GEOLOGY AND GEOCHEMISTRY ON THE LING CLAIM
SWANNELL RANGE
NORTH CENTRAL B.C.

Specific Claims:	Ling I #7951 (10) Ling II #7952 (10)
Mining Division:	Omineca
NTS:	93N/14
Latitude:	55° 49'
Longitude:	125° 18'
Owner:	Cathedral Gold Corporation
Operator:	Cathedral Gold Corporation
Author:	Alan B. Taylor
Date:	September 1987

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,831

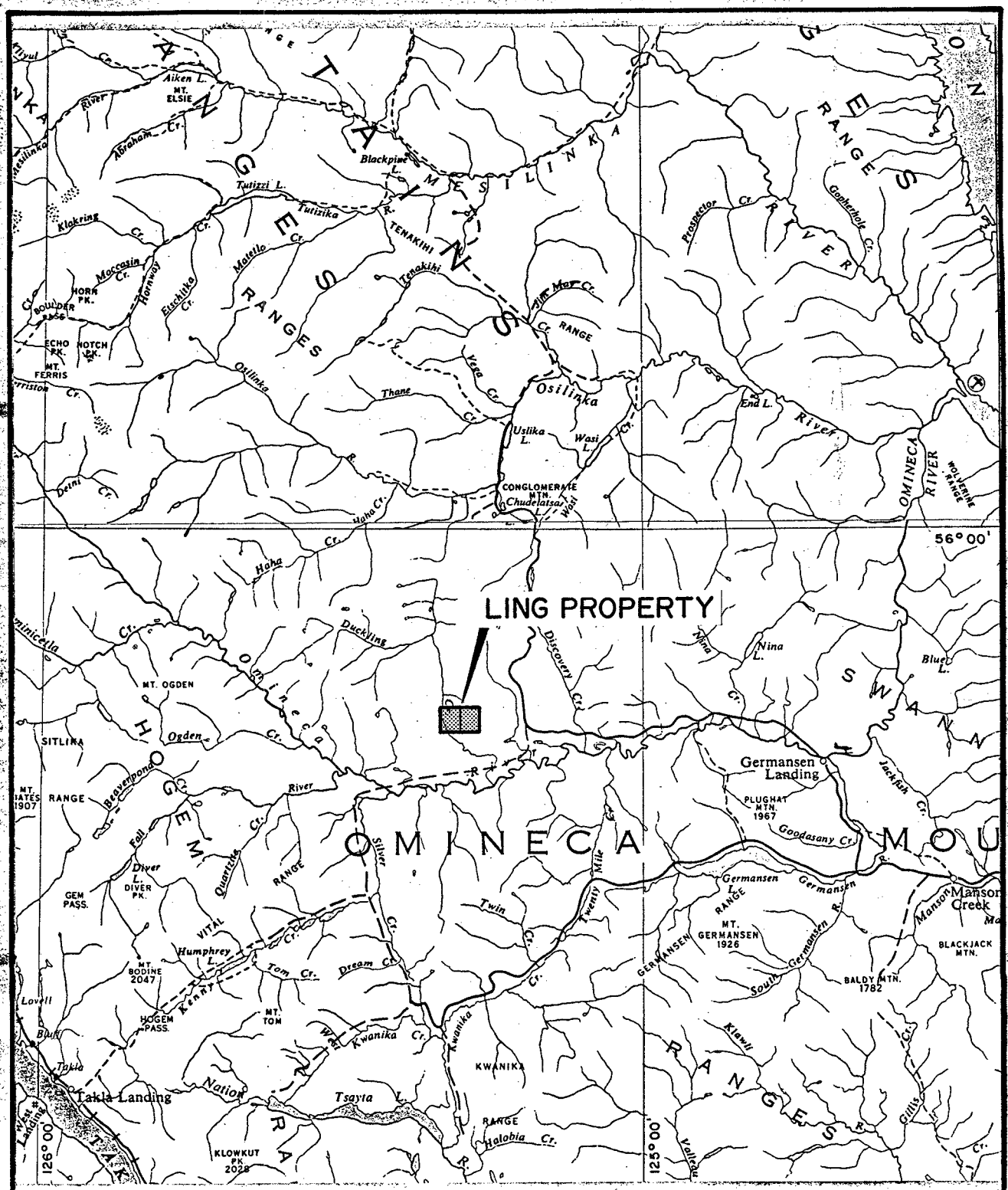
TABLE OF CONTENTS

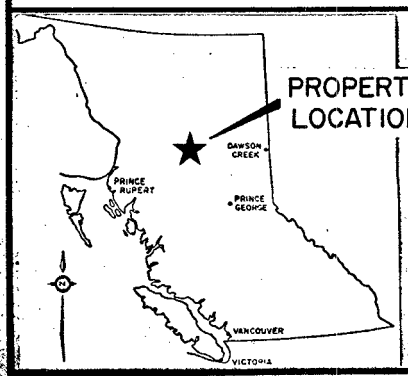
List of Figures

SUMMARY

The Ling group of claims consist of 40 units located in the Omineca mountains approximately 35km to the west of Germansen Landing, north-central British Columbia. The claims are underlain by the contact between the Triassic Takla group volcanics and the intrusive Hogem suite.

Numerous soil and rock samples collected and analysed reveal subtle gold anomalous mainly found within apparently small massive sulphide pods or lenses. These anomalies should be followed up by further sampling and mapping to determine the exact nature and extent of mineralization.





CATHEDRAL GOLD CORPORATION

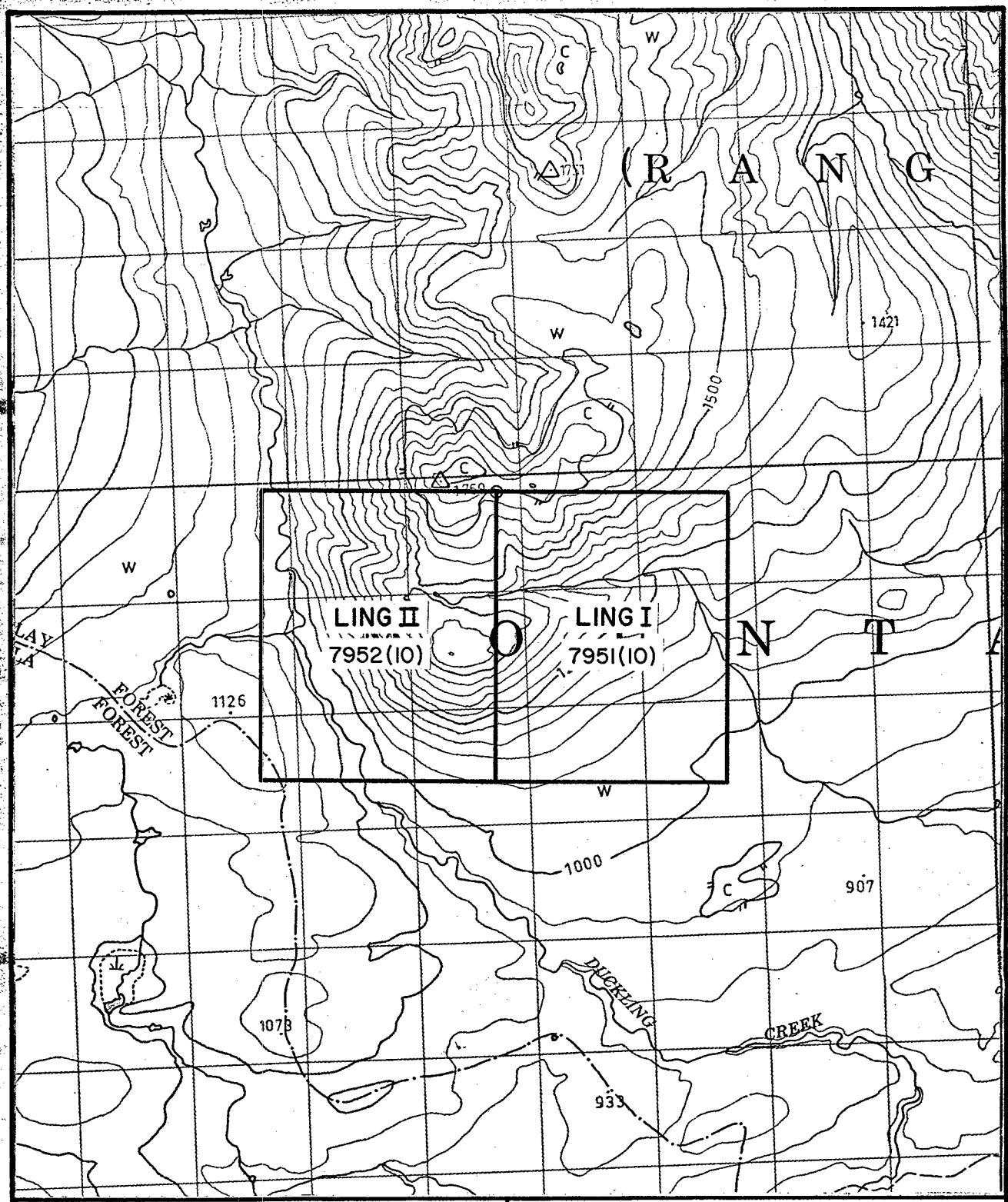
LING PROPERTY

FIGURE 1 N.T.S. 93N/14

LOCATION MAP

km 0 10 20 30 40 km

SCALE: 1:600 000	GEOLOGIST: A. TAYLOR
DATE: NOVEMBER 1987	DRAWN BY: J. CORKUM



CATHEDRAL GOLD CORPORATION

LING PROPERTY

FIGURE 2 N.T.S. 93N/14

CLAIM MAP

km 0 1 2 3 km

SCALE: 1:50 000	GEOLOGIST: A. TAYLOR
DATE: NOVEMBER 1987	DRAWN BY: J. CORKUM

1.1 Geographic Setting

The Ling property is located in the Omineca mountains Swannell Range north-central British Columbia (refer to Figure 1 and 2). The claims are bordered to the south by the Omineca River valley, to the west by Duckling Creek and topographically consists of moderate relief ranging from a rounded peak at 1769m to valleys at approximately 1000m elevations. Vegetation consists mostly of open lodgepole pine and spruce forest with more decidious type trees occuring in the valley.

The Germansen-Johansen Lake road is located 5km to the east of the claims with the nearest settlement, Germansen Landing, situated 35km east of the Ling property. Access to the property is presently by helicopter. Old cat roads do exist but require major upgrading.

2.1 Property

The Ling property consists of 2 claim blocks which are 100% owned by Cathedral Gold Corporation. The claims have been grouped and consist of the following:

Claim Name	Record Number	Number of Units	Expiry Date
Ling I	7951	20	Oct. 3, 1987
Ling II	7952	20	Oct. 3, 1987

3.1 Work Completed

A helicopter supported fly camp was established on the Ling claims (see Figure 3) from which all work was completed. A total of 326 soil samples were collected from the B horizon at 15-20cm depth. These soils were collected in both contour lines at 50m intervals and from a small grid at 25m intervals. All sample locations were flagged in the field. A total of 55 rocks were also collected from the property.

All samples were analysed by Acme Labs for 30 elements by ICP methods and gold was analysed by atomic absorption techniques to obtain an accurate ppb level (refer to Appendix 1).

4.1 Interpretation

Geologically the claims straddle the contact of the Trassic Takla Group andesitic volcanics and various hybrid syenitic phases of the Hogem batholith. Due to lack of outcrop the contact could not be accurately plotted but appears to be quite irregular with many Takla pendants occuring within the intrusive. Takla rocks are generally fine grained green andesitic rocks with minor tuffaceous and brecciated horizons. Takla rocks normally contain trace visible pyrite and sometimes augite phenocrysts. Propylitic alteration in the form of chloritic-epidote also occurs.

Geochemically there were significant gold analyzed within seven rocks collected (greater than 1000 ppb) and these appear related to high copper contents. These massive pyrhotite-chalcopyrite zones have been reported in the past to occur only as small pods and lenses but these should be studied in detail to determine their possible significance. Anomalous soil samples should also be followed up and sampled in detail to determine the nature of the anomalies.

RECOMMENDATIONS

1. More detailed sampling of rocks and soils around anomalous areas to determine their nature and extent.

2. More reconnaissance style sampling and prospecting to locate further anomalies.

3. Property mapping on a 1:2000 scale to accurately locate the intrusive/volcanic contact.

BIBLIOGRAPHY

Armstrong, J.E. 1949: Fort St. James Map-Area, British Columbia Map 907A, Geological Survey of Canada, Memoir 252.

Garnett, J.A. 1978: Geology and Mineral Occurences of the Southern Hogem Batholith, B.C. Department of Mines and Petroleum Resources, Bulletin #70.

Ronning, P.A. 1981: Preliminary Evaluation of the Ducking Claim including Prospecting, Soil Geochemistry and Rock Geochemistry. Assessment Report #10241.

Stevenson, R.W. 1963: Kennco Explorations, (Western) Limited Report on a Geochemical Survey - Rhonda Claim Group. Assessment Report #532.

Tipper, H.W., Campbell, R.B., Taylor, G.C. and Stott, D.F. 1979: Parsnip River British Columbia. Map 1424A, Sheet 93, G.S.C.

