GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Page 1 of 5

Property: UNUK R.	Project No.: 134	Depth: 75.90 metres	Date Began: Sept 18/89
Hole No.: AP 1	Co ord: 1450 N	Horizontal Length:	Date Completed: Sept 20/89
Claim No.: UNUK 14	1010 E	Core Size: NQ	Drilled By: Van Alphen Drilling.
Grid No.: AP	Angle & Grid Direction: -45° /Grid W.	Elevation:	Logged By: B. Gabony

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - 8.23	casing								
8.23 - 14.00	Debris Flow								
	matrix supported clastic rock composed of up to 30% angular, dominantly dacitic volcanic fragments in a fine grained argillitic matrix. Fragments range from sand sized to several cm in diameter. The rock is generally moderately well foliated and contains minor bleached intervals with py stringers & blebs comprising 3-5%. Overall, however, the rock contains ≤ 1% py.								
	13.40 - 14.00 : Shear zone (clayey gouge with 10-20% py occurs between 13.40 - 13.55).								
14.00 - 42.50	Dacite ash - lapilli Tuff								
	mottled grey to greenish grey (light colored) volcaniclastic containing variable degrees of sericitization but without development of a definite foliation. Some of the darker colored mottling is produced by spotty preferential silica flooding. Generally the rock is brecciated & contains numerous dark stringers up to several cm long which may contain fine peripheral sulfides.								
	14.00 - 16.00 : light green colored, brecciated, sericitized, abundant py stringers, qtz vnlts & or thin dark (tourmaline?)-sulfide vnlts or healed fractures at all orientations; overall contains 5-10% py, tr gal, tr tet., tr aspy; best mineralization occurs between 15.00 - 16.00.								
*									
	16.00 - 20.90 : similar to 14.00 - 16.00 but darker colored & less altered. Py decreases from ~10% near top of interval to ~5% by 20.90. No other sulfides were visible.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

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Property: UNUK R. | Project No. 134 | Depth | Date Began
Hole No. AP 1 | Co ord. | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	20.90 – 24.18 : lighter colored, more sericitized section with ~5% py overall.								
	22.21 – 22.99 : fracture zone ; lighter colored fractured & silicified section with limonitized fractures and abundant thin, dark-colored silicified vnlts, 5–10% py overall; orientation of most fractures ≈ 40–45° to core axis.								
	24.18 – 34.00 : similar to 16.00 – 20.90 ; contains minor thin qtz tension gashes at shallow core angles (≤ 20°) & 4–6% py as disseminations & stringers.								
	31.12 – 34.00 : transitional section ; gradual increase in sericitization, bleaching & degree of fracturing; overall contains 4–6% py as stringers & disseminations ; possible weak incipient foliation at ~45° to core axis								
	31.12 – 31.27 : fracture zone, limonitic fractures generally at ~45° to core axis.								
	31.44 : large blek of reddish sphalerite rimmed by py.								
	32.82 – 33.22 : limonitized fracture zone, fractures generally trend ~40–50° to core axis. ~60% core recovery								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 3 of 5

Property: UNUK R | Project No. 134 | Depth | Date Began
Hole No. AP 1 | Co ord | Horizontal Length | Date Completed
Claim No | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	34.00 - 40.97 : light green grey mottled section similar to 20.90 - 24.18 with 3-5% py overall, plus traces of aspy. The rock is more sericitized & locally silicified (mottling of color reflects spotty silica flooding). Py occurs with traces of aspy as fine discontinuous stringers or as disseminations. The best mineralization & alteration occur between 34.00 - 38.72 & 39.52 - 40.97.								
	40.00 - 40.97 : 80% core recovery								
42.50 - 51.33	Andesite ash - lapilli tuff								
	darker green more mafic - rich version of the ash - lapilli tuff encountered in the interval 14.00 - 42.50. The rock is still mottled (somewhat due to preferential silica flooding) and is generally chloritized, although it is also sericitized toward the bottom of this interval. Overall contains ~1% fine dissem py.								
	47.50 - 47.70 : limonitic fracture zone, CA's generally ~60° to core axis.								
	48.46 : 2 cm wide clay seam.								
51.33 - 52.50	Fault Zone :								
	51.33 - 52.12 : limonitic fracture zone w CA.'s of ~40°								
	52.12 - 52.50 : 4 cm wide gravel/clay seam followed by an intensely fractured siliceous white porcelain - like rock.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R | Project No. 134 | Depth | Date Began
Hole No: AP 1 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
52.50 - 54.40	Quartz - Chlorite - Sericite Schist.								
	A well laminated, contorted schistose rock composed of thin silicious laminae up to 3mm wide separated by sub-mm wide chl-ser laminae. Core angles vary wildly between 20° & 45° and small scale boudinage is visible; contains ≤ 1% dissem. py.								
	54.00 - 54.40 : gradational decrease in shearing & alteration to a rock approaching the andesite ash-lapilli tuff in appearance.								
54.40 - 72.10	Andesite Breccia								
	A coarse, mottled light to dark green, clast-supported andesitic fragmental volcanic rock composed generally of sand-sized to cobble-sized angular andesitic fragments. The rock is moderately to poorly sheared, chloritized and locally sericitized and contains occassional short silicious sections up to ~30 cm wide. It contains 1-2% py overall, as disseminations, irregular nests & stringers of unusually dark (dirty) colored py. Locally py may vary up to 10% (eg 68.45 - 68.65)								
	54.40 - 55.00 : sericite rich section.								
	65.91 - 68.65 : lighter colored section w 3-5% py								
	71.50 - 72.10 : bottom contact zone, bleached, silicified, no visible sulfides.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 5 of 5

Property: UNUK R. Project No. 134 Depth: Date Began:
Hole No. AP 1 Co ord. Horizontal Length: Date Completed:
Claim No. Core Size: Drilled By:
Grid No. Angle & Grid Direction Elevation: Logged By:

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
72.10 - 75.90	Diabase								
	A dark black, fine grained moderately well fractured (broken core) with minor thin qtz vnlts and no visible sulfides.								
	Core Angles								
	8.23 m : fol 55°								
	10.00 m : fol 48°								
	11.90 m : fol 60°								
	13.75 m : shearing 45°								
	22.21 m : fractures 40 - 45°								
	31.12 m : fractures 45°								
	32.82 m : fractures 45°								
	47.60 m : fractures 60°								
	51.33 m : fractures 40°								
	57.30 m : fol 30°								
	59.00 m : fol 30°								
	60.66 m : fol 44°								
	63.65 m : fol 30°								
	66.30 m : fol 43° (poor)								
	69.65 m : fol 45°								
	Dip test : 45° corrected at 75.90 m.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

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Property: Unuk R	Project No. 134	Depth 75.90 m.	Date Began Sept 18/89
Hole No. AP 1	Co ord. 1450 N	Horizontal Length	Date Completed Sept 20/89
Claim No Unuk 14	1010 E	Core Size NQ	Drilled By Van Alphen Drilling
Grid No. AP	Angle & Direction -45°/Grid W.	Elevation	Logged By B. Gaboury

INTERVAL FEET/METRES	NUMBER	WIDTH	Au. g/t	Ag. PPM	Cu. PPM	Zn. PPM	Pb PPM	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu.	Zn	Pb
0 - 8.23	casing	8.23																	
8.23 - 8.86	47291	.63	.01																
8.86 - 9.56	47292	.70	.02																
9.56 - 10.06	47293	.50	.01																
10.06 - 10.56	47294	.50	.01																
10.56 - 10.89	47295	.33	.02																
10.89 - 11.39	47296	.50	.02																
11.39 - 11.89	47297	.50	.08																
11.89 - 12.39	47298	.50	.03																
12.39 - 12.89	47299	.50	.07																
12.89 - 13.40	9013	.51	.03																
13.40 - 13.67	9014	.27	.25																
13.67 - 14.00	9015	.33	.01																
14.00 - 14.50	9016	.50	.06																
14.50 - 15.00	9017	.50	.06																
15.00 - 15.50	9018	.50	.86	3.4	82	2188	893							1.0M	0.69	5.8		3484	2218
15.50 - 16.00	9019	.50	.52	8.2	169	4780	3544								g/t	g/t		PPM	PPM
16.00 - 16.50	9020	.50	.11												Au	Ag		Zn	Pb
16.50 - 17.00	9021	.50	.01																
17.00 - 17.50	9022	.50	.03																
17.50 - 18.00	9023	.50	.03																
18.00 - 18.50	9024	.50	.01																
18.50 - 19.00	9025	.50	.09																
19.00 - 19.50	42857	.50	.10																
19.50 - 20.00	42858	.50	.10																
20.00 - 20.50	42859	.50	.01																
20.50 - 20.90	42860	.40	.80																
20.90 - 21.40	42861	.50	.2	0.6															
21.40 - 21.80	42862	.40	.02																
21.80 - 22.21	42863	.41	.02																
22.21 - 22.58	42864	.37	.01																
22.58 - 22.99	42865	.41	.01																
22.99 - 23.44	42866	.45	.02																
23.44 - 24.18	42867	.74	.02																
24.18 - 24.68	42868	.50	.03																
24.68 - 25.00	42869	.32	.01																
25.00 - 25.50	42870	.50	.02																
25.50 - 26.00	42871	.50	.01																
26.00 - 26.50	42872	.50	.02																
26.50 - 27.00	42873	.50	.01																

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property	UNUK R.	Project No.	134	Depth	Date Began
Hole No.	AP 1	Co ord.		Horizontal Length	Date Completed
Claim No.				Core Size	Drilled By
Grid No.		Angle & Direction		Elevation	Logged By

INTERVAL FEET / METRES	NUMBER	WIDTH	Au g/t	Ag	Cu	Zn		WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn	
27.00 - 27.50	42874	.50	.01																
27.50 - 28.00	42875	.50	.02																
28.00 - 28.50	42876	.50	.02																
28.50 - 29.00	42877	.50	.01																
29.00 - 29.50	42878	.50	.02																
29.50 - 30.00	42879	.50	.01																
30.00 - 30.50	42880	.50	.02																
30.50 - 30.90	42881	.40	.02																
30.90 - 31.12	42882	.22	.02																
31.12 - 31.52	42883	.40	.33																
31.52 - 32.00	42884	.48	.04																
32.00 - 32.50	42885	.50	.01																
32.50 - 32.82	42886	.32	.01																
32.82 - 33.22	42887	.40	.07																
33.22 - 33.62	42888	.40	.01																
33.62 - 34.00	42889	.38	.12																
34.00 - 34.50	42890	.50	.03																
34.50 - 35.00	42891	.50	.02																
35.00 - 35.50	42892	.50	.01																
35.50 - 36.00	42893	.50	.02																
36.00 - 36.50	42894	.50	.01																
36.50 - 37.00	42895	.50	.02																
37.00 - 37.50	42896	.50	.05																
37.50 - 38.00	42897	.50	.03																
38.00 - 38.50	42898	.50	.04																
38.50 - 39.00	42899	.50	.04																
39.00 - 39.50	15593X	.50	.04																
39.50 - 40.00	15594 X	.50	.02																
40.00 - 40.50	15595 X	.50	.02																
40.50 - 40.97	15596 X	.47	.03																
40.97 - 41.47	15597 X	.50	.03																
41.47 - 41.97	15598 X	.50	.01																
41.97 - 42.50	15599 X	.53	.01																
42.50 - 43.00	15600 X	.50	.01																
43.00 - 43.50	15601 X	.50	.01																
43.50 - 44.00	15602 X	.50	.03																
44.00 - 44.50	15603 X	.50	.01																
44.50 - 45.00	15604 X	.50	.01																
45.00 - 45.50	15605 X	.50	.01																
45.50 - 46.00	15606 X	.50	.01																

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property: UNUK R | Project No: 134 | Depth | Date Began

Hole No.: AP1 | Co ord | Horizontal Length | Date Completed

Claim No. | Core Size | Drilled By

Grid No. | Angle & Direction | Elevation | Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au g/t	Ag	Cu.	Zn.		WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu.	Zn	
46.00 - 46.50	15607 X	.50	.01																
46.50 - 47.00	15608 X	.50	.01																
47.00 - 47.50	15609 X	.50	.01																
47.50 - 48.46	15610 X	.96	.01																
48.46 - 49.00	15611 X	.54	.02																
49.00 - 49.50	15612 X	.50	.01																
49.50 - 50.00	15613 X	.50	.02																
50.00 - 50.50	15614 X	.50	.01																
50.50 - 50.90	15615 X	.40	.01																
50.90 - 51.33	15616 X	.43	.01																
51.33 - 51.80	15617 X	.47	.01																
51.80 - 52.12	15618 X	.32	.01																
52.12 - 52.50	15619 X	.38	.01																
52.50 - 53.00	15620 X	.50	.01																
53.00 - 53.50	15621 X	.50	.01																
53.50 - 54.00	15622 X	.50	.01																
54.00 - 54.40	15623 X	.40	.01																
54.40 - 55.00	15624 X	.60	.01																
55.00 - 55.50	15625 X	.50	.01																
55.50 - 56.00	15626 X	.50	.01																
56.00 - 56.50	15627 X	.50	.01																
56.50 - 57.00	15628 X	.50	.01																
57.00 - 57.50	15629 X	.50	.02																
57.50 - 58.00	15630 X	.50	.01																
58.00 - 58.50	15631 X	.50	.02																
58.50 - 59.00	15632 X	.50	.04																
59.00 - 59.50	101 V	.50	.03																
59.50 - 60.00	102 V	.50	.01																
60.00 - 60.50	103 V	.50	.02																
60.50 - 61.00	104 V	.50	.01																
61.00 - 61.35	105 V	.35	.01																
61.35 - 61.85	106 V	.50	.02																
61.85 - 62.35	107 V	.50	.02																
62.35 - 62.85	108 V	.50	.01																
62.85 - 63.35	109 V	.50	.02																
63.35 - 63.85	110 V	.50	.03																
63.85 - 64.35	111 V	.50	.02																
64.35 - 64.85	112 V	.50	.05																
64.85 - 65.35	113 V	.50	.03																
65.35 - 65.91	114 V	.56	.02																

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

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Property: UNUK R. | Project No: 134 | Depth | Date Began

Hole No: AP 1 | Co ord | Horizontal Length | Date Completed

Claim No. | Core Size | Drilled By

Grid No. | Angle & Direction | Elevation | Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au g/t	Ag.	Cu.	Zn.		WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu	Zn	
65.91 - 66.40	115 V	.49	.03																
66.40 - 66.90	116 V	.50	.01																
66.90 - 67.40	117 V	.50	.02																
67.40 - 67.90	118 V	.50	.01																
67.90 - 68.45	119 V	.55	.01																
68.45 - 68.65	120 V	.20	.04																
68.65 - 69.15	121 V	.50	.03																
69.15 - 69.65	122 V	.50	.04																
69.65 - 70.00	123 V	.35	.03																
70.00 - 70.50	124 V	.50	.12																
70.50 - 71.00	125 V	.50	.07																
71.00 - 71.50	126 V	.50	.03																
71.50 - 71.80	127 V	.30	.02																
71.80 - 72.10	128 V	.30	.01																
72.10 - 72.60	129 V	.50	.01																
72.60 - 75.90	waste	3.30	—																
75.90	EOH																		

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R. | Project No: 134 | Depth: 115.52 m | Date Began: Sept 21/89
Hole No.: AP 2 | Co ord: 1300 N 1043 E | Horizontal Length: | Date Completed: Sept 24/89
Claim No.: UNUK 14 | Core Size: NQ | Drilled By: VAN ALPHEN DRILL
Page 1 of 9 | Grid No.: AP | Angle & Grid Direction: Grid W/-45° | Elevation: | Logged By: B. GABOURY

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - 1.22	casing								
1.22 - 18.75	Dacite Ash Lapilli Tuff (silicified andesite ?)								
	green grey to dark grey, moderately silicic volcaniclastic with angular to subrounded light grey-green dacitic fragments up to several cm dia. Contains darker section with elongate fragments which appear to be due to brecciation followed by infilling of fractures by a dark silicic matrix [there is a visible gradation between less brecciated lighter colored material to the fragmental with elongate light colored fragments]. The elongate fragments produce a fabric which is parallel to the core axis. Contains 3-5% disseminated py overall.								
	2.32 - 4.64 : unsilicified, fragments are darker; more chloritic; looks like debris flow; some fragments have been converted to py. Overall contains 5% py:								
	2.32 - 3.14 : fracture zone, rubbly limonitized core. 3.14 : 1cm wide shear w py, CA = 50°								
	3.64 - 4.04 : fracture zone, rubbly limonitized core at all possible core angles.								
	4.04 - 4.64 : transition back to silicified tuff								
	4.64 - 18.75 : moderately well silicified, variably brecciated, contains occassional darker colored lithic fragments, sericitized but unfoliated. Lighter colored intervals demonstrated rounded & embayed fragments with halos of bleached material (fragments have been consumed during alteration). Rock also contains up to 20% white subhedral to euhedral feldspar lathes & masses → this is probably a variety of albitization.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R | Project No: 134 | Depth: | Date Began:
Hole No.: AP 2 | Co ord.: | Horizontal Length: | Date Completed:
Claim No: | Core Size: | Drilled By:
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INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	5.04-5.24 ; shear ; fine limonitic rubble								
	5.64 - 6.04 : foliated interval with core angles of ~50° to core axis ; contains dark colored lenses up to 1cm wide & several cm long oriented parallel to foliation.								
	7.00 - 7.36 : limonitized fracture zone with ~10% py flanked by brecciated & silicified sections. fractures demonstrate all possible orientations.								
	16.40 - 16.50 : small shear with gouge ; gravelly								
	16.50 - 17.00 : dark colored, less silicified, 5-10% py								
	18.50 - 18.75 : brecciated, bleached contact zone.								
18.75 - 26.50	Diabase								
	black, very fine grained intrusive with abundant fracturing; contains thin qtz vnlts, mildly brecciated intervals, no visible sulfides.								
	26.00 - 26.50 : brecciated bottom contact.								
26.50 - 55.84	Coarse Andesite Fragmental Volcanic (Agglomerate?)								
	A greenish grey to green chloritic fragment supported volcaniclastic rock containing andesitic fragments up to several cm in dia. ; generally pervasively silicified & chloritized, variably fractured & brecciated with occassional infilling of fractures by fine dirty colored py or more commonly dark chloritic material ; contains occassional lithic fragments and lighter colored more felsic ones; overall contains 3-5% py as disseminations & occassional stringers. Brecciation becomes more apparent below 30.00 m:								

