

MAP NO.: ASSESSMENT REPORT X
115 II 7-10,15 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092772
MINING DISTRICT: Whitehorse
TYPE OF WORK: Geochemical

REPORT FILED UNDER: Golden Quail Resources Limited

DATE PERFORMED: 26 August-9 September, 1989

DATE FILED: 28 December, 1989

LOCATION: LAT.: 61°30'N

AREA: Kirkland Creek

LONG.: 136°30'W

VALUE \$: 65 900.00

CLAIM NAME & NO.: NICK 1-720 (YB24674-25308, YB25345-68)

WORK DONE BY: E. Lambert, S. Young

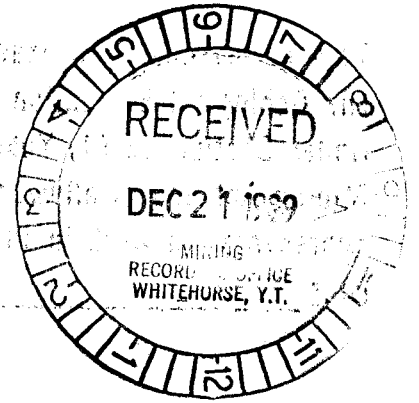
WORK DONE FOR: Golden Quail Resources Ltd

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. Fifty-nine soil samples and 103 silt samples, 24 rock samples and 21 pan concentrates were taken in 1989. Concentrates from two streams contained anomalous values of gold, platinum and palladium up to 24 300 ppb Au, 4370 ppb Pt and 52 ppb Pd.

GEOCHEMICAL REPORT
on the
NICK I CLAIM GROUP
Kirkland Creek, Yukon



WHITEHORSE MINING DISTRICT, YUKON

NTS: 115H - 7,8,9,10,15

LATITUDE: 61° 30'N LONGITUDE: 136° 30'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: Aug.26 - Sept. 9, 1989

December 18, 1989

092772

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 \$ 65,700.00.

J. J. [Signature]
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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INTRODUCTION

A geochemical survey was undertaken on the Nick I Claim Group in August and September, 1989 for Golden Quail Resources Ltd. and included the collection of 56 soil, 103 silt, 24 rock and 18 heavy metal samples. This report describes the 1989 exploration program and is based on all information made available to the author.

Location: The property is situated immediately west of Kirkland Creek, 120 km northwest of Whitehorse, Yukon (Figure 1). It is in the Whitehorse Mining District at Latitude: 61°30'N and Longitude: 136°30'W, NTS Maps 115H - 7,8,9, 10,15. 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).

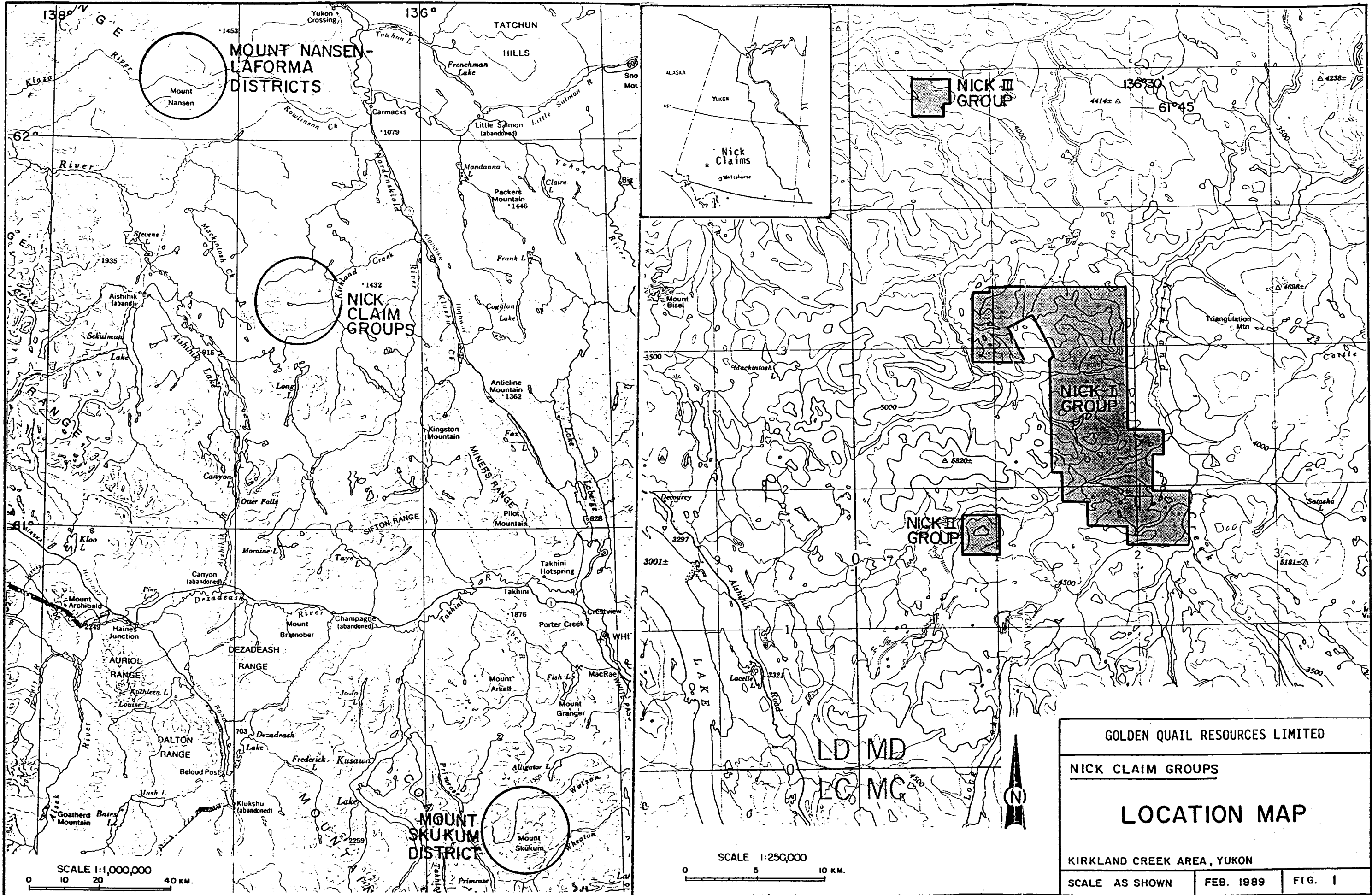
Physiography: Topography of the claim area consists of low, rounded hills covered by grasses and buckbrush. Elevation ranges from 975 to 1525 meters. Stream valleys are sparsely forested with small, deciduous trees. Temperature extremes range from +30°C in the summer to -45°C in the winter, and precipitation averages 30 cm per year.

