BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	2001/2002
REPORT #:	PAP 01-8
NAME:	RALPH KEEFE

D. TECHNICAL REPORT

BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, page 6.**

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the *Freedom of Information Act*.

Name RALPH R. KOEFE Reference Number P11

LOCATION/COMMODITIES

Project Area (as listed in Part A) CHIM PROJECT MINFILE No. if applicable —

Location of Project Area NTS 103 I 9/E Lat 54° 37' Long 128° 11'

Description of Location and Access Helicopter from Terrace Airport

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)
ANSGAR LENSER - retired F.S. employee - experienced bushman - student prospector.

Main Commodities Searched For VMS potential

Known Mineral Occurrences in Project Area Numerous epithermal occurences of minimal significance

WORK PERFORMED

1. Conventional Prospecting (area) General prospecting (Rock Sampling)
2. Geological Mapping (hectares/scale) Geological mapping
3. Geochemical (type and no. of samples) Silty at creeks - where applicable
4. Geophysical (type and line km) Nil
5. Physical Work (type and amount) "
6. Drilling (no. holes, size, depth in m, total m) "
7. Other (specify) "

FEEDBACK: comments and suggestions for Prospector Assistance Program

Nil

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- **Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.**

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Name RALPH R. KEEFE Reference Number P11

1. LOCATION OF PROJECT AREA [*Outline clearly on accompanying maps of appropriate scale.*]

HEADWATERS OF CHIMDEMASH CREEK

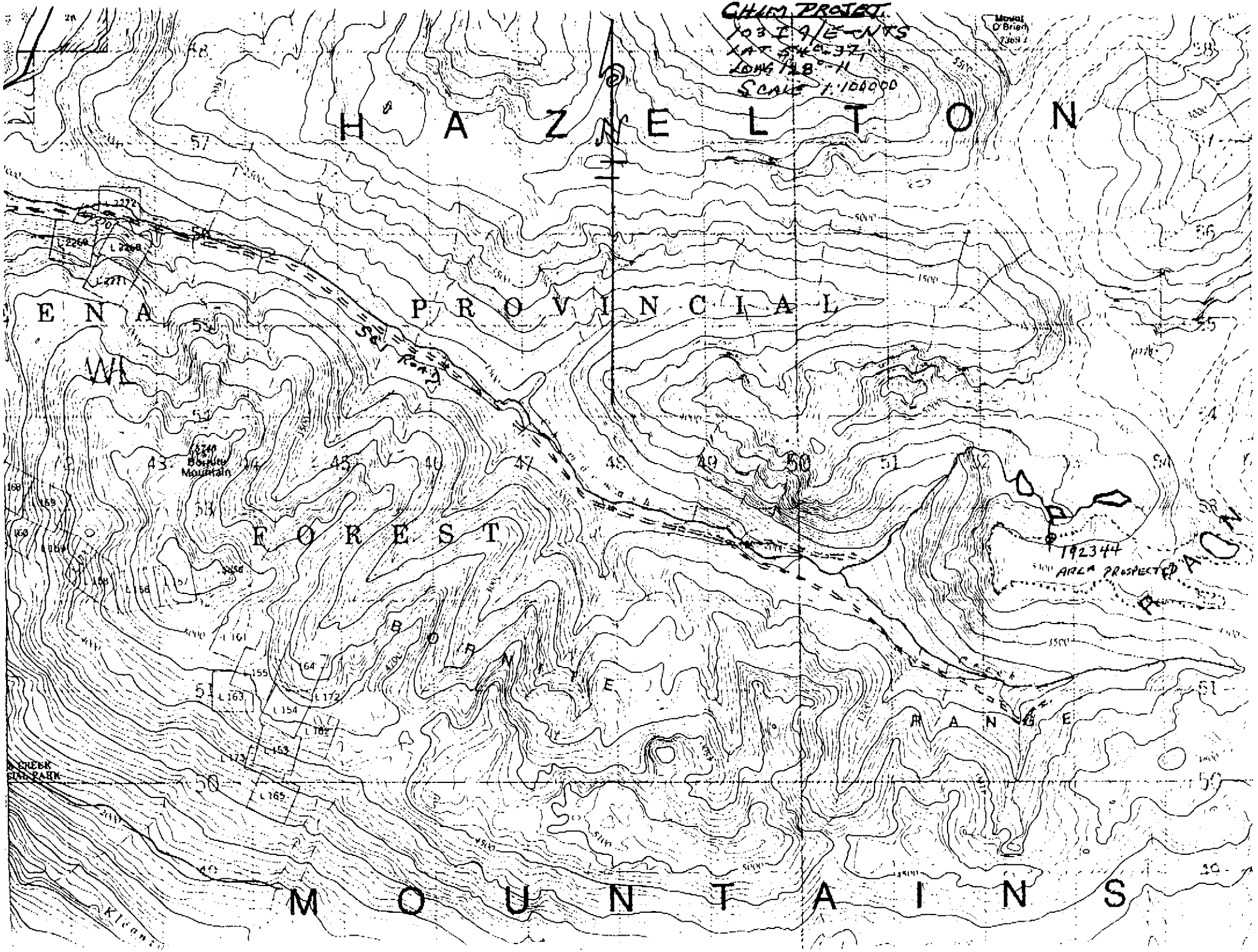
2. PROGRAM OBJECTIVE [Include original exploration target.]

GENERAL PROSPECTING

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

PREDOMINENTLY DIORITE WITH WINDOWS OF SEDIMENTS.
WAS LOOKING FOR POSSIBLE STRUCTURE OF VMS. FOLLOW-UP OF A SUPPOSED MASSIVE SULPHIDE structure (@ 'to 20') wide by ~ retired MINE MAP. Unable to locate any mineralization of significance other than small epithermal structure of 4cm.

Tried to access area with ATV over deactivated road at 11½Km - unsuccessful. Alternate access by helicopter. 2men on site 11½ hours/ea.


CHILM PROJECT
103I 9 E-NTS
LAT 54°37'
LONG 128°-11
SCALE 1:100000
HAZELTON
MOUNTAINS
PROVINCIAL
FOREST
Mount O'Brien
Boulder Mountain
192344
AREA PROSPECTED
BORNITE
RANGE
Kitsault

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT CHIM File # A103264 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
SI	.36	17.76	.60	1.6	96	.4	.1	12	.03	.5	<.1	<.2	<.1	2.5	<.01	.33	<.02	<2	.14	.001	<.5	4.8	.01	5.0	<.001	<1	.02	.48	<.01	<.2	.03	<5	<.1	.02	.1
192344	2.48	9591.55	243.32	470.0	99999	6.2	3.4	107	1.59	236.6	.2	21.2	.2	7.6	12.31	1120.68	1.17	89	.05	.010	2.1	80.9	.02	178.4	<.001	2	.16	.007	.11	3.8	.02	4434	26.0	.09	.6
RE 192344	2.55	9904.46	251.35	471.1	99999	6.7	3.6	130	1.61	236.9	.2	20.1	.2	7.3	11.66	1094.25	1.11	89	.05	.010	2.0	84.0	.02	191.9	<.001	2	.15	.006	.10	3.8	.02	4320	25.9	.09	.6
STANDARD DS3	9.70	130.38	35.91	156.4	282	38.6	12.8	809	3.18	29.8	5.4	22.1	3.6	26.8	5.44	5.03	5.66	77	.53	.103	16.0	190.4	.59	161.6	.084	1	1.69	.027	.14	4.1	.99	246	1.3	1.06	6.4

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 DATE REPORT MAILED: Oct 3/01 SIGNED BY: C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT CHIM File # A103264 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1GB Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
SI	.07	<.1	.03	.03	.1	.1	<.1	<.01	<.05	.4	<.01	<.1	<.02	<1	<.1	.1	<10	<2	30
192344	.89	.1	.04	.03	4.1	.6	.3	.68	<.05	1.6	1.12	3.8	<.02	1	.1	.5	<10	<2	30
RE 192344	.86	.2	.03	.03	3.9	.6	.3	.70	<.05	1.6	1.16	3.5	<.02	2	.2	.5	<10	<2	30
STANDARD DS3	5.49	.1	.19	1.51	14.2	2.6	7.1	.04	<.05	2.9	8.42	29.5	2.14	<1	2.3	15.3	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
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Data FA

D. TECHNICAL REPORT

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Name RALPH R. KEEFE Reference Number P11

LOCATION/COMMODITIES

Project Area (as listed in Part A) TET MINFILE No. if applicable _____

Location of Project Area NTS 93F5/E Lat 53°24' Long 125°34'

Description of Location and Access EUCHU REACH - E. of TWEEDSMUIR PARK. MAIN ROAD + Logging road access from Burns Lake to area = 160KM approx.

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

MICHAEL ~~GUMPEL~~ GUMPEL — prospecting (2) seasons

SHAWN TURFORD — " (8-10) "

Main Commodities Searched For Cu, Pb, Zn, Mo

Known Mineral Occurrences in Project Area "CHES" mineral claims recorded this date. Several (3) other Known mineral occurrences + ass reports in locality.

