

MAP NO.: 115 II 7
ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092773
MINING DISTRICT: Whitehorse
TYPE OF WORK: Prospecting

REPORT FILED UNDER: Golden Quail Resources Limited

DATE PERFORMED: 10-11 September, 1989

DATE FILED: 18 December, 1989

LOCATION: LAT.: 61°25'N

AREA: Kirkland Creek

LONG.: 136°45'W

VALUE \$: 3 600.00

CLAIM NAME & NO.: NICK 661-696(YB25309-44)

WORK DONE BY: E. Lambert, S. Young

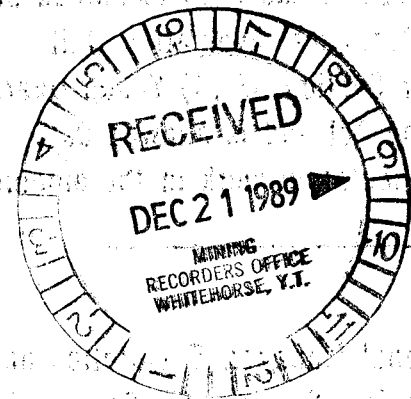
WORK DONE FOR: Golden Quail Resources Ltd

DATE TO GOOD STANDING:

REMARKS: SATO # 15

The claims cover a former porphyry copper prospect, with disseminated chalcopyrite, pyrite and molybdenite in a northeast-trending zone 254 x 105 m in brecciated diorite. Only two samples were collected. A heavy mineral concentrate returned anomalous gold and arsenic values (1050 ppb Au, 33 ppm As).

PROSPECTING REPORT
on the
NICK II CLAIM GROUP
Kirkland Creek, Yukon



WHITEHORSE MINING DISTRICT, YUKON

NTS: 115H - 7

LATITUDE: $61^{\circ} 25' N$ LONGITUDE: $136^{\circ} 45' W$

for

GOLDEN QUAIL RESOURCES LTD.
1022-470 Granville St
Vancouver, B.C.

by

ELLEN LAMBERT, M.Sc., FGAC
Vancouver, B.C.

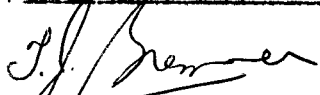
Work Supervised by: Seamus Young
Between the Dates: Sept. 10-11, 1989

December 18, 1989

092773

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount

of \$ 3600.00.



for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

377 200

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INTRODUCTION

A geochemical survey was undertaken on the Nick II Claim Group in September, 1989 for Golden Quail Resources Ltd. and included the collection of 1 heavy metal and 1 rock sample. This report describes the 1989 exploration program and is based on all information made available to the author.

Location: The property is situated west of Kirkland Creek, 120 km northwest of Whitehorse, Yukon (Figure 1). It is in the Whitehorse Mining District at Latitude: 61° 25'N and Longitude: 136° 45'W, NTS Map 115H - 7. Supplies and communication are available in the town of Carmacks, 50 km to the northeast.

Access: Access to the property is attained by helicopter either from Aishihik Lake (25 km to the west) or from the Klondike Highway (30 km to the east).

Physiography: Topography of the claim area consists of low, rounded hills covered by grasses and buckbrush. Elevation ranges from 1150 to 1600 meters. Stream valleys are sparsely forested with small, deciduous trees. Temperature extremes range from +30° C in the summer to -45° C in the winter, and precipitation averages 30 cm per year.

Claims Information: The property is comprised of 36 units covering an area approximately 752 hectares in size. The claims are owned by Seamus Young (Vancouver, B.C.) and include the following: Nick 661-696 (File #'s: YB 25309-25344)(see Figure 2).