Claims Information: The property is comprised of 659 units covering an area approximately 13,800 hectares in size. The claims are owned by Seamus Young (Vancouver, B.C.) and include the following: Nick 1-55, 57, 61-73, 87-96, 104, 106-660 and 697-720 (File #'s: YB 24674-25308, 25345-25368)(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."



GOLDEN QUAIL RESOURCES LIMITED

NICK CLAIM GROUPS

LOCATION MAP

KIRKLAND CREEK AREA, YUKON

SCALE AS SHOWN	FEB. 1989	FIG. 1
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GOLDEN QUAIL RESOURCES LIMITED

NICK CLAIM GROUPS

PROPERTY MAP

KIRKLAND CREEK AREA, YUKON

SCALE AS SHOWN

FEB. 1989

FIG. 2

42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	77
78	79	80	81	82	83	84	85	86
87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104
105	106	107	108	109	110	111	112	113
114	115	116	117	118	119	120	121	122

NICK III GROUP

115H-15

115H-10

115H-9

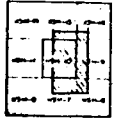
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

PHIL

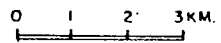
NICK I GROUP

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	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

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

115H-7

115H-6

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 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 I 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 entirely by Tertiary volcanics that unconformably overlie older (Triassic?) plutonic crystalline rocks. The plutonic rocks include pink quartz monzonite and grey granodiorite. The volcanic rocks include andesite and dacite flows and breccias, rhyolite tuffs, and sediments derived from these volcanics. Rhyolite and granite-porphyry dikes intrude the above units.



- EOCENE
 [Tvr] ACIDIC TUFF (and feldspar plugs) (Tvr)
 [?] TRIASSIC (?)
 [Rgdm, Rqm, Rgd] 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

Structure: The Nick I claim group lies immediately west of a major northwest-trending fault zone, the Kirkland Creek Fault. Large, northeast-trending faults locally intersect this major fault. Linear stream valleys and circular drainage patterns probably reflect underlying fracture systems.

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

"There are no known lode occurrences on the property. However, the Paul claims occurring wholly within the Nick I property and the Phil claims on the edge of it are believed to have been staked to cover gold mineralization. The Paul claims are in part underlain by a moderate aeromagnetic anomaly. The Snap occurrence consists of quartz and chalcedony surrounding silicified breccia fragments. No significant mineralization occurs but mercury is reported to be highly anomalous.

"The most significant feature is the presence of placer claims along three of the streams crossing the property. Alluvial gold and some platinum occur in the gravels on the central stream. The central stream valley ranges in width from 30 to 150 meters (Montgomery, 1981). Bulldozer trenching carried out in 1980 did not reach bedrock; gravels evidently are in excess of six meters in thickness. Preliminary samples of gravel taken from the trenches ranged in value from 50 cents to eight dollars per cubic meter. There is a reasonable probability that the source of the alluvial gold is in mineralized structures located on the Nick I property."

1989 EXPLORATION PROGRAM

Procedure: The basic goal of the 1989 field season was to conduct preliminary geochemical reconnaissance of the property to determine its gold potential. This was accomplished by performing the following:

- (1) 103 silt samples were collected from a wide array of streams draining the property. A low-density, stream, silt-sample survey was conducted by the Yukon Territorial Government and the Department of Energy Mines and Resources (Ottawa) in 1987-88; anomalous samples from their survey were re-tested in the 1989 exploration program. Samples were analyzed for gold, platinum and palladium by fire geochem at -80 mesh. Selected samples were analyzed at a different mesh size (-150 and -150+10) for the same elements. Three samples returning high values in the -80 fraction were further analyzed by ICP for 31 elements.
- (2) A soil line, running north-south for 2750 m and consisting of 56 samples, was run to test the effectiveness of soil sampling in this glacially till-covered region. Samples were analyzed geochemically for gold.