WORK PERFORMED

1. Conventional Prospecting (area) Total of (20) man days prospecting, mapping
2. Geological Mapping (hectares/scale) + silting of Creeks.
3. Geochemical (type and no. of samples) 27 rock + silts taken. (18 silts 9 rock)
4. Geophysical (type and line km) Nil
5. Physical Work (type and amount) "
6. Drilling (no. holes, size, depth in m, total m) "
7. Other (specify) "

FEEDBACK: comments and suggestions for Prospector Assistance Program

Swampy lowland area in which sulphides are located, has made it very difficult to extend or zone in on target area.

Several lines of I.P. is required to ascertain extent of mineralization.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

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Name Ralph R. Keefe Reference Number P11

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

Euchu Reach — N. of Tetachuck River (Lake) and E. of Tweedsmuir Park

2. PROGRAM OBJECTIVE [Include original exploration target.]

Prospecting, Geological Mapping & Geo-Chem (Silting) of creeks

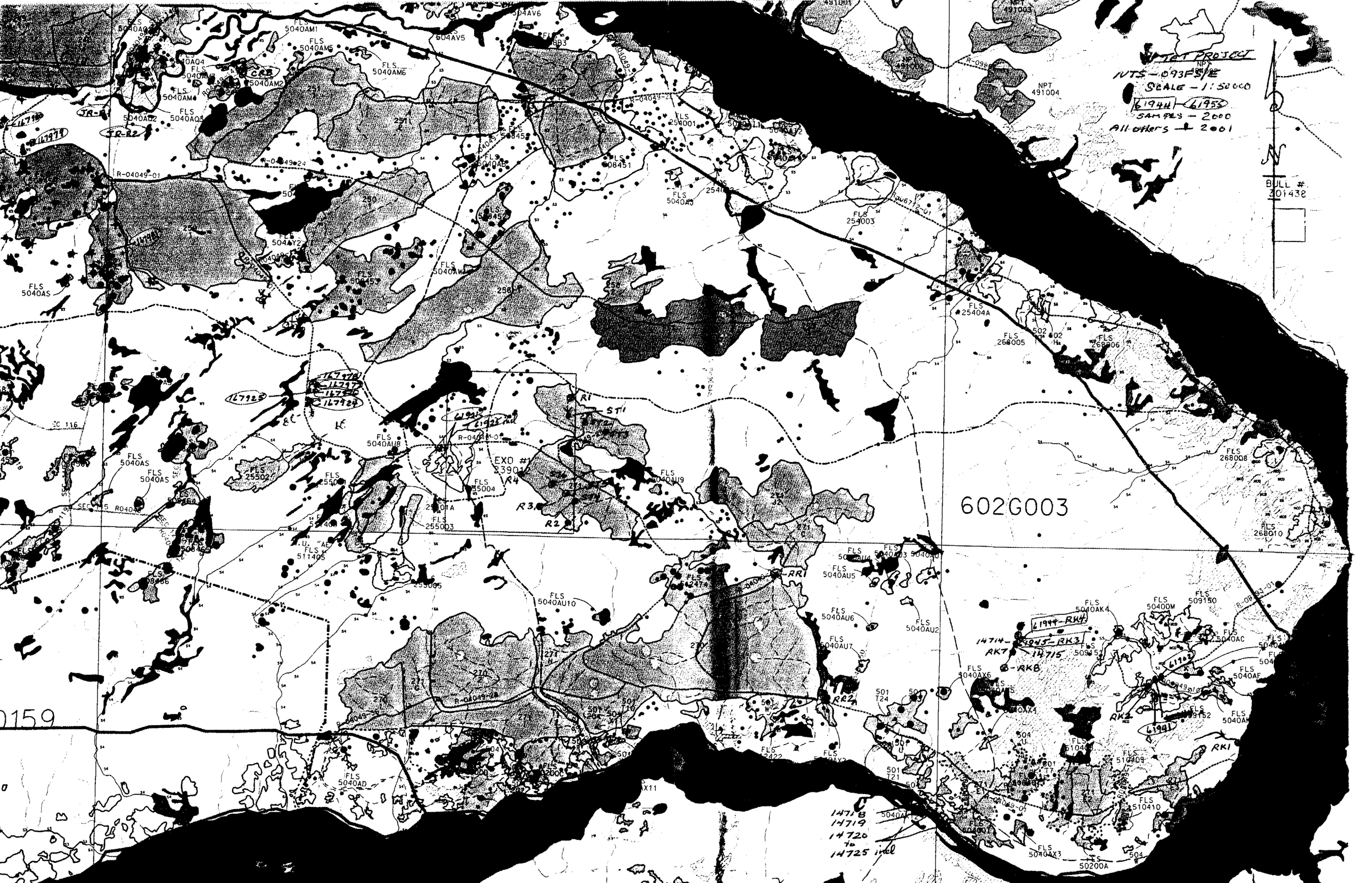
3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

Ref - old assesment report #9580. Was unable to extend the known mineralization (Cu+Mo) predominant, due to extremely wet swampy ground.

All old logging roads + blocks prospected in adjacent areas (4-6 Km) surrounding to S, W + East.

Follow-up sitting + prospecting of (2000) silts taken into small lake confirmed porphyry of Mo+Cu - but low grades. Ref Samples 61944 + 45 plus RK3, RK4 + 14714 + 14715 (2001)

I.P is required to determine extent of mineralization to W - N.W. of this lake.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ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT TET File # A102515 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
RR1	5.54	45.26	6.60	75.9	197	11.2	8.8	1824	2.80	9.8	1.0	3.8	.9	48.8	.35	.38	.74	56	.83	.088	10.8	15.6	.45	137.2	.074	1	1.54	.017	.08	1.8	.17	49	.2	.04	4.5
RR2	2.65	30.09	5.25	53.1	90	10.3	7.2	437	2.27	4.4	1.2	5.6	1.3	34.8	.10	.25	.83	64	.63	.064	8.0	18.8	.47	76.5	.110	1	1.14	.023	.07	1.3	.07	19	.2	<.02	3.9
RK1	3.83	10.15	1.90	17.6	67	2.4	3.7	5130	1.04	4.3	.4	6.1	<.1	99.2	.30	.17	.02	<2	3.96	.172	1.0	4.2	.20	105.6	.006	8	.13	.009	.14	<.2	.03	114	3.1	.02	.6
RK2	1.76	185.39	4.39	72.5	395	16.9	4.6	589	.93	8.1	6.1	11.2	.1	90.9	1.98	1.56	.08	25	3.16	.156	8.0	12.4	.27	51.3	.034	6	.60	.015	.14	<.2	.18	130	5.7	.02	2.2
RK3	4.49	382.79	2.82	36.3	124	7.8	4.4	344	1.24	1.6	4.4	2.3	.7	47.1	.25	.35	.04	32	1.11	.060	9.5	7.6	.30	92.7	.059	1	.66	.010	.04	.7	.09	37	1.0	.02	2.5
RK4	5.89	519.90	2.44	55.2	124	9.2	4.5	362	1.25	1.4	16.2	1.3	.9	49.2	.47	.38	.04	33	1.02	.068	19.1	7.3	.34	83.6	.074	<1	.74	.011	.04	.4	.13	36	1.0	<.02	2.8
RK7	14.80	1508.79	4.47	71.8	620	15.5	8.4	1078	1.85	4.8	85.4	5.3	.8	149.7	1.41	.77	.09	40	2.61	.167	65.7	14.5	.35	177.7	.025	1	1.34	.013	.05	<.2	.29	111	2.9	.06	3.2
RK8	4.75	164.41	4.76	40.3	493	9.7	6.3	800	1.58	4.4	39.5	5.3	.6	122.2	1.05	.99	.08	37	2.35	.147	30.3	12.9	.32	128.3	.028	2	1.15	.014	.07	<.2	.16	76	1.0	.03	3.1
RE ST2	1.40	37.00	9.33	80.8	104	10.9	8.3	1061	2.49	7.1	.4	2.7	1.5	31.1	.31	.36	.43	65	.52	.059	7.8	16.3	.49	93.4	.126	1	1.19	.018	.09	.8	.14	25	.1	.02	4.5
R1	4.31	87.76	9.24	101.1	1008	25.4	11.8	1845	3.58	11.2	1.6	4.2	.7	87.9	1.26	.40	.69	63	1.83	.110	24.5	26.8	.44	215.0	.056	1	3.37	.018	.09	.2	.22	93	.2	.06	7.8
R2	4.96	58.88	17.48	149.4	664	22.5	10.6	1291	2.92	18.5	1.5	3.6	1.4	40.5	.75	.54	.26	66	1.05	.059	17.7	24.8	.39	230.9	.065	1	2.17	.013	.09	<.2	.24	72	.4	.06	6.3
R3	9.02	129.74	6.51	122.7	819	19.8	9.0	844	2.94	26.0	1.9	8.2	.5	48.5	1.60	.79	.46	76	1.38	.105	19.9	18.1	.56	94.6	.067	<1	1.72	.036	.08	.4	.26	160	.7	.04	6.1
R4	3.01	73.12	13.11	176.4	1079	23.6	11.9	1750	3.31	28.5	1.4	5.2	1.0	33.1	1.28	.71	.38	64	1.09	.151	32.8	23.3	.42	164.6	.062	1	3.30	.018	.09	<.2	.25	101	<.1	.04	6.8
ST1	2.38	33.04	6.46	63.5	264	8.7	7.6	1495	1.95	5.0	.9	1.3	1.1	34.9	.45	.23	.30	54	.62	.038	8.5	15.5	.33	78.0	.091	<1	1.18	.014	.05	.5	.10	30	.1	.07	4.1
ST2	1.48	34.81	9.34	82.4	114	10.5	8.5	1118	2.51	7.6	.4	6.2	1.6	30.3	.29	.35	.44	66	.48	.057	7.8	15.5	.49	93.5	.122	<1	1.20	.017	.09	.8	.14	31	.1	.03	4.6
ST3	9.07	39.34	7.46	65.7	187	10.2	8.6	1368	2.39	8.9	7.2	1.4	.9	38.3	.38	.29	.59	61	.60	.050	8.3	15.5	.42	79.8	.112	1	1.17	.018	.05	1.2	.12	38	.3	.05	4.2
ST4	2.45	11.39	6.75	49.0	95	9.2	7.4	622	2.32	8.7	.4	1.7	1.2	19.8	.14	.31	.15	60	.39	.047	7.1	14.3	.35	83.9	.098	1	.96	.011	.04	<.2	.09	25	.2	.04	3.9
ST5	6.46	24.26	6.86	64.9	300	10.5	7.8	3202	2.47	14.2	.6	2.4	.7	34.7	.59	.38	.18	53	.82	.053	8.7	13.2	.34	142.4	.087	<1	1.19	.016	.05	.3	.16	59	.6	.04	4.0
ST6	12.10	23.11	9.21	70.5	275	11.8	10.5	7697	3.15	20.9	.8	5.3	1.0	37.2	.68	.38	.24	55	.65	.050	11.2	14.6	.36	234.0	.086	1	1.15	.015	.05	.3	.21	57	.4	.04	4.5
STANDARD DS3	9.40	122.29	35.31	152.5	293	35.1	12.5	857	3.14	30.7	5.7	22.2	4.1	26.5	5.46	5.38	5.64	76	.52	.095	17.3	190.7	.59	147.3	.081	2	1.69	.027	.17	3.9	1.02	230	1.2	1.18	6.5