History: The following is taken from Adamson (1989):

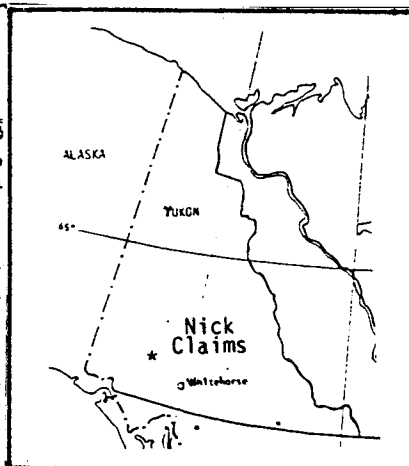
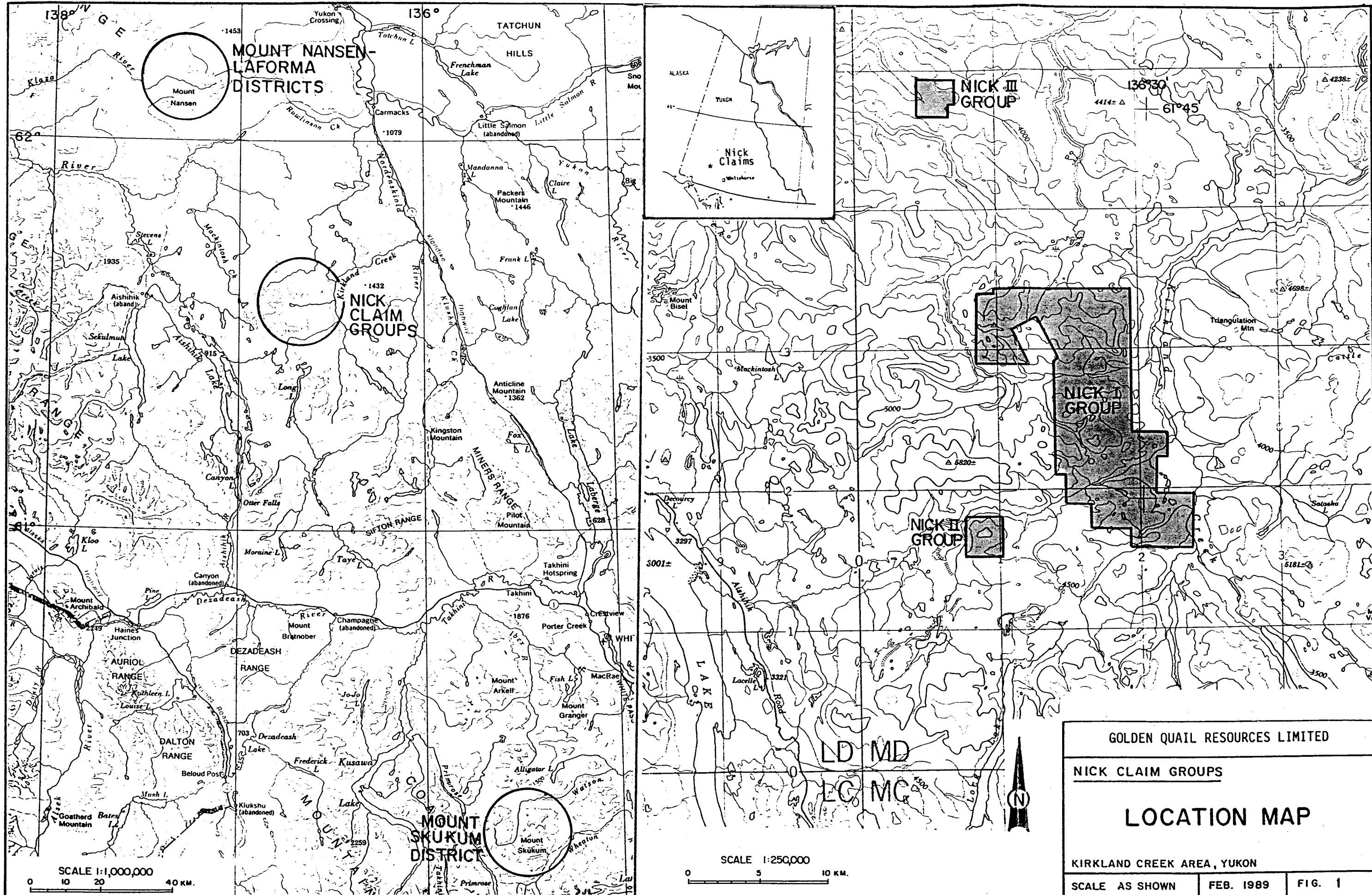
"The west Kirkland Creek area was explored for porphyry copper-molybdenum deposits during the 1970's. A number of prospects (KL or SATO, TAH or BUFFALO, TOSH and LION) were staked. The KL (now the Nick II Group) and the TAH (now the Nick III Group) were drilled by Mitsubishi Metal Mining and Noranda Explorations respectively. During this period, the BUN unconformity uranium prospect was also staked and drilled by Archer Cathro and Associates for the Ukon Joint Venture.

