%	06866	2.003		0.24		85	4.8							
			276					276.4													
			276.5				100%	06868	2.003		0.10		69	3.2							
			278					278.3													
			279				100%	06869		10		1.0									
279.5-307.3m Med grey massive, clay altered pyritic trachyte. 7-50% clay altered ksp. phenos. <5mm in diam fine disseminated pyrite occurs throughout trachyte, pyrite	15-2		280		1-10%	50-50%	100%	280.2													
			281			100%	06870		<5		0.9										
is also Fracture controlled <1mm wide pyrite microveinlets. Pyrite aggregates w/ dendritic habit envelope ~25% of pyrite microveinlets - <10% advanced green clay			282				100%	282.8													
			283				100%	284.1													
altered frag. - description as before. Dominant Fracture direction is @ 45-60° + 15-25° - Fracture surfaces are lined w/ clay &/or pyrite <1mm			286				100%	286.2													
			287				100%	06872		5		1.0									

HOLE No: 248 SHEET No.: 22 of 29

N.T.S. MAP GRID: 104 K 9E		KERR ADDISON MINES LIMITED										PROPERTY:	HOLE NO.	ASSAY																							
From -To ROCK TYPE AND TEXTURES Colour, Alteration		Quartz %	Carbonate %	Silice - Ind (3)	Connects %	Veins, < 1/4"	Faults, < 1/4"	Bedding, < 1/4"	Cleavage, < 1/4"	Fract. Type	GRAPHIC LOG Meters	Mineralization Type	Albite	K-Feldspar	Ana	Biotite	Muscovite	Sericite	Chlorite	CLAY	Matrix	Pheno	Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC.	SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb	
											288																100%	288.5	288.5								
											288																100%	291.1	291.1	06873	< 5			0.6			
											292																100%	292.6	292.6	292.7							
											292																100%	294.1	294.1	06874	< 5			10			
											292																100%	294.1	294.1	294.2							
297.5 m. clay alteration (100%), 10cm wide.											298																100%	297.5	297.5	06875	< 5			0.7			
											298																100%	299	299	299.3							
											300																100%	299	299	06876	< 5			0.7			
											300																100%	300.5	300.5	300.2							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-B SHEET No.: 23 of 29

N.T.S. MAP GRID: 104 K 9B															KERR ADDISON MINES LIMITED										PROPERTY:									
From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Concret, %	Veins, < 1/2 in.	Faults, < 1/2 in.	Bedding, < 1/2 in.	Cleavage, < 1/2 in.	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	SAMPLE No.	Au oz/ ton	Au ppm P/B	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb					
																						100%	06877		< 5		0.7							
																						100%	06878		< 5		0.7							
307.3-324.1 Porphyritic Trachyte Contains ~ 7-12% Kspn phenos, < 4mm long w/ 20-100% clay alteration - matrix is red grey in colour. 3-4% py occurs finely dis. throughout porphyry + occurs fracture controlled (veinlets < 1mm wide) Dominant Fractures are @ 45-55° - Fracture surfaces are lined w/ clay &/or pyrite (< 2mm clay) @ 213.85m. There is a 0.8cm wide clay py. veinlet running subparallel to CA for 6cm then truncating @ a fracture 50° to CA. Veinlet contains ~ 30% py, 70% clay Porphyry is becoming more	22.5										7-12%							20-40% 30-100%		3-4%		100%	06879		< 5		0.8							
																						100%	06880		5		0.7							
																						100%	06881		< 5		0.9							

[illegible]

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 84-B SHEET No.: 25 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz % Carbonate % Silice - Ind (3)	Contacts, < Veins, < Faults, < Bedding, < Cleavage, < Fracture Type	GRAPHIC LOG Meters	Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite	CLAY Muscov Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
										SAMPLE No.	Au oz/ton	Au ppm	Ag oz/ton	Ag ppm	As ppm	Sb ppm	Hg ppb
as disseminated aggregates 43mm wide & fracture controlled 22mm wide. Dominant fracture directions are @ 35°, 65-60° & 45° - fracture surfaces are lined w/ clay &/or pyrite w/ black alteration			332				3%		100%	331.2							
			333						100%	333.5		5		1.5			
			334						100%	334.2							
			335						100%	335.1		< 5		1.4			
			336						100%	336.6							
337.6-342.3 Broken clay altered massive pyritic trachyte - 10cm & clay gruge @ start of section -12% clay altered kop phenos -12% diss & fracture controlled	0.5%		338				1-2%		100%	337.6							
			339						100%	339		< 5		1.5			
			340						100%	340.2							
Dominant fracture directions are @ 30-60° - fracture surfaces are lined w/ clay &/or py.			341						100%	341.6		< 5		1.4			
342.3-365.5 Highly fractured clay altered pyritic trachyte w/ local fracture controlled			342				20-50% 100%		100%	342.1							
			343				34%		100%	343.6							