GROUP 1F30 - 30.00 GM SAMPLE, 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 2 2001 DATE REPORT MAILED: Aug 16/01 SIGNED BY. C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data L FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT TET File # A102515 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
RR1	2.49	.1	.02	.86	8.0	4.1	.4	.07	<.05	1.1	12.97	16.0	.03	<1	.4	17.1	<10	<2	30
RR2	1.42	.1	.03	.95	6.9	2.9	.4	.03	<.05	2.2	7.52	12.9	.02	<1	.3	12.7	<10	<2	30
RK1	.24	<.1	<.02	.24	1.9	.3	.2	.60	<.05	.2	1.11	1.8	<.02	7	.1	1.7	<10	<2	15
RK2	1.56	.2	.04	.85	5.2	1.3	.1	.34	<.05	2.0	20.69	5.5	<.02	6	.4	6.7	<10	<2	15
RK3	2.75	<.1	<.02	.71	7.2	1.9	.2	.07	<.05	1.1	12.07	8.4	<.02	7	.2	9.4	<10	<2	30
RK4	4.83	.1	.03	.87	9.0	2.4	<.1	.10	<.05	1.1	21.05	8.3	<.02	14	.3	12.1	<10	<2	30
RK7	3.75	.2	.04	1.24	8.1	3.4	.6	.16	<.05	2.3	83.60	17.5	<.02	10	1.2	13.1	<10	<2	15
RK8	1.58	.1	.04	1.01	5.6	2.5	.7	.18	<.05	1.9	37.36	14.8	<.02	3	.6	10.4	<10	<2	15
RE ST2	1.66	.1	.06	.88	7.6	3.8	.4	.04	<.05	3.7	6.63	14.7	.03	1	.3	12.5	<10	<2	30
R1	2.43	.1	.05	1.94	8.9	6.5	.8	.11	<.05	2.3	32.71	52.3	.06	3	1.0	29.0	<10	<2	30
R2	2.55	.1	.08	2.02	15.3	5.4	.9	.03	<.05	3.7	18.50	29.1	.04	3	.7	27.7	<10	<2	30
R3	3.09	.1	.02	1.21	7.2	8.0	.3	.09	<.05	1.3	46.45	14.6	.03	2	.6	29.1	<10	<2	30
R4	8.14	.1	.08	1.47	12.0	6.7	.9	.08	<.05	2.6	45.70	68.8	.05	<1	1.3	54.1	<10	<2	30
ST1	1.41	<.1	.03	1.20	8.0	2.9	.5	.06	<.05	1.8	7.01	15.1	.02	2	.3	10.1	<10	<2	30
ST2	1.73	.1	.08	.85	7.5	3.7	.4	.02	<.05	3.9	6.82	14.5	.03	<1	.3	11.7	<10	<2	30
ST3	1.44	.1	.04	1.20	6.9	2.9	.3	.06	<.05	2.3	8.79	15.3	.03	<1	.4	13.1	<10	<2	30
ST4	1.35	<.1	.05	.95	4.9	2.3	.4	.04	<.05	2.3	5.17	12.5	.02	<1	.2	12.0	<10	<2	30
ST5	2.10	.1	<.02	.79	5.2	3.3	.4	.07	<.05	1.0	10.46	12.7	.02	3	.2	17.0	<10	<2	30
ST6	1.84	.1	.02	.94	6.1	3.6	.4	.03	<.05	1.5	11.80	17.1	.02	2	.4	14.5	<10	<2	30
STANDARD DS3	5.56	.1	.15	1.56	13.4	2.8	7.3	.03	<.05	2.9	8.42	31.5	2.10	<1	2.4	16.1	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 2 2001 DATE REPORT MAILED: Aug 16/01 SIGNED BY. C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT TET File # A102514 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
14714	1.47	129.09	2.47	30.5	173	6.8	4.2	290	2.85	1.1	.4	2.7	1.6	37.7	.03	.03	.04	69	.45	.108	5.0	16.7	.84	161.9	.206	1	1.17	.080	.77	1.9	.36	6	.5	.05	6.0
14715	1.62	57.58	1.57	30.5	123	4.4	3.8	300	3.06	.8	.4	1.5	1.6	43.9	.02	.03	.04	75	.45	.118	5.6	14.1	.86	187.3	.210	1	1.26	.094	.85	.6	.37	<5	.5	.06	6.6
14718	1.74	268.07	3.11	58.2	314	23.8	27.5	332	4.36	1.5	.2	1.6	.3	26.3	.11	.17	.36	117	.80	.092	2.6	46.3	.77	93.1	.222	1	1.22	.086	.38	1.0	.15	5	1.5	.27	5.1
14719	4.04	146.70	60.35	191.2	1096	22.4	18.8	392	2.71	2.2	.3	7.1	.3	28.2	1.90	.27	9.31	87	.98	.095	2.1	35.8	.50	48.2	.179	1	.97	.063	.19	.6	.09	<5	1.0	.23	4.4
14720	6.58	172.99	1.89	23.2	246	16.6	19.9	166	2.66	2.3	.2	2.0	.3	27.8	.07	.11	.39	54	.56	.073	2.5	26.7	.28	16.3	.167	1	.64	.085	.08	1.3	.04	<5	1.2	.26	2.6
RE 14720	6.15	170.33	1.80	21.0	236	16.3	19.2	163	2.62	2.3	.2	1.4	.3	26.6	.06	.11	.37	51	.54	.073	2.5	25.7	.27	16.1	.146	1	.62	.080	.07	1.2	.04	7	1.2	.24	2.4
14721	1.88	48.14	1.64	36.4	73	15.6	15.2	234	2.30	1.6	.2	13.0	.3	13.0	.04	.07	.50	107	.48	.084	3.1	48.7	.69	33.5	.227	<1	.92	.048	.34	.3	.17	<5	.4	.11	5.2
14722	1.29	77.56	.97	44.8	81	6.2	10.1	338	3.09	1.7	.1	2.5	.3	8.6	.03	.07	.13	153	.38	.073	2.8	13.9	.72	185.3	.299	<1	1.00	.060	.77	.8	.36	<5	.5	.09	6.0
14723	1.52	116.24	1.32	50.5	114	6.3	15.4	386	3.38	1.5	.1	4.1	.3	6.7	.04	.04	.29	177	.36	.066	2.4	9.6	.82	220.7	.337	<1	1.08	.060	.99	<.2	.49	<5	1.1	.16	6.8
14724	1.83	143.97	1.65	51.7	130	9.5	19.4	344	3.27	1.8	.1	5.5	.2	8.8	.08	.14	.25	142	.50	.065	2.6	10.2	.66	109.3	.273	1	.88	.062	.51	.8	.25	<5	.7	.13	5.0
14725	2.46	14.22	1.54	27.4	31	3.7	3.4	337	1.49	2.6	.5	.5	3.4	5.3	.02	.13	.09	28	.13	.037	16.4	11.4	.48	24.4	.048	<1	.65	.073	.10	.5	.04	<5	<.1	.02	4.3
STANDARD DS3	9.65	125.24	36.18	154.4	286	38.5	12.9	834	3.18	31.0	6.2	22.4	4.2	27.8	5.61	5.48	5.51	77	.52	.097	17.9	193.7	.60	145.5	.082	2	1.71	.027	.17	3.5	1.07	260	1.3	1.17	6.4