LING PROPERTY - COST STATEMENT

Field Personnel:			
AT July 24, 29	2 @ $165 =	$ 330	
MB July 24-28	5 @ $130 =	650	
TE July 24-28	5 @ $125 =	625	
DJ July 24-28	5 @ $95 =	475	
Food	17 @ $40/day	680	
Total Field Personnel Costs =			$ 2,760
Transportion:			
Helicopter 4 hrs. @ $425/hr. plus fuel and oil		$2,000	
Company truck		200	
Total Transportation Costs =			2,200
Analytical Costs:			
326 Soils @ $11.00		$3,586	
55 Rocks @ $13.25		729	
Shipping		110	
Total Analytical Costs =			4,425
Miscellaneous:			
Camp Supplies		$ 400	
Report Writing and Drafting		2,000	
Expediting		300	
Total Miscellaneous +			3,000
GRAND TOTAL			$ 12,085

CERTIFICATE

I, Alan B. Taylor, geologist, residing at 15-8720 Maplegrove Crescent in the Municipality of Burnaby, Province of British Columbia, hereby certify that:

1. I graduated from Brock University in 1979 with an Honours Bachelor of Science in Geology.

2. I graduated from the University of Western Ontario in 1984 with a Master of Science in Geology.

3. I have worked for various mining companies and government geological surveys since 1977.

4. I am presently a permanent staff geologist with Imperial Metals Corporation of 800-601 West Hastings Street, in the City of Vancouver, Province of British Columbia.

5. The work described in this report on the Ling claims was undertaken under my direct supervision.

DATED at the City of Vancouver this 23 day of Decemb, 1987.

Alan B. Taylor, Geologist

APPENDIX I

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-2 ROCKS P3-11 SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 22 1987 DATE REPORT MAILED: Aug 29/87 ASSAYER. D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT-LING 7105 File # 87-3530 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG-87-1F	1	13156	8	206	15.4	11	143	300	16.10	10	5	ND	2	29	1	2	2	54	.63	.064	4	8	.79	6	.06	2	.91	.03	.08	1	39
LNG-87-31R	1	35	2	31	.1	8	7	335	2.49	6	5	ND	1	114	1	2	2	78	1.09	.097	4	33	.41	39	.15	2	1.03	.16	.10	1	3
LNG-87-32R	4	243	5	25	.2	3	6	278	3.25	4	5	ND	4	184	1	2	2	86	.84	.092	16	6	.21	42	.14	10	.77	.10	.09	1	2
LNG-87-61R	2	783	2	75	1.1	31	13	951	3.32	16	5	ND	1	93	1	2	2	86	1.33	.121	2	129	1.45	59	.17	6	1.43	.09	.36	1	39
STD C/AU-R	19	61	37	135	7.4	71	28	1060	3.87	39	19	8	41	51	17	17	21	59	.51	.089	39	62	.91	172	.08	37	1.86	.06	.13	14	510
LNG-87-62R	206	38016	6	152	34.5	58	44	276	10.30	12	5	ND	1	28	1	2	2	68	.63	.096	2	159	.87	17	.17	2	.66	.04	.17	1	445
LNG-87-63R	3	2472	3	108	1.5	78	32	854	3.52	44	5	ND	1	57	1	2	2	107	1.21	.147	2	262	2.37	64	.16	13	2.27	.06	.86	1	45
LNG-87-64R	9	1296	2	79	2.3	70	24	768	4.06	20	5	ND	1	62	1	2	2	102	.99	.109	2	284	2.06	60	.14	5	1.69	.06	.56	3	36
LNG-87-66R	22	208	11	20	1.1	9	140	113	16.03	868	5	4	1	36	1	2	38	16	.02	.013	2	4	.07	11	.07	2	.29	.06	.50	5	5775
LNG-87-67T	33	247	348	140	7.6	1	2	411	4.59	43	5	ND	1	576	1	2	15	100	.03	.068	4	5	.08	100	.08	2	.36	.06	.46	2	360
LNG-87-68T	7	1081	3	190	1.4	11	23	1826	9.58	71	5	ND	1	85	1	2	2	147	.53	.090	2	14	1.89	32	.23	3	3.14	.05	1.87	1	62
LNG-87-69R	19	351	136	214	3.2	3	8	1293	6.57	35	5	ND	2	290	1	2	2	112	.44	.104	5	9	.56	69	.21	11	1.28	.09	.49	2	101
LNG-87-70T	112	228	18	26	7.1	3	31	108	10.75	562	5	3	1	183	1	2	12	35	.02	.024	2	1	.03	41	.06	2	.12	.13	.44	199	1355
LNG-87-71T	129	1817	29	257	5.2	3	53	317	34.97	394	22	ND	2	31	4	2	64	124	.02	.074	2	1	.04	72	.05	2	.63	.04	.55	20	130
LNG-87-72R	10	178	5	228	.1	6	14	1176	5.07	23	5	ND	1	111	1	2	2	113	1.20	.130	2	14	1.45	29	.18	2	2.28	.11	.24	1	14
LNG-87-73T	1	9	5	67	.1	7	7	408	1.38	3	5	ND	1	159	1	2	2	32	3.48	.056	2	11	.72	22	.09	2	5.12	.14	.33	1	16
LNG-87-74T	27	177	4	19	.1	5	22	197	6.44	15	5	ND	1	147	1	2	2	45	.51	.088	3	4	.38	21	.12	2	.71	.06	.07	1	9
LNG-87-75R	2	54	7	19	.1	4	17	202	2.45	8	5	ND	1	124	1	2	2	49	.97	.101	2	9	.34	27	.12	3	1.09	.20	.08	1	3
LNG-87-76T	1	3597	10	47	10.9	12	7	307	1.09	7	5	ND	1	174	1	2	8	41	1.04	.096	3	9	.41	120	.10	6	1.29	.06	.18	1	225
LNG-87-77R	4	7232	3	42	28.4	13	7	345	2.34	11	5	ND	1	106	1	2	29	55	1.29	.088	2	82	.54	18	.19	14	.82	.09	.08	1	1090
LNG-87-78R	2	4440	7	40	64.5	14	8	336	3.33	12	5	2	1	80	1	2	48	61	1.11	.093	2	85	.52	19	.19	2	.72	.10	.09	1	2385
LNG-87-78RA	2	7313	8	80	34.7	22	12	591	3.35	11	5	ND	1	61	1	2	34	76	1.34	.090	2	119	.76	21	.17	2	.88	.13	.13	1	1635
LNG-87-79R	2	3248	6	79	.6	47	23	886	4.35	22	5	ND	1	87	1	2	2	119	1.47	.086	2	205	1.43	23	.20	2	1.46	.13	.27	1	20
LNG-87-80R	5	1958	2	102	.2	43	18	945	3.24	13	5	ND	1	301	1	2	2	108	1.26	.063	5	201	1.24	14	.18	10	1.62	.09	.19	1	7
LNG-87-81R	2	234	2	49	.1	48	18	631	3.67	21	5	ND	1	129	1	2	2	94	1.31	.045	2	245	1.33	12	.20	2	1.45	.10	.16	1	2
LNG-87-82R	12	419	2	40	.4	46	13	508	2.85	22	5	ND	1	70	1	2	2	71	1.99	.089	2	229	1.23	8	.12	7	1.25	.11	.19	1	16
LNG-87-83R	22	263	7	10	.4	1	13	195	3.37	8	5	ND	1	155	1	2	2	59	2.09	.063	2	5	.32	5	.07	2	2.41	.04	.07	1	10
LNG-87-84R	156	73	8	1	.1	1	4	122	.68	2	5	ND	9	21	1	2	2	7	1.36	.005	7	3	.10	19	.01	2	.22	.05	.10	1	37
LNG-87-85R	1	20	2	29	.1	2	7	359	2.13	8	5	ND	1	184	1	2	2	64	2.42	.125	4	8	.48	19	.11	2	1.54	.09	.08	2	2
LNG-87-86R	35	638	55	4	1.3	2	3	78	1.21	4	5	ND	1	25	1	4	4	11	.72	.008	2	11	.07	12	.01	3	.56	.02	.03	3	7
LNG-87-87R	43	7043	6	47	10.5	14	36	155	11.63	8	5	ND	2	88	1	2	2	74	.57	.081	4	9	.36	24	.15	4	.90	.05	.10	5	585
* LNG-87-88R 10X	1	7391	2	19	6.1	2	2	27	1.41	2	5	ND	1	5	1	2	2	11	.05	.008	2	9	.07	2	.02	3	.12	.01	.01	56	2250
LNG-87-89R	2	848	3	36	.8	28	10	359	6.60	6	5	ND	1	108	1	2	2	121	1.07	.096	3	244	.64	22	.15	2	.95	.09	.17	7	20
LNG-87-90R	1	267	7	39	.4	3	9	685	3.31	7	5	ND	1	91	1	2	2	69	1.12	.095	6	6	.33	22	.14	2	.74	.06	.05	5	10
LNG-87-93T	1	69	2	70	.1	6	9	634	3.30	5	5	ND	3	197	1	2	2	125	1.83	.157	11	11	.75	60	.17	11	1.29	.19	.23	2	1
LNG-87-94T	14	4714	2	106	3.4	5	12	605	3.68	5	5	ND	2	130	1	2	2	111	2.29	.096	7	8	.17	25	.12	10	.77	.07	.05	1	176
LNG-87-95R	1	193	2	56	.3	4	9	1541	3.53	6	5	ND	3	816	1	2	2	151	7.75	.216	29	9	.41	105	.09	2	1.55	.04	.12	1	9

* multiply all Au data by 10 eg Cu 73910 ppm Ag 61 ppm W 560 ppm

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LN6-87-96R	1	111	5	56	.1	2	3	925	2.70	31	5	ND	1	141	1	2	2	121	3.58	.115	7	7	.22	6	.13	2	.71	.06	.05	2	11
LN6-87-97T	1	129	8	40	.1	3	3	599	2.61	10	5	ND	3	83	1	2	2	71	.73	.051	11	4	.25	35	.12	2	.82	.07	.12	2	4
LN6-87-98T	10	1219	13	94	19.2	2	5	224	7.79	11	5	ND	1	53	1	2	4	104	.22	.076	3	7	.37	113	.23	2	.53	.04	.08	2	275
LN6-87-99R	24	213	9	25	.2	1	2	563	3.25	7	5	ND	3	96	1	2	2	78	.75	.050	14	4	.38	77	.11	2	1.07	.08	.13	1	3
LN6-87-100T	7	812	4	42	.4	23	58	418	7.26	12	5	ND	1	56	1	2	2	123	.91	.104	2	71	1.05	37	.24	2	1.03	.10	.39	1	7
LN6-87-101T	1	206	6	10	.2	3	8	143	3.40	6	5	ND	3	86	1	2	2	97	.78	.087	13	6	.34	20	.17	9	.67	.06	.10	1	1
LN6-87-102R	1	113	2	16	.1	8	13	297	3.53	12	5	ND	1	45	1	2	2	66	.72	.136	3	14	.48	37	.16	2	.67	.04	.30	1	1
LN6-87-103R	12	204	3	35	.1	14	9	485	4.59	7	5	ND	1	98	1	2	2	122	.80	.111	3	37	1.01	78	.21	6	1.86	.15	.93	1	1
LN6-87-104R	1	21	2	50	.1	11	12	836	4.79	9	5	ND	1	40	1	2	2	127	1.43	.189	2	34	1.26	41	.16	2	1.10	.13	.41	1	1
LN6-87-106T	1	4925	4	46	11.0	35	20	349	4.14	10	5	ND	1	22	1	2	2	49	.39	.057	2	123	.90	64	.12	2	.63	.03	.19	1	250
LN6-87-107R	18	447	12	36	2.8	10	17	1022	5.33	17	5	ND	1	52	1	2	2	78	3.14	.122	3	11	.20	8	.14	5	.93	.05	.11	5	4
LN6-87-108R	24	46	26	33	3.2	3	132	143	6.17	100	5	ND	1	65	1	3	3	10	.01	.049	2	6	.02	13	.07	5	.18	.04	.59	1	23
LN6-87-109R	241	3317	18	310	46.2	4	76	92	32.85	870	5	ND	1	3	2	2	5	56	.01	.086	2	8	.04	13	.03	12	.28	.01	.02	6	1585
LN6-87-110R	27	278	8	71	1.3	9	77	508	7.17	19	5	ND	1	46	1	2	2	72	.34	.131	3	14	.84	53	.16	2	1.36	.04	.55	1	8
LN6-87-111R	10	246	3	25	2.1	3	15	214	7.36	42	5	ND	2	39	1	2	2	104	.47	.225	5	5	.23	28	.13	2	.29	.04	.09	2	47
LN6-87-112R	1	162	25	97	.4	4	16	601	3.98	23	5	ND	1	126	1	2	2	85	.90	.109	2	10	.61	81	.13	4	1.55	.22	.44	1	2
LN6-87-113R	2	70	6	53	.3	6	20	514	3.53	13	5	ND	1	180	1	2	2	74	1.20	.132	2	11	.66	53	.13	2	1.51	.14	.23	1	1
LN6-87-114T	4	60	4	266	.1	3	13	4229	11.97	7	5	ND	1	8	1	2	2	100	.21	.093	3	12	1.56	32	.15	2	3.28	.01	.97	1	2
LN6-87-115R	40	41	3	178	.2	5	12	2822	8.14	7	5	ND	2	35	1	2	2	110	.88	.092	3	13	1.19	39	.20	2	1.70	.06	.44	2	3
STD C/AU-R	18	63	42	132	7.1	71	29	1061	4.14	43	25	8	40	52	17	15	23	61	.47	.095	39	64	.87	180	.09	37	1.79	.07	.14	13	480