In the 1980's, several gold prospects (MAG, JIMBO, SNAP, LUSCAS, PAUL AND PHIL) were staked. To date, no drilling has taken place on any of them. Also during this decade, placer claims were staked and explored for alluvial gold on the three creeks draining easterly into Kirkland Creek."

REGIONAL GEOLOGY

Regional Geology: The following is taken from Adamson (1989):

"The region west of Kirkland Creek and east of Aishihik Lake lies within the Yukon Crystalline Terrane, an allochthonous segment of the Yukon. Basement rocks in the area of interest consist



SCALE 1:1,000,000
0 10 20 40 KM.

SCALE 1:250,000
0 5 10 KM.

GOLDEN QUAIL RESOURCES LIMITED		
NICK CLAIM GROUPS		
LOCATION MAP		
KIRIKLAND CREEK AREA, YUKON		
SCALE AS SHOWN	FEB. 1989	FIG. 1

GOLDEN QUAIL RESOURCES LIMITED

NICK CLAIM GROUPS

PROPERTY MAP

KIRKLAND CREEK AREA, YUKON

SCALE AS SHOWN

FEB. 1989

FIG. 2

771	772	773	774	775
776	777	778	779	780
781	782	783	784	785
786	787	788	789	790
791	792	793	794	795

NICK III
GROUP

115H-15

PHIL

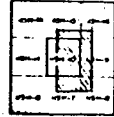
NICK I GROUP

115H-10

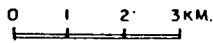
115H-9

115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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PAUL



Placer claims



NICK II
GROUP

115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638
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primarily of a Triassic age intrusive body of batholithic dimensions. It trends northwesterly for approximately 85 kilometers and averages 35 kilometers in width. Its composition ranges from quartz monzonite to granodiorite. It appears to be bounded on the east by a fault of regional magnitude that projects northerly up the valley of Kirkland Creek (Figure 3).

"Tertiary age (Eocene?) volcanic rocks consisting mainly of acidic tuffs unconformably overlie the granitic body. Andesitic rocks apparently occur within the sequence but are not common. A number of magnetically high anomalies in this volcanic terrane probably reflect plugs and necks that are feeders to the volcanics. A regolith was evidently developed on the granitic rocks before deposition of the volcanic formations.

"The major structural feature in the area is the northwesterly striking, east-bounding Kirkland Creek Fault. It may continue along strike as much as 100 kilometers. The volcanic formations are for the most part gently dipping (10-15 degrees). Steeper dips (35-40 degrees) prevail near the fault. Second order faults striking east northeast occur east of Kirkland Creek. Topographic and aeromagnetic lineaments indicate these structures project westward through the area of interest."

Regional Mineralization: The Yukon Crystalline Terrane extends from the British Columbia border northwestward to the Alaska border and is host to many lode (vein) and placer gold deposits. Significant gold production has taken place from the Klondike, Mt. Freegold, Mt. Nansen, Mt. Skukum and Montana Mountain districts. The Nick II claim group lies between the Mt. Skukum and Mt. Nansen gold districts (Figure 1), both of which host epithermal gold deposits emplaced along faults and fissures in young volcanic rocks.