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DIAMOND DRILL LOG

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Property: UNUK R | Project No. 134 | Depth | Date Began
Hole No. AP 2 | Co ord. | Horizontal Length | Date Completed
Claim No | Core Size | Drilled By
Grid No | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	31.00 - 33.57 : well brecciated interval with a concentric hydrothermal alteration pattern around each remnant fragment [bleaching, sericitization & chloritization]. Pyrite occurs as thin arborescent veinlets within & around this interval. Strongest alteration is between 32.97 - 33.57.								
	35.60 - 36.27 : 60% core recovery.								
	39.85 - 40.55 : several fracture zones with clayey gouge, oriented 60-70° to core axis, limonitized.								
	41.15 - 42.00 : several small limonitized fractures oriented 60-70° to core axis.								
	42.00 - 44.37 : increasing bleaching & silicification. The fragmental nature of the rock is still apparent but it approaches dacite ↔ rhyolite in appearance.								
	44.37 - 44.92 : rock has now changed from a greenish to a greyish tinge and appears to be rhyolitic in composition. It is brecciated and contains numerous black, often arborescent tourmaline - sulfide stringers (healed fractures) plus traces of tetrahedrite								
* *	44.92 - 45.77 : mineralized interval, brecciated, silica-flooded; contains 5% py as disseminations, blebs, masses & stringers of dirty brass colored material, up to 2% sphalerite as disseminations & masses of red-brown material & up to 1-2% tetrahedrite/galena.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R | Project No: 134 | Depth: | Date Began:
Hole No: AP 2 | Co ord: | Horizontal Length: | Date Completed:
Claim No: | Core Size: | Drilled By:
Grid No: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	45.77 - 48.46 : Fault Zone ; rubbly, fractured silicified bleached andesite fragmental with up to 5% py, tr-1% tetrahedrite/galena & traces of sphalerite & chalcopyrite. Bottom of interval is a fine gravelly rubble.								
*	46.27 - 46.77 : limonitized fractures with core angles of 50-60°.								
	47.27 - 48.46 : no core recovery.								
	48.46 - 55.84 : extremely bleached, silicified & albitized andesite fragmental (resembles rhyolite); contains 2-5% py throughout plus abundant dark arborescent tourmaline-sulfide stringers (py ± tetrahedrite) plus occassional flesh to grey colored coarse crystalline carbonate (ankerite) veinlet up to 20 mm wide oriented 20 - 40° to core axis. Rock also contain talc/sericite along fracture surfaces:								
*	48.46 - 49.00 : 3-5% py, tr tetrahed., tr cpy								
	49.00 - 50.10 : lost core (mislatch)								
*	50.10 - 51.75 : 2-5% py, tr-1% tetrahedrite as masses & fine arborescent stringers.								
	51.75 - 53.50 : ~2% py, tr tetrahed.								
*	53.50 - 55.84 : 3-5% py as stringers & disseminations plus tr sph, gal, & tetrahed generally in thin silicious vnlts.								
	53.50 - 54.86 : healed fractures 60-70°								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 5 of 9

Property: UNUK R | Project No. 134 | Depth | Date Began
Hole No. AP 2 | Co ord. | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
55.84 - 72.20	FAULT ZONE								
	hosted by a light grey, very well silicified, albitized volcaniclastic rock with pervasive thin arborescent black tourmaline - sulfide vnlts plus pyrite as disseminations, blebs, irregular wisps of dirty brass-colored material plus stringers up to 3mm wide oriented at all possible orientations with respect to core axis.								
	55.84 - 56.90 : rubbly, limonitized; contains 2-4% py plus appreciable traces of sphalerite & galena/tetrahedrite (fracture density > 100/m, all possible orientations)								
	56.90 - 57.20 : 2-4% py in a highly fractured sericitized & somewhat kaolinized interval. (fracture density ~10/m, haphazard but a majority trend 60-65° to core axis								
	57.20 - 57.73 : rubbly, limonitized core similar to 55.84-56.90. (> 100 fractures/m)								
	57.73 - 58.53 : section similar to 56.90-57.20, contains 2-4% py plus appreciable traces of sphal, gal & tet. fracturing again is haphazard with many at 60-80° to core axis (~20 fractures/m)								
*	58.53 - 60.05 : overall 5% py plus appreciable traces of tetrahed/gal & sphal, similar to 57.73-58.53. Broken & rubbly between 59.55-60.05 (overall > 100 fractures/m, no preferred orient.)								
	60.05 - 61.30 : 3-5% py plus traces of tet/gal. 60.40 - 60.90 : ankerite vein with py + tet/gal oriented ~ 20° to core axis. (overall ≥ 100 fractures/m)								
*	61.30 - 63.40 : fractured, rubbly interval w up to 10% py plus appreciable tr tet./gal; ~50% core recovery.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 6 of 9

Property: UNUK R. | Project No: 134 | Depth: | Date Began:
Hole No: AP 2 | Co ord: | Horizontal Length: | Date Completed:
Claim No: | Core Size: | Drilled By:
Grid No: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	63.40 - 64.25 : more chloritic interval with 3-5% py ; rubbly toward bottom of interval (overall ~ 100 fractures/m)								
	64.25 - 65.65 : slightly less chloritic interval with 6-8% py as blebs, disseminations & stringers at all orientations with core axis.								
*	65.65 - 66.20 : rubbly, well silicified interval with 5-10% py as disseminations, wisps, stringers & irregular blebs plus appreciable traces & blebs of tet/gal & cpy (overall 50-100 fractures/m)								
* *	66.20 - 66.56 : crushed, well-fractured interval with ~20% overall py as large blebs plus vnlts and 3-5% gal/tet as intergrowths in py; although, for the most part, the core is unbroken, it is severely crushed & haphazardly fractured. (>100 fractures/m)								
*	66.56 - 68.00 : overall ~5% py plus appreciable blebs, disseminations & small stringers of tet/gal, sph & cpy in a very silicified section 66.56 - 67.29 : 10-15 fractures/m. 67.29 - 68.00 : rubbly, ~50 fractures/m, gouge								
* *	68.00 - 68.50 : 10-15% py, 1-2% tet/gal, tr-1% cpy, & 1-2% sph as large blebs, dissems, stringers & wisps. (~20 fractures/m)								
* *	68.50 - 68.87 : 5-10% py, tr-1% gal/tet in a greenish, more chloritic section. (10-15 fractures/m)								
* *	68.87 - 69.37 : rubbly interval w 10-20% py as dissems, large blebs & vnlts up to 1 cm wide plus 1-2% sphal, ~3% gal/tet as intergrowths in py, or as seperate blebs								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 7 of 9

Property: UNUK R | Project No. 134 | Depth | Date Began
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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	& disseminations, this section demonstrates variable degrees of silicification & is very similar to 66.20 - 66.56 even in the degree & nature of fracturing. (50 - 100 fractures /m)								
*	69.37 - 69.77 : rubbly interval of brecciated, silicified vok w abundant tourmaline - sulfide stringers; contains 5-10 % py plus traces of gal/tet. (≥ 100 fractures /m)								
	69.77 - 70.50 : brecciated silicic volcanic w dark tourmaline - sulfide stringers, 1 % py								
	70.50 - 72.20 : sheared debris flow; sheared dark grey volcaniclastic composed of ≥ 50% light colored felsic fragments up to 5 mm dia in a dark grey moderately silicified matrix; occassional fragments up to 30 cm across; contains 3-5% fine dissem. py. 70.90 - 71.40 : rubbly interval w gouge overall 30-50 fractures/m.								
72.20 - 84.94	Dacitic Lithic ("Lenticular") Tuff								
	moderately silicic, grey to greenish grey volcaniclastic rock with darker grey and some cream-colored elongate fragments as well as occassional rounded equant ones which contain embayments & bleached haloes (indicating corrosion by alteration). Alignment of lenticular fragments gives the rock a crude fabric. Occassional albitized sections (small white lathes of albite?). Rock contains 2-4 % disseminated py plus some occassional py stringers up to 2 mm dia.								
	76.00 - 76.27 : sheared qtz - carb - sulfide vein at ~40° to core axis								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 8 of 9

Property: UNUK R | Project No: 134 | Depth: | Date Began:
Hole No: AP 2 | Co ord: | Horizontal Length: | Date Completed:
Claim No: | Core Size: | Drilled By:
Grid No: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	core angle 78.00 m : 30° fabric.								
	77.47 – 78.00 : 5-10% py, darker colored, fabric better developed								
	78.94 – 79.44 : fracture zone, rubbly core, no preferred fracture orient.								
	79.84 – 80.30 : several fractures at steep (70°-90°) core angles plus clayey gouge seams up to 1cm wide.								
84.94 – 94.18	Andesite Lapilli Tuff								
	a somewhat darker grey, moderately silicified, coarse volcaniclastic rock containing equal amounts of angular to rounded lapilli sized andesitic and felsic (cream-colored) fragments in a greyish groundmass. Silicified intervals demonstrate alteration-induced rounding & embayment of fragments analogous to that observed in the preceeding Dacitic "Lenticular" Tuff. Contains 2-4% dissem. py overall; Top contact gradational; generally no fabric developement:								
*	86.15 – 86.56 : mildly brecciated interval with qtz-carb infilling; 5-10% py as stringers & dissems plus 1% reddish sphal as blebs plus tr gal.								
	88.25 – 93.10 : somewhat more silicified, lighter grey interval:								
	88.25 – 88.55: fracture zone, broken rubbly core & clayey gouge.								
	89.72 – 90.15 : fracture zone, broken core, numerous fractures at 40-60° to core axis.								
	91.20 – 92.10 : fault, broken rubbly core; ~50% core recovery								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 9 of 9

Property: UNUK R. | Project No. 134 | Depth | Date Began
Hole No. AP 2 | Co ord. | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
94.18 – 115.52	Sheared Dacite Lapilli Tuff								
	a greyish crudely banded mildly to moderately well foliated coarse volcaniclastic rock consisting of stretched lapilli-sized felsic volcanic clasts in a greyish colored finer grained groundmass; mildly chloritized & sericitized; overall contains 1-3% py as dissems, concordant & discordant thin dilational stringers. Discordant stringers are typically oriented 60-80° to core axis. Minor albitization (occassional white euhedral feldspar porphyroblasts)								
	96.83 – 99.30 : more intensely sheared & sericitized section; approaches a qtz-sericite schist.								
	99.30 – 101.30 : brecciated interval w/ numerous cross-cutting qtz-carb ± (tourm) - sulfide vnlts up to ~ 3 cm wide at steep core angles (45-80°). Contains 5-7% py as stringers & disseminations.								
	core angle 96.83 m : 25° fol.								
	" 99.30 m : 25° fol.								
	" 103.00 m : 20° fol.								
	" 105.50 m : 20° fol.								
	" 109.20 m : 22° fol.								
	" 112.20 m : 22° fol.								
	" 115.52 m : 20° fol.								
	112.90 – 113.40 : Fault; broken rubbly core plus 2cm of clayey gouge; core angles ~ 20°.								
115.52	END OF HOLE								
	Dip test : 45° corrected at 115.52 m.								

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property	UNUK R	Project No.	134	Depth	115.52 m	Date Began	Sept 21/89
Hole No.	AP 2	Co ord.	1300 N	Horizontal Length		Date Completed	Sept 24/89
Claim No.	UNUK 14		1043 E	Core Size	NQ	Drilled By	Van Alphen Drilling
Grid No.	AP	Angle & Direction	-45°/GridW	Elevation		Logged By	B. Gaboury

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au. g/t	Ag.	Cu.	Zn.		WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag.	Cu.	Zn	
0 - 1.22	casing	1.22	—												—				
1.22 - 1.72	130 V	.50	.02																
1.72 - 2.32	131 V	.60	.02																
2.32 - 3.14	132 V	.82	.01																
3.14 - 3.64	133 V	.50	.09																
3.64 - 4.04	134 V	.40	.03																
4.04 - 4.64	135 V	.60	.02																
4.64 - 5.04	136 V	.40	.03																
5.04 - 5.24	137 V	.20	.02																
5.24 - 5.79	138 V	.55	.03																
5.79 - 6.29	139 V	.50	.03																
6.29 - 7.00	140 V	.71	.01																
7.00 - 7.36	141 V	.36	.12																
7.36 - 8.00	142 V	.64	.02																
8.00 - 8.50	143 V	.50	.01																
8.50 - 9.00	144 V	.50	.01																
9.00 - 9.50	145 V	.50	.02																
9.50 - 10.00	146 V	.50	.01																
10.00 - 10.50	147 V	.50	.01																
10.50 - 11.00	148 V	.50	.02																
11.00 - 11.50	149 V	.50	.01																
11.50 - 12.00	150 V	.50	—																
12.00 - 12.50	1 G	.50	.04																
12.50 - 13.00	2 G	.50	.02																
13.00 - 13.50	3 G	.50	.03																
13.50 - 14.00	4 G	.50	.09																
14.00 - 14.50	5 G	.50	.04																
14.50 - 15.00	6 G	.50	.09																
15.00 - 15.50	7 G	.50	.03																
15.50 - 16.00	8 G	.50	.03																
16.00 - 16.50	9 G	.50	.03																
16.50 - 17.00	10 G	.50	.06																
17.00 - 17.50	11 G	.50	.03																
17.50 - 18.00	12 G	.50	.03																
18.00 - 18.50	13 G	.50	.03																
18.50 - 18.75	14 G	.25	.01																
18.75 - 26.00	waste	7.25	—																
26.00 - 26.50	15 G	.50	.01																
26.50 - 27.00	16 G	.50	.01																
27.00 - 27.50	17 G	.50	.01																

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

Property: UNUK R | Project No: 134 | Depth | Date Began
Hole No: AP 2 | Co ord. | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Direction | Elevation | Logged By

INTERVAL FEET/(METRES)	NUMBER	WIDTH	Au g/t	Ag.	Cu.	Zn.		WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag.	Cu	Zn	
27.50 - 28.00	18 G	.50	.01																
28.00 - 28.35	19 G	.35	.02																
28.35 - 28.65	20 G	.30	.02																
28.65 - 28.90	21 G	.25	.01																
28.90 - 29.50	22 G	.60	.01																
29.50 - 30.00	23 G	.50	.01																
30.00 - 30.50	24 G	.50	.01																
30.50 - 31.00	25 G	.50	.01																
31.00 - 31.50	26 G	.50	.01																
31.50 - 32.00	27G	.50	.01																
32.00 - 32.57	28G	.57	.01																
32.57 - 32.97	29 G	.40	.03																
32.97 - 33.57	30 G	.60	.02																
33.57 - 34.07	31 G	.50	.01																
34.07 - 34.60	32 G	.53	.01																
34.60 - 35.10	33 G	.50	.02																
35.10 - 35.60	34 G	.50	.02																
35.60 - 36.27	35 G	.67	.01																
36.27 - 36.77	48 G	.50	.02																
36.77 - 37.40	36 G	.63	.01																
37.40 - 38.00	37G	.60	.03																
38.00 - 38.50	38G	.50	.02																
38.50 - 39.00	39 G	.50	.01																
39.00 - 39.46	40 G	.46	.01																
39.46 - 39.85	41 G	.39	.01																
39.85 - 40.35	42 G	.50	.03																
40.35 - 40.55	43 G	.20	.01																
40.55 - 41.15	44G	.60	.01																
41.15 - 41.50	45 G	.35	.13																
41.50 - 42.00	46 G	.50	.01																
42.00 - 42.45	47 G	.45	.01																
42.45 - 42.90	49 G	.45	.03																
42.90 - 43.40	50 G	.50	.02																
43.40 - 43.80	51 G	.40	.01																
43.80 - 44.37	52 G	.57	.01																
44.37 - 44.92	53 G	.55	.01																
44.92 - 45.42	54 G	.50	.12																
45.42 - 45.77	55 G	.35	.07																
45.77 - 46.27	58 G	.50	.08																
46.27 - 46.77	56 G	.50	.09																

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

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Property: UNUK R | Project No: 134 | Depth | Date Began