ASSAY REQUIRED FOR Cu > 10,000 PPM

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG-87 1-1SL	6	55	10	140	.5	6	6	391	2.99	10	5	ND	1	125	1	2	2	82	.77	.054	3	15	.62	45	.07	6	2.22	.04	.05	1	14
LNG-87 1-2SL	11	137	23	152	.8	15	12	1036	4.95	12	5	ND	1	189	1	2	2	117	.87	.067	3	46	1.06	56	.09	4	3.03	.04	.09	1	15
LNG-87 1-3SL	21	115	19	147	1.1	8	11	460	3.73	13	5	ND	1	142	1	2	2	91	.87	.062	4	20	.46	46	.09	4	2.12	.03	.10	1	32
LNG-87 1-4SL	9	155	36	124	.3	8	11	1127	5.27	11	5	ND	1	130	1	2	2	124	.54	.102	3	18	.77	102	.09	5	2.73	.02	.12	1	17
LNG-87 1-5SL	10	168	15	87	.9	6	8	267	3.78	7	5	ND	1	219	1	2	2	76	1.33	.084	3	14	.52	47	.07	2	5.26	.03	.05	1	10
LNG-87 1-6SL	8	261	23	203	.1	8	12	563	3.76	9	5	ND	1	226	1	2	2	84	1.54	.111	4	19	.71	37	.08	5	3.90	.04	.10	1	18
LNG-87 1-7SL	27	891	23	162	.7	22	29	1061	5.80	13	5	ND	1	266	1	2	2	138	1.74	.129	7	58	1.29	40	.07	8	3.16	.05	.12	1	73
LNG-87 1-8SL	14	403	18	118	.3	8	9	390	3.81	11	5	ND	1	158	1	2	2	84	.96	.100	4	21	.51	38	.04	5	2.05	.02	.07	1	13
LNG-87 1-9SL	34	260	19	111	.3	10	23	1086	7.11	9	5	ND	1	449	1	2	2	120	.82	.168	5	21	.83	77	.07	2	4.47	.01	.12	5	22
LNG-87 1-10SL	15	722	15	135	.4	13	25	1217	4.82	13	5	ND	1	228	1	2	2	100	1.30	.127	7	42	.97	45	.05	2	2.67	.02	.16	1	20
LNG-87 1-11SL	1	5	2	1	.1	1	1	2	.10	2	5	ND	1	1	1	2	3	1	.01	.001	2	1	.01	1	.01	2	.01	.01	.01	1	28
LNG-87 1-12SL	14	250	18	117	.2	8	29	970	4.53	12	5	ND	1	386	1	2	2	73	1.97	.148	3	16	.53	68	.04	4	3.75	.02	.17	3	12
LNG-87 1-13SL	13	158	15	113	.1	8	15	1366	3.48	10	5	ND	1	204	1	2	2	84	.78	.122	5	13	.67	73	.03	2	2.43	.02	.10	1	13
LNG-87 1-14SL	8	161	17	90	.2	9	23	896	4.04	10	5	ND	1	233	1	2	2	81	2.11	.117	3	16	.64	38	.05	3	3.85	.01	.18	15	18
LNG-87 1-15SL	6	195	13	97	.6	14	12	450	3.54	10	5	ND	1	214	1	3	2	83	1.22	.100	4	27	.80	45	.06	4	3.70	.02	.12	1	9
STD C/AU-S	19	60	38	129	7.3	70	29	1006	4.01	41	23	8	38	53	18	16	20	62	.49	.093	40	57	.87	169	.09	38	1.82	.07	.15	13	49
LNG-87 1-16SL	5	197	5	96	.3	6	6	284	2.13	7	5	ND	1	203	1	2	2	59	.68	.072	3	17	.56	61	.04	8	2.40	.03	.08	1	15
LNG-87 1-17SL	3	63	7	82	.2	8	7	301	3.53	9	5	ND	1	119	1	2	2	86	.53	.071	3	18	.51	49	.06	10	2.16	.02	.09	1	5
LNG-87 1-18SL	2	68	8	122	.2	8	8	382	3.32	8	5	ND	1	106	1	2	3	78	.65	.073	3	19	.54	44	.07	2	1.99	.02	.07	1	14
LNG-87 1-19SL	5	187	11	123	.1	6	13	696	3.39	10	5	ND	1	240	1	2	2	78	1.25	.087	5	15	.82	49	.08	3	2.56	.03	.11	1	9
LNG-87 1-20SL	10	219	20	156	.1	10	12	710	3.79	12	5	ND	1	243	1	2	2	90	1.23	.075	3	27	.79	52	.07	2	2.44	.02	.17	1	18
LNG-87 1-21SL	4	68	12	437	.1	6	12	2236	3.15	7	5	ND	1	99	2	2	3	74	.79	.094	6	16	.50	74	.05	6	1.62	.01	.10	1	7
LNG-87 1-22SL	7	156	16	128	.2	8	11	519	3.14	7	5	ND	1	174	1	2	2	77	1.11	.089	4	24	.60	34	.06	3	1.79	.02	.11	1	15
LNG-87 1-23SL	2	53	16	162	.2	7	6	488	2.60	7	5	ND	1	125	1	2	2	70	.72	.047	3	15	.50	54	.08	11	1.63	.02	.08	2	14
LNG-87 1-24SL	4	268	14	302	.2	8	12	591	2.98	10	5	ND	1	219	1	2	2	78	1.76	.104	4	22	.67	37	.05	3	2.09	.03	.10	4	15
LNG-87 1-25SL	5	78	11	94	.2	9	7	342	3.39	11	5	ND	1	138	1	2	2	100	.58	.043	3	19	.58	58	.13	9	1.58	.02	.09	1	8
LNG-87 1-26SL	6	173	15	129	.1	8	12	669	2.92	9	5	ND	1	210	1	2	2	68	1.05	.106	4	20	.61	51	.04	2	2.16	.02	.10	1	11
LNG-87 1-27SL	7	216	16	122	.3	9	10	568	3.41	9	5	ND	1	212	1	2	2	79	1.13	.091	5	25	.73	44	.05	2	2.37	.02	.08	1	14
LNG-87 1-28SL	6	306	16	152	.1	9	14	604	3.58	10	5	ND	1	225	1	2	2	82	1.16	.102	5	21	.73	40	.06	2	2.34	.03	.10	1	1
LNG-87 1-29SL	6	216	17	127	.1	10	16	626	4.15	11	5	ND	1	227	1	2	2	90	1.14	.097	4	28	.70	35	.07	2	2.06	.02	.14	1	1
LNG-87 1-30SL	3	76	3	59	.1	8	9	344	3.98	9	5	ND	1	77	1	2	2	95	.46	.065	3	27	.50	27	.11	6	1.72	.02	.06	1	1
LNG-87 1-31SL	7	33	12	45	.1	4	4	248	2.03	5	5	ND	1	80	1	2	4	85	.36	.033	3	13	.18	45	.13	2	.71	.02	.05	2	80
LNG-87 1-32SL	2	132	11	143	.1	11	13	615	3.73	10	5	ND	1	153	1	2	2	91	.87	.100	5	27	.76	95	.10	3	1.90	.03	.09	1	24
LNG-87 1-33SL	6	140	15	124	.1	19	14	899	3.30	9	5	ND	1	127	1	2	2	95	.89	.066	5	48	.90	94	.09	4	1.92	.03	.07	1	34
LNG-87 1-34SL	4	213	7	94	.1	10	14	608	3.93	9	5	ND	1	145	1	2	2	99	1.02	.087	5	25	.56	45	.07	2	1.49	.02	.08	1	13
LNG-87 1-35SL	4	207	13	123	.7	11	13	608	3.86	10	5	ND	2	169	1	2	2	93	1.16	.104	5	33	.68	47	.07	11	1.78	.03	.09	1	13
LNG-87 1-36SL	5	232	10	106	.1	11	14	689	4.36	10	5	ND	1	177	1	2	2	102	.97	.094	5	29	.62	44	.07	2	1.68	.02	.09	1	18

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG-87 1-37SL	6	204	13	102	.3	8	11	608	3.22	10	5	ND	2	168	1	2	2	84	1.27	.114	6	26	.59	49	.05	2	1.71	.02	.07	1	6
LNG-87 1-38SL	7	129	9	79	.3	8	10	1267	2.58	11	5	ND	1	118	1	2	2	71	1.00	.086	7	19	.51	62	.05	2	1.48	.02	.06	1	2
LNG-87 1-39SL	3	103	12	78	.1	8	11	735	3.20	11	5	ND	1	157	1	2	2	84	1.20	.102	6	21	.55	69	.06	2	1.51	.03	.07	2	5
LNG-87 1-40SL	5	83	5	71	.1	7	9	488	2.83	6	5	ND	1	126	1	2	2	74	.80	.067	5	20	.43	46	.05	9	1.13	.02	.05	1	148
LNG-87 1-41SL	4	243	12	88	.1	11	12	579	4.23	9	5	ND	1	156	1	2	4	103	1.02	.100	5	33	.60	39	.07	2	1.47	.03	.07	1	18
LNG-87 1-42SL	5	220	8	88	.1	10	13	608	4.00	10	5	ND	1	150	1	2	3	102	.82	.088	6	27	.66	48	.08	2	1.69	.02	.06	2	8
LNG-87 1-43SL	5	160	12	97	.1	9	9	399	3.00	10	5	ND	1	158	1	2	2	75	1.09	.087	5	25	.52	34	.07	2	1.31	.03	.07	1	11
LNG-87 1-44SL	4	119	16	71	.1	11	12	470	6.08	8	5	ND	1	131	1	2	2	147	.90	.106	5	37	.42	30	.07	2	1.01	.02	.08	2	42
LNG-87 1-45SL	5	158	11	75	.2	9	11	590	3.33	11	5	ND	1	154	1	2	2	87	.94	.091	5	26	.54	48	.06	2	1.40	.02	.07	1	14
LNG-87 1-46SL	6	141	10	99	.2	10	13	575	3.84	11	5	ND	1	155	1	2	2	95	.89	.087	5	28	.66	44	.08	2	1.68	.02	.08	1	6
LNG-87 1-47SL	2	49	9	48	.4	5	4	204	1.57	5	5	ND	1	111	1	2	2	48	.50	.045	4	14	.29	48	.07	2	1.10	.02	.06	1	8
LNG-87 1-48SL	5	282	13	129	.4	14	14	648	4.38	11	5	ND	1	188	1	2	2	103	1.38	.112	6	39	.68	46	.07	25	1.72	.04	.10	1	425
LNG-87 1-49SL	4	149	11	84	.1	15	12	475	3.75	11	5	ND	1	147	1	2	2	92	.91	.089	5	47	.74	37	.08	2	1.49	.03	.08	1	7
LNG-87 1-50SL	6	212	9	123	.1	16	14	601	4.22	11	5	ND	1	164	1	2	2	101	1.16	.089	4	47	.79	41	.08	2	1.63	.03	.07	3	8
LNG-87 1-51SL	3	152	11	100	.6	14	10	564	2.76	9	5	ND	1	134	1	2	2	71	1.45	.096	7	40	.74	66	.05	3	1.71	.03	.06	1	12
LNG-87 1-52SL	5	85	7	63	.3	7	10	466	3.94	10	5	ND	1	90	1	2	4	103	.61	.029	6	22	.42	44	.16	2	1.16	.02	.05	1	2
LNG-87 1-53SL	3	146	10	94	.3	14	11	657	3.01	9	5	ND	1	134	1	2	2	74	1.45	.120	5	37	.66	47	.05	2	1.31	.02	.07	1	14
LNG-87 1-54SL	5	189	14	104	.4	16	13	544	3.62	12	5	ND	1	177	1	2	2	87	1.23	.093	5	46	.83	47	.08	3	1.80	.03	.07	1	4
LNG-87 1-55SL	5	39	12	58	.4	10	8	303	4.80	12	5	ND	1	71	1	2	2	140	.38	.038	3	35	.48	29	.19	2	1.35	.02	.05	1	1
LNG-87 1-56SL	4	188	14	95	.1	16	12	515	3.68	11	5	ND	1	152	1	2	2	89	.94	.085	5	49	.78	40	.10	2	1.53	.03	.07	1	12
LNG-87 1-57SL	4	188	12	102	.2	17	13	563	4.51	10	5	ND	2	165	1	2	2	109	1.01	.097	5	54	.77	39	.09	3	1.58	.03	.07	1	56
LNG-87 1-58SL	5	107	11	90	.2	14	13	816	3.41	10	5	ND	1	152	1	2	2	85	.93	.079	4	40	.68	51	.08	18	1.39	.03	.08	1	6
LNG-87 1-59SL	5	227	9	96	.3	17	11	423	3.26	9	5	ND	2	158	1	2	2	82	1.02	.089	5	41	.82	43	.09	10	1.71	.03	.09	1	7
LNG-87 1-60SL	4	141	11	84	.1	15	11	460	3.49	11	5	ND	1	156	1	3	2	86	.96	.087	5	44	.75	40	.09	19	1.50	.03	.07	2	9
LNG-87 1-61SL	3	113	11	79	.3	14	12	512	4.01	9	5	ND	1	135	1	2	2	96	.97	.104	5	45	.59	33	.08	17	1.15	.03	.12	2	21
LNG-87 1-62SL	12	264	11	120	.2	31	31	1234	5.93	17	5	ND	1	101	1	2	2	125	.91	.086	3	97	1.54	63	.10	2	1.85	.03	.14	1	7
LNG-87 1-63SL	5	192	9	94	.2	16	13	598	3.37	10	5	ND	1	147	1	3	2	80	1.05	.098	6	45	.78	44	.07	4	1.57	.02	.10	1	14
LNG-87 1-64SL	4	196	14	109	.2	20	14	608	4.13	12	5	ND	1	160	1	2	2	94	1.00	.100	5	62	.87	45	.09	9	1.61	.03	.10	3	40
LNG-87 1-65SL	3	164	9	83	.3	17	12	521	3.34	9	5	ND	1	140	1	2	2	79	.98	.090	5	51	.73	44	.08	3	1.36	.03	.09	1	3
LNG-87 1-66SL	10	257	8	145	.4	40	39	1218	5.92	13	5	ND	1	103	2	2	2	125	.99	.105	4	112	1.90	65	.12	5	2.00	.03	.17	1	2
LNG-87 1-67SL	5	42	11	70	.2	7	9	620	3.28	6	5	ND	1	89	1	2	2	108	.76	.053	4	23	.55	49	.11	18	.98	.02	.07	1	1
LNG-87 1-68SL	3	145	12	89	.4	23	15	549	4.29	11	5	ND	2	132	1	2	2	100	.80	.087	4	76	.92	39	.10	7	1.48	.03	.10	1	11
LNG-87 1-69SL	4	255	13	105	.4	20	13	637	3.37	11	5	ND	2	156	2	2	2	78	1.38	.106	6	58	.88	51	.07	2	1.70	.03	.08	2	3
STD C/AU-S	20	61	42	134	7.5	70	29	1059	3.99	38	21	8	40	52	20	18	22	61	.47	.092	39	59	.88	175	.08	37	1.83	.07	.14	13	47
LNG-87 1-70SL	6	176	7	86	.3	17	12	554	3.56	8	5	ND	1	115	1	2	2	96	1.17	.103	6	48	.71	51	.09	4	1.23	.03	.11	1	14
LNG-87 1-71SL	9	132	12	95	.4	20	19	803	4.56	12	5	ND	2	107	1	2	2	112	.60	.051	4	69	.91	42	.11	4	1.49	.03	.07	1	3
LNG-87 1-72SL	5	214	15	102	.3	20	14	608	3.59	12	5	ND	2	156	3	2	2	84	1.03	.101	6	56	.88	47	.08	5	1.69	.03	.12	1	4