PROPERTY GEOLOGY

Rock Types: The property is underlain by Triassic(?) pink quartz monzonite and brecciated diorite. Rhyolite and granite-porphyry dikes intrude the quartz monzonite.

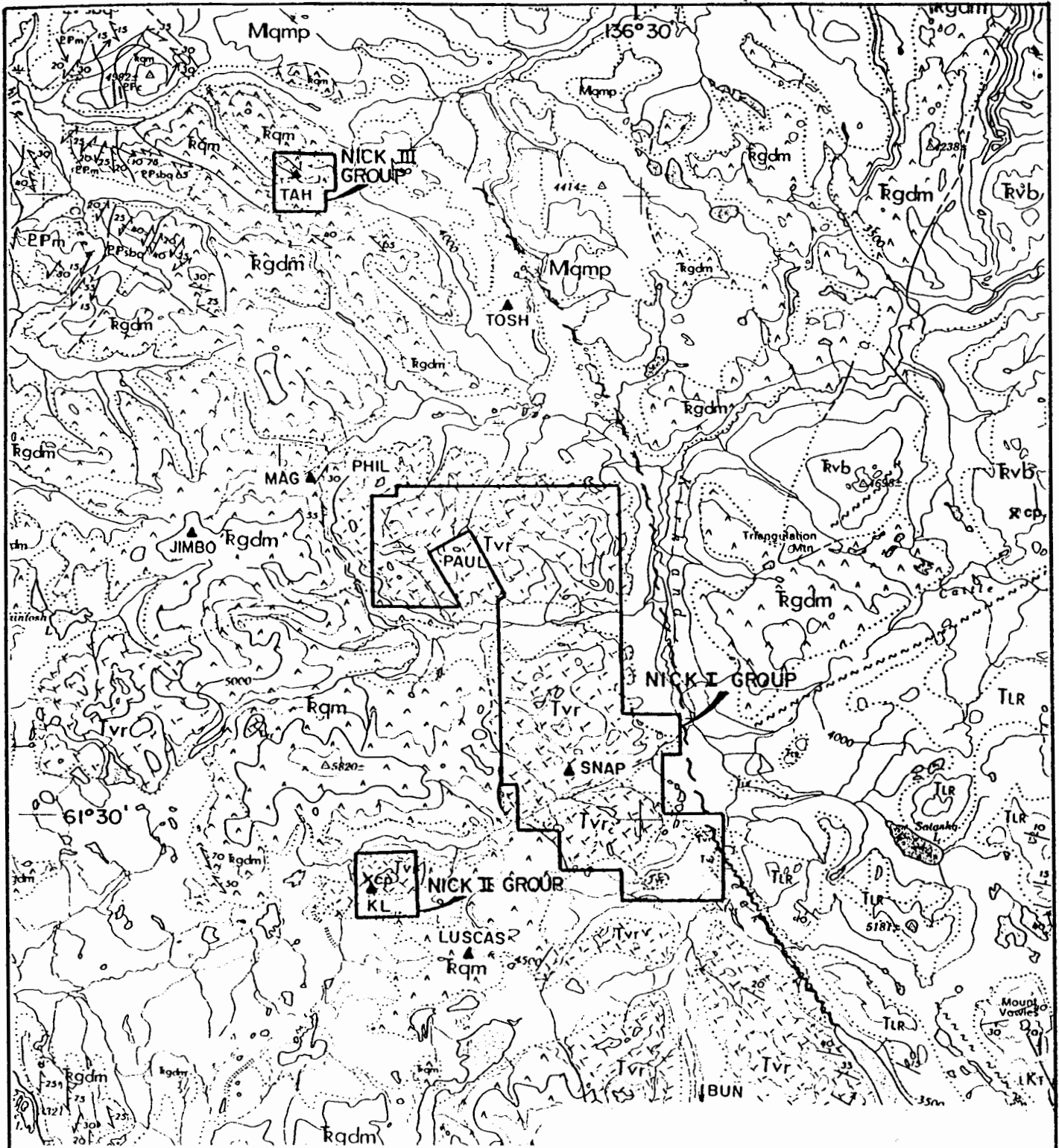
Structure: The Nick II claim group lies 13 km west of a major northwest-trending fault zone, the Kirkland Creek Fault. Large, northeast-trending faults locally intersect this major fault.