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No. 84-B SHEET No. 26 of 29

N.T.S. MAP GRID: 104 X 95

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No.: 20-8 SHEET No.: 26 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Silice - Ind (3)	Contact, < °	Veins, < °	Faults, < °	Bedding, < °	Cleavage, < °	GRAPHIC LOG Rock Type Structure Metres Mineralization Type	Albite K-Feldspar An Biotite Muscovite Sericite Chlorite	CLAY Muscov Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length METERS BLOCKS	EST. CORE REC	A S S A Y							
														SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
trachyte breccia 1-4% clay altered kop pews. Fracture controlled pyrite finely diss pyrite								550	345				345.2	100% 06891	<5		1.2				
disseminated aggregates of py Breccia cores occur @: 346.5 - 347.2 m. 351.9 - 352.2 m. 363.5 - 363.7 m.			1					550	346				346.7	100% 06892	<5		1.2				
Breccia consists of local trachyte Fragments in a pyritic clay altered matrix - 5% matrix - 95% trachyte									348				346.2	100% 06893	<5		1.2				
Dominant Fracture directions are @ 45, 50, & 55° - Fracture surfaces are lined w/ clay & n py		1.5							349				346.7	100% 06894	<5		1.4				
									350				351.3	100% 06895	<5		1.4				
									351				352.8	100% 06896	<5		0.9				
353 - 356 - local flow banding 355.5 - Breccia fragment 5cm wide at grey clay altered fsp pwp.		2						400	352				354.6	100% 06897	<5		0.9				
357.1 - 357.3 - Breccia frag. 15cm wide as above.		2.5							353				356.1	100% 06898	<5		0.8				
									358				357.7								

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

HOLE No: 84-B SHEET No.: 27 of 29

From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz %	Carbonate %	Siliceous Ind (3)	Contacts, <	Veins, <	Faults, <	Bedding, <	Cleavage, <	GRAPHIC LOG Rock Type Structure Meters	Mineralisation Type	Albite	K-Feldspar	Anorthite	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Phenocrysts Fe Oxide	Arsenopyrite	Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y							
																								SAMPLE No.	Au oz/ ton	Au ppm PPb	Ag oz/ ton	Ag ppm	As ppm	Sb ppm	Hg ppb
									358														358.1								
									359														359.2			<5		0.8			
									360														360.7		06896						
									361														361.2								
									362														362.5								
									363														363.7		06897		<5		0.7		
									364														364.1		06898						
									365														365.2								
									366														366.4								
									367														367.1								
									368														368.3								
									369														369.8								
									370														370.6								
									371														371.4								
									372														372.1								

365.5-387.5 Intensely altered explosion breccia. The first 20m consists of fault gouge which grades into a fine grained breccia (clasts <5mm) to 26m, then into a coarser breccia which continues till the end of the hole. Breccia has a clay matrix w/ 40% matrix, 50% clast. Clasts consist dominantly of trachyte and basalt.

N.T.S. MAP GRID: 104 K 9E

KERR ADDISON MINES LIMITED

PROPERTY: HART CLAIMS

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From -To ROCK TYPE AND TEXTURES Colour, Alteration	Quartz Carbonate Silice - Ind (3)	Contacts, $\angle^{\circ}$	Veins, $\angle^{\circ}$, Δ , Δ	Faults, $\angle^{\circ}$	Bedding, $\angle^{\circ}$	Cleavage, $\angle^{\circ}$	GRAPHIC LOG Rock Type Structure Meters	Mineralization Type	Albite	K-Feldspar	An	Biotite	Muscovite	Sericite	Chlorite	CLAY Matrix Pheno Fe Oxide Arsenopyrite Pyrite	Assay Length	METERS BLOCKS	EST. CORE REC	A S S A Y									
																				SAMPLE No.	Au oz/ ton	Au ppm ppb	Ag oz/ ton	Ag ppm	As ppm	Sb ppa	Hg ppb		
-99% trachyte clasts 10% sub. clasts. Breccia contains 8-10% finely crystalline disseminated pyrite which is pervasive in both the clasts & the matrix. Some sections of the breccia contains a greater % of matrix which appears to have a lamination subparallel to the CA. These intervals occur @ 375-376.5 381.1-382.8. 386-387.5 These intervals have ~ 60% matrix & are probably just breccia of the same event which flowed. Clasts are in variable stages of clay alteration ~ 80% are totally altered & a light green colour No evidence of gte veining							375											100	375.2										
							376												100	376.5	06901	5		0.3					
							376.5												100	376.5									
							377												100	377	06902	<5		0.4					
							378												100	378									
							379												100	379.2									
							380												100	380	06903	<5		0.4					
							381												100	381.1									
							382												100	382.2									
							383												98	383.2	06904								
							384												100	384		<5		0.4					
							385												100	385.2									
							386												38	386									

HOLE No.: 84-B SHEET No.: 22 of 29

[illegible]