Hole No: AP 2 | Co ord | Horizontal Length | Date Completed

Claim No | Core Size | Drilled By

Grid No | Angle & Direction | Elevation | Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag.	Cu.	Zn.		WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu	Zn	
46.77 - 47.27	57 G	.50	.05																
47.27 - 48.46	No recov.	1.19	—																
48.46 - 49.00	59 G	.54	.08																
49.00 - 50.10	lost core	1.10	—																
50.10 - 50.60	60 G	.50	.04																
50.60 - 50.90	61 G	.30	.01																
50.90 - 51.40	62 G	.50	.01																
51.40 - 51.75	63 G	.35	.01																
51.75 - 52.25	64 G	.50	.03																
52.25 - 52.75	66 G	.50	.01																
52.75 - 53.25	65 G	.50	.01																
53.25 - 53.50	67 G	.25	.01																
53.50 - 54.00	68 G	.50	.01																
54.00 - 54.56	69 G	.56	.02																
54.56 - 55.16	70 G	.60	.03																
55.16 - 55.51	71 G	.35	.02																
55.51 - 55.84	83 G	.33	.04																
55.84 - 56.14	72 G	.30	.01																
56.14 - 56.54	73 G	.40	.04																
56.54 - 56.90	74 G	.36	.01																
56.90 - 57.20	75 G	.30	.04																
57.20 - 57.73	76 G	.53	.08																
57.73 - 58.19	77 G	.46	.04																
58.19 - 58.53	78 G	.34	.04																
58.53 - 59.05	79 G	.52	.10																
59.05 - 59.55	80 G	.50	.19																
59.55 - 60.05	81 G	.50	.06																
60.05 - 60.40	82 G	.35	.06																
60.40 - 60.90	84 G	.50	.04																
60.90 - 61.30	85 G	.40	.01																
61.30 - 61.87	86 G	.57	.03																
61.87 - 62.53	87 G	.66	.08																
62.53 - 62.90	88 G	.37	.06																
62.90 - 63.40	89 G	.50	.03																
63.40 - 63.80	90 G	.40	.05																
63.80 - 64.25	91 G	.45	.03																
64.25 - 64.55	92 G	.30	.14																
64.55 - 65.05	93 G	.50	.02																
65.05 - 65.30	94 G	.25	.02																
65.30 - 65.65	95 G	.35	.01																

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property: UNUK R | Project No: 134 | Depth | Date Began
Hole No: AP2 | Co ord | Horizontal Length | Date Completed
Claim No | Core Size | Drilled By
Grid No. | Angle & Direction | Elevation | Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au. g/t	Ag. PPM	Cu. PPM	Zn. PPM	Pb PPM	WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag	Cu.	Zn
65.65 - 66.20	96 G	.55	.01															
66.20 - 66.56	97 G	.36	.01	24.5	561	11719	10659											
66.56 - 67.04	98 G	.48	.03	3.5	145	522	527											
67.04 - 67.29	100 G	.25	.02															
67.29 - 67.65	151 G	.36	.02															
67.65 - 68.00	152 G	.35	.03	6.7	142	4190	2867											
68.00 - 68.50	153 G	.50	.03	14.3	375	14093	5467											
68.50 - 68.87	154 G	.37	.03	1.0	56	192	156											
68.87 - 69.37	155 G	.50	.06	64.1	1939	21464	16883											
69.37 - 69.77	156 G	.40	.05	1.5	34	2383	804											
69.77 - 70.50	157 G	.73	.03															
70.50 - 70.90	158 G	.40	.01															
70.90 - 71.40	159 G	.50	.04															
71.40 - 71.90	160 G	.50	.02															
71.90 - 72.20	161 G	.30	.01															
72.20 - 72.75	162 G	.55	.01															
72.75 - 73.25	163 G	.50	.01															
73.25 - 73.75	164 G	.50	.03															
73.75 - 74.25	165 G	.50	.01															
74.25 - 74.75	166 G	.50	.01															
74.75 - 75.25	167 G	.50	.01															
75.25 - 76.00	168 G	.75	.01															
76.00 - 76.27	169 G	.27	.03															
76.27 - 76.87	170 G	.60	.02															
76.87 - 77.47	171 G	.60	.01															
77.47 - 78.00	172 G	.53	.01															
78.00 - 78.50	173 G	.50	.01															
78.50 - 78.94	174 G	.44	.02															
78.94 - 79.44	175 G	.50	.02															
79.44 - 79.84	176 G	.40	.02															
79.84 - 80.30	177 G	.46	.01															
80.30 - 80.80	178 G	.50	.01															
80.80 - 81.30	179 G	.50	.01															
81.30 - 81.99	180 G	.69	.01															
81.99 - 82.61	181 G	.62	.01															
82.61 - 83.30	182 G	.69	.02															
83.30 - 83.82	183 G	.52	.01															
83.82 - 84.32	184 G	.50	.02															
84.32 - 84.94	185 G	.62	.04															
84.94 - 86.15	186 G	.21	.01															

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

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Property: UNUK R | Project No. 134 | Depth | Date Began

Hole No. AP 2 | Co ord | Horizontal Length | Date Completed

Claim No | Core Size | Drilled By

Grid No. | Angle & Direction | Elevation | Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au. g/t	Ag.	Cu.	Zn.		WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu	Zn	
86.15 - 86.56	187 G	.41	.02																
86.56 - 87.08	188 G	.52	.04																
87.08 - 87.58	189 G	.50	.03																
87.58 - 88.25	190 G	.67	.06																
88.25 - 88.55	191 G	.30	.02																
88.55 - 89.10	192 G	.55	.01																
89.10 - 89.72	193 G	.62	.02																
89.72 - 90.15	194 G	.43	.01																
90.15 - 90.65	195 G	.50	.26																
90.65 - 91.20	196 G	.55	.03																
91.20 - 92.10	197 G	.90	.01																
92.10 - 92.60	198 G	.50	.02																
92.60 - 93.10	199 G	.50	.02																
93.10 - 93.60	200 G	.50	.07																
93.60 - 94.18	101 G	.58	.01																
94.18 - 94.68	102 G	.50	.01																
94.68 - 95.18	103 G	.50	.01																
95.18 - 95.68	104 G	.50	.01																
95.68 - 96.28	105 G	.60	.02																
96.28 - 96.83	106 G	.55	.01																
96.83 - 97.38	107 G	.55	.01																
97.38 - 97.90	108 G	.52	.01																
97.90 - 98.45	109 G	.55	.04																
98.45 - 98.95	110 G	.50	.01																
98.95 - 99.30	111 G	.35	.01																
99.30 - 99.80	112 G	.50	.01																
99.80 - 100.28	113 G	.48	.01																
100.28 - 100.80	114 G	.52	.02																
100.80 - 101.30	115 G	.50	.01																
101.30 - 101.90	116 G	.60	.02																
101.90 - 111.50	waste	9.60	—																
111.50 - 112.00	117 G	.50	.01																
112.00 - 112.47	118 G	.47	.01																
112.47 - 112.90	119 G	.43	.01																
112.90 - 113.40	120 G	.50	.01																
113.40 - 113.90	121 G	.50	.01																
113.90 - 115.52	waste	1.62	—																
115.52	E.O.H.																		

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R | Project No.: 134 | Depth: 115.52 | Date Began: Sept 25/89
Hole No.: AP 3 | Co ord: 1175 N | Horizontal Length: | Date Completed: Sept 27/89
Claim No.: UNUK 14 | 988 E | Core Size: NQ | Drilled By: Van Alphen Drilling
Page: 1 of 5 | Grid No: AP | Angle & Grid Direction: -45°/Grid W | Elevation: | Logged By: B. Gabovry

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - 1.524	Casing.								
1.524 - 10.15	Debris Flow								
	a relatively coarse clastic rock composed of ~40-50% felsic volcanic clasts, ~20% andesitic volcanic clasts & 5-10% dark lithic clasts in a dark grey fine grained matrix. Clasts are subrounded to angular and generally vary up to 5 cm diameter although occassional boulder sized fragments (in excess of 30 cm) are encountered. Overall contains 1-2% disseminated py. The rock has a very crude fabric by virtue of alignment of some elongate clasts:								
	8.84 - 9.25 : Fault ; crushed and rubbly, bleached, sericitized fragmental rock plus a 1cm wide section of gouge. Contains 1-3% fine dissem py overall (≥100 fractures/m, no preferred orientation).								
	9.25 - 10.15 : bleached, silicified, brecciated ; contains up to 10% py as disseminations, stringers & irregular masses up to 1cm across near bottom contact.								
10.15 - 17.98	Andesite flow breccia								
	A dark to khaki green chloritic fine grained intermediate volcanic with occassional amygdaloidal sections (carb-sil-py filled). The rock is autobrecciated and contains (generally near the upper contact) short, irregular intercalations of tuffaceous material or debris flow, up to ~50 cm wide. Occassional hydrothermally altered bleached lighter green intervals [embayed breccia frags w/ haloes.]								
	16.50 - 17.98 : debris flow intercalation.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R | Project No.: 134 | Depth: | Date Began:
Hole No: AP 3 | Co ord.: | Horizontal Length: | Date Completed:
Claim No.: | Core Size: | Drilled By:
Page: 2 of 5 | Grid No.: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
17.98 - 34.75	Andesite								
	A greenish, fine grained occassionally amygdaloidal volcanic rock containing minor qtz vnlts (≤ 2 mm wide) at all possible orientations, ~ 1% py overall as disseminations & minor stringers:								
*	32.30 - 32.55 : brecciated zone with several thin py - gal - sph vnlts at 45° - 80° to core axis; overall contains 5% py & 1-2% gal ± sph.								
34.75 - 115.52	Debris Flow								
	very similar to 1.52 - 10.15; contains occassional andesitic & dacitic blocks up to 1 m across, overall 2-4% py as disseminations, concordant & discordant stringers up to ~ 3 mm wide:								
	42.37 - 43.61 : 5 cm wide irregular py vnlts with a bleached silicified upper selvage.								
	48.95 - 53.15 : bleached, brecciated section of andesite 51.83 - 53.15 : ~ 3% py mainly in qtz - carb - py stockworks.								
*	53.15 - 54.97 : 7-10% py as blebs & stringers as well as disseminations. Numerous stringers are oriented ~ 50° to core axis & have enveloping brize to light grey ankerite.								
* *	54.97 - 55.70 : brecciated silica - flooded interval with 7-10% py, tr-1% aspy, tr gal and abundant ankerite.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	55.70 - 57.50 : Fault, brecciated debris flow with abundant ankerite; contains 1-3% py as disseminations & wispy stringers along anastomosing shears; very brecciated, rubbly near lower contact (~50 fractures/m)								
	57.50 - 58.52 : brecciated and rubbly black fine grained argillite with 2-4% py overall, mainly as stringers of qtz-py up to 3 mm wide generally oriented ~45° to core axis								
	57.50 - 58.00 : 3-5% py								
	58.00 - 58.52 : rubbly with gouge, 1-3% py								
	58.52 - 61.80 : mildly sheared & bleached debris flow w 3-5% fine disseminated py plus thin wispy stringers along shearing.								
	61.80 - 63.13 : sheared, bleached & silicified debris flow; contains abundant fine black tourmaline-sulfide stockworks, 3-5% py & overall 2% aspy as euhedral to sub'hedral crystals, irregular disseminations & some short wispy stringers.								
	70.80 - 71.95 : andesite band, sheared lower contact at ~30° to core axis.								
	74.43 - 75.60 : 3 cm wide anastomosing qtz-py stringer that follows core axis.								
	75.23 - 78.54 : andesite band; fine grained, khaki green with minor darker green chloritic blebs; <1% py.								
	79.94 - 80.34 : limonitic fracture zone, rubbly broken core.								
	80.97 - 81.40 : limonitic fracture zone, numerous fractures at								

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DIAMOND DRILL LOG

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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	60-70° to core axis, minor clayey gouge								
	82.75 - 88.59 : Fault Zone ; series of rubbly broken sections & fractures with white clayey gouge ; the debris flow in this zone carries 1-2% disseminated py. A large number of fractures are oriented 60-80° to core axis.								
	82.75 - 83.55 : rubbly broken core plus clayey gouge.								
	83.55 - 85.04 : narrow gouge seams (≤ 1cm wide) along fractures at ~65° to core axis								
	86.65 - 87.69 : crushed, broken core with gouge.								
	88.09 - 88.59 : same as 86.65 - 87.69								
	91.13 - 91.53 : Minor Fault, crushed and broken core with two 2cm wide seams of gouge.								
	102.11 - 105.24 : band of silicified, brecciated andesite; bleached light to khaki green, fine grained with some coarse fragmental sections, occassional silicified shears ≤ 2cm wide oriented ~60-65° to core axis:								
	102.46 - 105.24 : fairly intensely brecciated, contains heavy qtz - carb stockworks with 2-4% py as disseminations, breccia fragment encrustations, & occassional stringers; heaviest py mineralization occurs between 104.46 - 105.24								

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Hole No. AP3 | Co ord. | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	105.24 - 105.74 : mildly sheared debris flow with 2-4 % disseminated py.								
115.52	End of Hole.								
	Core angles								
	5.00 m : 40° crude fabric								
	8.84 m : 55° crude fabric								
	34.75 m : 55° mild foliation								
	36.20 m : 55° foliation								
	40.50 m : 63° sheared silicious section.								
	47.44 m : 30° mild shearing.								
	52.43 m : 40° mild shearing.								
	59.50 m : 43° mild shearing.								
	83.55 m : 65° fractures in fault zone.								
	102.11 m : 60-65° silicified shears								
	105.24 m : 45° mild shearing.								
	Dip test : 45° corrected. at 109.42 m.								

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property	UNUK R.	Project No	134	Depth	115.52 m
Hole No	AP 3	Co ord	1175 N 988 E	Horizontal Length	
Claim No.	UNUK 14			Core Size	NQ
Grid No	AP	Angle & Direction	-45°/GridW	Elevation	

Date Began: Sept 25/89
Date Completed: Sept 27/89
Drilled By: Van Alphen Drilling
Logged By: B. Gaboury

INTERVAL FEET/METRES	NUMBER	WIDTH	Au g/t	Ag. g/t	Cu ppm	Zn. ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn
0 - 1.52	casing	1.52	—															
1.52 - 8.34	waste	6.82	—															
8.34 - 8.84	122 G	.50	.01															
8.84 - 9.25	123 G	.41	.04															
9.25 - 9.70	124 G	.45	.01															
9.70 - 10.15	125 G	.45	.16															
10.15 - 10.65	126 G	.50	.11															
10.65 - 11.10	127 G	.45	.01															
11.10 - 11.59	128 G	.49	.03															
11.59 - 31.80	waste	20.21	—															
31.80 - 32.30	129 G	.50	.02															
32.30 - 32.55	130 G	.25	.58	11.1	52	5591	10280											
32.55 - 33.05	131 G	.50	.02	.8	11	1093	43											
33.05 - 33.55	132 G	.50	.01															
33.55 - 34.25	133 G	.70	.01															
34.25 - 34.75	134 G	.50	.06															
34.75 - 41.87	waste	7.12	—															
41.87 - 42.37	135 G	.50	.01															
42.37 - 43.61	136 G	1.24	.04															
43.61 - 44.11	137 G	.50	.02															
44.11 - 51.30	waste	7.19	—															
51.30 - 51.83	138 G	.53	.11															
51.83 - 52.43	139 G	.60	.11															
52.43 - 53.15	140 G	.72	.04															
53.15 - 53.70	141 G	.55	.06															
53.70 - 54.47	142 G	.77	.08															
54.47 - 54.97	143 G	.50	.14															
54.97 - 55.47	144 G	.50	.50	4.3	13	566	806											
55.47 - 55.70	145 G	.23	.56	1.9	11	705	391											
55.70 - 56.30	146 G	.60	.06	1.5	9	212	64											
56.30 - 57.15	147 G	.85	.12	1.9	58	1268	368											
57.15 - 57.50	148 G	.35	.08	1.1	18	1281	84											
57.50 - 58.00	149 G	.50	.26															
58.00 - 58.52	150 G	.52	.07															
58.52 - 59.00	AP 1	.48	.05															
59.00 - 59.50	AP 2	.50	.11															
59.50 - 60.00	AP 3	.50	.02															
60.00 - 60.50	AP 4	.50	.01															
60.50 - 61.00	AP 5	.50	.01															
61.00 - 61.45	AP 6	.45	.01															

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

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Hole No. AP 3 | Co ord. | Horizontal Length | Date Completed

Claim No. | Core Size | Drilled By

Grid No. | Angle & Direction | Elevation | Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au. g/t	Ag. g/t	ppm Cu. ppm	ppm Zn. ppm	ppm Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag.	Cu.	Zn
61.45 - 61.80	AP7	.35	.01															
61.80 - 62.30	AP8	.50	.03															
62.30 - 62.75	AP9	.45	.04															
62.75 - 63.13	AP10	.38	.07															
63.13 - 63.63	AP11	.50	.04															
63.63 - 64.20	AP12	.57	.02															
64.20 - 73.93	waste	9.73	—															
73.93 - 74.43	AP13	.50	.28															
74.43 - 75.03	AP 14	.60																
75.03 - 75.60	AP 15	.57	.08															
75.60 - 76.30	AP 16	.70	.08															
76.30 - 82.25	waste	5.95	—															
82.25 - 82.75	AP 17	.50	.02															
82.75 - 83.10	AP 18	.35	1.28															
83.10 - 83.55	201 G	.45	.01															
83.55 - 84.00	210 G	.45	.15															
84.00 - 85.04	202 G	1.04	.03															
85.04 - 85.75	203 G	.71	.01															
85.75 - 86.25	204 G	.50	.02															
86.25 - 86.85	205 G	.60	.03															
86.85 - 87.48	206 G	.63	.06															
87.48 - 88.09	207 G	.61	.04															
88.09 - 88.59	208 G	.50	.13															
88.59 - 89.19	209 G	.61	.05															
89.19 - 101.96	waste	12.77	—															
101.96 - 102.46	211 G	.50	.03															
102.46 - 102.96	212 G	.50	.04															
102.96 - 103.46	213 G	.50	.03															
103.46 - 103.96	214 G	.50	.01															
103.96 - 104.46	215 G	.50	.11															
104.46 - 104.86	216 G	.40	.08	1.5	14	1022	13											
104.86 - 105.24	217 G	.38	.09	3.6	21	2161	30											
105.24 - 105.74	218 G	.50	.86															
105.74 - 106.38	219 G	.64	.31															
106.38 - 106.88	220 G	.50	.41															
106.88 - 107.38	221 G	.50	.05															
107.38 - 115.52	waste	8.14	—															
115.52	EOH																	