- (3) 24 rock samples were collected from various outcrops exhibiting some degree of alteration. Samples were analyzed for gold, platinum and palladium by fire geochem.
- (4) 21 heavy metal samples were mainly taken from Camp Creek and its tributaries which are known to have placer deposits. Other samples were taken at random locations about the property. Samples were analyzed in the same fashion as silt samples.

Geochemical analysis of all samples was conducted by Min En Laboratories of Vancouver, B.C. (assay certificates and analytical procedures appear in the appendix). Figures 4 and 5 are maps of sample locations and geochemical results, respectively.

Results: The most significant gold and platinum values were returned from the tributaries of Camp Creek (a northeast-draining stream transecting the southern portion of the claim group), and North Creek (an east-flowing stream transecting the northern half). The highest values are tabulated below:

<u>Sample#</u>	<u>Sample Type</u>	<u>Au (ppb)</u>	<u>Pt (ppb)</u>	<u>Pd (ppb)</u>	<u>Location</u>
M-14	Silt	118	1	1	Camp Ck.
M-30	Silt	187	38	2	Camp Ck.
D-43	Silt	110	1	1	N. Bdry
M-52	Silt	170	1	1	North Ck.
D-56	Silt	2200	1	1	North Ck.
J1-150*	HM [^]	1810	103	2	Camp Ck.
J2-150	HM	590	5	1	Camp Ck.
J3-150	HM	1160	408	3	Camp Ck.
J4-150	HM	15500	4370	10	Camp Ck.
J4 +150-10 [~]	HM	24300	1290	52	Camp Ck.
J5-150	HM	1210	1	1	Camp Ck.
J6-150	HM	1620	1	1	Camp Ck.
J7 +150-10	HM	860	3	2	Camp Ck.
J9-150	HM	1425	2	3	Camp Ck.
J10-150	HM	556	1	1	Camp Ck.
J11-150	HM	327	155	1	Camp Ck.
J12-150	HM	3200	703	2	Camp Ck.
J13-150	HM	985	123	1	Camp Ck.
J15-150	HM	1190	5	3	NW Bdry
J16-150	HM	513	3	2	NE Bdry
J17-150	HM	1830	16	1	North Ck.

* = -150 mesh fraction

[~] = +150-10 mesh fraction

[^] = Heavy Metal

Samples that had both the -150 and +150-10 mesh fractions analyzed indicated that, in nearly all cases, the gold was contained in the -150 mesh fraction. Soil sampling appeared to be ineffective.

CONCLUSIONS

Moderately to strongly anomalous gold and platinum values have been returned in silt and heavy metal samples collected on the Nick I claim group. The bulk of the anomalous values come from two east- to northeast-draining creeks: Camp Creek and North Creek. Several additional samples with moderate to strong gold results occur along the northern edge of the property, or from streams draining this region.

Camp Creek appears to occupy a large NE-trending fault zone, and North Creek follows a less pronounced, east-trending fault. The Camp Creek fault-zone intersects the northwest-trending Kirkland Creek Fault in the vicinity of the highest concentration of anomalous gold values returned from the 1989 stream-sediment survey. This area, and all along Camp Creek, is considered a prime target for gold mineralization. The most significant elements indicative of a major lode-gold deposit occur here and include the following:

- 1) two, major, intersecting fault systems;
- 2) a large volume of acid volcanics;
- 3) presence of fine gold in local streams.

In addition, a major gold deposit occurs along strike on either side of the property (Mt. Nansen and Mt. Skukum).

RECOMMENDATIONS

Continued exploration should concentrate on the immediate regions around Camp Creek and North Creek. This should include follow-up silt and heavy-metal sampling, detailed prospecting and VLF-Magnetometer geophysical surveys to help define local structures.

REFERENCES

- Adamson, R.S., 1989, Summary Report on the Nick Claim Groups, Kirkland Creek, Yukon: unpublished company report for Long Lake Syndicate.
- Montgomery, J.H., 1981, Report on the Kirkland Creek Gold Placer Prospect, Yukon Territory; unpublished company report for Kirkland Creek Syndicate.

STATEMENT OF COSTS

Personnel		\$15,075.00
J. Mymko, 1022-470 Granville St., Van, B.C. 8/30-9/24, 26 days @ \$125/day	\$3250.00	
J. Donaldson, same, 8/30-9/24 26 days @ \$125/day	3250.00	
G. Delorme, same 8/26-9/07 11 days @ \$175/day	1925.00	
D. Javorsky, same, 8/29-9/07 10 days @ \$150/day	1500.00	
Gordon Clark and Associates, same, 10/10 2 men x 1 day @ \$300/day	600.00	
S. Young, same, 8/26-9/07 13 days @ \$250/day	3250.00	
T. Young, same, 8/26-9/07 13 days @ \$100/day	1300.00	
Employee Expenses		2,171.25
15% of wages, excluding Gordon Clark & Associates		
Accommodation and Board		4,042.10
Vehicle Rentals		7,945.00
Truck, S. Young, 29 days @ \$75/day	2175.00	
Truck, G. Clark, 1 day @ \$50/day	50.00	
Van, Norcan	145.60	
1 motorcycle, Big Red Rentals	1000.00	
1 four-wheeler, MBW Surveys	2700.00	
Vehicle parts and fuel	1875.00	
Equipment and Supplies		5,519.58
Field Supplies	2821.29	
Office Supplies and Expediting	2082.00	
Maps and Reproductions	616.29	
Camp Construction and Supplies		5,000.00