GROUP 1F30 - 30.00 GM SAMPLE, 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 2 2001 DATE REPORT MAILED: Aug 16/01 SIGNED BY ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT TET File # A102514 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
14714	3.56	.1	.06	.26	49.2	2.4	.3	.68	<.05	.7	3.14	9.9	<.02	2	<.1	14.8	<10	<2	30
14715	3.91	.1	.06	.20	54.1	2.5	.4	.57	<.05	.8	3.81	11.0	<.02	<1	.1	14.7	<10	<2	30
14718	1.13	.1	.15	.07	13.4	1.9	.4	1.70	<.05	2.7	6.16	5.7	<.02	2	<.1	29.7	<10	<2	30
14719	.46	.2	.19	.07	7.3	1.5	.4	.86	<.05	3.7	6.15	4.8	<.02	1	<.1	28.1	<10	<2	30
14720	.25	.1	.20	.09	3.4	1.8	.3	.87	<.05	3.5	6.16	5.6	<.02	2	.1	13.2	<10	<2	30
RE 14720	.24	.1	.18	.10	3.2	1.7	.4	.84	<.05	3.3	5.75	5.2	<.02	4	<.1	13.1	<10	<2	30
14721	1.45	.1	.07	.03	17.3	1.8	.2	.19	<.05	1.1	5.09	5.7	<.02	2	<.1	34.8	<10	<2	30
14722	3.45	.1	.06	.04	30.9	3.2	.3	.14	<.05	1.0	6.17	5.2	<.02	1	<.1	16.0	<10	<2	30
14723	4.84	.2	.06	<.02	36.3	4.2	.3	.30	<.05	1.0	5.66	4.5	.02	1	<.1	20.6	<10	<2	30
14724	2.44	.2	.08	<.02	20.3	4.2	.4	.45	<.05	1.8	7.15	5.0	<.02	1	<.1	14.7	<10	2	30
14725	.38	.1	.07	.16	4.9	2.7	.4	<.01	<.05	2.0	9.14	29.1	<.02	<1	.2	14.3	<10	<2	30
STANDARD DS3	5.25	.1	.22	1.43	14.0	2.8	6.8	.02	<.05	3.4	8.34	33.3	2.18	2	2.5	16.0	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 2 2001 DATE REPORT MAILED: Aug 16/01 SIGNED BY: C. Leong ..D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT EAST OOTSA File # A001924 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
61944	19.05	1588.50	9.47	55.5	1854	17.4	4.7	341	.89	3.1	77.6	11.8	.6	171.1	1.60	1.59	.14	19	3.07	.096	56.1	9.5	.24	173.0	.023	4	.84	.010	.03	<.2	.22	171	6.9	.04	1.8
61945	9.05	971.83	5.65	46.1	475	12.4	5.6	533	1.41	2.6	13.3	3.9	.5	109.2	.62	.81	.07	29	2.43	.094	18.9	9.6	.29	171.9	.044	2	.83	.011	.04	.8	.07	95	3.4	.03	2.6
RE 61945	9.36	962.82	6.04	45.6	465	11.7	5.4	528	1.41	2.5	13.2	4.1	.5	103.7	.61	.80	.07	30	2.40	.094	18.7	9.6	.29	171.3	.044	3	.84	.011	.04	.8	.08	102	3.3	.03	2.6

GROUP 1F30 - 30.00 GM SAMPLE, 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: -140 SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 20 2000 DATE REPORT MAILED: July 5/00 SIGNED BY. C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

⊛ Check amounts of Bi—

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Data 1 FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT EAST OOTSA File # A001924 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Sample gm
61944	2.87	<.1	.06	.86	5.2	2.7	.8	.47	<.05	4.1	65.26	9.9	<.02	70	.9	6.9	15
61945	3.10	<.1	.04	.99	7.6	2.2	.3	.19	<.05	2.4	27.73	10.6	<.02	19	.5	9.1	30
RE 61945	3.19	<.1	.04	1.11	7.5	2.3	.4	.16	<.05	2.3	27.27	11.2	<.02	22	.5	9.2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: -140 SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 20 2000 DATE REPORT MAILED: July 5/00 SIGNED BY. C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data FA

D. TECHNICAL REPORT

BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, page 6.**

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the *Freedom of Information Act*.

Name RALPH R. KEEFE Reference Number P11

LOCATION/COMMODITIES

Project Area (as listed in Part A) "HELEN PROJECT" MINFILE No. if applicable #189

Location of Project Area NTS 103 I 9/W Lat 54° 36' Long 128° 26'

Description of Location and Access 32KM E. of TERRACE - Hwy 16 thence across SCI Logging bridge, thence 6KM bush road to general locality.

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

GEORGE CHINN - TERRACE - prospector several years

ANSGAR LENSER - " - retired FS employee

Main Commodities Searched For Intruded Sed. (SKARN) ? student prospector

Known Mineral Occurrences in Project Area Cu, Zn, Ag + Au

WORK PERFORMED

1. Conventional Prospecting (area) Total of 19 days (Prospecting,
2. Geological Mapping (hectares/scale) MAPPING, Rock SAMPLING & SILTING of
3. Geochemical (type and no. of samples) CREEKS of all new roads + log bilks in + around vicinity
4. Geophysical (type and line km) NIL
5. Physical Work (type and amount) Nil
6. Drilling (no. holes, size, depth in m, total m) "
7. Other (specify) "

FEEDBACK: comments and suggestions for Prospector Assistance Program

Further prospecting is warranted as road & logging development continues

See prospecting results

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- **Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.**

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act.*

Name RALPH R. KEEFE Reference Number P11

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

32 KM E. of TERRACE – Hwy 16 thence across Skeena Cellulose Bridge, thence on to general area by bush roads (6Km).

2. PROGRAM OBJECTIVE [Include original exploration target.]

As per proposal. Geological mapping, rock sampling and silting of creeks in and around adjacent areas of marble showings.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

NB (A) Could not locate or duplicate M. of Mines reports of 1931 + 1932. I believe I was in the right area, as shown by marble.

(B) Interesting to note, that there are (2) seperate conflicting reports on the same location of marble #189

Example - M. of Mines report 1931-32

- Memoirs of KINDLE

- copies of both attached. Only variance noted is approx 100' in elevation of the two

- FURTHER PROSPECTING OF THE NEXT MAIN TRIBUTARY EASTWARD (NORTH) running into SANDS CREEK should be followed up another season.

N.T.S: 103 I/9W

Deposit No: 138

U.T.M: _____ METALS: (Au, Ag)?

Lat - Long. : 54°44' 128°22' PROPERTY: _____

References: GSC Map 36 - 17 # 85

Helen

Helen. This group, discovered during the year by G. Alger and associates, of Usk, is situated on Sand creek, which flows into the Skeena river from the west a short distance north of Pitman flag-station. An extensive copper-zinc mineralization is reported, but available time did not permit of examination by the Resident Engineer. A sample of the mineral discovered assayed: Gold, 0.06 oz. per ton; silver, 4 oz. per ton; copper, 5 per cent.; zinc, 18 per cent.

Bermaline.—This group, owned by August Johnson and associates, of Ritchie, is situated at the headwaters of the North fork of Lorne creek and is distant from Ritchie flag-station about 16 miles by trail. For description refer to Bulletin No. 1, 1932.

1932-P-84

Helen. This group was discovered in the fall of 1931 by the owners, G. Alger and associates, of Usk. It is situated on the North fork of Sand creek, which flows into the Skeena river from the west about 1 mile north of Pitman flag-station on the Canadian National Railway. A foot-trail about 3½ miles in length leads from the railway-bridge across Sand creek to the showings.

The country-rock in the region of the showings consists of sedimentaries of the Hazelton series, mainly carbonaceous argillites and quartzites, intruded by granodiorite stocks. This belt of sedimentaries is quite possibly continuous with that which underlies the country for some miles north of Pacific, and extends eastwards across the Skeena river to Seven Sisters mountain.

Project 290

The North fork of Sand creek cuts through these rocks in the near vicinity of an intrusion of granodiorite, and a mineralization of pyrite, chalcopyrite, and zinc-blende follows the bedding-planes of the sedimentaries. The greatest observed width of good mineralization at the chief point of exposure was 6 feet. It was noted that the mineralization appears to follow the carbonaceous argillites rather than the quartzites, and possibly the precipitation of sulphides may have been influenced by the carbon in the former; at any rate, this seems a point worth bearing in mind in development. The sedimentaries strike N. 80° W. (mag.) and dip at about 35° south-west. A sample across a width of 3 feet at one point assayed: Gold, trace; silver, 10.5 oz. per ton; copper, 3.5 per cent.; zinc, 4 per cent. The elevation of the exposures is about 2,470 feet. The mineralization on this property shows evidence of considerable strength.