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GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R | Project No.: 134 | Depth: 121.62 m | Date Began: Sept 28/89
Hole No.: AP 4 | Coord.: 1450 N | Horizontal Length: | Date Completed: Oct 2/89
Claim No: UNUK 14 | 1054 E | Core Size: NQ | Drilled By: Van Alphen Drilling
Page: Page 1 of 9 | Grid No.: AP | Angle & Grid Direction: -45°/Grid W | Elevation: 1430 m | Logged By: B. Gabory

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - .91	casing								
.91 - 17.98	Lithic Dacite Tuff ("Lenticular Tuff")								
	a light grey moderately silicic volcaniclastic consisting largely of lapilli-sized felsic volcanic fragments in a very fine grained grey groundmass. Contains up to 20% khaki green colored stretched sericitized fragments which, by virtue of their alignment, give the rock a fabric. Also contains abundant cross-cutting fine black tourmaline-sulfide veinlets, 2-4% py ± aspy as silvery euhedral crystals or as dirty steel colored masses often with fine tendrils or as wispy stringers up to 2mm wide:								
	.91 - 3.05 ; blocky, broken & weathered, ~40% recovery								
	3.05 - 6.10 ; ~2% py + 1-2% aspy, minor limonitized fractures.								
	6.10 - 6.30 ; fracture zone ; 5-10% py.								
	9.30 - 9.59 ; 3-5% py ± aspy, tr gal/tet ; fractured & crushed core w 1cm wide pyritic silicified shear w gal/tet ; numerous unhealed fractures but core is relatively in tact.								
	9.59 - 10.55 ; 3-5% py, tr aspy.								
	10.55 - 12.60 ; 1-3% py, tr aspy ; gradational increase in frequency of occurrence of black tourm-sulfide vnlts.								
	12.60 - 14.01 ; 2-4% py, 1-2% aspy, moderately intense tourm-sulfide vnlts:								
	13.78-14.01 : mild shearing at ~55° to core axis.								
*	14.01 - 14.50 ; 10% py + aspy, intense tourm-sulfide vnlts, 3cm wide clay-sand gouge seam at 14.30								
	C.A. 14.30 m : 50° shearing.								
	14.50 - 15.74 ; 5-10% py+aspy mainly in thin wispy stringers.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R. | Project No: 134 | Depth | Date Began
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INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
*	15.74 - 16.27 ; Fault ; blocky, broken interval of sheared, somewhat silicified dacite plus a 1 cm wide seam of clayey gouge at 16.27, fabric due to parallel thin py vnlts & tourm-sulfide vnlts ; contains 7-10% py + aspy overall. CA's vary from 60-80° : shearing.								
	16.27 - 17.20 ; silicified, foliated somewhat finer grained section with practically no sericitic lenses ; 2-4% py + aspy overall. CA's 50-60° : foliation.								
17.98 - 23.75	Debris Flow								
	20-40% angular to subrounded felsic volcanic clasts up to ~5cm diameter in a dark grey to black, fine grained argillitic matrix ; overall contains 2-4% py as disseminations, thin wisps & as pseudomorphs after some fragments, weakly foliated ; upper contact gradational.								
	C.A. 17.98 : 33° foliation // bedding.								
	19.38 - 21.03 ; Fault Zone ; limonitized rubbly, broken core plus clayey gouge ; large number of fractures are oriented 45-60° to core axis, overall contains 2-4% py ~66% core recovery, 50-100 fractures/m (fracture density) at all possible orientations.								
	21.03 - 23.28 ; well foliated section with smaller (generally <1 cm diameter) fragments in a light grey matrix.								
	C.A. 21.28 : 55° foliation.								
	23.28 - 23.75 ; band of silicified argillite with minor thin qtz vnlts ; 3-5% py as disseminations & thin short stringers.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 3 of 9

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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
23.75 - 32.80	Altered Dacite								
	a sheared, brecciated, mottled grey & khaki green alternately silicified & sericitized felsic volcanic containing 2-5% py ± aspy as disseminations, wisps & stringers of more silvery colored rather than brassy colored py. Sericitic patches (khaki colored) are well sheared and have a translucent, waxy appearance. Greyer silicic portions are untoliated with a conchoidal to hackly fracture. Both portions bear abundant thin haphazardly oriented tourm-sulfide (often arborescent) vnlts plus small white, lathe-shaped crystals of feldspar probably produced through albitization.								
	23.75-25.22: mildly sheared section with 1-2% dissem py; generally has the appearance of a more sheared version of the "lenticular tuff".								
	CA 25.00 m : 40° foliation ≈ shearing.								
	25.22 - 26.80 : similar to 23.75 - 25.22 but with more abundant small bands of grey silicified material; contains 2-3% dissem. py.								
	CA 26.40 m : 43° foliation ≈ shearing.								
*	26.80 - 27.22 : sheared, contorted, silicified section with abundant tourm-sulfide vnlts & 7-10% py as disseminations, blebs (within thin qtz-vnlts generally oriented 60-80° to core axis which are usually ≤ 5 mm dia.) tracture density 10-20 fractures/m.								
**	27.22 - 27.70 : qtz-py vein; a fractured & rubbly white qtz vein with 15% py overall, generally as irregular masses & fractured blebs. The core is somewhat fractured with a density of 50-100 fractures/m and core recovery is ~ 80%								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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Property: UNUK R | Project No. 134 | Depth | Date Began
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INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
*	27.70 - 28.20 : 8-12% py within a very contorted, silicified, fractured section. ~80% core recovery, fracture density ~ 50-100 fractures/m.								
	28.20 - 29.57 : Fault ; interval of small pebbles of silicious material similar to 27.70-28.20 which overall contains 5-7% py. fracture density >> 100 fractures/m, ~ 25% core recovery.								
	29.57 - 30.30 : contorted, silicified ↔ sericitized (mottled, patchy appearance as in interval 23.75-25.22), contains 3-5% py as disseminations, blebs in thin qtz vnlts & as wispy stringers.								
*	30.30 - 30.82 : similar to 29.57-30.30, contains 3-5% py+aspy								
*	30.82 - 32.54 : 3-5% py+aspy plus traces of sph & gal/tet in a silicified & contorted section.								
*	32.54 - 32.80 : 3-5% py+aspy, similar to 30.82 - 32.54								
32.80 - 66.00	Debris Flow								
	Up to 40% dacitic volcanic fragments (subrounded to angular), up to 5 cm dia in a black argillitic (sometimes graphitic) matrix. Overall contains ~5% py mainly as large blebs & pseudomorphs after fragments. Rock is somewhat sheared:								
	32.80 - 33.32 : brecciated contact with sheared & altered dacite.								
	C.A. : 33.50 m : 26° shearing.								
	33.72 - 34.10 : silicified dacite fragments up to 10 cm across constitute 25% of this interval; contains cross-cutting qtz-carb vnlts ≤ 2 cm dia, overall contains 3-5% py (minimal py in qtz-carb vnlts)								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R. | Project No: 134 | Depth: | Date Began:
Hole No: AP4 | Co ord: | Horizontal Length: | Date Completed:
Claim No: | Core Size: | Drilled By:
Grid No: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	C.A. 34.52 m : 30° shearing								
**	34.94 - 36.37 : contorted, sheared & silicified coarse debris flow containing ≥ 50% dacite fragments, overall 4-6% py, tr aspy, tr gal/tet, tr sph. The interval is fairly fractured & splintery with a fracture density of ~50/m with numerous fractures oriented downcore axis.								
	36.37 - 40.30 : FAULT ZONE ; very fractured, rubbly broken debris flow with graphitic argillite sections up to 10 cm wide!								
	36.37 - 38.40 : numerous thin graphitic gouge sections ; 20-50 fractures/m generally oriented 40° - 50° to core axis.								
	38.40 - 40.30 : very broken section with clayey gouge seams up to 4 cm wide ; >100 fractures/m at all orientations, 50% recovery.								
	40.82 - 41.47 : two 15 cm long bleached, silicified sections with abundant tourm-sulfide vnlts, ~5% py.								
	42.08 - 42.98 : greenish grey, sheared & sericitized ; 3-5% dissem py with tr aspy, some cross-cutting tourm-sulfide vnlts, plus occassional concordant (w shearing) silicified bands up to ~3 cm wide ; crushed, rubbly, broken core near bottom of this interval.								
	C.A. 41.40 ; 40° shearing								
	C.A. 44.00 ; 40° shearing.								
	43.58 - 45.02 : brecciated, bleached & sericitized interval somewhat similar to 42.08 - 42.98 but not quite								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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Property: UNUK R. | Project No: 134 | Depth | Date Began
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Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	as sheared. Contains ~5% py as blebs, irregular masses & disseminations.								
	44.18 - 45.02 : rubbly, broken core ≥ 100 fractures/m generally oriented 35°-40° to core axis.								
	46.28 - 51.60 : FAULT ZONE								
	46.28 - 48.46 : splintered, rubbly, broken, sericitic material plus gouge with 3-5% py mainly as blebs. Fracturing is generally parallel to foliation (30°-40° to core axis). 25-30% core recovery.								
*	48.46 - 48.71 : pebbly interval in a silicified grey dacitic (?) host, contains ~10% with traces of gal/tet & sph.								
**	48.71 - 50.80 : pebbly interval with 20% of pebbles being massive py with 2-5% gal/tet & tr-2% sph; includes an 8 cm length of massive py, an 11 cm length of massive py with 1-2% gal/tet and a 6 cm length of semi-massive py with 5-7% gal/tet & 1-2% sph.; remainder of pebbles is a dark grey silicic volcanic with ~10% dissem py & traces of gal/tet & sph. Overall the interval contains 25% py, 1% gal/tet & tr sph. >> 100 fractures/m with all orientations.								
	50.80 - 51.20 : very bleached, crushed & fractured debris flow containing 12-15% py as blebs, irregular large masses, & short, thin dirty colored stringers.								

GRANGES EXPLORATION LTD.
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INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	; some gouge coatings on some fracture surfaces. Fracturing is haphazard & fracture density 50 - 100 /m.								
	51.20 - 51.60 : rubbly, slightly bleached interval with one 2 cm wide gouge seam & one 5mm gouge seam.								
	51.60 - 52.80 : debris flow with dark graphitic argillite matrix; contains ~ 10% py as disseminations, pseudomorphs after fragments & as blebs in qtz - carb stringers (≤ 5mm diameter, high (>60°) core angles) & as thin stringers concordant with fabric.								
	CA 54.60 m : 40° shearing.								
	55.50 - 57.91 : bleached, sericitized; shearing is slightly more intense & appears to be at lower CA's (~ 20° to core axis), 3-5% py as disseminations & short stringers.								
	57.91 - 61.65 : FAULT ZONE								
	57.91 - 59.80 : rubbly grey sericitic with gouge seams, contains ~5% py mainly as disseminations. Fracturing is haphazardly oriented but several fractures occur at low angles. Fracture density > 100/m; 25% core recovery.								
**	59.80 - 60.25 : ~ 25 cm of broken rubbly massive py with ~2% gal/tet + sph plus ~ 20 cm of graphitic gouge; ~50% core recovery.								
	60.25 - 61.00 : fractured, broken core plus graphitic gouge; overall contains 7-10% py as thin contorted stringers, disseminations & pseudomorphs after fragments, short (≤ 10cm long) intervals of graphitic argillite. CA's 70°-90° (shearing)								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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Property: UNUK R | Project No. 134 | Depth | Date Began
Hole No. AP 4 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	61.00 - 61.40 : pebbly interval of grey silicic material w semi-massive sulfides ; 30-40%								
**	of pebbles are massive py with 5% gal/tet + sph , some graphitic gouge.								
	61.40 - 61.65 : splintery graphitic argillite rubble plus graphitic gouge.								
	62.15 - 64.85 : graphitic argillite ; black , fine grained with minor very thin white qtz-carb vnlts ; overall contains 2-3% py as blebs & fine concordant laminae , 2cm wide shear at 62.65 .								
	CA 63.50 : 20° fol ≈ bedding (?)								
	64.85 - 65.30 : Fault , rubbly debris flow with graphitic gouge								
	65.30 - 66.00 : grey silicic dacitic tuff w qtz-carb-py stockworks (comprise ~ 10% of interval) overall 3-5% py as disseminations & blebs.								
66.00 - 84.50	Interbanded Argillite & Siltstone (greywacke composition)								
	banded very fine to fine grained grey to black sedimentary sequence . Individual bands vary from thickness of a few cm to several tens of cm. and demonstrate some mild flexures . Overall contains 1-2% py :								
	66.00 - 66.48 : rubbly graphitic argillite with qtz stockworks .								
84.50 - 105.20	Debris Flow								
	similar to 32.80 - 66.00 but with a greenish to light grey groundmass . Contains dacitic to andesitic vdc. fragments up to ~ 2 cm diameter ; ~ 1% dissem. py overall								
105.20 - 118.10	Interbanded Argillite & Siltstone (as before)								

GRANGES EXPLORATION LTD.

DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R | Project No: 134 | Depth: | Date Began:

Hole No.: AP 4 | Co ord.: | Horizontal Length: | Date Completed:

Claim No.: | Core Size: | Drilled By:

Page 9 of 9 | Grid No.: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
118.10 - 121.62	Debris Flow (as before)								
121.62	End of Hole.								
	Acid test 121.62 m : 40° corrected.								

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property
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INTERVAL FEET/METRES	NUMBER	WIDTH	Au. g/t	Ag. ppm	Cu. ppm	Zn ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag	Cu	Zn
0 - 0.91	CASING	0.91	—															
0.91 - 3.05	222G	2.14	.02	.1	4	236	2											
3.05 - 3.55	223G	0.50	.32															
3.55 - 4.05	224G	0.50	.02															
4.05 - 4.55	225G	0.50	.01															
4.55 - 5.05	226G	0.50	.03															
5.05 - 5.55	227G	0.50	.04															
5.55 - 5.79	228G	0.24	.08															
5.79 - 6.10	229G	0.31	.15															
6.10 - 6.30	230G	0.20	.22															
6.30 - 6.80	231G	0.50	.02															
6.80 - 7.20	232G	0.40	.02															
7.20 - 7.90	233G	0.70	.01															
7.90 - 8.60	234G	0.70	.05															
8.60 - 8.90	235G	0.30	.03															
8.90 - 9.30	236G	0.40	.09															
9.30 - 9.59	237G	0.29	.14	15.4	354	2720	6922											
9.59 - 10.05	238G	0.46	.61															
10.05 - 10.55	239G	0.50	.03															
10.55 - 11.05	240G	0.50	.01															
11.05 - 11.60	241G	0.55	.02															
11.60 - 12.10	242G	0.50	.01															
12.10 - 12.60	243G	0.50	.02															
12.60 - 13.28	244G	0.68	.01															
13.28 - 13.78	245G	0.50	.02															
13.78 - 14.01	246G	033	.12															
14.01 - 14.50	247G	0.49	.20															
14.50 - 14.94	248G	0.44	.04															
14.94 - 15.42	249G	0.48	.07															
15.42 - 15.74	250G	0.32	.04															
15.74 - 16.27	251G	0.53	.03															
16.27 - 16.67	252G	0.40	.01															
16.67 - 17.20	253G	0.53	.15															
17.20 - 17.80	254G	0.60	.02															
17.80 - 18.38	255G	0.58	.03															
18.38 - 18.88	256G	0.50	.03															
18.88 - 19.38	257G	0.50	.04															
19.38 - 20.20	258G	0.82	.02															
20.20 - 21.03	259G	0.83	.05															
21.03 - 21.88	260G	0.85	.03															

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

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INTERVAL FEET/METRES	NUMBER	WIDTH	Au. g/t	Ag. ppm	Cu. ppm	Zn. ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn
21.88 - 22.58	261G	0.70	.07															
22.58 - 23.28	262G	0.70	.03															
23.28 - 23.75	263G	0.47	.06															
23.75 - 24.25	264G	0.50	.01															
24.25 - 24.75	265G	0.50	.08															
24.75 - 25.22	266G	0.47	.01															
25.22 - 25.72	267G	0.50	.05															
25.72 - 26.30	268G	0.58	.03															
26.30 - 26.80	269G	0.50	.06															
26.80 - 27.22	270G	0.42	.06															
27.22 - 27.70	271G	0.48	.19	5.4	67	1357	713											
27.70 - 28.20	272G	0.50	.31	9.0	100	1916	579											
28.20 - 29.57	273G	1.37	.07	1.0	31	497	169											
29.57 - 30.30	274G	0.73	.05															
30.30 - 30.82	275G	0.52	.06															
30.82 - 31.32	276G	0.50	.09															
31.32 - 31.64	277G	0.32	.03															
31.64 - 32.04	278G	0.40	.03															
32.04 - 32.54	279G	0.50	.02															
32.54 - 32.80	280G	0.26	.02															
32.80 - 33.22	281G	0.42	.02															
33.22 - 33.72	282G	0.50	.02															
33.72 - 34.10	283G	0.38	.01															
34.10 - 34.52	284G	0.42	.01															
34.52 - 34.94	285G	0.42	.01															
34.94 - 35.44	286G	0.50	.02															
35.44 - 35.97	287G	0.53	.08															
35.97 - 36.37	288G	0.40	.08															
36.37 - 36.87	289G	0.50	.03															
36.87 - 37.37	290G	0.50	.04															
37.37 - 37.87	291G	0.50	.19															
37.87 - 38.40	292G	0.53	.02															
38.40 - 39.69	293G	1.29	.03															
39.69 - 40.30	294G	0.61	.01															
40.30 - 40.82	295G	0.52	.01															
40.82 - 41.47	296G	0.65	.05															
41.47 - 42.08	297G	0.61	.02															
42.08 - 42.58	298G	0.50	.04															
42.58 - 42.98	299G	0.40	.07															
42.98 - 43.58	300G	0.60	.02															