Air Support 16,763.46

Helicopter	13826.56
Fixed Wing , float plane	766.90
Commercial Airlines, travel from Vanc.	3670.00

Assaying 3,536.11

Soils: 56
Silts: 103
Rock: 24
Heavy Metal: 18

Report Preparation 2,000.00

Report Writing	1500.00
Drafting of Maps	300.00
Reproduction	200.00

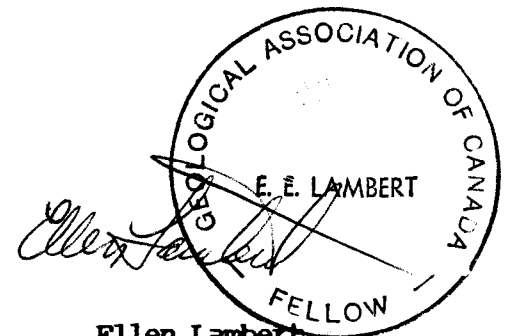
Management Fee (10%) 6,205.25

TOTAL 68,257.75

STATEMENT OF QUALIFICATIONS

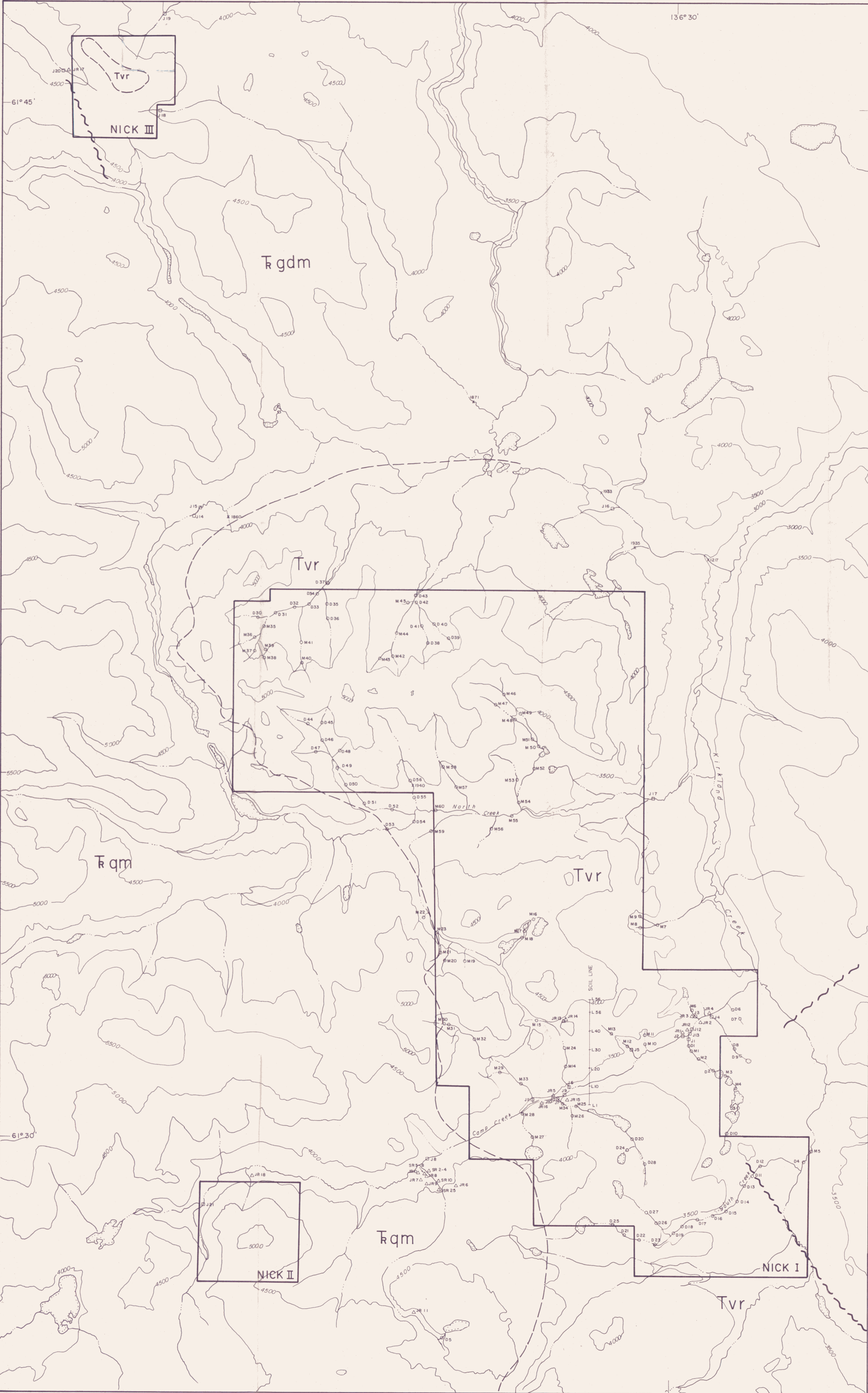
I, Ellen Lambert, of 5949 Toderick St., Vancouver, British Columbia, hereby certify that:

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.



Ellen Lambert
M.Sc. F.G.A.C.