N.T.S: 103 I/9W

Deposit No: 139

U.T.M: _____ METALS: Cu, Ag, Au, Pb

Lat - Long. : 54°36' 128°26' PROPERTY: _____

References: MMAR 1929, p 151

Triune

MMAR 1914, p 141

Poor Boy gp; (Triune, Ella, Gold Standard

SUMMARY - Au = trace to 0.06 oz/ton (.03)

Ag = 4oz to 10.5 oz/ton. (7¼)

Cu = 3% to 5%/ton (4%)

Zn = 4% to 18%/ton. (11%)

Project 290

Geological Survey
Memoir 212
 Kindle

dyke of andesine diorite porphyry exposed 12 feet west of the portal, but the dyke does not come in contact with the vein. A typical 9-inch channel sample of vein quartz, well mineralized with pyrite and chalcopyrite, taken in the adit near the portal, assayed: gold, 0·70 ounce a ton; silver, 14·40 ounces a ton; platinum, none; copper, 3·76 per cent.

Several hundred feet upstream from the vein just described there is a series of small, parallel quartz veins in the andesite on the south side of the creek. The veins mostly range from 1 to 12 inches in width, with lengths seldom exceeding 50 feet. They strike a little north of east with a vertical dip and may be followed along the shore for 400 or 500 feet to where they cross to the north side at the bend in the stream. The quartz carries up to 10 per cent of chalcopyrite present in irregular masses. The andesite in the vicinity of the quartz veinlets is cut by occasional narrow dykes of quartz diorite porphyry which strike north and dip 65 degrees west. The quartz veins do not traverse these dykes. Two channel samples taken across a combined vein width of 19 inches at a place 100 feet west of the bend in the creek, or about 50 feet west of one of the quartz diorite porphyry dykes, gave on assay: gold, 0·30 ounce a ton; silver, 2·50 ounces a ton; copper, 3·08 per cent. The combined quartz samples contained about 10 per cent chalcopyrite by volume.

One hundred feet to the south an adit has been driven 30 feet through andesitic lavas to a sheared zone of chloritic schist containing quartz stringers. The shear zone strikes south 60 degrees east and dips 65 degrees south. A 24-inch channel sample taken across the shear zone in a nearby open-cut assayed: gold, 0·02 ounce a ton; silver, 1·58 ounces a ton; copper, 0·32 per cent.

At an elevation of 1,400 feet, or 750 feet above the adit just mentioned, some surface work has been done on an 8-inch pyritized quartz vein in andesite. A channel sample across the vein gave on assay only a trace of gold and 0·08 ounce a ton of silver. About 800 feet farther east, at an elevation of 1,000 feet, a trench has been blasted on a grey, fine-grained, andesitic rock containing a fine dissemination of chalcopyrite veinlets.

The occurrence of a milling grade of gold-quartz ore in the veins along the creek marks this property as one of sufficient merit to warrant further development and exploration.

Helen Group (30)

References: Ann. Repts., Minister of Mines, B.C.: 1931, p. 71; 1932, p. 84.

The Helen group, staked by George Alger of Usk in 1931, is about 3 miles northwest of Pitman station on the north side of Sand creek. A foot trail follows the south side of Sand creek for about 2 miles, then crosses and leads by a series of switchbacks to the workings.

A thick flow of fine-grained black basalt outcrops on the west side of a small mountain stream at elevation 2,600 feet, and on the east side are numerous outcrops of grey andesite. Along the bed of the stream a shear zone occurs near the contact between the two flows. The shear zone is conspicuously marked by a 2-foot dyke of fine-grained, altered quartz diorite that follows along it. Dyke and shear zone strike a little west of north and dip 35 degrees west. On the foot-wall side of the dyke the basalt

is sheared and altered
of quartz stringers c
sphalerite. There is
along the upper side
The quartz diorit
associated carbonate a
zone in a distance of
light grey, porphyriti
stream near the upp
Three channel sa
showed very low assa
At elevation 2,65
exposes a brecciated
carrying a little pyri
assay for both gold a

References: Ann. Repts
p. 105; 1924, p.

The Fiddler grou
of Fiddler creek, abou
quartz vein containin
to this property as
bonded the property
the vein. In 1916 th
drove a prospect adit
the dip of the vein,
adit has since comp
property and continu
80 tons of ore were
taken during the sac
a ton; silver, 6 ounce
5·8 per cent. Furth
of 1925 and 1926. I
tons of ore to the sme
as having returned:
6·1 per cent; zinc, 3
ten years. Mr. Patr
The claims are u
laminated argillites,
site, which strike n
northeast. They are
and by small, grey,
occur in the argillite
tance below a massi
dyke of the pink qua
than the intrusive.

is sheared and altered over a width of 4 feet, and is traversed by a network of quartz stringers carrying small amounts of pyrite, chalcopyrite, and sphalerite. There is a similar alteration and mineralization of the basalt along the upper side of the dyke over a width of 2 feet.

The quartz diorite dyke contains a sparse impregnation of pyrite with associated carbonate alteration. Five test pits have been sunk on the shear zone in a distance of about 300 feet along the creek bed. A large mass of light grey, porphyritic quartz diorite outcrops on the west side of the stream near the upper end of the shear zone.

Three channel samples taken across the sheared zone by the writer showed very low assays for copper, silver, and zinc, and no gold.

At elevation 2,650 feet a cut about 100 feet northeast of the creek exposes a brecciated zone in andesite with ramifying quartz veinlets carrying a little pyrite. A 3-foot chip sample across it gave a negative assay for both gold and silver.

Fiddler Group (31)

(*See* Figure 7)

References: Ann. Repts., Minister of Mines, B.C.: 1914, p. 139; 1916, p. 101; 1923, p. 105; 1924, p. 93; 1925, p. 131; 1926, p. 125.

The Fiddler group is on Knauss creek, a short, north-flowing tributary of Fiddler creek, about 4 miles west by wagon road from Dorreen station. A quartz vein containing gold, silver, lead, zinc, and copper attracted attention to this property as early as 1914, when Martin Welsh of Spokane first bonded the property from L. C. Knauss and drove an adit 140 feet along the vein. In 1916 the Fiddler Creek Gold Mining Company of Edmonton drove a prospect adit 183 feet through gravel at a point 450 feet lower along the dip of the vein, but work stopped soon after striking bedrock. This adit has since completely caved in. In 1923 J. F. Duthie acquired the property and continued the main adit along the vein. The following year 80 tons of ore were taken out to the railway. An average of all samples taken during the sacking of the ore is said to have given: gold, 1·67 ounces a ton; silver, 6 ounces a ton; lead, 6·2 per cent; copper, 1·3 per cent; zinc, 5·8 per cent. Further development work was done during the summers of 1925 and 1926. In 1926 J. W. Treadway with three men shipped 100 tons of ore to the smelter. The first carload (35 tons dry weight) is recorded as having returned: gold, 1·28 ounces a ton; silver, 5·3 ounces a ton; lead, 6·1 per cent; zinc, 3·8 per cent. The claims have lain idle during the past ten years. Mr. Patmore of Prince Rupert is the owner.

The claims are underlain by rocks of the Hazelton group, comprised of laminated argillites, bedded tuffs, and massive interbedded flows of andesite, which strike north 60 degrees west and dip from 20 to 30 degrees northeast. They are intruded by dykes of pink, porphyritic quartz diorite and by small, grey, feldspar porphyry dykes. The Fiddler vein or veins occur in the argillite along slip planes parallel to the bedding a short distance below a massive andesite bed. Although the vein abuts against a dyke of the pink quartz diorite at the portal of the No. 1 adit, it is younger than the intrusive. The dyke is about 100 feet wide, strikes approximately

HELEN PROJECT
SCALE
1:20000
NTS 103 I 9/W
LAT 54°36'
LONG 128°24'

N

SCALE 1 : 20,000

N

HELEN PROJECT
SCALE 1-20000
NTS 103I9/W
LAT 54°36'
LONG 128°26'

6064000
6063000
6062000
54°42'00"
128°24'00"
539000
540000
541000
542000
543000
544000
545000

SUPPLY BLOCK
SUPPLY BLOCK B
SKEENA
Creek
Hardscrabble Creek
Firman Sta.)
32KM From TERRACE
SEE MAP 103I C
BC 80032
29
R. 65
31
61
192319
192347
192334
192052
192335
192348
192349
192329
192328 INT
192346
192345
3076
6637
681
L 5503
L 5181
L 5470
RES.