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

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Hole No: AP 4
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Elevation:
Logged By:

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag. ppm	Cu ppm	Zn. ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH M	Au g/t	Ag ppm	Cu ppm	Zn ppm	Pb ppm	
43.58 - 44.18	301G	0.60	.01																	
44.18 - 45.02	302G	0.84	.05																	
45.02 - 45.80	303G	0.78	.01																	
45.80 - 46.28	304G	0.48	.03																	
46.28 - 47.38	305G	1.10	.07																	
47.38 - 48.46	306G	1.08	.09																	
48.46 - 48.71	307G	0.25	.18																	
48.71 - 49.40	308G	0.69	.72	21.8	610	7730	7484													
49.40 - 50.00	309G	0.60	1.01	76.2	1453	15050	17498							2.09M	1.09	31.4	681	7350	7494	48.71 - 50.80
50.00 - 50.80	310G	0.80	1.48	6.0	164	1248	797													
50.80 - 51.20	311G	0.40	.36	3.2	72	298	459													
51.20 - 51.60	312G	0.40	.36																	
51.60 - 52.20	313G	0.60	.28																	
52.20 - 52.80	314G	0.60	.34																	
52.80 - 53.25	315G	0.45	.25																	
53.25 - 53.85	316G	0.60	.01																	
53.85 - 54.30	317G	0.45	.01																	
54.30 - 54.90	318G	0.60	.01																	
54.90 - 55.50	319G	0.60	.01																	
55.50 - 56.00	320G	0.50	.01																	
56.00 - 56.60	321G	0.60	.02																	
56.60 - 57.10	322G	0.50	.01																	
57.10 - 57.91	323G	0.81	.02																	
57.91 - 58.60	324G	0.69	.02																	
58.60 - 59.80	325G	1.20	.06																	
59.80 - 60.25	326G	0.45	.90	38.5	987	30526	21351													
60.25 - 61.00	327G	0.75	.08	2.1	41	194	65							1.60	0.44	22.2	561	12171	11286	59.80 - 61.40
61.00 - 61.40	328G	0.40	.58	41.4	1059	13979	21003													
61.40 - 61.65	329G	0.25	.08	4.0	110	423	609													
61.65 - 62.15	330G	0.55	.03																	
62.15 - 62.65	331G	0.50	.05																	
62.65 - 63.10	332G	0.55	.02																	
63.10 - 63.85	333G	0.75	.04																	
63.85 - 64.35	334G	0.50	.04																	
64.35 - 64.85	335G	0.50	.06																	
64.85 - 65.30	336G	0.45	.04																	
65.30 - 65.80	337G	0.50	.02																	
65.80 - 66.00	338G	0.20	.29																	
66.00 - 66.48	339G	0.48	.04																	
66.48 - 66.98	340G	0.50	.03																	

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property

Hole No AP 4

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INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag ppm	Cu. ppm	Zn. ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn
66.98 - 67.50	3416	0.52	.02															
67.50 - 121.62	waste	54.12																
121.62	EOH																	

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 1 of 8

Property: UNUK R	Project No.: 134	Depth: 138.38	Date Began: Oct 3/89
Hole No.: AP 5	Co ord: 1302 N	Horizontal Length:	Date Completed: Oct 7/89
Claim No.: Unuk 14	1043 E	Core Size: NQ	Drilled By: Van Alphen Drilling
Grid No.: AP	Angle & Grid Direction: -45°/N45°W Grid.	Elevation: 1455 m.	Logged By: B. GABOURY

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - 1.23	Casing.								
0 - 5.59	Lithic Andesitic to Dacitic Tuff ("Lenticular Tuff")								
	a coarse fragmental consisting of andesitic to rhyodacitic ash to lapilli-sized fragments plus occassional stretched lithic fragments (chloritic ↔ sericitic) in a light grey-green fine silicious groundmass. Overall contains 1-3% py as disseminations, blebs & short stringers. Locally mildly sheared; entire interval is broken & rubbly.								
	CA 4.0 m : 30° mild shearing.								
5.59 - 8.30	Diabase								
	fine grained, black; contains numerous thin cross-cutting qtz vnlts at various orientations to the core axis, overall ≤ 1% py; core is broken & rubbly.								
8.30 - 33.60	Lithic Andesitic to Dacitic Tuff (similar to 0 - 5.59 m)								
	11.03 - 11.58 : 3-5% py as dirty brass-colored arborescent stringers up to 5 cm long at various orientations to core axis.								
	13.30 - 14.00 : limonitic fracture zone, shearing at ~45° to core axis. Healed thin silicic fractures at various orientations become fairly abundant below 14.00 m.								
	16.24 - 16.54 : numerous parallel, thin silicic fractures at ~50° to core axis.								
	17.04 : 4 cm wide shear at ~47° to core axis								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 2 of 8

Property: UNUK R. | Project No: 134 | Depth | Date Began
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INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	17.04 – ? : brecciated with qtz-py infilling of fractures; overall contains 2-4 % py as disseminations & sheared dirty brass colored blebs up to 5 cm long & 1 cm wide.								
	NOTE Box 4 was lost in transport, hence a gap exists between 20.40 & 26.50 m.								
	(26.50) – 33.60 : grey to greenish grey, moderately silicic with 3-5% mainly as disseminations. Weak color mottling suggests a possible coarse fragmental origin. Rock is locally albitized (small white lathe-shaped porphyroblasts); minor chloritic patches & some chloritic stringers roughly oriented with fabric (weak), localized patchy dark sections of tourm-sulfide veining.								
	26.60 – 27.15 : broken, blocky core, numerous limonitic fractures at all orientations.								
	C.A. 27.20 : ~ 50° weak fabric								
33.60 – 69.94	Altered Dacite								
	a light grey very silicic felsic volcanic rock with pervasive silica flooding such that the original nature of the rock has been obliterated; contains ≥ 5 % py generally as subhedral to euhedral disseminations plus some dirty brass-colored stringers & blebs. Occassional thin (≤ 3 mm dia.) cross-cutting qtz vnlts.								
	33.60 – 35.88 : 5% py as disseminations & contorted brass-colored stringers up to ~ 2 mm wide plus traces of gal/tet often associated with tourm-sulfide vnlts. ~ 50 fractures/m generally ≥ 45° to								
*									

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 3 of 8

Property	UNUK R	Project No	134	Depth	Date Began
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INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
*	35.88 - 36.20 : 7-10% py generally as disseminations up to 1.5 mm diameter plus trace disseminations of gal/tet & ~20 fractures generally with core angles ≥ 45°.								
* *	36.20 - 36.90 : sheared qtz vein with 20-25% py as large blebs & massive bands up to 3 cm plus 2-3% gal/tet as disseminations & large interstitial blebs in the massive py. Shearing is parallel to banding ≈ 55° to core axis. ~20 fractures /m generally oriented 45° to core axis								
*	36.90 - 38.30 : light grey extremely silica-flooded rhyodacite with 5-7% py & disseminations & dirty brass-colored stringers plus tr gal/tet. Abundant thin healed white fractures at core angles in excess of 50°. 10-15 open fractures/m.								
* *	38.30 - 39.68 : same as 36.90 - 38.30 with 7-10% py plus ~1% disseminated gal/tet. ~10 open fractures/m.								
*	39.68 - 40.24 : same as 36.90 - 38.30 with 5-7% py & tr gal/tet plus some thin dilational qtz vnlts oriented ~ 30° to core axis. 15 - 20 fractures/m at all orientations (includes some at < 20°)								
* *	40.24 - 41.00 : same as 36.90 - 38.30 with 7-10% py, tr-1% gal/tet ; rubbly & broken. 50 - 100 fractures /m at all orientations.								
*	41.00 - 41.37 : 5% py, tr-1% gal/tet 20 - 30 fractures/m. ; all orientations.								
* *	41.37 - 44.18 : 5-7% py, 1% gal/tet & tr sph ; still contains numerous thin tan colored fractures at generally 45° to core axis. Py still occurs as fine disseminations, irregular blebs & stringers ≤ 1cm dia while gal/tet occurs as small wispy or arborescent blebs.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 4 of 8

Property: UNUK R | Project No: 134 | Depth: | Date Began:
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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
*	44.18 - 45.10 : same as 36.90 - 38.30 with 5% py & tr gal/tet numerous fractures at ~45° to core axis.								
	below 45.10 rock becomes more chloritic & generally sericitic → becomes a darker green-grey color.								
* *	45.10 - 45.53 : similar to 44.18 - 45.10 with 7% py, 1% gal/tet, & tr sph ; occassional thin silicious qtz-py-gal vnlts at ~ 45° to core axis. ~5 fractures/m oriented at ~ 40-50° to axis.								
*	45.53 - 46.77 : similar to 44.18 - 45.10 with 5-7% py, tr-1% gal/tet, tr sph ; occassional contorted stretched lens or stringer of Khaki green sericite. ~5 fractures/m at various orientations.								
* *	46.77 - 47.15 : similar to 44.18 - 45.10 with 7-10% py, 1% gal/tet & tr sph in a crushed, somewhat broken, sericitized section ; gal-tet often occurs in thin py vnlts oriented 45-55° to core axis. ~20 open fractures/m → several are oriented ~ 45-50° to core axis.								
*	47.15 - 47.87 : similar to 46.77 - 47.15 but no sericitic stringers ; contains 5% py, tr gal/tet								
*	47.87 - 48.46 : similar to 46.77 - 47.15 (but less crushed); contains 5-7% py & tr-1% gal/tet. ~ 20-50 open fractures/m at various orientations.								
*	48.46 - 49.15 : 3-5% py & tr-1% gal/tet ~10 open fractures/m at various orientations.								
* *	49.15 - 49.35 : 10% py, 1-2% gal/tet, tr sph & tr cpy associated with sulfide stringers up to .5 cm wide at various orientations.								
*	49.35 - 49.95 : 3-5% py, tr gal/tet, tr sph.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	49.95 - 51.80 : 1-3% py, tr aspy, tr gal/tet, tr sph, tr cpy in a section similar to 49.35 - 49.95								
*	51.80 - 52.20 : somewhat more silicified section with qtz - ankerite stgrs plus a 2 cm wide py vnlt with traces of sph & gal/tet; overall section contains 5-10% py, tr-1% gal/tet								
	52.20 - 54.43 : similar interval with 3-5% py + aspy, tr gal/tet, tr sph & tr cpy								
	54.43 - 56.00 : dark grey, moderately silicified interval with 4/5% py, tr gal/tet, tr sph. Also has occassional cross-cutting greyish qtz vnlts up to 1cm wide at various orientations & is albitized (small white lathe-shaped feldspar xtals. overall ~50 open fractures/m (numerous at ~45°)								
	56.00 - 57.91 : similar to 52.20 - 54.43, contains 1-3% py mainly as disseminations, albitized, ~10 open fractures/m generally at core angles ≥ 50°.								
	57.91 - 58.30 : rubbly interval with ~3% py > 100 fractures/m at all orientations								
**	58.30 - 59.85 : rubbly, broken dark silicified dacite with abundant fine black tourm-sulf cross-cutting vnlts & several massive to semi-massive py sections; overall contains 15-20% py, tr gal/tet & tr cpy ~45% core recovery 50-100 fractures/m at all orientations								
	C.A. 58.70 m : 55° banding in massive py.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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Property: UNUK R | Project No: 134 | Depth: | Date Began:
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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
*	59.85 - 62.10 : 4-5% py, tr-1% gal/tet & tr sph in a mildly bxed, moderately silicified section. 20-30 open fractures/m generally at angles ≥ 45°								
	62.10 - 62.60 : 3-5% py in a section similar to 59.85-62.10								
	62.60 - 65.36 : greenish grey sericitized & mildly silicified interval with 3-4% py as disseminations & irregular dirty brass-colored masses.								
	65.36 - 69.94 : grey, intensely silicified section of welded dacite tuff (flattened ash sized shards aligned to give rock a crude fabric)								
**	65.60 - 66.13 : overall 10% py, tr-1% gal/tet & 1-2% sph; includes two 3 cm wide bands of massive py cutting core axis at 70-90°. 3-5 fractures/m at all orientations.								
*	66.13 - 66.51 : 5% py, tr-1% sph & tr gal/tet mainly as disseminations; rubbly at top of interval; overall 50-100 fractures/m several at ~50° to core axis.								
**	66.51 - 69.94 : intensely silicified, abundant cross-cutting healed greyish silicic fractures (many at 40°-50° to core axis); overall contains 5-10% py, tr-1% gal/tet & 1-2% sph as disseminations & thin stringers up to 2 cm								

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INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	wide oriented at CA's ≥ 55°.								
	66.51 - 67.65 : 5-10% py, tr-1% gal/tet, tr-1% sph; 25-50 fract/m								
	67.65 - 68.15 : 5-10% py, tr gal/tet, tr sph 25-50 fract/m (mom) at ~45°)								
	68.15 - 68.32 : dark, bxed contains one 11cm wide semi-massive py band containing 40% py, 5% sph & tr gal/tet								
	68.32 - 69.25 : dark bxed interval w 5% py, tr gal/tet & tr-1% sph. rubbly; 50-100 fract/m generally at CA's > 50°.								
	69.25 - 69.41 : dark, sheared section w 15% py, 5% sph & 3% gal/tet shearing at ~45° to core axis.								
	69.41 - 69.94 : 5% py, 1-2% sph & tr gal/tet; numerous thin high CA sulfide vnlts.								
69.94 - 138.38	Dacite Lapilli Tuff ("lenticular sections)								
	a generally non-foliated, moderately felsic, greenish, sericitized volcaniclastic rock whose fragmental nature is often obscured by pervasive sericitization & tourmalinization (thin irregular vnlts & patches of arborescent black tourm-sulfide-carb patches up to several cm across). Fragments where visible range from ash to lapilli sized & have the same composition as the groundmass. Overall contains 3-5% py as inclusions in tourm-sulfide masses or as disseminations:								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

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Hole No.: AP5 | Co ord.: | Horizontal Length: | Date Completed:
Claim No.: | Core Size: | Drilled By:
Grid No: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	69.94 - 71.90 : more intense brecciation & sericitization, contains ~5% py & tr sph generally as larger blebs often associated with irregular carb. masses.								
	C.A. 71.90 m : 40° shear ~1cm wide (silicif.)								
	107.30 - 109.00 : Fault & fractured, crushed rubbly core, numerous shallow angle (≤20°) fractures, overall 3-5% py.								
	109.00 - 109.45 : bleached, mildly silicified, abundant tourm-sulfide stgrs up to 5mm wide at C.A.'s of 70-90°, overall ~5% py								
	112.56 - 113.26 : bxed, silicified, dark colored interval with 5-7% py, mainly within tourm-sulfide bearing fracture infilling material 112.56 - 112.66 : sheared interval with ankerite.								
	114.45 - 118.26 : mildly bxed, contains 5-7% py & tr sph in haphazardly oriented stgrs up to 1cm dia.								
	118.26 - 138.38 : increasing amount of "debris flow" as intercalations & fracture infilling. Bottom 6 m of hole may be a very coarse version of the debris flow with boulder-sized dacite fragments surrounded by a dark argillitic matrix with smaller volcanic fragments.								
138.38	End of Hole								
	Acid test 138.38 m : 45° corrected.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

Property | Project No | Depth | Date Began
Hole No AP 5 | Co ord. | Horizontal Length | Date Completed
Claim No | Core Size | Drilled By
Grid No | Angle & Direction | Elevation | Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag. ppm	Cu. ppm	Zn. ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn
0.00 - 10.58	CASING	10.58	—															
10.58 - 11.03	342G	0.45	.06															
11.03 - 11.58	343G	0.55	.01															
11.58 - 12.10	344G	0.52	.01															
12.10 - 12.60	345G	0.50	.01															
12.60 - 16.54	No SAMPLE	3.94	—															
16.54 - 17.04	346G	0.50	.01															
17.04 - 17.54	347G	0.50	.01															
17.54 - 18.08	348G	0.54	.01															
18.08 - 18.58	349G	0.50	.01															
18.58 - 19.08	350G	0.50	.01															
19.08 - 26.45	No RECOV	7.37	—															
26.45 - 32.58	No SAMPLE	6.26	—															
32.58 - 33.08	601G	0.50	.02															
33.08 - 33.60	602G	0.52	.02															
33.60 - 34.10	603G	0.50	.01															
34.10 - 34.60	604G	0.50	.02															
34.60 - 35.00	605G	0.40	.03															
35.00 - 35.50	606G	0.50	.08															
35.50 - 35.88	607G	0.38	.10															
35.88 - 36.20	608G	0.32	.06															
36.20 - 36.90	609G	0.70	.33	49.9	2049	18691	18756											
36.90 - 37.40	610G	0.50	.05															
37.40 - 37.80	611G	0.40	.02															
37.80 - 38.30	612G	0.50	.02															
38.30 - 38.80	613G	0.50	.02															
38.80 - 39.32	614G	0.52	.03															
39.32 - 39.68	615G	0.36	.01															
39.68 - 40.24	616G	0.56	.01															
40.24 - 41.00	617G	0.76	.01															
41.00 - 41.37	618G	0.37	.02															
41.37 - 41.87	619G	0.50	.01															
41.87 - 42.37	620G	0.50	.01															
42.37 - 42.76	621G	0.39	.05															
42.76 - 43.22	622G	0.46	.01															
43.22 - 43.68	623G	0.46	.20															
43.68 - 44.18	624G	0.50	.01															
44.18 - 44.68	625G	0.50	.01															
44.68 - 45.10	626G	0.42	.07															
45.10 - 45.53	627G	0.43	.02															