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG-87 1-73SL	3	168	5	78	.3	15	10	485	3.23	11	5	ND	3	145	1	2	2	76	1.00	.087	5	50	.73	39	.07	2	1.47	.03	.07	1	20
LNG-87 1-74SL	3	151	8	89	.2	19	12	508	4.95	9	5	ND	3	133	2	2	2	108	.91	.097	5	92	.79	34	.09	3	1.34	.02	.08	1	830
LNG-87 1-75SL	3	80	8	71	.3	16	11	438	3.69	5	5	ND	3	111	1	2	2	85	.88	.063	4	68	.74	35	.08	4	1.16	.02	.08	1	6
LNG-87 1-76SL	4	163	5	85	.2	19	13	584	4.55	11	5	ND	3	131	1	2	2	104	1.02	.099	5	74	.82	39	.09	7	1.48	.02	.08	1	17
LNG-87 1-77SL	3	133	7	83	.1	16	10	427	3.47	7	5	ND	2	128	1	2	2	81	1.10	.080	4	59	.65	31	.07	10	1.20	.02	.07	1	13
LNG-87 1-78SL	3	44	4	76	.4	12	7	316	3.14	4	5	ND	3	81	2	2	2	91	.41	.027	3	44	.65	48	.16	12	1.27	.02	.08	1	4
LNG-87 1-79SL	3	156	7	82	.2	17	11	540	3.24	6	5	ND	3	141	1	2	2	75	1.16	.089	4	59	.73	42	.07	6	1.36	.02	.09	1	7
LNG-87 1-80SL	1	23	7	85	.1	18	9	331	3.52	5	5	ND	1	61	1	2	2	95	.39	.020	2	84	.84	79	.21	2	1.15	.02	.16	1	66
LNG-87 1-81SL	1	127	15	58	.1	21	14	608	3.98	8	5	ND	2	106	1	2	2	90	.90	.112	7	72	.79	49	.11	2	1.17	.02	.12	1	18
LNG-87 1-82SL	2	97	12	82	.1	16	11	454	3.78	8	5	ND	1	99	1	2	2	86	.68	.089	4	70	.69	39	.09	9	1.14	.02	.08	1	9
LNG-87 1-83SL	30	325	11	93	.6	15	35	1358	7.06	13	5	ND	3	109	2	2	2	114	1.19	.152	9	43	.86	35	.10	6	1.74	.02	.10	1	13
LNG-87 1-84SL	1	30	7	40	.2	8	6	211	3.13	4	5	ND	1	61	1	2	2	82	.35	.030	3	53	.37	33	.13	2	.86	.01	.04	1	17
LNG-87 1-85SL	6	89	6	83	.3	15	11	459	4.71	9	5	ND	2	94	1	2	2	103	.82	.107	4	79	.70	41	.09	8	1.04	.02	.08	1	6
LNG-87 2-1SL	13	278	16	167	.6	13	27	1544	6.43	11	8	ND	4	397	3	2	2	159	1.35	.095	3	25	1.79	67	.18	5	4.66	.04	.13	1	14
LNG-87 2-2SL	7	194	16	137	1.2	10	18	1653	7.43	32	5	ND	1	154	1	2	2	176	.40	.095	4	24	1.53	62	.23	4	3.34	.01	.50	4	95
LNG-87 2-3SL	18	651	36	128	11.2	6	11	954	12.44	111	5	ND	2	183	1	2	2	179	.28	.083	4	17	1.13	121	.23	3	3.32	.03	.57	18	965
LNG-87 2-4SL	18	451	62	839	3.2	7	23	1830	10.31	80	5	ND	2	267	5	2	2	196	.45	.109	5	20	1.27	121	.23	8	3.07	.05	.72	1	780
LNG-87 2-5SL	27	516	40	326	1.8	9	31	2072	9.63	49	5	ND	2	300	2	2	2	151	.56	.119	5	17	1.00	131	.17	4	3.46	.02	.34	21	760
LNG-87 2-6SL	9	211	15	160	.5	11	18	1738	5.86	25	5	ND	1	235	2	2	2	128	.63	.111	4	19	.93	91	.10	5	2.87	.02	.19	4	107
LNG-87 3-1SL	5	322	17	98	.4	37	25	753	5.02	9	5	ND	1	180	1	2	2	125	.75	.062	3	65	.89	62	.16	6	2.17	.01	.15	5	20
LNG-87 3-2SL	10	352	17	83	.6	55	35	1059	4.78	9	5	ND	1	182	2	2	3	114	.50	.061	3	93	.99	61	.12	3	2.60	.01	.14	1	41
LNG-87 3-3SL	3	157	15	68	.2	19	25	898	5.69	8	5	ND	1	98	2	2	2	131	.48	.077	2	36	.80	65	.17	6	1.95	.01	.16	6	18
LNG-87 3-4SL	1	129	10	96	.2	45	29	1336	4.57	7	5	ND	1	134	1	2	2	119	.65	.060	2	84	.92	88	.16	2	2.10	.02	.11	2	4
LNG-87 3-5SL	3	121	13	59	.6	16	12	332	4.46	10	5	ND	2	88	1	2	2	130	.42	.046	3	48	.50	34	.17	2	1.60	.01	.08	3	19
LNG-87 3-6SL	1	17	7	38	.3	9	5	200	2.95	5	5	ND	1	90	1	2	2	76	.36	.071	4	37	.32	42	.12	2	1.02	.01	.07	1	3
LNG-87 3-7SL	1	33	6	50	.4	11	6	255	3.87	7	5	ND	1	118	1	2	2	102	.38	.084	3	36	.42	46	.16	3	1.41	.01	.06	1	17
LNG-87 3-8SL	1	30	3	60	.9	16	9	309	3.54	8	5	ND	1	125	1	2	2	94	.34	.094	3	48	.54	71	.17	2	1.19	.02	.11	1	12
LNG-87 3-9SL	1	17	4	27	.2	9	5	125	3.02	5	5	ND	1	75	1	2	2	84	.29	.041	2	37	.18	47	.12	2	.70	.01	.04	1	17
LNG-87 3-10SL	2	65	3	40	.9	7	6	174	3.94	12	5	ND	1	105	1	2	2	82	.48	.086	3	22	.30	39	.08	4	2.70	.01	.04	1	21
LNG-87 3-11SL	2	51	9	42	.6	9	6	208	2.79	6	5	ND	1	90	2	2	2	72	.40	.060	2	35	.24	44	.08	2	1.13	.01	.05	2	15
LNG-87 3-12SL	6	184	4	92	.3	28	15	447	5.15	9	5	ND	1	169	1	2	2	130	.73	.086	3	123	.84	25	.10	2	1.65	.01	.12	1	15
LNG-87 3-13SL	4	733	9	64	.7	34	16	446	5.23	15	5	ND	1	132	2	2	2	128	.60	.046	3	152	1.09	31	.17	5	2.22	.01	.09	1	35
LNG-87 3-14SL	1	91	13	74	.2	28	16	649	4.44	11	5	ND	1	112	1	2	4	115	.64	.056	3	103	.88	43	.14	2	1.78	.02	.10	1	4
LNG-87 3-15SL	3	28	10	53	.1	32	13	335	5.62	19	5	ND	2	110	1	2	2	159	.71	.044	2	189	.93	17	.23	3	1.31	.02	.06	1	1
LNG-87 3-16SL	3	38	17	74	.1	31	19	878	5.17	23	5	ND	1	116	1	2	2	137	.66	.058	2	137	.97	49	.16	2	1.57	.01	.10	1	2
LNG-87 3-17SL	4	67	11	67	.1	30	16	658	5.11	18	5	ND	2	96	1	2	2	153	.61	.028	2	123	.84	39	.22	2	1.42	.01	.08	1	8
STD C/AU-S	18	61	39	130	7.2	69	28	1049	4.10	42	21	7	40	51	19	17	20	60	.46	.089	38	61	.86	180	.08	35	1.78	.06	.13	13	53