December 18, 1989



- Tvr Varicoloured acid tuff
- Tqm Pink quartz monzonite
- Tgdm Hornblende granodiorite
- Claim boundary
- Fault
- Silt sample (D & M samples)
- △ Rock sample (JR + SR samples)
- Heavy metal sample (J samples)
- ⊕ Soil sample (L samples)
- x GSC stream sample (from GSC OF I219)

Contour interval = 500 feet



092772

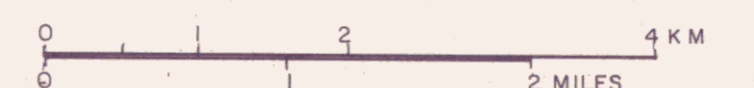
115117-10,15 (187)

GOLDEN QUAIL RESOURCES LTD.

NICK CLAIM GROUP

SAMPLE NUMBERS

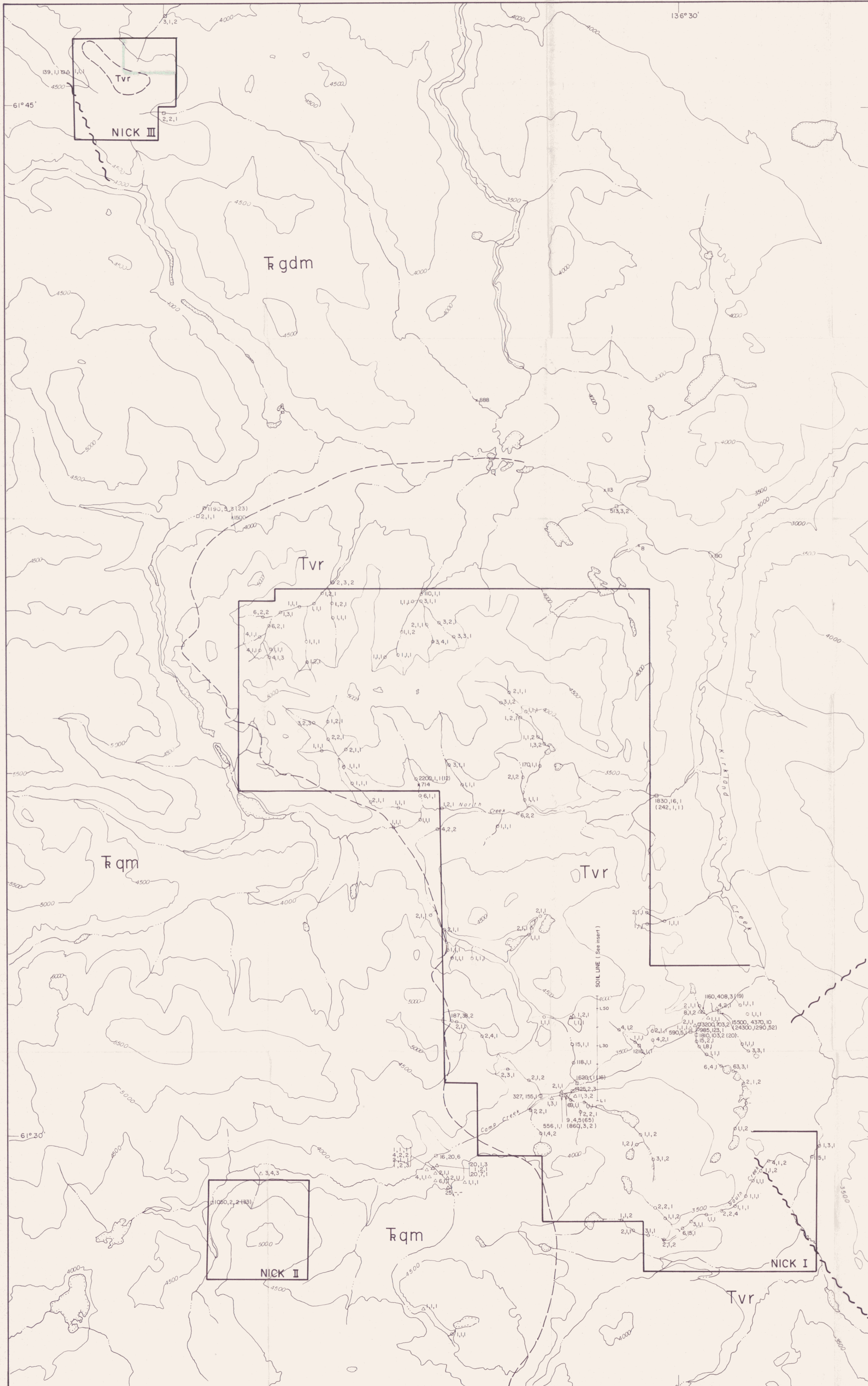
N.T.S. 115H-7,8,10,15 LONG LAKE AREA, YUKON