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

Property: | Project No: | Depth: | Date Began:
Hole No: AP5 | Co ord: | Horizontal Length: | Date Completed:
Claim No.: | Core Size: | Drilled By:
Grid No: | Angle & Direction: | Elevation: | Logged By:

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag ppm	Cu ppm	Zn ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au g/t	Ag g/t	Cu ppm	Zn ppm	Pb ppm	
45.53 - 45.87	628G	0.34	.07																	
45.87 - 46.27	629G	0.40	.24	3.0	221	5905	3414													
46.27 - 46.77	630G	0.50	.15	1.3	137	1565	1055							1.28M	0.17	2.1	145	3649	2541	45.87 - 47.15
46.77 - 47.15	631G	0.38	.13	2.3	76	4013	3578													
47.15 - 47.55	632G	0.40	.09																	
47.55 - 47.87	633G	0.32	.08																	
47.87 - 48.46	634G	0.59	.08																	
48.46 - 48.80	635G	0.34	.03																	
48.80 - 49.15	636G	0.35	.27	1.8	60	2391	1854													
49.15 - 49.35	637G	0.20	.29	37.9	1837	27670	22475							0.20M	0.29	37.9	1837	27670	22475	49.15 - 49.35
49.35 - 49.95	638G	0.60	.09																	
49.95 - 50.50	639G	0.55	.15	2.7	250	1763	1341													
50.50 - 51.01	640G	0.51	.12	1.6	50	1534	800													
51.01 - 51.35	641G	0.34	.01																	
51.35 - 51.80	642G	0.45	.10																	
51.80 - 52.20	643G	0.40	.80	6.2	39	12.00	1171							0.80M	0.80	6.2	39	1200	1171	51.80 - 52.20
52.20 - 52.70	644G	0.50	.54	.7	33	1043	315													
52.70 - 53.20	645G	0.50	.17																	
53.20 - 53.50	646G	0.30	.02																	
53.50 - 53.90	647G	0.40	.01																	
53.90 - 54.43	648G	0.53	.03																	
54.43 - 55.10	649G	0.67	.03																	
55.10 - 55.50	650G	0.40	.02																	
55.50 - 56.00	351G	0.50	.01																	
56.00 - 56.52	352G	0.52	.29																	
56.52 - 57.11	353G	0.59	.01																	
57.11 - 57.61	354G	0.50	.02																	
57.61 - 57.91	355G	0.30	.03																	
57.91 - 58.30	356G	0.39	.03																	
58.30 - 59.05	357G	0.75	.36	17.8	242	4373	3785							1.55M	0.31	16.2	339	4946	3810	58.30 - 59.85
59.05 - 59.85	358G	0.80	.27	14.7	430	5485	3833													
59.85 - 60.25	359G	0.40	.06																	
60.25 - 60.75	360G	0.50	.02																	
60.75 - 61.60	361G	0.85	.02																	
61.60 - 62.10	362G	0.50	.01																	
62.10 - 62.60	363G	0.50	.02																	
62.60 - 64.20	364G	1.60	.01																	
64.20 - 65.36	365G	1.16	.03																	
65.36 - 65.60	366G	0.24	.12											0.97M	0.21	4.9	270	4525	1452	65.60 - 66.57
65.60 - 66.13	367G	0.53	.22	6.5	383	5662	1663													

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

Property
Hole No AP-5
Claim No.
Grid No
Project No
Co ord
Angle & Direction
Depth
Horizontal Length
Core Size
Elevation
Date Began
Date Completed
Drilled By
Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag ppm	Cu ppm	Zn ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH M	Au g/t	Ag ppm	Cu ppm	Zn ppm	Pb ppm	
66.13 - 66.57	368G	0.44	0.20	2.8	121	2951	1132													
66.57 - 67.65	NO SAMPLE	1.08	—																	
67.65 - 68.15	369G	0.50	.12	4.1	70	703	785													
68.15 - 68.32	370G	0.17	.46	21.9	541	48052	10837													
68.32 - 68.75	371G	0.43	.20	25.2	107	9860	23954							0.6M	0.27	24.3	244	20681	20237	68.15 - 68.75
68.75 - 69.25	372G	0.50	.12																	
69.25 - 69.41	373G	0.16	.07																	
69.41 - 69.94	374G	0.53	.27	1.2	57	2331	618													
69.94 - 70.44	375G	0.50	.16																	
70.44 - 70.92	376G	0.48	.06																	
70.92 - 71.40	377G	0.48	.02																	
71.40 - 71.90	378G	0.50	.06																	
71.90 - 72.25	379G	0.35	.01																	
72.25 - 72.75	380G	0.50	.01																	
72.75 - 73.25	381G	0.50	.01																	
73.25 - 106.80	NO SAMPLE	33.55	—																	
106.80 - 107.30	382G	0.50	.01																	
107.30 - 107.85	383G	0.55	.01																	
107.85 - 108.35	384G	0.50	.01																	
108.35 - 109.00	385G	0.65	.01																	
109.00 - 109.45	386G	0.45	.08																	
109.45 - 109.95	387G	0.50	.01																	
109.95 - 110.45	388G	0.50	.11																	
110.45 - 110.95	389G	0.50	.03																	
110.95 - 111.00	390G	0.05	.03																	
111.00 - 111.50	391G	0.50	.38																	
111.50 - 112.00	392G	0.50	.04																	
112.00 - 112.56	393G	0.56	.01																	
112.56 - 112.91	394G	0.35	.03																	
112.91 - 113.26	395G	0.35	.02																	
113.26 - 113.85	396G	0.59	.54																	
113.85 - 114.45	397G	0.60	.12																	
114.45 - 114.91	398G	0.46	.49																	
114.91 - 115.50	399G	0.59	.01																	
115.50 - 116.00	400G	0.50	.01																	
116.00 - 116.50	551G	0.50	.03																	
116.50 - 117.00	552G	0.50	.08																	
117.00 - 117.50	553G	0.50	.02																	
117.50 - 117.86	554G	0.36	.04																	
117.86 - 118.26	555G	0.40	.13																	

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property:
Hole No: AP-5
Claim No:
Grid No:
Project No:
Co ord.:
Angle & Direction:
Depth:
Horizontal Length:
Core Size:
Elevation:
Date Began:
Date Completed:
Drilled By:
Logged By:

INTERVAL FEET/METRES	NUMBER	WIDTH	Au g/t	Ag. ppm	Cu. ppm	Zn. ppm	Pb ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn	
118.26-118.76	556G	0.50	.01																
118.76-119.30	557G	0.54	.01																
119.30-120.00	558G	0.70	.02																
120.00 - 138.38	waste	18.38	—																
138.38	EOH																		

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Page 1 of 5

Property	UNUK R.	Project No	134	Depth	121.92 m
Hole No.	R-1	Co ord	181 N 650 W	Horizontal Length	
Claim No	COUL 1			Core Size	BGM
Grid No.	"R"	Angle & Grid Direction	Grid S45E/-45°	Elevation	

Date Began	OCT 9/89
Date Completed	OCT 11/89
Drilled By	VAN ALPHEN DRILLING
Logged By	B. GABOURY

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - 3.35	Casing.								
3.35 - 30.08	Debris Flow								
	~40% felsic volcanic fragments plus occassional andesitic & lithic fragments (subrounded to angular, up to 3cm dia.) matrix supported by black argillaceous material; overall ~1% fine disseminated py.								
	17.68 - 19.18 : Fault Zone ; blocky broken core plus clayey somewhat graphitic gouge & minor thin haphazardly oriented tensional qtz vnlts (no visible sulfides in qtz vnlts).								
	C.A. 21.60 m : 40° weak fabric.								
	26.20 - 27.20 : boxed interval with 7-10% thin haphazardly oriented qtz-py vnlts with no visible sulfides ; rubbly & broken core 26.60-27.20								
30.08 - 33.95	Brecciated interbedded Black Argillite & grey laminated siltstone								
	dominantly black argillite fragments up to several cm dia plus ~10-20% laminated grey siltstone fragments in a fine dark argillitic matrix. There are also occassional bands & fragments of arenaceous to gritty greywacke and felsic tuffaceous bands up to 1.0+ m wide. Contains occassional haphazardly oriented thin barren qtz vnlts and overall 3% py as disseminations, very fine grained impregnations (often confined to specific laminae) and as blebs up to ~1 cm dia.								
33.95 - 39.28	Debris Flow (as before)								
	33.95 - 34.15 : silicified, boxed upper contact ; 1-2% fine py								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: UNUK R.
Hole No: R-1
Claim No.:
Grid No.:
Project No: 134
Coord:
Angle & Grid Direction:
Depth:
Horizontal Length:
Core Size:
Elevation:
Date Began:
Date Completed:
Drilled By:
Logged By:

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
39.28 - 67.38	Brecciated interbedded Black Argillite & Grey Laminated Siltstone								
	(as before)								
	39.28 - 39.85 : blocky broken core								
	39.85 - 40.45 : greyish green fine grained, moderately silicic tuff w tr-1% fine py.								
	40.45 - 41.20 : blocky broken core.								
	41.44 - 41.60 : very silicified fine tuff with ~5% fine py.								
	CA. 41.60 m : 80°-90° contact // shearing.								
	41.60 - 42.26 : coarse dacitic ash tuff (chloritic) with 3% py.								
	43.20 - 43.54 : coarse greywacke gritstone.								
	CA 43.20 m : 55° contact								
	CA 43.54 m : 85° contact // bedding.								
	46.30 - 46.62 : sheared, brecciated felsic tuff w 5-7% fine py								
	CA. 46.40 m : 55° shearing.								
	46.77 - 47.30 : coarse greywacke gritstone.								
	CA 47.00 m : 45° foliation.								
	47.97 - 49.60 : light grey-green coarse dacite ash tuff; mildly silicified & sericitized, contains cross cutting almost barren qtz vnlts up to 2cm dia, 1-3% dissem py plus occassional reddish sph blebs in qtz vnlts.								
	CA 48.25 m : 0° shearing								
	CA 48.97 m : 10° shearing slickenslide w 45° rake								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 3 of 5

Property: UNUK R. | Project No. 134 | Depth | Date Began
Hole No: R-1 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

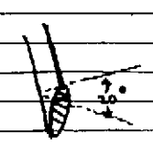
INTERVAL FEET METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	51.30 - 51.80 : light grey green coarse ash tuff similar to 47.97 - 49.60.								
	52.10 - 52.85 : sheared debris flow (as before) with 7-10% fine dissem. py.								
	52.85 - 53.59 : well bxed ; contains 5% py as impregnations of some laminae in siltstone fragments & as blebs & short stgrs.								
	53.59 - 54.10 : fault in a section of graphitic argillite ; blocky, rubbly, broken core & graphitic gouge shearing is at 90° to core axis.								
	54.10 - 55.90 : dominantly bxed silicified siltstone ;								
	54.10 - 54.98 : 10% very fine py as impregnations of some bands up to 2cm wide oriented ~90° to core axis.								
	54.98 - 55.90 : 3-5% brassy yellow py blebs up to 1cm dia, generally found in interstices between bx fragments.								
	CA 57.70 m : 45° foliation								
	58.50 - 61.57 : mildly bxed & contorted section of interlaminated grey siltstone ↔ greywacke arenite ; contains 3-5% py as fine interstitial disseminations, disseminations within the dark colored bx infilling matrix, or as coarse blebs up to .5cm dia. often found in thin haphazardly oriented tensional qtz vnlts, along with traces of red sph plus a dark grey metallic sulfide.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 4 of 5

Property: UNUK R | Project No: 134 | Depth | Date Began
Hole No: R-1 | Co ord | Horizontal Length | Date Completed
Claim No | Core Size | Drilled By
Grid No | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	CA. 61.57 m : 30° sheared bottom contact CA. 64.78 m : 90° small shear.								
	63.70 - 63.85 : boxed, sheared & sericitized band of debris flow at ~90° to core axis ; contains 3-5% py.								
	64.78 - 67.38 : boxed interbedded greywacke gritstone & fine dacite ash tuff ; generally greyish colored, contains 1-2% py.								
67.38 - 80.25	Brecciated Debris Flow								
	~40% sand-sized to cm sized comminuted & embayed felsic volcanic fragments in a dark grey mildly silicic groundmass. Contains 1-3% py as fine disseminations and as occassional rounded blebs up to 1cm dia, occassional thin grey clayey gouge seam.								
80.25 - 93.68	Black Argillite								
	mildly boxed, contains occassional felsic volcanic fragments near top of interval & occassional fine light grey laminae or bands up to ~20 cm wide of siltstone ; minor tensional qtz vnlts (barren) at all orientations, overall ~1% fine dissem py.								
	89.83 - 92.20 : mildly sheared boxed & contorted interval with 1-3% py CA 91.00 m : qtz py vnlt w slickenslides 60°/20° rake								



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 5 of 5

Property: UNUK R | Project No: 134 | Depth: | Date Began:
Hole No: R-1 | Co ord: | Horizontal Length: | Date Completed:
Claim No: | Core Size: | Drilled By:
Grid No: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
95.68 - 101.82	Brecciated interbedded Black Argillite & Grey Laminated Siltstone								
	same as 39.28 - 67.38 ; overall contains 1% py								
101.82 - 103.67	Brecciated Dacitic Lithic Tuff								
	bxed, grey colored felsic volcaniclastic composed of ash-sized dacite fragments plus ~5% small argillitic clasts ; contains ~5% py as coarse brassy yellow blebs in the interstitial fracture filling material or as massive stgrs up to 1cm wide ; last 20 cm of interval contains abundant thin barren qtz vnlts oriented at 40° to core axis.								
103.67 - 119.54	Brecciated Black Argillite								
	contains minor intercalations of debris flow, grey laminated siltstone & thin (≤1.0m) tuffaceous bands. 3-5% py as concentrations (impregnations) within specific laminae in siltstone, as pseudomorphs after fragments in debris flow or as contorted stgrs up to .5cm wide:								
	108.80 - 109.95 : silica flooded, contorted, 6-10% py.								
	109.95 - 114.76 : 4-6% py								
*	114.76 - 115.81 : 4-6% py + tr aspy (similar to 109.95 - 114.76)								
	115.81 - 118.04 : 6-10% py [117.20 - 118.04 : bxed lithic tuff.)								
119.54 - 121.92	Brecciated Lithic Tuff (Dacitic)								
	similar to 101.82 - 103.67 but not as severely brecciated. Mildly to moderately silicic ; contains 3-5% py								
	120.00 - 120.55 : small fault ; rubbly core & clayey gouge CA's ~90°								
121.92	End of Hole								
	Acid test 121.92m : 44°30'								

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property	Project No	Depth	Date Began
Hole No R-1	Co ord	Horizontal Length	Date Completed
Claim No		Core Size	Drilled By
Grid No	Angle & Direction	Elevation	Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag g/t	Cu.	Zn.		WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu	Zn
0.00 - 17.18	CASING WASTE	17.18	–															
17.18 - 17.68	559G	0.50	.01															
17.68 - 18.18	560G	0.50	.01															
18.18 - 18.68	561G	0.50	.01															
18.68 - 19.18	562G	0.50	.01															
19.18 - 19.68	563G	0.50	.01															
19.68 - 25.20	NO SAMPLE	5.52	–															
25.20 - 25.70	564G	0.50																
25.70 - 26.20	565G	0.50																
26.20 - 26.60	566G	0.40																
26.60 - 27.20	567G	0.60																
27.20 - 27.70	568G	0.50																
27.70 - 28.30	569G	0.60																
28.30 - 28.90	570G	0.60																
28.90 - 29.50	571G	0.60																
29.50 - 30.08	572G	0.58																
30.08 - 30.58	573G	0.50																
30.58 - 31.10	574G	0.52																
31.10 - 31.80	575G	0.70																
31.80 - 32.40	576G	0.60																
32.40 - 33.00	577G	0.60																
33.00 - 33.50	578G	0.50																
33.50 - 33.95	579G	0.45																
33.95 - 34.15	580G	0.20																
34.15 - 34.65	581G	0.50																
34.65 - 35.15	582G	0.50																
35.15 - 38.28	NO SAMPLE	3.13																
38.28 - 38.78	583G	0.50	.04	1.2														
38.78 - 39.28	584G	0.50	.04	.9														
39.28 - 39.85	585G	0.57	.02	.9														
39.85 - 40.45	586G	0.60	.02	.1														
40.45 - 40.95	587G	0.50	.03	1.3														
40.95 - 41.44	588G	0.49	.03	.4														
41.44 - 41.60	589G	0.16	.01	.1														
41.60 - 42.26	590G	0.66	.01	.1														
42.26 - 42.86	591G	0.60	.03	.9														
42.86 - 43.46	592G	0.60	.01	.9														
43.46 - 44.06	593G	0.60	.03	.1														
44.06 - 44.70	594G	0.64	.01	.5														
44.70 - 45.30	595G	0.60	.01	1.3														