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG-87 3-18SL	1	25	8	41	.2	24	10	248	3.87	9	5	ND	2	65	1	2	2	103	.46	.044	2	116	.74	16	.18	2	1.00	.01	.06	1	22
LNG-87 3-19SL	5	75	5	70	.2	29	14	398	5.11	24	5	ND	2	89	1	2	2	141	.59	.038	4	96	1.01	31	.16	2	1.86	.01	.12	1	6
LNG-87 3-20SL	3	39	2	77	.2	33	16	538	5.04	22	5	ND	1	96	1	2	2	139	.47	.061	3	127	1.25	44	.18	4	1.82	.01	.07	1	7
LNG-87 3-21SL	1	43	2	51	.2	22	11	510	3.89	13	5	ND	2	79	1	2	2	105	.46	.053	4	86	.54	32	.13	3	.90	.01	.07	1	1
LNG-87 3-22SL	2	84	7	62	.7	10	8	455	3.95	8	5	ND	2	98	1	2	2	119	.38	.075	4	37	.46	43	.13	4	1.02	.01	.07	1	5
LNG-87 3-23SL	2	63	4	45	.1	17	11	358	4.24	9	5	ND	1	69	1	2	2	124	.47	.026	3	72	.63	34	.15	2	1.15	.01	.05	1	1
LNG-87 3-24SL	1	53	2	42	.3	17	8	327	4.56	8	5	ND	1	61	1	2	3	119	.39	.096	4	70	.48	41	.12	2	.98	.01	.07	1	15
LNG-87 3-25SL	1	35	2	44	.3	11	7	253	3.54	9	5	ND	1	87	1	2	2	105	.38	.045	4	56	.38	35	.13	4	.91	.01	.06	2	1
LNG-87 4-1ST	2	179	2	58	.3	15	11	554	3.62	9	5	ND	1	76	1	2	3	107	.47	.059	4	51	.57	44	.12	2	1.02	.01	.07	1	2
LNG-87 4-2ST	3	216	2	58	.2	6	10	709	3.13	7	5	ND	1	78	1	2	2	94	.62	.068	6	12	.52	38	.08	2	.80	.02	.09	1	1
LNG-87 4-3ST	2	160	4	55	.1	6	9	626	3.16	6	5	ND	2	73	1	2	3	94	.63	.070	6	12	.51	35	.10	5	.80	.03	.09	1	1
LNG-87 4-4ST	1	172	6	56	.1	7	9	572	3.12	6	5	ND	2	84	2	2	2	96	.63	.060	6	15	.50	37	.11	3	.89	.03	.09	1	1
LNG-87 4-5ST	2	181	3	57	.2	7	9	587	3.00	6	5	ND	2	73	1	2	2	89	.61	.068	6	13	.52	32	.10	2	.86	.02	.08	1	1
LNG-87 4-6ST	4	182	5	60	.1	9	10	580	3.29	7	5	ND	2	81	1	2	2	87	.62	.060	6	18	.59	38	.10	5	1.09	.02	.08	2	1
LNG-87 4-7ST	5	198	2	61	.1	9	10	664	3.28	7	5	ND	1	82	1	2	4	87	.66	.061	7	16	.59	43	.09	8	1.02	.03	.08	3	1
LNG-87 4-8ST	3	140	2	52	.1	7	9	557	3.10	5	5	ND	1	91	1	2	2	87	.66	.057	5	15	.50	38	.11	2	.90	.03	.09	1	1
STD C/AU-S	18	59	37	127	6.8	67	27	1007	3.91	41	22	7	37	48	18	17	21	58	.45	.086	36	58	.90	179	.08	36	1.72	.04	.13	14	47
LNG-87 5-1SL	3	88	7	73	.7	9	8	335	3.34	5	5	ND	1	130	1	2	2	73	.61	.170	4	21	.49	62	.04	2	4.34	.02	.05	1	3
LNG-87 5-2SL	9	196	12	84	1.1	10	10	492	3.69	9	5	ND	1	168	2	2	2	83	.59	.107	4	21	.69	59	.06	5	3.57	.01	.07	1	21
LNG-87 5-3SL	2	120	7	128	.5	7	12	1472	3.10	3	5	ND	1	338	1	2	2	81	1.07	.211	5	14	.60	177	.03	2	3.22	.01	.17	1	1
LNG-87 5-4SL	4	257	17	390	.6	9	28	3548	3.66	8	5	ND	1	373	2	2	2	80	1.14	.206	7	17	.68	141	.02	3	3.16	.01	.13	1	1
LNG-87 5-5SL	4	414	12	295	.6	12	25	2680	4.26	10	5	ND	1	280	2	2	2	102	.83	.183	6	31	.83	179	.08	5	2.70	.01	.14	1	1
LNG-87 5-6SL	3	116	10	94	.4	8	10	874	3.69	10	5	ND	1	172	2	2	3	97	.56	.106	5	17	.50	113	.06	2	1.85	.01	.10	1	10
LNG-87 5-7SL	4	131	14	75	1.1	7	8	471	3.80	13	5	ND	1	116	1	2	2	86	.37	.105	4	17	.38	51	.03	2	1.89	.01	.06	1	2
LNG-87 5-8SL	4	149	17	218	.3	9	16	1700	4.06	10	5	ND	1	214	2	2	2	112	.60	.134	5	23	.66	116	.04	10	1.83	.01	.09	1	1
LNG-87 5-9SL	1	106	9	206	.3	21	13	985	4.68	5	5	ND	1	116	1	2	2	135	.42	.091	5	60	1.12	75	.16	3	2.09	.01	.12	1	1
LNG-87 5-10SL	2	132	7	449	.2	8	12	1561	4.43	6	5	ND	1	142	2	2	2	119	.35	.095	4	19	.91	70	.11	9	2.09	.01	.11	1	1
LNG-87 5-11SL	3	146	8	268	.2	8	12	1866	4.20	16	5	ND	1	100	1	2	2	93	.50	.088	4	15	.63	76	.08	2	1.90	.01	.08	1	1
LNG-87 5-12SL	3	337	2	308	.4	14	14	1674	4.90	7	5	ND	1	187	1	2	2	143	.35	.083	4	42	1.17	101	.20	2	2.29	.01	.21	1	1
LNG-87 5-13SL	1	154	5	222	.2	53	22	2024	5.20	5	5	ND	2	59	1	2	2	152	.62	.100	5	156	2.69	226	.24	2	2.20	.01	.29	1	1
LNG-87 5-14SL	1	113	11	182	.1	9	10	1116	4.21	8	5	ND	1	92	2	3	2	132	.40	.080	5	26	.86	69	.20	2	1.26	.01	.13	1	1
LNG-87 5-15SL	1	71	6	126	.2	9	7	678	3.66	8	5	ND	1	72	1	2	3	122	.27	.074	4	31	.66	77	.11	5	1.72	.01	.05	2	1
LNG-87 5-16SL	2	86	91	156	.4	13	17	2579	4.31	8	5	ND	1	132	1	2	2	132	.66	.131	12	32	.67	107	.05	2	1.78	.01	.07	1	1
LNG-87 5-17SL	1	38	18	133	.5	8	13	4504	4.04	6	5	ND	2	384	2	2	2	116	.94	.282	9	15	.37	287	.01	5	1.66	.02	.14	2	1
LNG-87 5-18SL	1	39	21	80	.3	9	7	610	3.86	11	5	ND	1	287	1	2	2	122	.55	.079	9	27	.52	137	.04	2	1.90	.01	.08	2	10
LNG-87 5-19SL	1	37	24	78	.2	7	6	679	3.26	7	5	ND	1	138	1	2	2	115	.31	.125	10	17	.46	127	.03	2	1.90	.01	.08	1	24
LNG-87 5-20SL	1	55	13	67	.3	11	7	396	3.32	9	5	ND	1	160	1	2	3	106	.40	.064	6	26	.51	99	.06	2	1.56	.01	.05	1	5

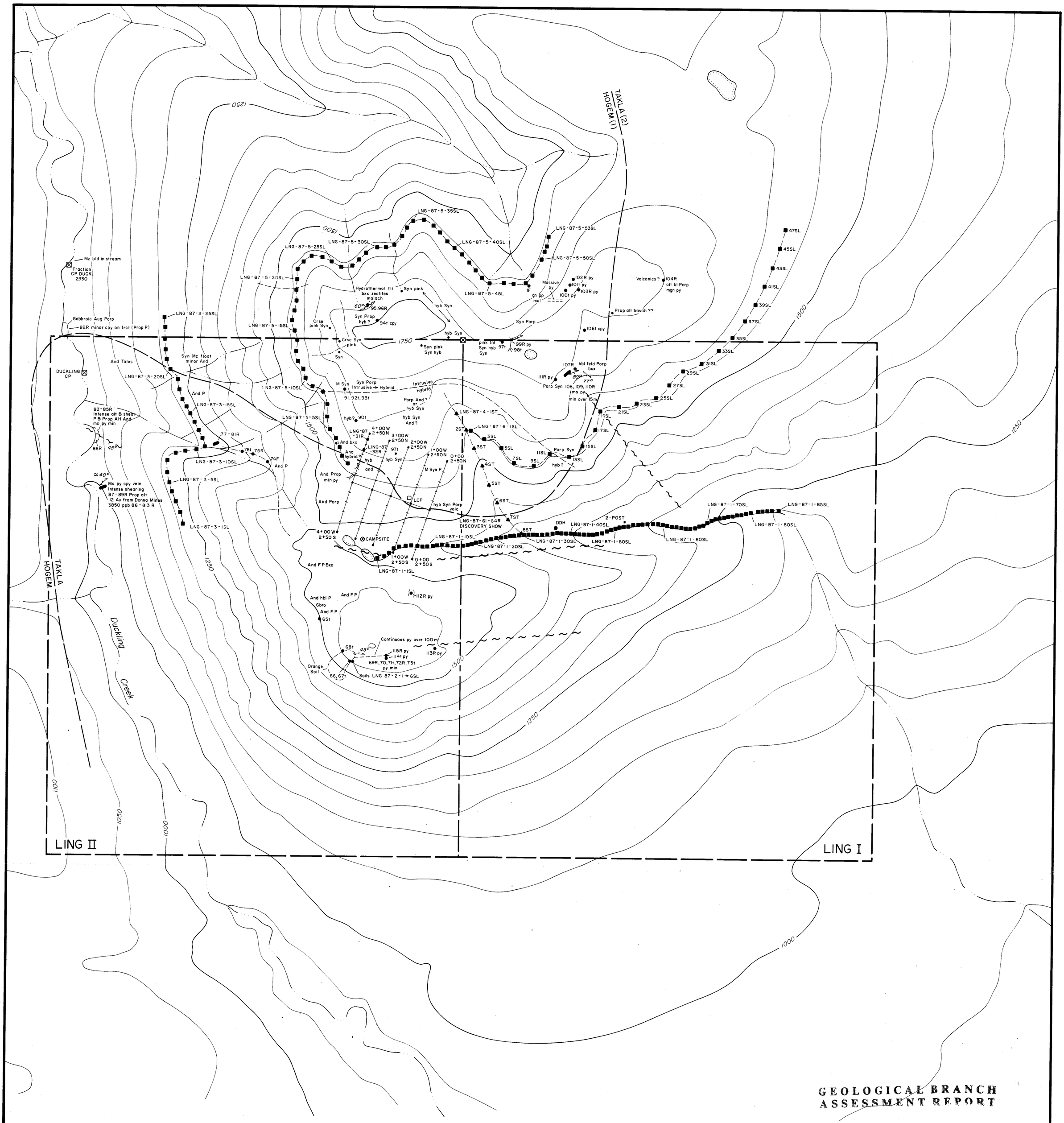
SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG-87 5-21SL	3	128	48	188	.5	9	14	1602	5.35	9	5	ND	2	129	3	2	3	192	1.29	.154	9	27	.93	78	.09	3	1.67	.06	.15	1	6
LNG-87 5-22SL	1	204	50	105	.5	22	12	1611	4.53	10	5	ND	2	160	1	2	2	131	.84	.113	9	41	.84	82	.10	2	2.80	.03	.09	1	5
LNG-87 5-23SL	1	102	9	44	.1	9	4	374	2.34	8	5	ND	1	77	1	3	2	81	.59	.091	7	27	.30	69	.03	4	1.47	.02	.04	2	3
LNG-87 5-24SL	1	33	8	46	.4	4	7	2962	1.32	3	5	ND	1	95	1	2	2	59	.38	.128	2	8	.17	139	.01	4	.72	.01	.07	1	2
LNG-87 5-25SL	1	50	15	69	.4	7	7	886	2.47	8	5	ND	1	209	1	2	2	96	.73	.152	8	14	.40	85	.01	3	1.26	.02	.09	1	5
LNG-87 5-26SL	1	46	2	80	.2	7	8	718	3.60	7	5	ND	1	69	1	2	2	131	.44	.072	5	20	.92	56	.13	2	1.26	.02	.05	1	6
LNG-87 5-27SL	1	247	5	89	.5	14	13	966	3.62	9	5	ND	1	82	1	2	2	115	.58	.135	8	29	.82	73	.10	2	1.51	.02	.14	1	7
LNG-87 5-28SL	1	43	3	52	.1	7	6	341	3.04	6	5	ND	1	80	1	2	2	111	.34	.061	3	22	.43	42	.07	2	.93	.02	.06	2	3
LNG-87 5-29SL	1	53	18	59	.2	10	7	408	3.86	10	5	ND	1	103	1	2	2	125	.33	.057	7	27	.54	44	.04	2	2.03	.01	.07	1	9
LNG-87 5-30SL	1	65	18	81	.1	11	10	898	4.61	9	5	ND	1	180	1	2	2	168	.40	.095	7	29	.63	89	.08	8	1.83	.02	.08	1	8
LNG-87 5-31SL	1	35	11	68	.3	8	7	599	3.50	6	5	ND	2	87	1	2	2	141	.27	.106	5	24	.37	82	.02	4	1.25	.02	.05	1	3
LNG-87 5-32SL	1	40	11	69	.1	9	5	503	2.50	8	5	ND	1	119	1	2	2	80	.35	.143	10	24	.38	67	.01	2	1.32	.02	.07	1	1
LNG-87 5-33SL	1	184	37	129	.2	12	14	1805	4.42	11	5	ND	1	396	1	2	2	161	1.21	.140	8	26	.78	118	.07	2	2.80	.03	.11	1	1
LNG-87 5-34SL	1	40	11	73	.3	12	7	379	3.94	9	5	ND	1	82	1	2	2	129	.32	.093	5	34	.48	47	.06	3	1.38	.02	.05	1	1
LNG-87 5-35SL	1	52	11	71	.3	16	7	548	3.67	8	5	ND	1	64	2	2	2	136	.37	.080	5	33	.48	64	.05	3	1.36	.02	.06	1	1
LNG-87 5-36SL	1	29	4	52	.4	12	6	287	3.33	7	5	ND	1	41	1	2	2	119	.24	.047	4	36	.41	34	.06	4	1.17	.02	.04	1	2
LNG-87 5-37SL	1	26	4	70	.3	7	4	506	2.40	6	5	ND	1	45	1	2	2	92	.25	.097	3	20	.29	50	.01	2	1.05	.01	.04	1	1
LNG-87 5-38SL	1	53	15	103	.5	6	6	958	2.90	9	5	ND	1	121	1	2	2	120	.30	.117	5	15	.38	66	.01	5	1.59	.02	.08	2	1
LNG-87 5-39SL	1	57	11	137	.4	70	20	696	5.54	9	5	ND	1	72	2	2	2	160	.39	.082	3	184	1.48	97	.21	6	2.00	.02	.26	1	1
LNG-87 5-40SL	1	45	28	113	.7	19	12	4271	3.84	7	5	ND	1	188	1	2	4	122	.37	.109	6	50	.52	179	.03	8	1.74	.02	.10	1	2
LNG-87 5-41SL	1	30	10	44	.4	5	4	306	2.65	5	5	ND	1	98	1	3	2	113	.17	.070	2	20	.28	40	.07	2	.68	.01	.04	2	3
LNG-87 5-42SL	1	151	12	145	.1	8	13	1638	4.55	9	5	ND	1	110	1	2	2	157	.46	.115	7	19	1.07	48	.12	2	1.70	.01	.15	1	4
LNG-87 5-43SL	1	48	9	58	.2	9	7	602	4.39	6	5	ND	1	65	1	2	2	140	.21	.102	4	23	.46	37	.07	3	1.11	.01	.05	2	2
LNG-87 5-44SL	2	55	10	45	.4	6	6	356	3.30	6	5	ND	1	38	2	2	2	117	.16	.062	4	20	.48	44	.06	4	1.10	.01	.06	2	6
LNG-87 5-45SL	1	18	7	28	.4	3	3	244	1.90	4	5	ND	1	62	1	2	2	81	.17	.049	4	10	.15	36	.06	6	.61	.01	.03	1	2
LNG-87 5-46SL	1	24	6	38	.3	3	3	194	1.67	5	5	ND	1	38	1	2	2	67	.13	.063	4	10	.21	28	.06	7	.90	.01	.03	1	4
LNG-87 5-47SL	1	102	4	83	.1	10	14	1213	5.01	9	5	ND	1	44	1	2	2	171	.33	.118	8	23	1.08	34	.15	2	1.66	.01	.08	1	4
LNG-87 5-48SL	1	271	2	82	.6	13	12	625	3.55	7	5	ND	1	73	1	2	2	104	.30	.097	6	30	.79	50	.09	3	1.68	.02	.05	1	2
LNG-87 5-49SL	2	474	8	99	.4	70	36	1241	7.55	12	5	ND	2	36	2	2	2	226	.59	.120	7	214	3.05	102	.19	5	2.52	.02	.61	1	3
LNG-87 5-50SL	4	260	7	94	.2	13	16	1174	5.08	13	5	ND	1	104	1	2	3	118	.33	.178	5	37	.92	63	.04	2	2.66	.02	.15	1	1
LNG-87 5-52SL	4	114	4	89	.2	10	14	1121	5.79	11	5	ND	1	62	1	2	2	138	.28	.116	3	33	.96	56	.09	7	1.86	.02	.15	1	1
LNG-87 5-53SL	13	399	27	119	.3	14	32	2869	7.77	19	5	ND	2	84	1	2	2	160	.68	.123	11	24	1.41	54	.10	3	2.52	.01	.18	1	17
LNG-87 5-54SL	3	132	6	102	.3	13	16	1424	5.37	10	5	ND	1	52	1	2	2	124	.41	.122	5	38	1.34	92	.09	3	1.95	.02	.37	1	4
LNG-87 6-1SL	5	138	7	54	.5	10	8	321	3.72	10	5	ND	1	101	1	2	2	100	.39	.059	9	21	.49	49	.06	3	1.92	.02	.04	1	1
LNG-87 6-2SL	4	110	2	77	.4	14	10	481	4.56	11	5	ND	1	105	1	2	2	112	.43	.097	5	28	.61	66	.09	5	2.03	.02	.07	1	4
LNG-87 6-3SL	4	95	11	84	.7	11	10	404	5.10	9	5	ND	1	100	1	2	2	117	.39	.150	5	26	.57	55	.10	8	2.67	.02	.06	1	3
LNG-87 6-4SL	2	60	8	57	.1	8	8	380	4.32	8	5	ND	1	97	2	2	2	121	.38	.066	4	21	.42	48	.11	8	1.50	.02	.05	1	1
STD C/AU-S	19	62	38	131	7.3	70	28	1048	4.12	41	18	8	38	51	18	16	21	60	.48	.093	39	59	.87	178	.08	37	1.83	.06	.14	12	54