Mineralization: The following is taken from Adamson (1989):

"The Nick II property is a former porphyry copper prospect, previously owned by Mitsubishi Metal Mining Co. and explored on its behalf by Archer Cathro and Associates.

"Disseminated chalcopyrite and pyrite with minor molybdenite occur in a zone trending northeasterly. The host rock is described as a brecciated diorite. The length of the zone on surface is approximately 245 meters; its width is about 105 meters.

"Exploration undertaken in 1971 comprised drilling seven core



EOCENE

ACIDIC TUFF (and feldspar plugs) (Tvr)

TRIASSIC (?)

GRANITIC ROCKS (Rgdm, Rqm, Rgd)

FAULT (defined, inferred)

MINERAL OCCURRENCE

AFTER G.S.C. MAP 17-1973

0 5 10 KM.



GOLDEN QUAIL RESOURCES LTD.

NICK CLAIM GROUPS

REGIONAL GEOLOGY

KIRKLAND CREEK AREA, YUKON

SCALE 1:250,000

FEB. 1989

FIG. 3

holes (789 meters) on the zone. The results were discouraging; the copper grade proved to be too low to be of economic interest. Evidently the core was not assayed for gold."

1989 EXPLORATION PROGRAM

Procedure: The basic goal of the 1989 field season was to conduct a preliminary examination of the claim and collect samples of interest. One rock sample and one heavy metal sample were collected. The rock sample was analyzed for gold, platinum and palladium by fire geochem. The heavy metal sample was crushed to -150 mesh size, and both the -150 and -10+150 fractions were analyzed for gold, platinum, palladium and 30-element ICP. Assay results and analytical procedures appear in the appendix.

Results: The heavy metal sample returned anomalous values in gold and arsenic: 1050 ppb Au and 33 ppm As (Figure 4). Platinum and palladium were low. The rock sample returned low values in Au, Pt and Pd.