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property	Project No	Depth	Date Began
Hole No R - 1	Co ord	Horizontal Length	Date Completed
Claim No.		Core Size	Drilled By
Grid No	Angle & Direction	Elevation	Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag. g/t	Cu.	Zn.	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu	Zn
45.30 - 45.80	596 G	0.50	.01	.5			60											
45.80 - 46.30	597 G	0.50	.03	.8			74											
46.30 - 46.62	598 G	0.32	.02	.4			252											
46.62 - 47.22	599 G	0.60	.02	.5			77											
47.22 - 47.70	600 G	0.48	.01	.2			45											
47.70 - 47.97	501 G	0.27	.03	.9			117											
47.97 - 48.47	502 G	0.50	.01	.2			145											
48.47 - 48.97	503 G	0.50	.01	.2			185											
48.97 - 49.60	504 G	0.63	.01	.2			200											
49.60 - 50.20	505 G	0.60	.01	1.1			582											
50.20 - 50.75	506 G	0.55	.13	.8			83											
50.75 - 51.30	507 G	0.55	.01	2.0			77											
51.30 - 51.80	508 G	0.50	.01	.1			75											
51.80 - 52.10	509 G	0.30	.03	2.6														
52.10 - 52.60	510 G	0.50	.01	.3														
52.60 - 52.85	511 G	0.25	.01	.1														
52.85 - 53.25	512 G	0.40	.02	.1														
53.25 - 53.39	513 G	0.14	.01	.3														
53.59 - 54.10	514 G	0.51	.02	1.1														
54.10 - 54.70	515 G	0.60	.01	.2														
54.70 - 54.98	516 G	0.28	.02	.1														
54.98 - 55.55	517 G	0.57	.01	.1														
55.55 - 55.90	518 G	0.35	.03	.1														
55.90 - 56.50	519 G	0.60	.03	.2														
56.50 - 57.00	520 G	0.50	.02	.1														
57.00 - 57.55	521 G	0.55	.06	.8														
57.55 - 58.03	522 G	0.48	.02	1.2														
58.03 - 58.50	523 G	0.47	.01	.8														
58.50 - 59.00	524 G	0.50	.01	.1														
59.00 - 59.45	525 G	0.45	.01	.1														
59.45 - 59.80	526 G	0.35	.01	.1														
59.80 - 60.40	527 G	0.60	.01	.1														
60.40 - 60.90	528 G	0.50	.01	.1														
60.90 - 61.27	529 G	0.37	.01	.1														
61.27 - 61.57	530 G	0.30	.01	.1														
61.57 - 61.90	531 G	0.33	.01	.1														
61.90 - 62.50	532 G	0.60	.02	.2														
62.50 - 63.20	533 G	0.70	.01	.1														
63.20 - 63.70	534 G	0.50	.03	.1														
63.70 - 63.85	535 G	0.15	.01	.1														

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

Property	Project No	Depth	Date Began
Hole No R-1	Co ord	Horizontal Length	Date Completed
Claim No		Core Size	Drilled By
Grid No.	Angle & Direction	Elevation	Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag g/t	Cu.	Zn.	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu.	Zn
63.85-64.35	536G	0.50	.01	.1			79											
64.35-64.78	537G	0.43	.01	.1			184											
64.78-65.30	538G	0.52	.01	.1			138											
65.30-65.80	539G	0.50	.01	.1			271											
65.80-66.45	540G	0.65	.01	.1			159											
66.45-67.00	541G	0.65	.01	.1			93											
67.00-67.38	542G	0.38	.01	.1			89											
67.38-68.00	543G	0.62	.02	.1			68											
68.00-68.50	544G	0.50	.02	.1			68											
68.50-69.00	545G	0.50	.01	.2			38											
69.00-69.49	546G	0.49	.07	.2			13											
69.49-70.00	547G	0.51	.01	.1			7											
70.00-70.50	548G	0.50	.01	.1			12											
70.50-71.00	549G	0.50	.01	.1			26											
71.00-71.50	550G	0.50	.01	.1			29											
71.50-72.00	401G	0.50	.02	.1			41											
72.00-89.33	NO SAMPLE	17.33	—	—			—											
89.33-89.83	402G	0.50	.13	1.6			34											
89.83-90.33	403G	0.50	.08	1.3			56											
90.33-90.83	404G	0.50	.10	4.2			74											
90.83-91.33	405G	0.50	.22	2.5			99											
91.33-91.83	406G	0.50	.14	2.0			89											
91.83-92.20	407G	0.37	.04	1.5			42											
92.20-92.70	408G	0.50	1.77	1.5			69											
92.70-93.20	409G	0.50	.04	1.0			41											
93.20-100.81	NO SAMPLE	7.61	—	—			—											
100.81-101.30	410G	0.49	.14	.4			81											
101.30-101.82	411G	0.52	.04	.5			51											
101.82-102.30	412G	0.48	.26	.1			42											
102.30-102.88	413G	0.58	.08	3.4			1281											
102.88-103.02	414G	0.14	.11	3.4			197											
103.02-103.67	415G	0.65	.03	.1			42											
103.67-104.17	416G	0.50	.12	4.0			138											
104.17-104.70	417G	0.53	.14	5.5			236											
104.70-105.30	418G	0.60	.10	3.2			217											
105.30-106.07	419G	0.77	.06	1.8			313											
106.06-106.60	420G	0.54	.09	4.8			126											
106.60-107.15	421G	0.55	.15	6.3			183											
107.15-107.60	422G	0.45	.08	1.2			150											
107.60-108.20	423G	0.60	.08	1.9			134											

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property		Project No	
Hole No	R-1	Co ord	
Claim No			
Grid No		Angle & Direction	

Depth		Date Began	
Horizontal Length		Date Completed	
Core Size		Drilled By	
Elevation		Logged By	

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au oz/t	Ag oz/t	Cu	Zn	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn
108.20-108.80	424G	0.60	.14	1.3			238											
108.80-109.41	425G	0.61	.25	14			339											
109.41-109.95	426G	0.54	.67	2.5			492											
109.95-110.50	427G	0.55	.17	6.8			227											
110.50-111.00	428G	0.50	.13	65			209											
111.00-111.50	429G	0.50	.12	5.7			193											
111.50-112.00	430G	0.50	.04	1.4			87											
112.00-112.40	431G	0.40	.09	1.8			111											
112.40-112.77	432G	0.37	.04	1.1			167											
112.77-113.27	433G	0.50	.02	.1			79											
113.27-113.90	434G	0.63	.03	.1			78											
113.90-114.46	435G	0.56	.02	1.6			127											
114.46-114.76	436G	0.30	.05	1.2			333											
114.76-115.21	437G	0.45	.01	1.6			67											
115.21-115.81	438G	0.60	.10	2.4			1602											
115.81-116.30	439G	0.49	.08	5.0			158											
116.30-116.90	440G	0.60	.07	4.7			174											
116.90-117.20	441G	0.30	.10	4.0			250											
117.20-117.80	442G	0.60	.05	3.7			225											
117.80-118.04	443G	0.24	.02	1.5			147											
118.04-118.54	444G	0.50	.02	6.4			231											
118.54-119.04	445G	0.50	.04	4.3			255											
119.04-119.54	446G	0.50	.04	2.8			245											
119.54-120.00	447G	0.46	.04	.9			446											
120.00-120.59	448G	0.59	.02	1.2			343											
120.59-121.05	449G	0.46	.02	1.5			228											
121.05-121.55	450G	0.50	.02	1.3			236											
121.55-121.92	651	0.37																
121.92	EOH																	

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 1 of 5

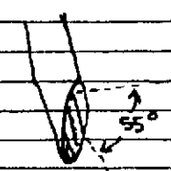
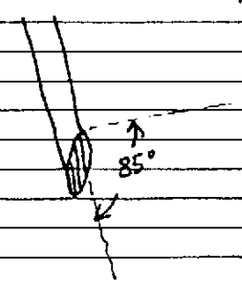
Property: UNUK R.	Project No: 134	Depth: 120.40 m	Date Began: OCT 12/89
Hole No: R-2	Co ord: 178 N	Horizontal Length:	Date Completed: OCT 14/89
Claim No: Coul 1	747 W	Core Size: BGM	Drilled By: VAN ALPHEN DRILLIN
Grid No: "R"	Angle & Grid Direction: -45°/Grid S45E	Elevation:	Logged By: B. GABOURY

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - 3.66	Casing								
3.66 - 14.15	Laminated siltstone with minor black argillite intercalations								
	mildly brecciated, dark to light grey, well-laminated siltstone with minor thin (≤ 3 mm wide) tensional qtz vnlts often at core angles of 45° - 75°. 7-10% py as very fine pervasive impregnation (more intense however along fractures → produces massive py vnlts up to 2 mm wide with much wider enveloping haloes of less py-impregnated host). Entire interval is well silicified:								
	3.66 - 9.60 : ~10% py overall.								
	9.60 - 14.15 : 5-7% py								
	9.60 - 10.80 : fault ; rubbly core plus clayey gouge.								
	CA 11.00 m : 55° shearing // bedding.								
	12.30 - 12.49 : sericitized felsic volcaniclastic (similar to 14.20 - 15.45)								
14.20 - 15.45	Altered Debris Flow								
	smokey grey to greenish mottled sericitized & extremely silicified coarse fragmental with 1-3% py & possible tr aspy. Rock is brecciated & fractures are infilled with sericitic material								
	CA : 14.20 m : 55° upper contact.								
	CA : 15.45 m : 50° lower contact (sharp.)								
15.45 - 50.75	Brecciated interbedded Black Argillite & Grey Laminated Siltstone.								
	Pominantly black argillite with 20-30% grey laminated siltstone intercalations up to 1.0 m wide. Overall contains 1-3% fine py ; generally unsilicified but well brecciated:								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 2 of 5

Property: UNUK R | Project No. 134 | Depth | Date Began
Hole No: R-2 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	16.33 - 19.70 : FAULT ZONE ; blocky, rubbly core, well boxed dark argillite with 1-2% py, some graphite on fracture surfaces. ≥100 fractures/m ; many at ~40° to core axis.								
	18.35-19.20 : ~30% of this interval is composed of qtz vnlts up to 17 cm wide ; minimal sulfides. CA's ≥ 60° (most are > 70°)								
	23.10 - 25.60 : FAULT ZONE ; rubbly broken core plus graphitic clayey gouge								
	CA 23.10m: 75° bedding (siltstone laminae)								
	CA 24.60m: 45° shearing.								
	CA 28.04 : slickenslide 30° / 55° rake								
									
	29.45 - 31.42 ; FAULT ZONE ; rubbly broken core plus clayey gouge (somewhat graphitic), 1-2% fine py								
	CA 29.45 : slickenslide 25°/85° rake								
									

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 3 of 5

Property: UNUK R. | Project No. 134 | Depth | Date Began
Hole No. R-2 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	37.40 - 42.31 : FAULT ZONE ; rubbly broken core plus abundant gouge. Host appears to be dominantly boxed debris flow with 2-3% disseminated py. Contains minor intercalations of banded siltstone with thin barren qtz vnlts cross-cutting. Rock is well crushed & crumbly								
	42.31 - 49.09 : 8-10% py plus possible tr aspy mainly as very fine grained impregnations in bx infilling material or as bx infilling material in irregular greyish boxed qtz vnlts up to 4.0 cm wide. These generally trend along the fabric/bedding of the rock.								
	CA 46.50 m : 50° bedding.								
	48.15 - 48.75 : Small fault, rubbly core composed ~ 40% of boxed qtz. vein material.								
	49.09 - 50.25 : Narrow band of debris flow ; contains 1-3% py as irregular blebs up to 1cm across & as fine disseminations.								
	50.25 - 50.75 : conglomerate ; light colored rudaceous rock composed ~10% of argillitic clasts, 5-10% sericitized felsic volcanic clasts & ~40% light colored greywacke gritstone clasts in a light grey sandy matrix, 5-7% py.								
	CA 50.75 m : 45° lower contact.								
50.75 - 59.70	Silicified Siltstone with minor Black Argillite Intercalations.								
	dominantly laminated siltstone with occassional thin Black Argillite lamina or bands or masses, mildly boxed but intensely silicified; overall 3-5% py plus tr sph !								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 4 of 5

Property: UNUK R | Project No.: 134 | Depth: | Date Began:
Hole No: R-2 | Co ord: | Horizontal Length: | Date Completed:
Claim No.: | Core Size: | Drilled By:
Grid No.: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	50.75 - 53.64 : 1-3% py as fine impregnations or in stgrs.								
	53.64 - 57.30 : 10-15% py in large irregular masses & bands of very fine py impregnated siltstone plus occassionally as thin (< .5cm) stgrs. Possible tr aspy.								
	57.30 - 59.70 : patchy albitization (small white feldspar lathes) 2-3% py plus tr sph as small reddish blebs								
59.70 - 81.69	Rhyodacitic Breccia								
	very silicified light grey coarse felsic fragmental volcanic rock with 3-5% py with occassional tr aspy, in the fine dark grey fracture filling material, as disseminations, blebs and fine stgrs (< 3mm dia). Occassional patchy albitization (small white feldspar lathes)								
81.69 - 120.40	Brecciated interbedded Black Argillite & Grey Laminated Siltstone								
	similar to 15.45 - 50.75 with minor (~10-15%) tuff bands up to ~1.0 m plus one ~2.0 m wide greywacke band; mildly brecciated, unsilicified with an average of 1-3% dissem. py:								
	85.70 - 88.16 : greywacke sandstone ↔ gritstone								
	CA 90.50 m : 70° bedding // weak fabric								
	CA 93.35 m : 75° bedding // weak fabric								
	92.09 - 92.94 : andesite ash tuff with 1-3% py								
	93.35 - 93.90 : small fault, rubbly broken core								
	94.79 - 95.80 : Sheared, brecciated dacite ash tuff w 5% py								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 5 of 5

Property: UNUK R. | Project No. 134 | Depth | Date Began
Hole No. R-2 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No. | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	CA 94.79 m : 65° sheared contact.								
	95.80 - 97.00 : 5% fine dissem py & tr aspy								
	97.00 - 98.00 : sheared, contorted, well sericitized dacite ash tuff with 1-3% fine dissem. py.								
	CA 98.00 m : 65° shearing // contact.								
	98.00 - 100.18 : same as 95.80 - 97.00								
	98.45 - 100.18 : 1.6 m lost core								
	100.18 - 101.19 : somewhat bxed & sericitized dacite ash tuff with ~5% dissem py & tr aspy.								
	101.19 - 102.77 : 1-3% very fine py.								
	102.77 - 103.40 : bxed, silicified, sericitized dacite tuff with 1-3% py.								
	CA 103.40 m : 90° contact.								
	CA 108.50 m : 75° bedding.								
	119.18 - 120.40 : fault zone ; no visible sulfides								
120.40	End of Hole (incapable of drilling further)								
	Acid test 120.40 m : 44° corrected.								

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Page 1 of 4

Property: UNUK K	Project No: 134	Depth	Date Began
Hole No: R-2	Co ord	Horizontal Length	Date Completed
Claim No.		Core Size	Drilled By
Grid No.	Angle & Direction	Elevation	Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au. g/t	Ag. g/t	Cu.	Zn.	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag.	Cu	Zn
0.00 - 3.26	CASING	3.26																
3.26 - 3.66	NO SAMPLE	0.40																
3.66 - 4.00	652G	0.44	.03	3.6			148											
4.00 - 4.60	653G	0.60	.04	3.2			100											
4.60 - 5.18	654G	0.58	.05	6.8			262											
5.18 - 5.50	655G	0.32	.02	3.1			144											
5.50 - 6.00	656G	0.50	.03	3.4			204											
6.00 - 6.50	657G	0.50	.07	6.7			280											
6.50 - 7.00	658G	0.50	.05	5.9			296											
7.00 - 7.50	659G	0.50	.04	5.2			271											
7.50 - 8.00	660G	0.50	.01	1.4			156											
8.00 - 8.30	661G	0.30	.02	1.9			213											
8.30 - 8.80	662G	0.50	.02	1.2			140											
8.80 - 9.30	663G	0.50	.03	1.3			126											
9.30 - 9.60	664G	0.30	.04	.9			59											
9.60 - 10.20	665G	0.60	.04	.8			151											
10.20 - 10.80	666G	0.60	.02	.1			72											
10.80 - 11.28	667G	0.48	.02	.1			52											
11.28 - 11.80	668G	0.52	.03	.1														
11.80 - 12.30	669G	0.50	.09	.4														
12.30 - 12.49	670G	0.19	.02	.9														
12.49 - 13.00	671G	0.51	.08	.7														
13.00 - 13.60	672G	0.60	.04	.8														
13.60 - 14.15	673G	0.55	.05	.4														
14.15 - 14.65	674G	0.50	.03	.1														
14.65 - 15.10	675G	0.45	.02	.1														
15.10 - 15.45	676G	0.25	.01	.1														
15.45 - 15.90	677G	0.45	.03	.6														
15.90 - 16.33	678G	0.43	.05	.6														
16.33 - 16.80	679G	0.47	.04	.2														
16.80 - 17.45	680G	0.65	.01	.1														
17.45 - 17.85	681G	0.40	.03	.2														
17.85 - 18.22	682G	0.37	.04	.3														
18.35 - 18.75	683G	0.40	.04	.5														
18.75 - 19.20	684G	0.45	.01	.1														
19.20 - 19.70	685G	0.50	.02	.3														
19.70 - 20.20	686G	0.50	.02	.2														
20.20 - 20.73	687G	0.53	.01	.1														
20.73 - 21.15	688G	0.42	.02	.4														
21.15 - 21.28	689G	0.13	.01	.1														

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property | Project No | Depth | Date Began