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LN6-87 6-5SL	3	84	11	91	.7	14	7	321	4.13	7	5	ND	2	104	1	2	2	101	.45	.083	5	27	.57	52	.12	7	2.45	.03	.07	1	11
LN6-87 6-7SL	15	97	13	96	.1	11	18	872	5.31	12	5	ND	2	152	1	2	2	120	.53	.096	6	20	.63	94	.10	3	2.33	.02	.14	1	17
LN6-87 6-8SL	7	123	8	101	.2	12	11	530	4.64	10	5	ND	1	120	1	2	2	105	.70	.086	4	26	.69	75	.10	2	2.57	.02	.07	1	5
LN6-87 6-9SL	7	344	8	100	.2	14	16	850	4.26	4	5	ND	1	106	1	2	2	94	.65	.069	9	30	.77	58	.07	7	2.49	.03	.06	1	1
LN6-87 6-10SL	4	60	14	99	.3	12	8	412	4.10	8	5	ND	2	84	1	2	2	87	.45	.141	8	30	.52	64	.09	3	2.79	.02	.07	1	1
LN6-87 6-12SL	2	118	9	77	.3	10	15	692	3.96	10	5	ND	1	190	1	2	2	96	.85	.108	5	17	1.01	53	.10	12	2.37	.02	.11	1	1
LN6-87 6-14SL	3	124	5	248	.1	8	17	2127	4.56	8	5	ND	1	94	1	2	2	117	.63	.135	4	17	.91	114	.12	2	1.88	.02	.16	1	1
STD C/AU-S	19	62	39	140	7.4	71	29	993	4.08	42	21	8	41	52	19	17	20	61	.53	.089	40	59	.93	176	.08	36	1.88	.07	.14	14	49
LN6-87 6-15SL	2	200	5	107	.4	8	18	2121	5.19	8	5	ND	1	58	1	2	2	134	.42	.096	6	18	.83	84	.07	6	2.14	.02	.08	1	1
LN6-87 6-16SL	2	37	7	63	.1	8	9	553	3.95	4	5	ND	1	84	1	2	2	101	.56	.063	4	19	.44	78	.11	2	1.12	.02	.07	1	1
LN6-87 6-17SL	1	47	6	56	.1	7	9	371	4.17	7	5	ND	1	90	1	2	2	103	.50	.078	4	17	.56	51	.11	2	1.53	.02	.07	1	1
LN6-87 6-18SL	3	193	4	75	.1	36	17	665	4.97	8	5	ND	1	82	2	2	2	117	.58	.078	3	90	1.59	59	.14	11	2.40	.03	.13	1	4
LN6-87 6-19SL	7	359	13	117	.3	64	31	1326	6.00	10	5	ND	1	66	1	2	2	120	.83	.074	2	176	3.30	126	.11	6	3.05	.03	.45	1	7
LN6-87 6-20SL	31	257	11	99	.3	23	19	672	6.07	9	5	ND	1	160	1	2	2	109	1.27	.129	3	60	1.16	50	.08	2	3.67	.02	.19	1	4
LN6-87 6-21SL	4	74	2	58	.1	11	9	359	4.55	8	5	ND	1	52	1	2	2	127	.40	.082	3	34	.61	29	.12	3	1.55	.02	.08	1	2
LN6-87 6-22SL	8	36	3	43	.1	6	8	315	4.25	7	5	ND	1	66	1	2	2	135	.61	.037	3	19	.49	38	.14	2	1.06	.02	.11	2	2
LN6-87 6-23SL	4	33	7	64	.1	17	10	345	4.03	9	5	ND	1	54	1	2	2	115	.68	.043	3	61	.87	50	.12	2	1.25	.02	.12	1	1
LN6-87 6-24SL	2	20	6	158	.1	71	28	916	5.80	15	5	ND	1	45	1	2	2	121	.91	.072	2	185	3.95	84	.23	2	3.44	.05	.56	1	1
LN6-87 6-25SL	1	12	3	94	.1	60	22	504	3.70	6	5	ND	1	63	1	2	2	89	.67	.063	2	98	2.48	33	.16	4	2.15	.03	.11	1	1
LN6-87 6-26SL	1	20	8	118	.1	99	27	707	5.16	10	5	ND	1	31	1	2	2	109	.79	.045	2	233	4.16	75	.22	2	3.55	.06	.25	1	2
LN6-87 6-27SL	1	48	5	68	.1	21	12	361	5.22	8	5	ND	1	70	1	2	2	146	.49	.119	3	61	1.01	53	.14	11	1.83	.03	.10	1	4
LN6-87 6-28SL	1	24	3	81	.3	17	9	490	4.22	4	5	ND	1	48	1	2	3	95	.43	.086	4	59	.90	50	.14	2	1.46	.02	.08	1	3
LN6-87 6-29SL	1	13	7	58	.1	18	7	260	2.93	2	5	ND	1	48	1	2	3	76	.38	.048	4	74	.67	53	.12	2	1.07	.02	.09	1	4
LN6-87 6-30SL	2	20	4	205	.3	87	34	1861	6.09	2	5	ND	1	74	2	3	2	123	1.04	.121	2	351	4.00	268	.19	6	2.96	.03	.41	1	5
LN6-87 6-31SL	2	51	6	148	.2	48	22	630	5.15	7	5	ND	1	62	1	2	2	118	.60	.130	2	132	2.50	103	.19	2	2.15	.03	.19	1	2
LN6-87 6-32SL	1	39	3	126	.3	27	15	599	4.97	5	5	ND	2	50	1	2	3	107	.41	.160	3	90	1.26	70	.14	2	1.91	.03	.17	1	3
LN6-87 6-33SL	2	33	12	97	.1	44	18	403	5.17	7	5	ND	1	40	1	2	2	112	.39	.083	2	142	1.80	36	.17	4	2.30	.03	.09	1	1
LN6-87 6-34SL	12	207	4	91	.3	56	27	604	5.73	22	5	ND	2	39	1	2	2	200	.51	.032	3	183	2.05	26	.22	7	2.99	.04	.09	1	1
LN6-87 6-35SL	4	40	2	75	.1	63	20	447	5.15	14	5	ND	1	40	1	2	2	126	.64	.032	2	189	2.49	29	.17	2	2.29	.03	.11	1	1
LN6-87 6-36SL	1	22	13	93	.1	64	21	560	5.00	8	5	ND	1	54	1	2	2	106	.64	.076	2	206	2.42	80	.21	2	2.06	.04	.13	1	1
LN6-87 6-37SL	4	25	5	72	.2	38	14	529	4.72	6	5	ND	1	48	1	2	2	118	.55	.047	2	198	1.31	96	.20	2	1.28	.04	.13	1	1
LN6-87 6-38SL	5	38	4	75	.1	49	17	741	4.09	7	5	ND	1	49	1	2	2	111	.72	.040	2	175	1.88	48	.17	3	1.71	.04	.09	1	1
LN6-87 6-39SL	1	23	5	73	.2	57	17	401	4.69	9	5	ND	1	42	1	2	2	105	.46	.047	2	213	2.12	33	.19	2	2.20	.03	.09	1	2
LN6-87 6-40SL	3	17	3	106	.1	58	19	505	4.48	10	5	ND	1	53	1	2	2	115	.87	.037	2	204	2.14	44	.19	2	1.78	.06	.14	1	1
LN6-87 6-41SL	2	66	2	88	.3	70	22	571	4.90	10	5	ND	1	52	1	2	2	145	.72	.036	2	207	2.60	48	.18	2	2.33	.03	.11	1	1
LN6-87 6-42SL	2	139	2	87	.3	77	25	743	4.78	12	5	ND	1	57	1	2	2	145	1.02	.061	2	242	2.93	43	.14	2	2.24	.03	.14	1	1
LN6-87 6-43SL	1	57	2	85	.2	72	25	645	4.82	11	5	ND	1	54	1	2	2	110	1.09	.075	2	218	2.89	67	.19	3	2.22	.04	.22	1	1
LN6-87 6-44SL	1	111	4	103	.4	70	23	785	4.23	10	5	ND	1	62	2	2	2	119	1.24	.094	3	200	2.77	68	.13	5	2.16	.04	.13	1	3