HELEN PROJECT
SCALE 1:20000
NTS 103I 9/W
LAT 54°36'
LONG 128°26'

N

29
R. 65

Hardscrabble Creek

Sand Creek

BC 88032

BC 88032

Diorite

Diorite

BH 8517-16
A39-1178

141 BH 9315-9

143Es A-BH 9216

157Es A-HB 9214

159Esa A-BH 9214

169Esa A-BH 9214

158Es A-BH 9213

139 R

122 BH 1416-11

142Esa A-HB 9214

140 A-BH 9313

136Ea A-BH 9221

187 A

199 HB 9222-6

201Esa A-HB 9213

217Esa A-HB 9213

235Es A-HB 9215

237Esa A-HB 9223

240Esa A-HB 9223

256Esa A-HB 9223

258Esa A-HB 9223

261 A-HB 9222

271 HB 9315-8

273 HB 9316-8

241 HB 9214-6

407 A-HB 9315

275 HB 9316-10

124

183 A-HB 9215

197 HB 9214-7

185 HB 9214-7

184 HB 9316-8

186 HB 9315-11

198 HB 9316-11

202E2s/1 BH 9316-8

218Es HB 9315-9

220 HB 9417-12

234Es HB 9315-9

216Es

227Es HB 9416-13

200 HB 9316-11

213E2s HB 9415-12

212 HB 8316-9

195

196E2s

194E2s HB 9316-9

181 A-HB 9222

182 HB 9315-8

176Esa A-HB 9214

180 A-HB 9223

177Esa/1 A-HB 9315

192E2s HB(S) 9415-14

179Es HB 9317-9

175Ep2s HB 9316-9

176Esa H(B) 8213-8

189 HB 9515-16

205 HB(S) 9515-15

206E2s HB(S) 9515-15

208Es BH 9416-11

204 A-HB 9123

191

190Es

404 R

301 NSR-/22 GL96

302

303

14

421E2s

221 NPBr

242

223 BH 9515-18

210Es BH 9515-15

222 NPBr

226Es BH 9415-11

211 A-BH 9213

225 A-BH 9213

224Es BH 9315-9

243 A-HB 9214

244 A-BH 9213

245

248 A-HB 9313

249 A

264 A-HB 9214

277

219 NSR-/12 GL94

1-22889

232 BH 9515-16

228 HB 9514-18

246 BH 9416-11

215

214

209

203

229

233 NPBr

230 NPBr

231Es

247Es/1

250Es HB(S) 9516-15

262Es HB 9316-9

263 A-HB 9222

265Es/1

266Es/1

1244

2450

236 HB 9417-14

251

238Esa A-HB 9223

239Es HB 9316-9

298

299/S

33/S

252 HB(S) 9416-14

253Es

254

267 R

268Es HBC 9214-7

269E2s

270 NPBr

279Es HB 9415-14

290E2s NSR-/12 GL93

291E2s

288E2s

276 A-HB 9213

278Es A-HB 9214

280 R

281Es HB 9316-9

289Es HB 9315-10

255Esa A-HB 9223

257 HB 9316-8

260 HBC(CS) 9415-13

272

274 HB 9316-10

300 NSR-/10 GL97

124 NSR-/22 GL98

286 HB 9416-12

284 H(B) 8316-11

406

283

295

282 R

296

287

285 HB(SC) 9515-18

293Es HB 9315-11

405 HB 9416-12

292E2s

294Es HB 9315-11

259

XG 191(63)

XG 192(63)

XG 193(63)

XG 194(63)

XG 190(63)

7-1(63)

7-2(63)

7-3(63)

7-5(63)

7-6(63)

7-8(63)

7-9(63)

7-11(63)

28(63)

33

120

122

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT HELEN File # A103262 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
192308	1.86	24.88	14.35	206.5	133	16.2	13.1	2026	3.54	29.6	.4	20.4	.5	32.4	1.00	.80	.15	48	.64	.091	7.9	13.0	.63	117.5	.041	1	1.68	.008	.09	<.2	.00	54	.6	.04	6.1
192309	2.83	31.06	19.04	160.0	158	17.5	13.3	1876	4.02	36.0	.9	3.7	1.2	39.5	.77	.90	.24	59	.59	.101	9.3	13.4	.74	143.8	.057	1	1.69	.023	.13	.5	14	41	1.0	.08	6.7
192312	5.11	19.54	6.66	93.8	159	22.9	19.0	4264	2.59	5.8	1.6	20.2	.2	68.3	.55	.45	.13	41	1.11	.153	7.4	26.3	.64	251.6	.031	1	2.48	.013	.09	2.0	.13	82	1.0	.06	6.4
192314	9.00	28.99	15.33	409.3	242	15.8	22.4	7146	5.28	25.7	.5	18.0	.3	66.2	3.38	.53	.92	47	1.24	.175	10.5	14.2	.36	296.0	.012	2	1.95	.011	.11	2.8	.17	176	2.0	.30	5.6
192315	3.63	37.04	13.23	131.7	171	17.7	13.0	1865	3.79	30.0	.6	25.3	.8	41.8	.88	1.11	.51	49	.53	.096	10.4	12.8	.58	147.5	.023	<1	1.74	.015	.09	.5	.11	64	.9	.13	6.5
STD S3	1.52	29.64	7.65	45.1	47	11.3	11.2	470	3.26	3.0	.4	1.2	1.9	44.8	.07	.10	.13	122	.54	.038	8.5	30.5	.46	66.8	.311	1	3.06	.110	.04	.2	.10	28	.3	.03	8.9
192317	7.47	33.60	17.90	250.2	214	21.8	14.4	2645	3.51	25.4	1.1	11.4	.4	50.7	2.24	.83	.46	48	.77	.126	9.8	14.4	.50	180.7	.015	1	1.79	.007	.08	1.1	.11	103	2.4	.12	5.7
192318	16.54	33.18	10.97	862.2	242	16.1	24.0	10192	3.31	9.6	.8	4.5	.1	97.8	7.98	.32	.47	31	1.69	.185	7.6	9.7	.21	390.0	.011	2	1.98	.004	.06	.8	.14	240	4.6	.12	4.7
192320	1.39	32.43	13.57	119.3	111	25.6	16.3	1478	4.13	38.2	.2	13.9	1.0	42.0	.70	1.85	.14	52	.61	.089	7.9	18.1	.78	119.6	.041	1	1.63	.019	.08	.4	.04	27	.6	.03	6.2
RE 192320	1.42	32.24	14.31	119.5	113	25.9	16.3	1484	4.15	38.8	.3	4.7	1.0	42.5	.66	1.81	.15	51	.62	.093	8.5	18.2	.79	119.4	.040	1	1.64	.006	.08	.3	.05	38	.5	.03	6.1
192322	2.80	32.50	19.90	311.6	104	21.4	14.0	3169	3.65	48.0	3	9.1	.4	37.4	2.21	1.17	.34	61	.65	.094	7.5	13.8	.60	177.1	.042	1	2.19	.013	.08	<.2	.12	126	1.4	.07	6.7
192323	2.66	33.24	21.96	246.3	153	20.9	17.1	1935	3.80	42.6	.4	8.8	.7	29.0	1.19	1.32	.19	50	.46	.086	9.4	14.7	.60	129.2	.046	1	1.97	.006	.09	<.2	.11	67	.9	.07	5.7
192324	3.62	42.49	31.53	240.5	280	23.7	15.7	2189	4.68	74.0	1.3	9.0	1.1	54.7	1.44	1.38	.28	67	.69	.108	11.3	12.2	.76	132.5	.051	1	1.96	.019	.14	.3	.18	47	1.6	.10	7.9
192325	3.43	20.68	18.76	615.2	244	11.9	20.7	2863	2.77	22.0	.6	34.7	<.1	47.7	3.97	.67	.22	45	1.02	.158	10.3	11.6	.32	151.2	.012	1	1.90	.009	.05	<.2	.13	165	2.6	.04	5.9
192326	5.73	58.89	20.32	199.9	312	19.3	15.0	2282	4.25	50.0	1.1	9.7	1.0	52.8	1.71	1.23	.61	53	.67	.118	14.2	10.0	.57	157.0	.017	1	1.93	.011	.11	.4	.20	69	1.9	.19	6.8
192327	6.77	60.72	23.46	365.3	307	28.1	16.6	2856	4.03	36.1	1.3	22.2	.6	60.4	3.29	1.12	.54	48	.88	.131	10.8	13.7	.49	208.2	.015	1	1.85	.002	.09	1.2	.13	101	3.9	.13	5.3
STANDARD DS3	9.47	122.73	35.85	164.9	263	35.1	12.5	844	3.21	30.7	5.9	20.2	4.2	30.0	5.56	4.99	5.46	84	.59	.094	17.2	193.4	.61	159.7	.103	2	1.72	.027	.20	3.7	1.06	239	1.3	1.04	6.6

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 DATE REPORT MAILED: Oct 4/01 SIGNED BY: ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only. Date ___/FA