SCALE 1:50,000

DATE: DEC. 1989

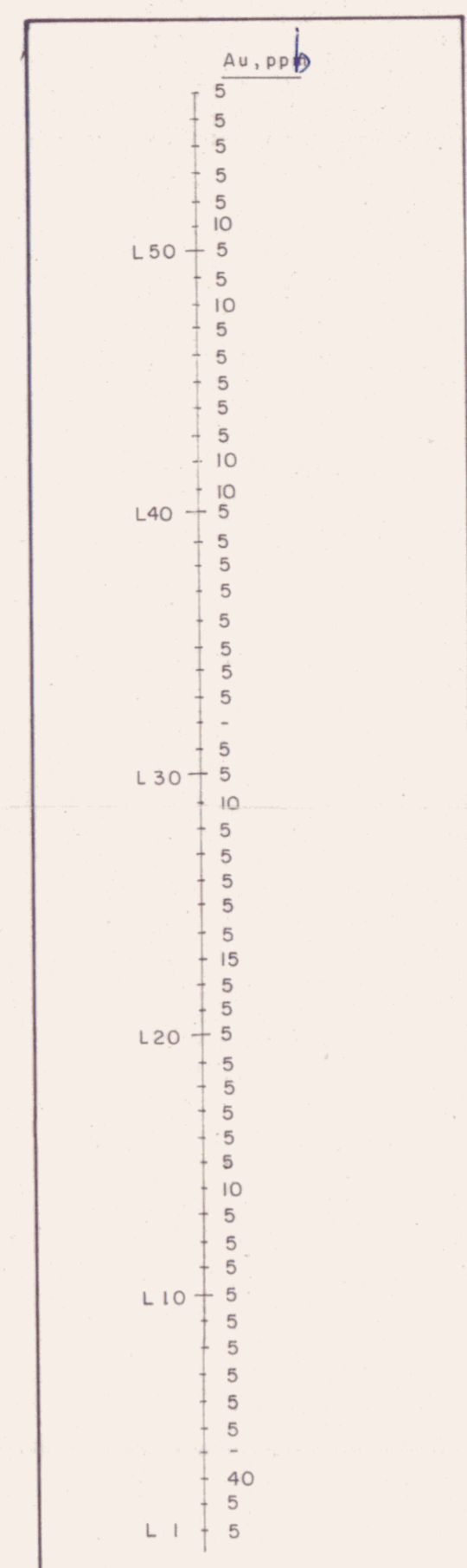
FIGURE NO. 4



136° 30'

61° 45'

61° 30'



INSERT - SOIL LINE
Scale 1:2,500
0 100 200 400 metres

- Tvr Varicoloured acid tuff
 - Fqm Pink quartz monzonite
 - Fgdm Hornblende granodiorite
 - Claim boundary
 - Fault
 - Silt sample
 - △ Rock sample
 - Heavy metal sample
 - ⊕ Soil sample
- 6,3,1(16) Au, Pt, Pd in ppb (As in ppm)
 (10,2,1) +150-10mesh duplicate sample
 x714 GSC stream sample - Au in ppb (from GSC O.F. 1219)

Contour interval = 500 feet



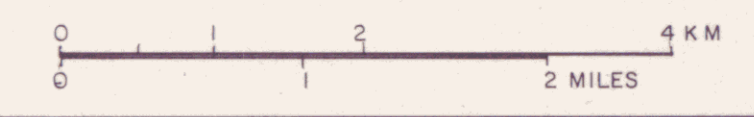
092772

115 11 7-10, 15 (186)

GOLDEN QUAIL RESOURCES LTD.

NICK CLAIM GROUP
GEOCHEMISTRY
Au, Pt & Pd

N.T.S. 115H-7,8,10,15 LONG LAKE AREA, YUKON



SCALE 1:50,000 DATE: DEC. 1989
FIGURE NO. 5

APPENDIX

**Analytical Procedures
Assay Certificates**

ANALYTICAL PROCEDURES

Gold Geochem (wet): After drying at 95°C, the samples are crushed and pulverized by ceramic plated pulverizers and screened to obtain the -80 mesh fraction. A sample weighing 5-10 grams is pretreated with a HNO₃ and HClO₄ mixture then digested with Aqua Regia. After digestion, the samples are taken up with 25% HCl to suitable volume. Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone. With a set of suitable standard solutions, gold is analyzed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

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 HClO₄ 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 OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

9V-1071-SG1

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

Date: SEP-15-89
Copy 1. DONEGAL DEV.LTD., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted SEP-07-89 by S.YOUNG.

Sample Number	AU-WET PPB
L1	5
L2	5
L3	5
L3 DUPLICATE	40
L5	5

L6	5
L7	5
L8	5
L9	5
L10	5

L11	5
L12	5
L13	5
L14	10
L15	5

L16	5
L17	5
L18	5
L19	5
L20	5

L21	5
L22	5
L23	15
L24	5
L25	5

L26	5
L27	5
L28	5
L29	10
L30	5

Certified by _____

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Geochemical Analysis Certificate

9V-1071-SG2

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

Date: SEP-15-89
Copy 1. DONEGAL DEV. LTD., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 26 SOIL samples submitted SEP-07-89 by S. YOUNG.

Sample Number	AU-WET PFB
L31	5
L31 DUPLICATE	5
L33	5
L34	5
L35	5

L36	5
L37	5
L38	5
L39	5
L40	5

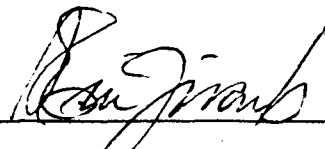
L41	10
L42	10
L43	5
L44	5
L45	5

L46	5
L47	5
L48	10
L49	5
L50	5

L51	10
L52	5
L53	5
L54	5
L55	5

L56	5

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Geochemical Analysis Certificate

9V-1071-LG1


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

Date: SEP-17-89
Copy 1. DONEGAL DEV. LTD., VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 8 SILTS samples submitted SEP-07-89 by S. YOUNG.