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LN6-87 6-45SL	1	87	7	89	.4	71	23	672	4.81	11	5	ND	1	56	1	2	2	113	1.02	.059	3	267	2.70	57	.14	2	2.21	.04	.13	1	1
LN6-87 6-46SL	1	106	6	102	.5	78	26	938	5.64	8	5	ND	1	53	1	2	2	128	1.18	.061	4	252	3.18	59	.15	2	2.77	.04	.17	1	1
LN6-87 6-47SL	1	37	2	105	.3	80	25	816	5.38	7	5	ND	1	51	1	2	2	121	1.13	.052	2	266	3.21	70	.20	5	2.53	.06	.16	1	1
LN6 1-87 4+00W 2+50N	1	114	12	99	.4	12	10	714	3.82	3	5	ND	1	318	1	2	2	76	1.43	.302	4	29	.65	113	.06	3	4.78	.04	.12	1	1
LN6 1-87 4+00W 2+25N	1	176	11	123	.5	24	20	2307	4.20	2	5	ND	1	412	1	2	2	93	.93	.219	5	109	.81	202	.04	4	3.71	.05	.15	1	1
LN6 1-87 4+00W 2+00N	3	253	8	83	.3	10	13	912	4.31	5	5	ND	1	538	1	2	3	105	.98	.155	7	28	.68	185	.06	2	3.18	.03	.16	1	4
LN6 1-87 4+00W 1+75N	2	104	7	111	.4	9	12	1999	2.84	5	5	ND	1	489	1	2	2	67	1.37	.251	5	19	.65	187	.02	10	2.84	.03	.17	1	1
LN6 1-87 4+00W 1+50N	4	72	5	110	.5	13	10	1267	3.98	7	5	ND	1	274	1	2	2	85	.71	.145	5	30	.71	148	.06	2	2.93	.03	.15	1	1
LN6 1-87 4+00W 1+25N	3	131	2	90	.5	18	14	655	4.72	2	5	ND	1	385	1	2	2	107	.89	.112	5	44	1.54	72	.13	2	5.74	.04	.18	1	1
LN6 1-87 4+00W 1+00N	2	62	10	88	.6	10	8	424	4.65	7	5	ND	1	145	1	2	2	102	.46	.095	5	31	.75	73	.10	4	3.16	.03	.13	1	9
LN6 1-87 4+00W 0+75N	25	607	14	85	.7	13	19	869	6.08	2	5	ND	2	315	1	2	2	112	.82	.136	6	23	.77	113	.10	2	5.57	.02	.09	2	30
LN6 1-87 4+00W 0+50N	3	89	2	68	.7	14	10	340	4.37	7	5	ND	1	110	1	2	2	88	.63	.218	4	35	.52	67	.06	8	4.22	.03	.04	1	6
LN6 1-87 4+00W 0+25N	5	56	8	94	.8	10	10	358	4.68	7	5	ND	1	105	1	2	2	97	.47	.084	5	28	.49	68	.08	2	3.87	.03	.05	2	4
LN6 1-87 4+00W 0+00N	3	83	6	72	.8	17	9	311	4.48	6	5	ND	1	93	1	2	2	88	.46	.098	5	40	.53	50	.09	4	3.55	.02	.06	1	9
LN6 1-87 4+00W 0+25S	3	135	7	82	.5	14	8	526	4.05	2	5	ND	1	135	1	2	2	83	.81	.113	4	40	.70	49	.10	9	5.85	.03	.04	1	2
LN6 1-87 4+00W 0+50S	5	73	6	76	.5	10	7	334	4.91	11	5	ND	1	86	1	2	3	97	.39	.102	4	29	.55	58	.09	2	3.81	.02	.05	2	7
LN6 1-87 4+00W 0+75S	5	184	67	485	2.3	14	11	1271	5.09	2	5	ND	2	159	1	2	2	97	.46	.164	4	34	.80	132	.10	2	5.45	.03	.07	1	12
LN6 1-87 4+00W 1+00S	2	46	9	164	1.4	9	6	284	4.12	8	5	ND	1	98	1	3	2	84	.35	.139	4	25	.44	60	.08	2	3.77	.02	.05	1	5
LN6 1-87 4+00W 1+25S	3	67	8	102	1.3	12	10	447	5.92	9	5	ND	2	109	1	2	2	121	.45	.109	5	32	.66	68	.13	7	5.13	.03	.06	2	7
LN6 1-87 4+00W 1+50S	1	40	13	89	.5	12	8	481	5.23	10	5	ND	1	127	1	2	2	119	.54	.212	4	33	.79	89	.09	2	3.30	.03	.08	1	9
LN6 1-87 4+00W 1+75S	2	51	7	155	1.4	9	9	554	5.37	2	5	ND	1	122	1	2	2	101	.58	.140	4	25	.56	73	.11	8	5.19	.03	.06	1	16
LN6 1-87 4+00W 2+00S	1	25	5	86	.3	12	10	613	5.93	11	5	ND	2	119	1	2	2	131	.42	.182	3	36	.84	49	.13	3	3.02	.02	.05	1	27
LN6 1-87 4+00W 2+25S	1	46	4	44	.6	4	6	325	2.68	5	5	ND	1	90	1	2	2	47	.54	.084	2	10	.42	18	.06	7	2.57	.01	.03	1	40
LN6 1-87 4+00W 2+50S	3	37	7	144	1.0	6	7	314	4.12	11	5	ND	1	142	1	2	2	98	.83	.054	4	17	.47	31	.12	3	2.56	.03	.04	2	19
LN6 1-87 3+00W 2+50N	1	174	7	110	.4	25	11	686	4.13	9	5	ND	1	151	1	2	2	97	.51	.077	4	74	1.01	66	.08	2	2.86	.02	.06	1	2
LN6 1-87 3+00W 2+25N	1	96	4	67	.1	6	7	646	2.15	9	5	ND	1	82	1	5	2	54	.19	.048	2	15	.49	53	.04	2	1.02	.01	.03	2	1
LN6 1-87 3+00W 2+00N	1	113	14	130	.3	13	11	995	4.13	11	5	ND	1	224	1	2	6	82	.56	.118	6	39	.71	153	.05	2	2.33	.03	.10	1	7
LN6 1-87 3+00W 1+75N	7	253	34	125	.6	11	13	743	5.96	9	5	ND	1	201	1	2	2	149	.65	.139	8	27	1.25	59	.08	11	4.26	.03	.07	1	3
LN6 1-87 3+00W 1+50N	3	73	6	86	.4	18	10	441	4.50	7	5	ND	1	128	1	2	2	90	.42	.082	7	45	.86	67	.09	7	2.73	.03	.10	1	2
LN6 1-87 3+00W 1+25N	3	106	13	123	.3	11	12	778	4.62	9	5	ND	1	246	1	2	2	87	.55	.105	5	30	.87	106	.06	2	2.59	.03	.12	1	3
LN6 1-87 3+00W 1+00N	5	117	9	222	.5	13	11	888	4.55	9	5	ND	1	171	1	2	2	88	.93	.144	5	32	.59	79	.06	4	3.66	.03	.14	1	4
LN6 1-87 3+00W 0+75N	13	125	13	187	.6	14	12	671	5.82	15	5	ND	1	202	1	2	3	116	.70	.136	4	31	.70	79	.07	3	2.83	.02	.09	1	3
LN6 1-87 3+00W 0+50N	26	262	20	193	1.0	9	11	1048	7.32	15	5	ND	1	223	1	2	2	158	.64	.096	14	23	.96	69	.13	2	3.54	.02	.09	1	4
LN6 1-87 3+00W 0+25N	10	118	23	141	.3	9	11	625	5.35	10	5	ND	1	166	1	2	2	102	.85	.196	3	18	.96	57	.08	9	3.69	.02	.10	1	3
LN6 1-87 3+00W 0+00N	4	35	7	64	.5	10	5	245	3.43	10	5	ND	1	98	1	2	3	82	.47	.082	4	27	.39	69	.08	5	2.01	.03	.05	1	7
LN6 1-87 3+00W 0+25S	11	121	19	95	.6	9	8	301	4.53	8	5	ND	1	129	1	2	2	87	.65	.106	4	19	.43	61	.08	9	4.45	.03	.05	1	10
LN6 1-87 3+00W 0+50S	7	93	30	188	.6	15	13	426	5.07	13	5	ND	2	102	1	3	2	108	.54	.090	4	33	.55	66	.11	5	3.01	.03	.05	1	11
STD C/AU-S	16	58	40	130	6.8	67	27	1023	3.97	42	19	7	37	48	17	17	21	56	.46	.087	36	61	.84	171	.08	37	1.75	.06	.13	13	47

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG 1-87 3+00W 0+75S	7	206	10	75	.6	8	8	297	4.95	11	5	ND	2	191	1	2	2	89	.59	.147	3	22	.48	82	.07	4	4.52	.02	.04	1	7
LNG 1-87 3+00W 1+00S	21	174	44	80	.6	7	11	401	4.60	13	7	ND	3	223	2	3	2	76	.65	.119	3	14	.54	57	.08	15	4.20	.03	.06	1	1
LNG 1-87 3+00W 1+25S	5	84	27	111	.2	18	11	392	4.42	10	5	ND	1	166	1	2	2	84	.50	.134	3	28	.76	66	.09	6	4.07	.02	.06	1	8
LNG 1-87 3+00W 1+50S	2	60	11	96	.4	16	11	484	4.56	14	5	ND	2	147	1	5	2	103	.58	.131	3	32	.82	81	.12	3	4.00	.03	.06	1	8
LNG 1-87 3+00W 1+75S	4	127	19	91	.3	8	11	431	4.47	18	7	ND	1	139	2	2	2	74	.68	.146	2	22	.62	43	.06	2	3.28	.02	.05	1	9
LNG 1-87 3+00W 2+00S	2	65	24	93	.4	9	9	403	5.28	14	5	ND	1	119	1	2	2	100	.47	.290	2	28	.60	79	.08	2	3.50	.02	.06	1	9
LNG 1-87 3+00W 2+25S	1	32	14	93	.1	9	7	365	4.67	13	5	ND	1	112	1	3	2	106	.52	.111	3	25	.53	53	.11	2	2.46	.02	.04	1	7
LNG 1-87 3+00W 2+50S	9	57	15	251	.1	12	15	810	4.52	8	5	ND	1	168	1	2	2	86	1.15	.062	3	26	.94	45	.08	2	2.66	.03	.06	1	2
LNG 1-87 2+00W 2+50N	5	69	13	76	.3	10	8	357	3.34	8	5	ND	2	94	1	2	2	89	.37	.049	5	31	.60	53	.08	2	1.86	.02	.06	1	1
LNG 1-87 2+00W 2+25N	7	368	26	116	.1	16	9	428	3.73	8	5	ND	2	110	1	2	2	85	.50	.059	7	34	.78	50	.10	3	2.82	.03	.05	1	1
LNG 1-87 2+00W 2+00N	4	95	10	79	.2	10	9	462	3.61	9	5	ND	1	136	1	2	2	93	.49	.059	6	27	.82	54	.08	3	2.06	.03	.08	1	2
LNG 1-87 2+00W 1+75N	6	97	7	87	.1	10	8	394	4.31	12	5	ND	1	132	1	2	2	102	.49	.064	5	28	.64	56	.09	2	2.22	.02	.08	1	1
LNG 1-87 2+00W 1+50N	11	365	15	159	.1	15	24	1442	5.63	14	7	ND	1	94	1	2	2	118	.51	.068	5	37	.79	54	.10	6	2.15	.03	.06	1	2
LNG 1-87 2+00W 1+25N	5	78	10	101	.2	15	8	465	5.10	15	5	ND	1	79	1	2	2	111	.39	.123	3	38	.59	45	.09	2	2.58	.02	.06	1	1
LNG 1-87 2+00W 1+00N	4	49	11	197	.3	16	13	1180	5.93	14	5	ND	1	104	1	2	2	126	.78	.119	3	42	1.06	72	.11	2	2.20	.03	.18	1	1
LNG 1-87 2+00W 0+75N	3	29	10	103	.5	9	7	334	3.18	9	5	ND	1	107	2	2	2	84	.48	.054	4	25	.51	68	.09	10	1.67	.02	.08	1	1
LNG 1-87 2+00W 0+50N	4	104	11	410	.4	15	13	1430	5.57	17	5	ND	1	81	1	2	2	119	.62	.098	3	39	1.12	59	.14	2	2.81	.03	.15	1	1
LNG 1-87 2+00W 0+25N	6	528	10	237	1.0	19	13	1020	5.77	32	5	ND	2	88	1	4	2	140	.51	.077	6	62	1.11	52	.15	2	2.90	.03	.12	1	7
LNG 1-87 2+00W 0+00N	18	271	14	219	.3	17	10	587	5.38	12	5	ND	1	94	1	2	2	161	.76	.050	5	82	.71	38	.17	4	1.68	.03	.12	1	1
LNG 1-87 2+00W 0+25S	16	677	34	462	.4	18	14	1205	5.18	12	5	ND	1	105	2	2	2	137	.95	.059	6	79	.80	40	.15	2	2.13	.04	.09	1	1
LNG 1-87 2+00W 0+50S	5	180	13	102	.8	15	9	361	3.63	11	5	ND	1	145	1	5	2	69	.88	.130	3	34	.49	46	.08	2	5.35	.03	.06	1	1
LNG 1-87 2+00W 0+75S	11	99	11	41	.2	16	10	333	4.97	13	5	ND	1	157	1	2	2	142	.93	.086	2	79	.43	32	.15	4	1.87	.02	.06	3	1
LNG 1-87 2+00W 1+00S	3	45	12	82	.6	8	6	271	3.88	11	5	ND	1	127	2	2	3	87	.54	.112	3	22	.43	56	.10	2	2.52	.02	.06	1	18
LNG 1-87 2+00W 1+25S	3	79	10	89	.2	11	8	338	4.28	11	5	ND	1	129	1	2	2	92	.48	.102	3	22	.59	71	.09	2	3.50	.02	.06	1	19
LNG 1-87 2+00W 1+50S	2	78	15	145	.1	11	10	454	4.06	16	5	ND	1	117	1	4	2	88	.51	.103	3	24	.71	61	.12	4	3.98	.03	.05	2	4
LNG 1-87 2+00W 1+75S	3	78	15	83	.2	9	8	387	4.18	18	5	ND	1	149	1	2	2	82	.50	.145	3	32	.57	60	.07	5	2.99	.02	.05	1	1
LNG 1-87 2+00W 2+00S	1	18	8	77	.3	5	5	229	3.82	11	5	ND	1	100	2	2	2	81	.41	.093	3	16	.34	53	.09	3	2.20	.02	.04	1	2
LNG 1-87 2+00W 2+25S	3	50	12	107	.7	9	7	338	4.65	13	5	ND	1	125	1	2	2	102	.43	.077	3	28	.58	64	.10	2	3.53	.02	.04	1	7
LNG 1-87 2+00W 2+50S	4	58	14	69	.1	11	7	343	3.88	8	5	ND	1	110	1	2	2	108	.49	.054	4	27	.62	51	.11	4	1.85	.03	.06	1	1
LNG 1-87 1+00W 2+50N	6	521	10	95	.1	18	11	759	3.52	8	5	ND	1	133	1	2	2	81	.60	.055	9	32	.79	41	.07	9	2.35	.03	.06	1	1
LNG 1-87 1+00W 2+25N	3	142	10	91	.1	12	9	459	4.28	10	5	ND	1	129	1	2	2	92	.48	.120	6	27	.74	75	.08	2	3.38	.03	.06	1	3
LNG 1-87 1+00W 2+00N	3	81	11	88	.3	17	8	307	4.62	9	5	ND	1	80	1	2	2	100	.32	.098	5	40	.61	47	.08	2	3.16	.02	.04	1	1
LNG 1-87 1+00W 1+75N	27	88	13	86	.4	9	10	342	5.88	16	5	ND	1	141	1	2	2	143	1.19	.087	4	33	.47	91	.11	2	3.12	.05	.17	2	1
LNG 1-87 1+00W 1+50N	10	349	8	180	.1	21	13	834	4.71	10	5	ND	1	124	1	2	2	109	.67	.055	5	60	.90	56	.09	5	2.50	.03	.06	1	1
LNG 1-87 1+00W 1+25N	13	485	9	126	.3	22	14	731	3.94	11	6	ND	1	116	1	2	2	89	.95	.045	6	45	.86	37	.09	5	2.15	.03	.05	1	1
LNG 1-87 1+00W 1+00N	23	202	10	86	.2	12	9	377	4.41	10	5	ND	1	99	1	2	2	125	.65	.031	5	37	.52	37	.15	2	1.60	.02	.07	1	1
LNG 1-87 1+00W 0+75N	2	44	19	126	.6	11	10	405	4.49	10	9	ND	2	90	1	2	2	84	.35	.125	4	30	.50	61	.08	5	4.35	.02	.06	1	3
STD C/AU-S	19	58	36	124	6.7	66	27	990	3.94	44	19	7	36	48	17	17	21	56	.47	.085	36	62	.85	167	.08	31	1.75	.06	.13	12	51