FAX NO. 6042531716 OCT-04-2001 THU 11:49 AM ACME ANALYTICAL LAB

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT HELEN File # A103262 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
192308	1.39	.1	<.02	.54	5.1	3.1	.4	.06	<.05	.3	8.41	17.5	.04	<1	.4	16.2	<10	<2	30
192309	2.15	.1	<.02	.38	6.5	4.8	.7	.07	<.05	.5	9.85	19.7	.05	1	.6	18.4	<10	<2	30
192312	2.44	<.1	<.02	.74	6.2	2.3	.5	.04	<.05	.4	9.10	15.2	.02	1	.8	17.4	<10	<2	30
192314	3.24	.1	<.02	.64	8.7	2.5	.6	.12	<.05	.2	9.61	24.3	.06	4	.8	10.0	11	<2	15
192315	2.23	.1	<.02	.46	6.0	3.8	.5	.04	<.05	.3	9.82	21.6	.05	2	.5	16.6	<10	<2	30
.STD S3	.77	.1	.57	.40	2.4	6.2	1.0	<.01	<.05	37.3	11.43	20.7	.05	2	.5	7.6	<10	<2	30
192317	1.98	.1	<.02	.54	6.6	2.7	.5	.08	<.05	.6	8.59	21.6	.05	6	.8	15.8	<10	<2	30
192318	1.43	.1	<.02	.89	4.9	1.2	.4	.24	<.05	.4	9.42	21.4	.06	15	.7	8.4	10	<2	30
192320	1.32	.1	.03	.26	3.9	4.4	.3	.04	<.05	.9	7.58	16.8	.05	<1	.3	16.3	<10	<2	30
RE 192320	1.40	.1	.03	.28	4.0	4.5	.4	.04	<.05	.9	7.52	17.8	.04	<1	.2	16.7	<10	<2	30
192322	1.44	.1	<.02	.81	5.9	3.3	.4	.05	<.05	.3	8.23	17.5	.08	2	.8	15.5	<10	<2	30
192323	1.50	.1	<.02	.59	5.5	3.7	.4	.03	<.05	.4	9.51	22.0	.04	1	.5	17.4	<10	<2	30
192324	2.35	.1	<.02	.40	7.2	5.6	.6	.08	<.05	.2	13.40	23.5	.07	7	.7	19.0	10	<2	30
192325	1.78	.1	<.02	.64	5.4	1.0	.4	.13	<.05	.2	10.32	21.2	.04	2	.7	12.5	<10	<2	30
192326	2.73	.1	<.02	.54	6.5	4.4	.5	.15	<.05	.3	14.22	30.1	.07	2	.7	15.6	<10	<2	30
192327	1.91	.1	<.02	.52	6.0	3.1	.5	.19	<.05	.4	11.15	23.2	.06	10	.7	14.5	<10	<2	30
STANDARD DS3	5.78	.1	.17	1.55	14.6	3.0	7.1	.02	<.05	3.0	8.25	31.3	2.14	<1	2.2	16.2	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RNE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 DATE REPORT MAILED: Oct 4/01 SIGNED BY: C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only. Data FA

P. 05
FAX NO. 6042531716
OCT-04-2001 THU 11:50 AM ACME ANALYTICAL LAB

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT HELEN File # A103261 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
SI	.55	8.54	.68	1.0	68	.5	.1	2	.04	.4	<.1	.2	<.1	3.6	.01	.29	<.02	<2	.15	<.001	<.5	6.1	.01	4.2	<.001	<1	.01	.502	.01	<.2	<.02	<5	<.1	<.02	<.1
192051	36.71	166.72	3.51	44.0	1460	23.4	46.8	447	5.60	2.4	1	1.6	.1	55.3	.10	1.08	3.24	56	.84	.087	.8	54.9	.53	12.2	.250	<1	.95	.044	.04	198.7	.02	<5	2.5	.32	4.5
192307	4.93	12.24	11.50	1.7	767	8.3	65.3	37	6.27	.7	.2	3.6	.2	6.3	.01	.13	2.99	<2	.03	.004	<.5	89.1	.01	10.4	.003	<1	.06	.000	.05	10.5	.02	<5	6.1	.56	.3
192310	.25	2.35	.70	164.8	36	84.6	31.4	849	5.32	2.6	<.1	.6	.1	48.3	.01	.22	.06	250	.67	.059	5	236.5	3.71	492.5	.347	<1	3.27	.087	2.84	.5	1.33	<5	<.1	<.02	8.0
192311	2.06	5.89	4.18	68.1	46	2.1	5.3	388	2.03	.9	.9	1.3	3.5	45.4	.05	.16	.07	55	.70	.065	6.4	42.4	.72	183.1	.136	<1	1.07	.001	.57	.9	.10	<5	<.1	<.02	6.6
192313	2.48	3.80	14.73	3.6	496	11.7	72.2	280	5.68	3.4	<.1	3.3	.1	126.8	.04	1.49	236.80	40	1.07	.023	.5	45.1	.03	33.9	.077	<1	.85	.013	.10	65.1	.04	<5	2.2	29.33	3.1
192316	1.77	4.13	2.42	40.0	23	2.4	4.5	402	1.91	.6	.8	.4	2.4	59.0	.06	.11	1.33	40	.45	.080	5.4	33.7	.54	143.8	.117	<1	.85	.074	.15	1.7	.03	<5	<.1	.19	5.2
192319	1.93	4.10	3.73	21.2	32	3.0	2.4	300	1.10	.7	.8	.4	5.2	21.1	.01	.16	.45	21	.39	.037	6.8	37.7	.25	134.4	.062	<1	.59	.058	.12	1.5	.02	<5	<.1	.04	3.1
192321	2.50	10.37	5.67	87.6	58	1.8	2.6	303	1.42	1.1	2.4	.5	5.1	36.9	.67	.09	.21	25	.62	.046	14.1	51.1	.34	91.7	.018	<1	.61	.053	.13	1.1	.02	<5	.1	.04	4.8
RE 192321	2.55	9.98	5.94	86.4	60	2.0	2.8	297	1.41	.7	2.3	<.2	5.1	37.0	.66	.08	.21	26	.61	.048	13.6	48.1	.33	91.1	.017	<1	.61	.053	.13	1.0	.02	<5	<.1	.05	4.9
192328	.91	6.31	.98	21.2	28	3.1	3.6	255	1.60	.5	.4	.2	3.6	33.6	.01	.11	.10	33	.33	.056	7.5	32.9	.44	82.7	.117	<1	.70	.004	.41	1.1	.10	<5	<.1	<.02	4.0
192329	1.19	5.77	1.15	183.8	38	8.7	21.1	1213	4.15	1.7	.3	.3	.7	10.7	.01	.06	.05	126	.33	.108	3.8	33.0	2.05	410.2	.326	<1	1.81	.066	1.67	.3	.16	<5	<.1	.02	10.5
192330	.57	28.72	2.16	119.9	87	19.7	22.0	1252	4.42	2.2	.2	.4	.3	25.5	.01	.18	.05	154	.68	.094	1.8	41.3	2.05	282.3	.283	<1	1.66	.051	.79	.6	.07	<5	<.1	<.02	7.4
192331	4.22	301.33	13.58	5.5	12772	7.2	46.7	45	6.64	5.7	.1	328.7	<.1	1.7	.09	1.62	69.57	<2	.01	.002	<.5	21.8	.02	12.5	.004	<1	.07	.003	.02	5.2	.08	<5	3.5	54.73	.6
192332	490.49	19.11	4.62	5.5	341	2.5	9.4	25	2.71	4.9	.6	12.3	2.9	4.0	<.01	.03	4.42	6	.03	.034	9.7	10.0	.03	75.1	.007	<1	.36	.028	.32	1.1	.09	<5	1.9	.65	1.6
192333	14.53	174.21	2.52	26.6	975	18.1	14.7	317	3.10	2.2	.2	7.1	.2	37.5	.15	.27	1.23	87	.94	.099	2.5	56.1	.53	17.4	.248	1	.90	.097	.07	73.3	.03	<5	.8	.16	3.2
192334	40.75	221.82	2.76	40.3	1351	22.3	35.1	426	4.90	2.0	.2	2.4	.1	50.1	.08	.35	1.81	58	.96	.096	.9	49.3	.50	10.0	.252	<1	.95	.050	.65	86.1	.02	<5	1.6	.18	4.0
192335	15.86	62.42	3.40	33.0	417	2.8	14.6	313	4.69	1.0	.6	1.3	2.4	37.9	.08	.11	27.76	54	.42	.123	7.6	23.3	.78	63.5	.147	<1	.93	.040	.12	212.7	.05	5	1.9	1.32	5.7
192336	1.34	16.96	1.96	50.3	38	6.1	5.2	480	1.93	.7	2.1	.9	4.2	28.3	.03	.07	26	46	.51	.084	5.5	47.7	.55	79.1	.120	1	.82	.065	.26	3.8	.12	<5	<.1	.02	5.0
192342	1.74	31.35	2.16	32.8	179	1.2	20.8	831	2.34	1.0	1.8	3.1	4.6	30.3	18	.02	7.41	9	.84	.037	4.6	34.3	.11	69.3	.001	<1	58	.017	.37	1.0	.06	<5	.2	.19	2.1
192343	6.27	1675.67	4.86	54.9	2657	20.3	17.7	1693	3.39	1.8	.4	1.1	2.2	236.1	.14	.07	13.08	37	4.00	.148	10.3	28.7	.57	126.4	.008	<1	1.41	.015	.34	.6	.10	<5	1.6	.21	4.9
192345	2.76	16.41	14.64	15.0	23	.9	.3	279	.23	.6	2.9	.3	18.1	7.1	.22	<.02	.12	<2	.19	.002	2.2	27.3	.01	15.7	.005	<1	.17	.031	.20	.8	.04	<5	<.1	<.02	.8
192346	155.38	186.84	12.06	8.4	802	5.3	4.7	88	3.12	1.8	.5	.7	4.2	2.0	<.01	.13	.21	12	.02	.001	.6	92.1	<.01	6.3	.002	<1	.11	.013	.11	12.6	.02	<5	1.4	.06	1.7
.STD S3	1.52	31.16	7.82	44.4	57	11.3	11.3	445	3.32	2.5	.4	1.4	2.1	45.2	.08	.07	.18	119	.62	.039	9.0	32.1	.45	66.9	.316	<1	3.38	.121	.04	.2	.10	27	.2	.02	9.0
192348	39.40	35.96	9.22	62.6	1037	1.6	6	468	1.13	.7	.2	.6	1.7	40.0	1.80	.05	19.95	12	.92	.011	9.6	19.8	.03	208.4	.005	<1	.16	.014	.18	20.5	.03	<5	.2	.09	.8
192349	20.62	66.12	49.20	116.5	5847	1.5	1.4	361	1.78	.6	.4	1.0	2.0	7.6	4.17	.07	243.82	21	.09	.018	12.9	10.9	.01	151.5	.001	<1	.23	.015	.26	40.5	.04	<5	1.0	.69	1.6
192350	5.18	162.61	4.04	55.7	862	6.3	9.4	495	2.54	.8	1.1	3.1	2.8	41.0	.15	.09	1.59	58	.52	.133	7.2	14.9	.84	135.0	.142	<1	1.15	.074	.56	1.6	.33	<5	.3	.28	6.7
STANDARD	9.69	122.00	35.25	154.0	292	37.4	11.7	786	3.10	30.0	5.9	21.1	4.0	26.8	5.88	4.57	5.74	78	.53	.095	15.9	183.3	.59	155.3	.083	1	1.70	.027	.16	3.8	.97	233	1.2	1.06	6.4