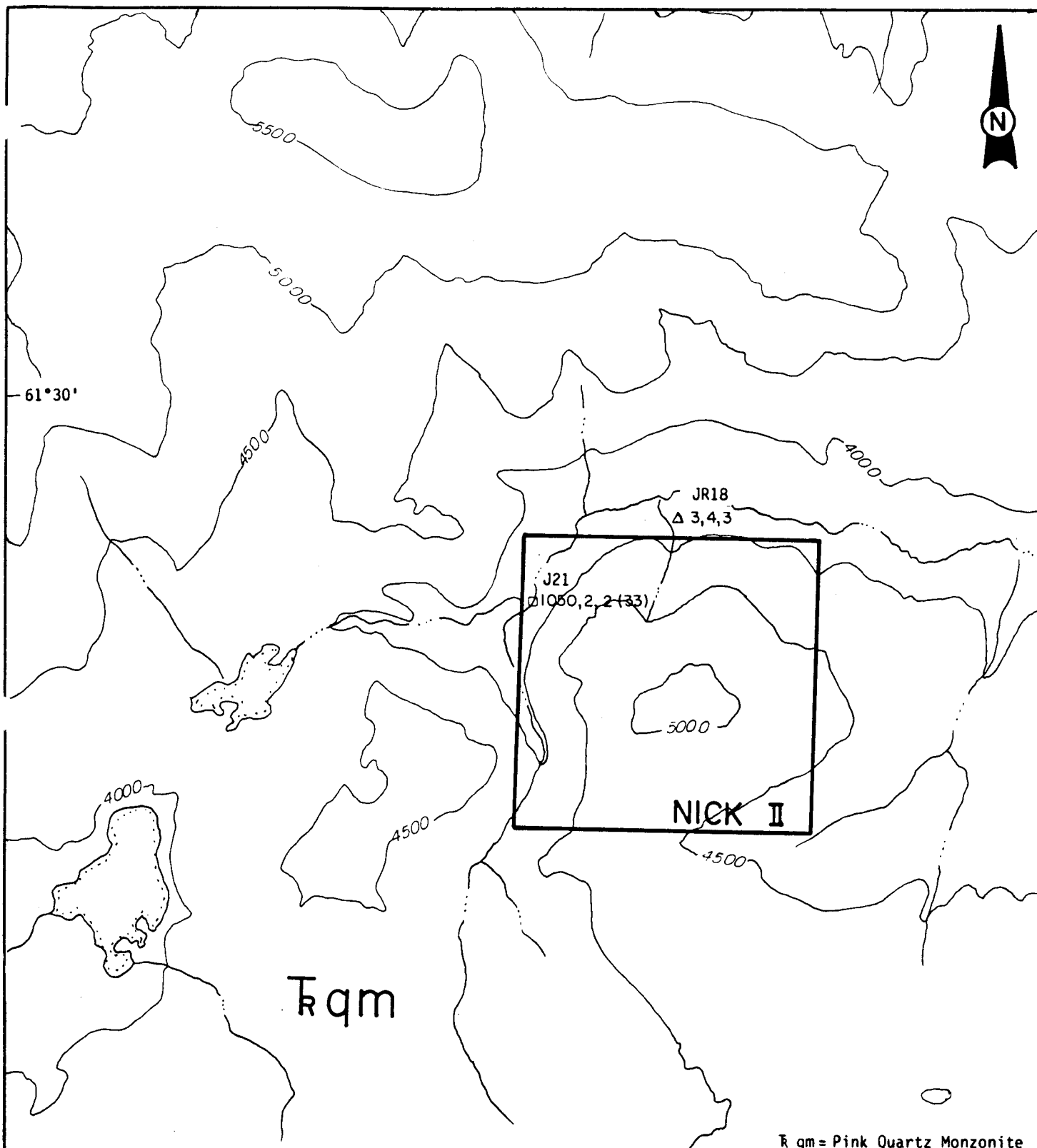
CONCLUSIONS AND RECOMMENDATIONS

Preliminary work on the Nick II property consisted of collecting a rock sample and a heavy metal sample from a northerly flowing stream located along the western boundary of the claim. The heavy metal sample returned high values in gold and arsenic (1050 ppb Au and 33 ppm As).

It is recommended that follow-up geochemistry (soil, silt, heavy metal sampling) and detailed prospecting be conducted on the Nick II property to try to locate the source of gold recovered in the 1989 heavy metal sample.

REFERENCES

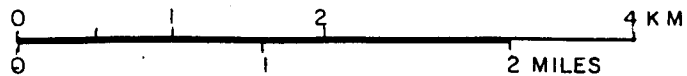
Adamson, R.S., 1989, Summary Report on the Nick Claim Groups, Kirkland Creek, Yukon: unpublished company report for Long Lake Syndicate.



R qm = Pink Quartz Monzonite

- ▲ Rock Sample
- ▣ Heavy Metal Sample

6,3,1(9) Au, Pt, Pd in ppb (As in ppm)



GOLDEN QUAIL RESOURCES LTD.	
NICK CLAIM GROUP	
GEOCHEMISTRY	
N.T.S. 115H-7,	LONG LAKE AREA, YUKON
SCALE 1:50,000	DATE DEC 1984
	FIGURE NO 4

STATEMENT OF COSTS


Personnel		\$ 1,350.00
G. Delorme, 1022-470 Granville St, Van BC 9/10-9/11, 2 days @ \$175/day	\$ 350.00	
D. Javorsky, same, 9/10-9/11 2 days @ \$150/day	300.00	
S. Young, same, 9/10-9/11 2 days @ \$250/day	500.00	
T. Young, same, 9/10-9/11 2 days @ \$100/day	200.00	
Employee Expenses (15% of wages)		202.50
Equipment and Supplies		500.00
Air Support (Helicopter)		1,500.00
Assaying (1 heavy metal, 1 rock)		26.00
Report		300.00
Management Fee (10%)		<u>387.85</u>
	TOTAL	<u><u>\$4,266.35</u></u>