Sample Number	AU-FIRE	PT-FIRE	PD-FIRE
	PPB	PPB	PPB
M1	1	8	1
M2	1	1	1
M3	63	3	1
M4	2	1	2
M5	1	3	1

D1	15	2	1
D2	6	4	1
D4	1	5	1

Certified by 

Geochemical Analysis Certificate

9V-1133-SG1

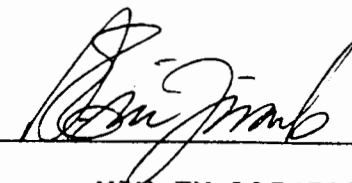
Company: DONEGAL DEVELOPMENTS
Project: D-19-89
Attn: S. YOUNG/D. JAVORSKY

Date: SEP-22-89
Copy 1. DONEGAL DEV., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted SEP-16-89 by S. YOUNG.

Sample Number	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
M-06	2	1	1
M-07	1	1	1
M-08	1	1	1
M-09	2	1	1
M-10	4	2	1
M-11	2	1	1
M-12	1	1	1
M-13	4	1	2
M-14	118	1	1
M-15	1	1	1
M-16	2	1	1
M-17	2	1	1
M-18	1	1	1
M-19	1	1	1
M-20	1	1	1
M-21	1	1	1
M-22	2	1	1
M-23	2	1	1
M-24	15	1	1
M-25	1	1	1
M-26	2	2	1
M-27	1	4	2
M-28	2	2	1
M-29	2	3	1
M-30	187	38	2
M-31	2	1	1
M-32	2	4	1
M-33	2	1	2
M-34	69	1	1
M-40	1	2	1

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Geochemical Analysis Certificate

9V-1133-SG2

Company: DONEGAL DEVELOPMENTS

Project: D-19-89

Attn: S. YOUNG/D. JAVORSKY

Date: SEP-23-89

Copy 1. DONEGAL DEV., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted SEP-16-89 by S. YOUNG.

Sample Number	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
M-41	1	1	1
M-42	1	1	1
M-43	1	1	1
M-44	1	1	2
M-45	1	1	1

D-05	1	1	1
D-06	1	1	1
D-07	1	1	1
D-08	1	1	1
D-09	3	3	1

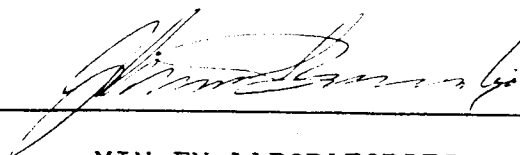
D-10	1	1	2
D-11	1	1	2
D-12	4	1	2
D-20	1	1	2
D-21	2	1	1

D-22	3	1	1
D-23	2	1	2
D-24	1	2	1
D-25	1	1	2
D-26	1	1	2

D-27	2	2	1
D-28	3	1	2
D-31	1	3	1
D-32	1	1	1
D-33	1	1	1

D-34	1	2	1
D-35	1	2	1
D-36	1	1	1
D-37	2	3	2
D-38	3	4	1

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Geochemical Analysis Certificate

9V-1133-SG3

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 SOIL samples submitted SEP-16-89 by S. YOUNG.

Sample Number	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
D-39	3	3	1
D-40	3	2	1
D-41	2	1	1
D-42	3	1	1
D-43	110	1	1

D-30	6	2	2
D-44	3	2	3
D-45	1	2	1
D-46	2	2	1
D-47	1	1	1

D-48	2	1	1
D-49	1	1	1
D-50	1	1	1
D-51	2	1	1
D-52	1	1	1

D-53	1	1	1
D-54	1	1	1
D-55	6	1	1
D-56	2200	1	1
M-35	6	2	1

M-36	4	1	1
M-37	4	1	1
M-38	4	1	3
M-39	1	1	1
M-46	2	1	1

M-47	3	1	2
M-48	1	2	1
M-49	1	1	1
M-50	1	3	2

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Geochemical Analysis Certificate

9V-1133-SG4

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

Date: SEP-22-89
 Copy 1. DONEGAL DEV., VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 10 SOIL samples submitted SEP-16-89 by S. YOUNG.

Sample Number	AU-FIRE	PT-FIRE	PD-FIRE
	PPB	PPB	PPB
M-51	1	1	2
M-52	170	1	1
M-53	2	1	2
M-54	1	1	1
M-55	6	2	2

M-56	1	1	1
M-57	1	1	1
M-58	3	1	1
M-59	4	2	2
M-60	1	2	1

Certified by _____

MIN-EN LABORATORIES

Geochemical Analysis Certificate

9V-1292-SG1

Company: DONEGAL GOLD
Project: D1989
Attn: S. YOUNG

Date: OCT-18-89
Copy 1. DONEGAL GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 14 SOIL samples submitted OCT-06-89 by S. YOUNG.