Hole No. R-2 | Co ord | Horizontal Length | Date Completed

Claim No | Core Size | Drilled By

Grid No. | Angle & Direction | Elevation | Logged By

INTERVAL FEET / METRES	NUMBER	WIDTH	Au. g/t	Ag. g/t	Cu.	Zn.	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu	Zn
21.28-21.50	690G	0.22	.03	.2			56											
21.50-21.68	691G	0.13	.02	.1			16											
21.68-22.50	692G	0.82	.03	.3			47											
22.50-23.10	693G	0.60	.02	.1			27											
23.10-23.90	694G	0.80	.03	.2			38											
23.90-24.40	695G	0.50	.04	.2			64											
24.40-25.00	696G	0.60	.01	.2			38											
25.00-25.60	697G	0.60	.02	.1			37											
25.60-26.21	698G	0.61	.01	.1			33											
26.21-26.80	699G	0.59	.02	.2			47											
26.80-27.40	700G	0.60	.01	.1			52											
27.40-28.04	451G	0.64	.02	.2			43											
28.04-28.64	452G	0.60	.01	.1			43											
28.64-29.45	453G	0.81	.01	.5			41											
29.45-30.00	454G	0.65	.01	.2			43											
30.00-30.48	455G	0.48	.02	.6			54											
30.48-30.90	456G	0.42	.01	.2			51											
30.90-31.42	457G	0.52	.01	.6			64											
31.42-32.05	458G	0.63	.01	.2			24											
32.05-32.55	459G	0.50	.01	.1			20											
32.55-33.02	460G	0.47	.01	.1			22											
33.02-33.62	461G	0.60	.01	.2			31											
33.62-34.20	462G	0.58	.01	.3			29											
34.20-34.80	463G	0.60	.01	.2			40											
34.80-35.40	464G	0.60	.01	.5			48											
35.40-36.00	465G	0.60	.02	.2			42											
36.00-36.70	466G	0.70	.01	.1			39											
36.70-37.40	467G	0.70	.01	.3			40											
37.40-38.40	468G	1.00	.01	.3			76											
38.40-39.01	469G	0.61	.01	.5			20											
39.01-39.50	470G	0.49	.01	.5			26											
39.50-40.00	471G	0.50	.01	.2			21											
40.00-41.00	472G	1.00	.01	.7			38											
41.00-42.06	473G	1.06	.01	.5			58											
42.06-42.31	474G	0.25	.07	4.5			287											
42.31-42.81	475G	0.50	.06	5.2			245											
42.81-55.78	waste	12.97																

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Page 3 of 4

Property	Project No	Depth	Date Began
Hole No R-2	Co ord	Horizontal Length	Date Completed
Claim No		Core Size	Drilled By
Grid No.	Angle & Direction	Elevation	Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au g/t	Ag g/t	Cu	Zn	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag	Cu	Zn
55.78 - 56.40	R-2-1		.06	8.6			149											
56.40 - 56.87	R-2-2		.07	8.1			174											
56.87 - 57.30	R-2-3		.10	9.5			485											
57.30 - 57.90	R-2-4		.04	2.2			213											
57.90 - 58.50	R-2-5		.01	1.8			57											
58.50 - 58.90	R-2-6		.15	3.6			238											
58.90 - 59.30	R-2-7		.04	1.7			76											
59.30 - 59.70	R-2-8		.04	5.8			140											
59.70 - 60.30	R-2-9		.05	.7			92											
60.30 - 60.90	R-2-10		.05	.7			65											
60.90 - 61.50	R-2-11		.02	.4			77											
61.50 - 62.10	R-2-12		.02	.1			115											
62.10 - 62.70	R-2-13		.01	.4			76											
62.70 - 63.40	R-2-14		.01	.7			61											
63.40 - 64.00	R-2-15		.03	.4			143											
64.00 - 64.60	R-2-16		.04	.1			345											
64.60 - 65.20	R-2-17		.03	.1			177											
65.20 - 65.80	R-2-18		.02	.1			189											
65.80 - 66.45	R-2-19		.01	.1			186											
66.45 - 67.05	R-2-20		.02	.2			172											
67.05 67.60	R-2-21		.03	.1			131											
67.60 - 68.20	R-2-22		.07	.1			189											
68.20 - 68.80	R-2-23		.09	.4			195											
68.80 - 69.50	R-2-24		.05	.2			133											
69.50 - 70.10	R-2-25		.02	.1			103											
70.10 - 70.75	R-2-26		.05	.2			114											
70.75 - 70.90	R-2-27		.02	.1			104											
70.90 - 71.40	R-2-28		.03	.1			98											
71.40 - 72.00	R-2-29		.09	.2			161											
72.00 - 72.60	R-2-30		.04	.2			111											
72.60 - 73.20	R-2-31		.02	.1			134											
73.20 - 73.80	R-2-32		.02	.1			168											
73.80 - 74.40	R-2-33		.05	.1			120											
74.40 - 75.00	R-2-34		.05	.1			205											
75.00 - 75.60	R-2-35		.06	.4			94											

GRANGES EXPLORATION LTD.
DIAMOND DRILL RECORD

Property | Project No | Depth | Date Began
Hole No. R-2 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No | Angle & Direction | Elevation | Logged By

INTERVAL FEET (METRES)	NUMBER	WIDTH	Au. g/t	Ag. g/t	Cu.	Zn.	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au.	Ag.	Cu.	Zn
75.60-76.20	R-236		.03	.4														
76.20-76.80	R-2-37		.04	.3														
76.80-77.60	R-2-38		.02	.3			79											
77.60-78.20	R-2-39		.02	.3			124											
78.20-78.80	R-2-40		.05	.5			227											
78.80-79.40	R-2-41		.04	.3			106											
79.40-80.00	R-2-42		.02	.3			110											
80.00-80.50	R-2-43		.06	.1			116											
80.50-81.10	R-2-44		.04	.3			91											
81.10-81.69	R-2-45		.09	.7			151											
81.69-82.30	R-2-46		.04	1.7			133											
82.30-82.90	R-2-47		.03	2.6			159											
82.90-83.50	R-2-48		.03	.5			105											
83.50-84.10	R-2-49		.01	.1			23											
84.10-91.54	NO SAMPLE		—	—			—											
91.54-92.09	R-2-50		.03	.3														
92.09-92.59	R-2-51		.01	.1														
92.59-92.94	R-2-52		.01	.1														
92.94-93.35	R-2-53		.09	1.6														
93.35-93.98	R-2-54		.04	2.9														
93.98-94.79	R-2-55		.02	1.9			49											
94.79-95.30	R-2-56		.02	.5			177											
95.30-95.80	R-2-57		.01	.7			112											
95.80-96.32	R-2-58		.02	.4			44											
96.32-96.62	R-2-59		.01	.9			164											
96.62-97.00	R-2-60		.05	.9			350											
97.00-98.00	R-2-61		.02	.5			15											
98.00-98.45	R-2-62		.03	5.0			119											
98.45-100.18	R-2-63		.01	2.4			72											
100.18-100.65	R-2-64		.01	.1			74											
100.68-101.19	R-2-65		.01	.1														
101.19-101.79	R-2-66		.01	.8														
101.79-102.34	R-2-67		.01	.2														
102.34-102.77	R-2-68		.02	.9														
102.77-103.40	R-2-69		.05	.1														
103.40-104.00	R-2-70		.02	.6														
104.00-104.60	R-2-71		.02	.2														
104.60-120.40	waste																	
120.40	EOH																	

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 1 of

Property	UNUK R	Project No.	134	Depth	102.11 m	Date Began	OCT 14/89
Hole No.	R-3	Coord.	115 N	Horizontal Length		Date Completed	OCT 15/89
Claim No.	Coul 1		775 W	Core Size	BGM	Drilled By	Van Alphen Drilling
Grid No.	"R"	Angle & Grid Direction	-45°/Grid S45E	Elevation		Logged By	B. Gaboury

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
0 - 4.57	Casing								
4.57 - 39.17	Brecciated Interbedded Black Argillite & Laminated Grey Siltstone								
	dominantly a fine grained black argillite with ~20% lighter grey, often finely laminated bands of siltstone & light colored argillite up to several tens of cm wide (brecciation is most apparent in the lighter colored sections). Occassional thin cross-cutting or concordant qtz vnlt up to 3 cm wide. Overall contains 1-2 % py as very fine disseminated interstitial py:								
	7.80 - 11.70 : Fault ; rubbly broken core plus clayey gouge.								
	CA. 16.10 m : 55° banding.								
	22.12 - 26.60 : 2-4% overall py as thin concordant fine py impregnated bands up to ~1cm wide (individual bands carry up to 20%+py)								
	26.60 - 28.10 : 30 - 40% light grey qtz-bx veins up to ~10 cm wide containing ~15-20% py as fine disseminations & as coarse fractured blebs, may contain appreciable aspy (Overall contains 4-6% py & tr aspy)								
	28.10 - 31.80 : similar to 22.12 - 26.60 with overall 3-5% py & tr aspy in small concordant sulfide impregnated bands.								
	CA 30.80 m : 75° banding								
	31.80 - 33.70 : Fault Zone ; rubbly broken core & clayey somewhat graphitic gouge. (60-70% core recovery)								
	32.70 - 33.70 : contorted interval with overall 5-10% py ± aspy as coarse fractured blebs associated with								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 2 of 3

Property: UNUK R | Project No: 134 | Depth: | Date Began:
Hole No: R-3 | Co ord: | Horizontal Length: | Date Completed:
Claim No: | Core Size: | Drilled By:
Grid No: | Angle & Grid Direction: | Elevation: | Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	brecciated qtz-sulfide veins up to 10 cm wide & as very fine grained impregnations.								
	33.70 - 34.92 : somewhat sheared interval similar to 32.70-33.70 with overall 4-6% py + aspy in irregular sulfide impregnated bands & in dismembered greyish qtz-bx bands (bands with 25%+ fine sulfides comprise 15-20% of the interval).								
	34.92 - 36.27 : 1-3% py in a bxed black argillite with 15-20% subrounded to angular qtz clasts up to ~1 cm dia. Minor thin qtz-bx vnlts w tr reddish sph.								
	36.27 - 39.17 : similar to 33.70 - 34.92 with minor sections similar to 34.92 - 36.27; overall 4-6% py + aspy (sulfide impregnated bands comprise 20% of interval) CA's vary from 65°-90°.								
39.17 - 39.90	Brecciated Felsic Volcanic Band								
	contains 5-7% py as blebs & fine disseminations within the matrix plus ~1-2% aspy as disseminated needle-like crystals. The rock consists of dominantly white felsic lapilli-sized clasts plus minor argillitic clasts surrounded by a fine grained dark colored sulfide-bearing matrix.								
39.90 - 75.30	Brecciated Interbedded Black Argillite & Laminated Grey Siltstone.								
	similar to 4.57 - 39.17, overall 1-2% py								
	39.90 - 41.10 : similar to 22.12 - 26.60 overall 2-4% fine py.								

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY: Page 3 of 3

Property: UNUK R | Project No. 134 | Depth | Date Began
Hole No: R-3 | Co ord | Horizontal Length | Date Completed
Claim No. | Core Size | Drilled By
Grid No | Angle & Grid Direction | Elevation | Logged By

INTERVAL FEET (METRES)	DESCRIPTION	SAMPLE RECORD FROM	TO	SAMPLE	WIDTH	Au G/T	Ag G/T	Cu %	Zn %
	41.10 - 41.65 : boxed greywacke gritstone w 2-3% dissem. py.								
	CA 45.80 m : 57° bedding								
	CA 54.60 m : 50° bedding								
	60.76 - 61.25 : well silicified boxed laminated siltstone with 2-4% fine py + tr aspy.								
	63.60 - 64.55 : boxed greywacke gritstone with ~ 3-5% aspy as long needle-shaped crystals, plus 1-3% fine dissem. py.								
	CA 65.75 m : 55° weak fabric ~ // bedding.								
75.30 - 78.18	Dacite Ash Tuff								
	light grey, sheared silicified & mildly contorted ; contains 2-4% py + aspy . Upper & lower contacts are sericitized								
	CA 76.00 : 50° fabric								
	CA 78.18 : 90° contact								
78.18 - 102.11	Brecciated Interbedded Black Argillite & Laminated Grey Siltstone								
	similar to 39.90 - 75.30 , overall 2-4% py.								
	78.18 - 83.76 : 3-5% py as thin greyish qtz-sulfide bx vnlts & as fine grained impregnations.								
	83.76 - 84.46 : light grey boxed siltstone with 3-5% py as fine grained impregnations & as rounded concretionary blebs up to 1cm dia.								
	CA 83.70 : 50° shearing.								
102.11	End of Hole								
	Acid Test 102.11 m : 45° corrected.								

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Page 1 of 2

Property	UNUK R	Project No	134	Depth	Date Began
Hole No	R-3	Co ord		Horizontal Length	Date Completed
Claim No.				Core Size	Drilled By
Grid No.		Angle & Direction		Elevation	Logged By

INTERVAL FEET / METRES	NUMBER	WIDTH	Au g/t	Ag g/t	Cu	Zn.	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag	Cu	Zn
0 - 4.57	casing																	
4.57 - 21.17	waste																	
21.17 - 21.67	R-3-1																	
21.67 - 22.12	R-3-2																	
22.12 - 22.62	R-3-3																	
22.62 - 23.15	R-3-4																	
23.15 - 23.70	R-3-5																	
23.70 - 24.50	R-3-6																	
24.50 - 25.00	R-3-7																	
25.00 - 25.50	R-3-8																	
25.50 - 26.00	R-3-9																	
26.00 - 26.60	R-3-10																	
26.60 - 27.10	R-3-11																	
27.10 - 27.60	R-3-12																	
27.60 - 28.10	R-3-13																	
28.10 - 28.60	R-3-14																	
28.60 - 29.10	R-3-15																	
29.10 - 29.60	R-3-16		.02	.4			101											
29.60 - 30.00	R-3-17		.01	.3			82											
30.00 - 30.48	R-3-18		.01	.2			58											
30.48 - 30.90	R-3-19		.01	.5			94											
30.90 - 31.40	R-3-20		.01	1.0			94											
31.40 - 31.80	R-3-21		.01	.4			68											
31.80 - 32.70	R-3-22		.04	1.4			129											
32.70 - 33.40	R-3-23		.07	2.4			295											
33.40 - 33.70	R-3-24		.06	2.2			642											
33.70 - 34.30	R-3-25		.04	1.8			294											
34.30 - 34.92	R-3-26		.04	2.6			311											
34.92 - 35.67	R-3-27		.01	.2			51											
35.67 - 36.27	R-3-28		.01	1.0			108											
36.27 - 36.80	R-3-29		.09	5.2			262											
36.80 - 37.30	R-3-30		.08	3.4			198											
37.30 - 37.80	R-3-31		.05	1.9			198											
37.80 - 38.30	R-3-32		.01	7.9			287											
38.30 - 38.80	R-3-33		.17	12.8			391											
38.80 - 39.17	R-3-34		.23	14.0			524											
39.17 - 39.50	R-3-35		.23	9.1			712											
39.50 - 39.90	R-3-36		.05	1.8			201											
39.90 - 40.40	R-3-37		.03	2.8			119											
40.40 - 41.10	R-3-38		.05	2.6			162											

GRANGES EXPLORATION LTD.

DIAMOND DRILL RECORD

Property: Unuk R | Project No: 134 | Depth | Date Began

Hole No.: R-3 | Co ord | Horizontal Length | Date Completed

Claim No. | Core Size | Drilled By

Page 2.2 | Grid No | Angle & Direction | Elevation | Logged By

INTERVAL FEET/METRES	NUMBER	WIDTH	Au g/t	Ag. g/t	Cu.	Zn.	As ppm	WIDTH X ASSAY						AVERAGES WIDTH	Au	Ag.	Cu	Zn
41.10 - 41.65	R-3-39		.01	.2														
41.65 - 42.15	R-3-40		.03	.5														
42.15 - 42.65	R-3-41		.02	.3														
42.65 - 59.76	Waste		—	—			—											
59.76 - 60.26	R-3-42		.01	.2														
60.26 - 60.76	R-3-43		.01	.5														
60.76 - 61.25	R-3-44		.01	1.2														
61.25 - 61.85	R-3-45		.01	.2														
61.85 - 62.60	R-3-46		.01	.1														
62.60 - 63.10	R-3-47		.01	.1														
63.10 - 63.60	R-3-48		.01	.1														
63.60 - 64.10	R-3-49		.01	.1														
64.10 - 64.55	R-3-50		.03	.2														
64.55 - 64.75	R-3-51		.01	.3														
64.75 - 65.25	R-3-52		.01	.1														
65.24 - 65.75	R-3-53		.01	.4														
65.75 - 74.30	Waste		—	—			—											
74.30 - 74.80	R-3-54		.03	.4														
74.80 - 75.30	R-3-55		.02	1.4														
75.30 - 75.80	R-3-56		.01	.1														
75.80 - 76.30	R-3-57		.01	.1														
76.30 - 76.80	R-3-58		.01	.4														
76.80 - 77.30	R-3-59		.01	.2														
77.30 - 78.18	R-3-60		.01	.1														
78.18 - 78.68	R-3-61		.02	.4														
78.68 - 79.20	R-3-62		.01	.2														
79.20 - 79.71	R-3-63		.02	.2														
79.71 - 80.23	R-3-64		.02	.2														
80.23 - 80.83	R-3-65		.02	.1														
80.83 - 81.43	R-3-66		.03	.1														
81.43 - 81.93	R-3-67		.01	.1														
81.93 - 82.43	R-3-68		.01	.2														
82.43 - 82.76	R-3-69		.07	.1														
82.76 - 83.26	R-3-70		.23	.1														
83.26 - 83.76	R-3-71		.03	.4														
83.76 - 84.11	R-3-72		.02	.4														
84.11 - 84.46	R-3-73		.02	.2														
84.46 - 84.96	R-3-74		.17	.2														
84.96 - 85.50	R-3-75		.02	.2														
85.50 - 102.11	waste																	
102.11	EOH																	