STATEMENT OF QUALIFICATIONS

I, Ellen Lambert, of 5949 Toderick St., Vancouver, British Columbia, hereby certify that:

1. I am a Fellow of the Geological Association of Canada.
2. I have a Bachelor's Degree in Geology from the University of Washington (1979) and a Master's Degree in Geology from the University of New Mexico (1983).
3. I have practised as a geologist part time since 1979 and full time in mineral exploration since 1986 in the United States and Canada.
4. This report is based upon all data made available to me on the 1989 exploration program.
5. I have no interest, direct or indirect, in the properties or securities of Golden Quail Resources, Ltd., nor do I expect to receive any such interest.

December 18, 1989


E. E. LAMBERT
FELLOW
M.Sc. F.G.A.C.



APPENDIX

**Analytical Procedures
Assay Certificates**

ANALYTICAL PROCEDURES

Gold, Platinum, Palladium Fire Geochem: The same drying, crushing and sieving method used for gold geochem (wet) is used for this method. A sample weighing 15-30 grams is fire assayed preconcentrated. After pretreatments the samples are digested with aqua regia solution, and after digestion the samples are taken up with aqua regia to suitable volume. With a set of suitable standard solutions gold is analyzed by sequential inductively coupled plasma analyzer along with platinum and palladium.

31 Element ICP: The same drying, crushing and sieving method used for gold geochem (wet) is used for this method. 1.0 gram of the sample is then digested for 4 hours with an aqua regia HClO_4 mixture. After cooling, samples are diluted to standard volume. The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.



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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1133-PG2

Company: DONEGAL DEVELOPMENTS
Project: D-19-89
Attn: S. YOUNG/D. JAVORSKY

Date: SEP-24-89
Copy 1. DONEGAL DEV., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 14 PULP samples submitted SEP-16-89 by S. YOUNG.

Sample Number	AU-FIRE	PT-FIRE	PD-FIRE
	PPB	PPB	PPB
J15 -150	1190	5	3
J16 -150	513	3	2
J17 -150	1830	16	1
J18 -150	3	1	2
J19 -150	2	2	1

J20 -150	139	1	1
J21 -150	1050	2	2
J15 -10+150	1	1	1
J16 -10+150	1	1	2
J17 -10+150	242	1	1

J18 -10+150	1	1	1
J19 -10+150	1	1	1
J20 -10+150	1	1	1
J21 -10+150	1	2	1

Certified by

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Geochemical Analysis Certificate

9V-1133-RG1

Company: DONEGAL DEVELOPMENTS
Project: D-19-89
Attn: S. YOUNG/D. JAVORSKY

Date: SEP-20-89
Copy 1. DONEGAL DEV., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 16 ROCK samples submitted SEP-16-89 by S. YOUNG.

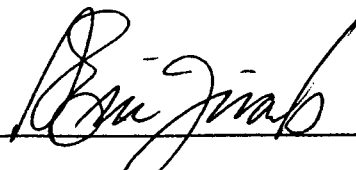
Sample Number	AU-FIRE PFB	PT-FIRE PFB	PD-FIRE PFB
JR-09	NO	SAMPLE	
JR-10	NO	SAMPLE	
JR-11	1	1	1
JR-12	2	1	1
JR-13	1	1	1

JR-14	1	2	1
JR-15	11	3	2
JR-16	1	3	1
JR-17	1	1	1
JR-18	3	4	3

SR-03	1	2	1
SR-04	20	7	1
SR-05	1	1	1
SR-06	4	2	2
SR-07	2	1	1

SR-08	1	2	1

Certified by



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