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
LNG 1-87 1+00W 0+50N	13	714	8	274	.3	28	19	1281	6.27	7	5	ND	4	77	1	2	2	148	.68	.042	5	86	1.94	27	.24	3	3.12	.05	.11	1	1
LNG 1-87 1+00W 0+25N	26	158	3	132	.4	18	12	477	4.56	9	5	ND	2	87	2	2	2	130	.65	.049	4	75	.79	38	.17	7	1.78	.03	.10	1	8
LNG 1-87 1+00W 0+00N	31	3735	21	164	10.6	37	37	1273	6.13	23	5	ND	3	80	1	2	2	113	.71	.241	4	125	1.27	86	.10	3	4.00	.03	.09	1	159
LNG 1-87 1+00W 0+25S	33	214	14	107	1.2	32	16	480	6.47	17	5	ND	2	130	1	2	3	143	.78	.122	3	154	1.13	69	.19	7	3.96	.03	.13	2	9
LNG 1-87 1+00W 0+50S	5	70	6	79	.4	9	8	318	3.82	9	5	ND	1	144	1	2	2	104	.70	.052	3	29	.49	61	.13	4	2.37	.02	.07	1	2
LNG 1-87 1+00W 0+75S	4	58	5	119	.3	9	7	395	4.04	11	5	ND	1	144	1	2	2	96	.68	.158	3	24	.56	77	.11	9	3.18	.03	.06	1	4
LNG 1-87 1+00W 1+00S	15	940	5	456	.2	23	23	1038	4.26	10	5	ND	1	195	2	2	2	95	1.14	.059	8	51	.72	44	.09	2	2.33	.03	.07	1	5
LNG 1-87 1+00W 1+25S	4	70	9	99	.4	8	6	329	3.88	5	5	ND	1	137	1	2	2	80	.50	.117	4	23	.41	62	.09	4	3.22	.02	.06	1	7
LNG 1-87 1+00W 1+50S	2	53	9	85	.7	10	6	276	3.67	5	5	ND	2	116	3	2	2	77	.54	.197	4	29	.43	74	.09	5	3.39	.02	.05	1	1
LNG 1-87 1+00W 1+75S	7	130	3	79	.6	7	7	277	3.54	5	5	ND	1	266	1	2	2	84	.90	.053	3	16	.46	89	.13	4	3.72	.03	.07	1	4
LNG 1-87 1+00W 2+00S	3	121	2	77	1.2	7	6	266	2.87	2	5	ND	1	188	1	2	2	65	.70	.156	4	16	.48	87	.07	2	5.22	.03	.05	1	8
LNG 1-87 1+00W 2+25S	6	59	4	86	.6	6	7	312	3.98	11	5	ND	1	122	1	2	2	102	.45	.041	3	19	.50	48	.13	2	2.77	.02	.05	2	5
LNG 1-87 1+00W 2+50S	4	79	6	98	.3	9	8	499	3.92	6	5	ND	1	74	1	2	2	95	.39	.073	3	21	.75	63	.08	2	3.25	.02	.05	1	6
LNG 1-87 0+00W 2+50N	3	77	9	92	.5	9	8	714	3.90	7	5	ND	2	117	1	2	2	109	.44	.105	5	24	.55	80	.08	2	2.24	.03	.06	1	4
LNG 1-87 0+00W 2+25N	5	62	8	95	.2	8	9	764	3.91	8	5	ND	1	149	1	2	2	88	.37	.125	5	22	.47	93	.08	2	2.45	.02	.07	1	3
LNG 1-87 0+00W 2+00N	5	70	8	141	.7	11	9	626	4.07	9	5	ND	1	91	1	2	3	102	.46	.100	4	29	.56	70	.09	2	2.27	.02	.07	1	11
LNG 1-87 0+00W 1+75N	4	66	6	128	.5	15	10	737	4.58	10	5	ND	2	93	1	2	2	115	.53	.090	4	54	.72	57	.11	5	2.52	.03	.07	1	7
LNG 1-87 0+00W 1+50N	5	185	2	82	.3	22	10	533	4.19	10	5	ND	1	86	1	2	3	102	.46	.071	4	55	.81	55	.11	2	3.12	.03	.05	2	6
LNG 1-87 0+00W 1+25N	4	104	3	120	.5	16	9	658	4.21	8	5	ND	2	75	1	2	2	103	.40	.087	4	49	.69	60	.10	14	2.25	.03	.07	1	1
LNG 1-87 0+00W 1+00N	41	427	16	130	1.1	13	24	2107	7.64	8	5	ND	2	108	2	2	2	127	.51	.192	5	31	.55	108	.08	4	2.76	.02	.08	1	6
STD C/AU-S	20	61	38	137	7.6	71	29	1075	3.91	41	17	8	41	53	20	18	21	62	.51	.090	40	61	.92	177	.09	36	1.93	.07	.14	14	43
LNG 1-87 0+00W 0+75N	13	108	12	141	.5	11	15	957	5.00	9	5	ND	2	135	1	2	2	103	.50	.106	5	46	.48	104	.09	2	1.99	.03	.09	4	2
LNG 1-87 0+00W 0+50N	10	81	11	98	.4	8	12	642	4.04	10	5	ND	2	134	1	2	2	89	.83	.093	4	18	.32	155	.11	3	2.23	.03	.08	1	149
LNG 1-87 0+00W 0+25N	37	265	6	173	.4	32	16	653	5.13	10	5	ND	2	111	1	2	2	122	.85	.045	4	89	1.24	41	.15	4	2.58	.04	.06	2	1
LNG 1-87 0+00W 0+00N	11	499	5	88	.2	88	23	570	5.34	15	5	ND	1	48	1	2	2	119	.45	.088	2	264	2.16	59	.16	10	3.05	.03	.10	3	5
LNG 1-87 0+00W 0+25S	9	214	2	100	.5	53	22	403	5.73	10	5	ND	1	82	1	2	2	147	.73	.044	2	242	1.48	45	.24	2	2.54	.03	.15	1	1
LNG 1-87 0+00W 0+50S	6	90	2	97	.5	12	11	440	4.23	2	5	ND	2	205	1	2	2	109	1.81	.042	4	27	.85	40	.16	2	4.42	.02	.07	1	1
LNG 1-87 0+00W 0+75S	9	137	7	76	.4	10	9	290	3.70	4	5	ND	1	257	1	2	2	93	1.11	.045	4	24	.56	91	.08	3	3.06	.04	.09	1	1
LNG 1-87 0+00W 1+00S	13	91	8	76	.4	12	10	398	3.85	5	5	ND	1	232	1	2	2	103	.86	.047	3	32	.61	73	.13	5	2.72	.03	.09	1	5
LNG 1-87 0+00W 1+25S	9	129	2	85	.4	15	10	359	4.89	7	5	ND	2	186	1	2	2	102	.75	.145	4	36	.62	65	.11	2	5.07	.03	.06	2	10
LNG 1-87 0+00W 1+50S	5	130	2	78	.4	8	10	333	3.57	2	5	ND	2	242	1	2	2	73	1.70	.112	2	16	.57	44	.09	5	8.19	.02	.08	1	49
LNG 1-87 0+00W 1+75S	9	1125	12	136	.9	10	13	603	3.85	10	5	ND	1	210	1	2	2	86	1.32	.082	11	25	.73	40	.07	3	3.04	.02	.09	2	6
LNG 1-87 0+00W 2+00S	14	98	12	92	.5	7	9	406	4.74	9	5	ND	1	109	1	2	2	113	.48	.088	3	20	.57	64	.11	2	3.23	.03	.06	1	81
LNG 1-87 0+00W 2+25S	7	58	22	132	1.1	8	8	365	4.87	5	5	ND	1	75	1	2	3	114	.26	.116	3	23	.55	63	.08	2	2.99	.02	.06	1	15
LNG 1-87 0+00W 2+50S	10	196	9	86	.4	9	11	370	4.33	11	5	ND	1	470	1	2	2	105	.90	.075	3	30	.50	145	.08	7	2.80	.04	.10	3	8



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,831

SYMBOLS

- ⊠ LCP
- CLAIM BOUNDARY
- FAULT
- GEOLOGICAL CONTACT
- GRID ESTABLISHED - SOIL SAMPLES AT 50 m INTERVALS
- TRENCH
- FOLIATION AND DIP
- ■ SOIL SAMPLE (SL)
- ▲ SILT SAMPLE (ST)
- ● ROCK SAMPLE - OUTCROP (R), TALUS (t), FLOAT (F)

CONTOUR INTERVAL - 50 m

MINERALIZATION

py	PYRITE
cpy	CHALCOPYRITE
mgn	MAGNETITE

GEOLOGICAL LEGEND

1 HOGEM INTRUSIVE (JURASSIC)

MOSTLY PINK SYENITE AND MONZONITE WITH VARIABLE COARSE GRAIN HYBRID STAGES OF PORPHYRITIC (P) SYENITE (MEGACRYSTIC) THROUGH FINE GRAIN MONZONITES

2 TAKLA GROUP (TRIASSIC)

MOSTLY GREEN FINE GRAIN ANDESITIC VOLCANICS WITH MINOR TUFF (t) AND BRECCIA (bxx). USUALLY CONTAINS TRACE AMOUNT OF PYRITE, MAGNETITE AND EPIDOTE. CONTAINS MOST OF THE MINERALIZATION IN THE FORM OF SMALL LENSES OR PODS OF MASSIVE TO DISSEMINATED CHALCOPYRITE - PYRITE - PYRRHOTITE WITH ASSOCIATED PROPYLITIC ALTERATION

CATHEDRAL GOLD CORPORATION

LING PROPERTY

N.T.S. 93N/14 — M.D. OMINECA

GEOLOGY & SAMPLE LOCATION MAP

metres 0 200 400 600 800 metres

SCALE: 1:10 000	GEOLOGIST: A. TAYLOR
DATE: NOVEMBER 1987	DRAWN BY: J. CORKUM