Sample Number	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
D 13 -150 MESH	1	1	1
D 14 -150 MESH	1	1	1
D 15 -150 MESH	1	1	1
D 16 -150 MESH	2	2	4
D 17 -150 MESH	1	1	1

D 18 -150 MESH	3	1	1
D 19 -150 MESH	6	15	1
D 13 -10+150	1	4	2
D 14 -10+150	1	3	1
D 15 -10+150	1	1	4

D 16 -10+150	1	2	2
D 17 -10+150	1	2	1
D 18 -10+150	1	6	1
D 19 -10+150	1	1	1

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Geochemical Analysis Certificate

9V-1292-RG1

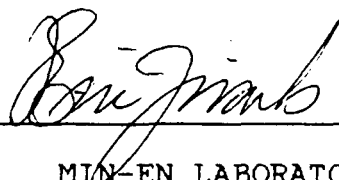
Company: DONEGAL GOLD
Project: D1989
Attn: S.YOUNG

Date: OCT-11-89
Copy 1, DONEGAL GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 2 ROCK samples submitted OCT-06-89 by S.YOUNG.

Sample Number	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
JR 01	1	1	1
SR 25	2		

Certified by



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Geochemical Analysis Certificate

9V-1078-RG1

Company: DONAGEL GOLD
Project:
Attn: S. YOUNG

Date: SEP-13-89
Copy 1. DONAGEL GOLD, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 10 ROCK samples submitted SEP-08-89 by S. YOUNG.

Sample Number	AU-FIRE	PT-FIRE	PD-FIRE
	PPB	PPB	PPB
SR2	20	1	3
JR2	1	1	1
JR3	8	1	2
JR4	4	2	1
JR5	2	1	1

JR6	1	1	1
JR7	4	1	1
JR8	2	1	1
JR9	6	1	1
SR10	2	1	1

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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.

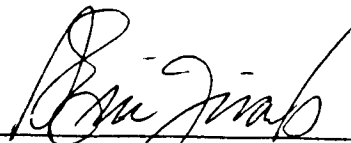
Sample Number	AU-FIRE FPB	PT-FIRE FPB	PD-FIRE FPB
JR-09	NO	SAMPLE	
JR-10	NO	SAMPLE	
JR-11	1	1	1
JR-12	2	1	1
JR-13	1	1	1

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

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Geochemical Analysis Certificate

9V-1071-LG2

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

Date: SEP-18-89
Copy 1. DONEGAL DEV. LTD., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 14 CONC. samples submitted SEP-07-89 by S. YOUNG.

Sample Number	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
J1 -150M	1810	103	2
J2 -150M	590	5	1
J3 -150M	1160	408	3
J4 -150M	15500	4370	10
J5 -150M	1210	1	1

J6 -150M	1620	1	1
J7 -150M	9	4	5
J1 +150-10	5	2	1
J2 +150-10	8	5	1
J3 +150-10	1	4	1

J4 +150-10	24300	1290	52
J5 +150-10	8	10	3
J6 +150-10	6	3	4
J7 +150-10	860	3	2

Certified by



MIN-EN LABORATORIES

Geochemical Analysis Certificate

9V-1071-LG1

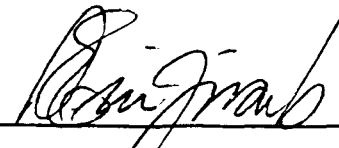
Company: DONEGAL DEVELOPMENTS LTD.
Project:
Attn: S. YOUNG

Date: SEP-08-89
Copy 1. DONEGAL DEV. LTD., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 1 SILT samples submitted SEP-07-89 by S. YOUNG.

Sample Number	AU-FIRE PPB	PD-FIRE PPB	PT-FIRE PPB
J8	16	20	6

Certified by



MIN-EN LABORATORIES

Geochemical Analysis Certificate

9V-1133-PG1

Company: DONEGAL DEVELOPMENTS

Project: D-19-89

Attn: S. YOUNG/D. JAVORSKY

Date: SEP-24-89

Copy 1, DONEGAL DEV., VANCOUVER, B.C.

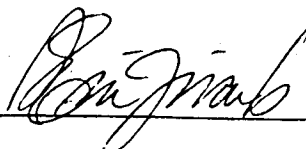
We hereby certify the following Geochemical Analysis of 12 PULP samples submitted SEP-16-89 by S. YOUNG.

Sample Number	AU-FIRE	PT-FIRE	PD-FIRE
	PPB	PPB	PPB
J9 -150	1425	2	3
J10 -150	556	1	1
J11 -150	327	155	1
J12 -150	3200	703	2
J13 -150	985	123	1

J14 -150	2	1	1
J9 -10+150	3	1	1
J10 -10+150	1	1	1
J11 -10+150	1	1	1
J12 -10+150	2	4	1

J13 -10+150	4	2	2
J14 -10+150	2	1	3

Certified by _____



MIN-EN LABORATORIES

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 PPB	PT-FIRE PPB	PD-FIRE 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



MIN-EN LABORATORIES

COMP: DONEGAL DEVELOPMENTS
 PROJ: D-19-89
 ATTN: S.YOUNG

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 9V-1133-SJ1+3
 DATE: OCT-19-89
 * TYPE SOIL GEOCHEM * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	
M-30	.7	10860	7	1	191	.6	2	6140	.1	13	16	30250	920	6	4390	1194	3	370	8	760	13	2	23	1	1	89.0	73	1	2	2	19	
D-43	.5	10190	1	1	113	.7	6	5050	.1	10	12	22200	660	6	3280	662	4	300	8	810	13	1	22	3	1	61.0	57	1	4	2	15	
D-56	.7	10280	12	1	135	.5	6	5460	.1	9	13	16310	810	5	3320	479	3	380	8	700	15	1	26	3	2	42.0	54	3	6	2	11	
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