Standard is STANDARD DS5.

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 DATE REPORT MAILED: Oct 4/01 SIGNED BY: C. Leong

D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

P. 02 FAX NO. 6042531716 007-04-2001 THU 11:46 AM ACME ANALYTICAL LAB

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT HELEN File # A103261 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
SI	<.02	<.1	<.02	<.02	.1	<.1	<.1	.02	<.05	.6	.04	.1	<.02	<1	<.1	.1	<10	<2	30
192051	.23	.8	.23	.47	3.1	2.0	1.1	2.98	<.05	4.5	3.91	2.1	.07	2	.2	4.2	<10	2	30
192307	.13	.1	<.02	.06	2.9	.1	.1	6.33	<.05	.6	.33	1.0	<.02	1	.1	.5	<10	<2	30
192310	37.93	.2	.04	.02	146.4	6.3	.2	.05	<.05	.7	5.72	1.3	<.02	1	.1	51.4	<10	<2	30
192311	1.62	.1	.15	.11	26.4	2.2	.7	.02	<.05	5.3	3.14	11.4	.02	<1	.2	16.3	<10	<2	30
192313	.32	.1	.05	.10	4.0	2.0	.6	5.25	<.05	1.3	3.44	1.0	.08	1	.1	.5	<10	2	30
192316	.30	.1	.25	.39	5.4	1.3	.5	.04	<.05	5.8	3.40	10.2	<.02	<1	.1	9.6	<10	<2	30
192319	.97	.1	.24	.25	4.4	1.0	.5	.03	<.05	6.5	3.78	12.5	<.02	1	.3	6.9	<10	<2	30
192321	.65	.1	.42	.05	3.0	.9	.3	.25	<.05	9.6	6.45	25.4	.03	1	.1	9.9	<10	<2	30
RE 192321	.62	.1	.45	.06	2.9	.9	.2	.27	<.05	9.9	6.50	24.0	.03	1	.2	9.4	<10	<2	30
192328	.58	.1	.14	.19	23.2	.9	.5	<.01	<.05	4.4	4.33	14.6	<.02	<1	.1	15.1	<10	<2	30
192329	1.80	.2	.09	.02	30.3	12.5	.7	<.01	<.05	2.3	10.59	7.3	.03	<1	.1	25.5	<10	<2	30
192330	1.16	.2	.12	.02	13.1	5.1	.3	.02	<.05	2.5	6.00	3.7	<.02	1	.1	19.8	<10	<2	30
192331	.05	<.1	.02	.06	.9	.1	.1	7.25	<.05	.8	.12	.3	<.02	<1	<.1	.7	<10	<2	30
192332	.23	.1	.04	<.02	12.8	.4	.3	2.51	<.05	1.3	1.19	16.7	<.02	14	.1	1.3	<10	<2	30
192333	.34	.3	.27	.27	4.7	4.1	.7	1.03	<.05	5.3	6.94	6.1	.03	1	.3	3.9	<10	<2	30
192334	.21	.5	.18	.39	3.9	2.5	1.0	2.64	<.05	4.0	4.74	2.4	.04	1	.2	3.7	<10	<2	30
192335	.42	.2	.16	1.11	8.4	1.3	.9	2.81	<.05	3.7	6.13	14.3	.04	1	.3	7.5	<10	<2	30
192336	1.34	.1	.07	.27	18.1	1.7	.4	.02	<.05	1.1	3.36	9.9	<.02	<1	.1	13.8	<10	<2	30
192342	.33	<.1	.19	<.02	12.5	.4	.3	1.62	<.05	4.8	3.78	8.2	.31	<1	.3	2.3	<10	<2	30
192343	.56	.1	.02	<.02	12.2	1.9	.2	1.56	<.05	1.3	15.04	18.9	.25	8	.3	11.7	<10	<2	30
192345	.07	<.1	.11	.08	7.5	.2	.2	.02	<.05	1.8	1.68	3.4	<.02	<1	.1	.4	<10	<2	30
192346	.09	.1	.06	.20	4.4	.1	.4	.67	<.05	1.4	.42	1.1	<.02	1	.1	.2	<10	<2	30
192347	1.67	.2	.19	.50	10.8	2.0	.7	6.68	<.05	4.5	3.73	5.3	.07	1	.3	4.2	<10	<2	30
.STD S3	.79	.1	.63	.53	2.6	6.4	1.0	.03	<.05	36.6	12.08	21.9	.05	1	.7	8.8	<10	<2	30
192348	.24	.1	.03	.02	6.0	1.2	.3	.64	<.05	1.8	6.71	18.2	.05	<1	.3	.4	<10	<2	30
192349	.36	<.1	.06	.03	8.6	1.4	.5	.94	<.05	2.2	7.58	23.2	.12	<1	.3	.5	<10	<2	30
192350	5.38	.1	.17	.25	34.1	3.0	.6	.75	<.05	4.3	5.97	12.3	<.02	3	.1	10.5	<10	<2	30
STANDARD DS3	5.60	.1	.19	1.60	13.2	2.9	6.5	.03	<.05	3.2	8.38	29.0	2.15	2	2.1	15.8	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 DATE REPORT MAILED: Oct 4/01 SIGNED BY: .....D. TOYE, C.LEUNG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data FA

OCT-04-2001 THU 11:47 AM ACME ANALYTICAL LAB FAX NO. 6042531716 P. 03

D. TECHNICAL REPORT

BRITISH COLUMBIA
Ministry of Energy and Mines
Energy and Minerals Division

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, page 6.**

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the *Freedom of Information Act.*

Name RALPH R. KEEFE Reference Number 2001/2002 P11

LOCATION/COMMODITIES

Project Area (as listed in Part A) O.G.D.P. PROJECT MINFILE No. if applicable _____

Location of Project Area NTS 93E,K,L,+M +103I Lat _____ Long _____

Description of Location and Access HIGHWAY 16, 35, 37 plus main logging haul roads + bush roads

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)
GEORGE CHINN — PROSPECTOR (QUIDE) several years

Main Commodities Searched For VMS

Known Mineral Occurrences in Project Area Visible sulphides in quartz schist

WORK PERFORMED ALL AREAS (5)

1. Conventional Prospecting (area) GENERAL PROSPECTING + ROCK SAMPLING
2. Geological Mapping (hectares/scale) GEOLOGICAL MAPPING ALL C/CREEKS
3. Geochemical (type and no. of samples) ALL CREEKS IN IMMEDIATE AREAS
4. Geophysical (type and line km) NIL
5. Physical Work (type and amount) "
6. Drilling (no. holes, size, depth in m, total m) 4
7. Other (specify) "

FEEDBACK: comments and suggestions for Prospector Assistance Program

— NONE —

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- **Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.**

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act.*

Name RALPH R. KEEFE Reference Number 2001/2002

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

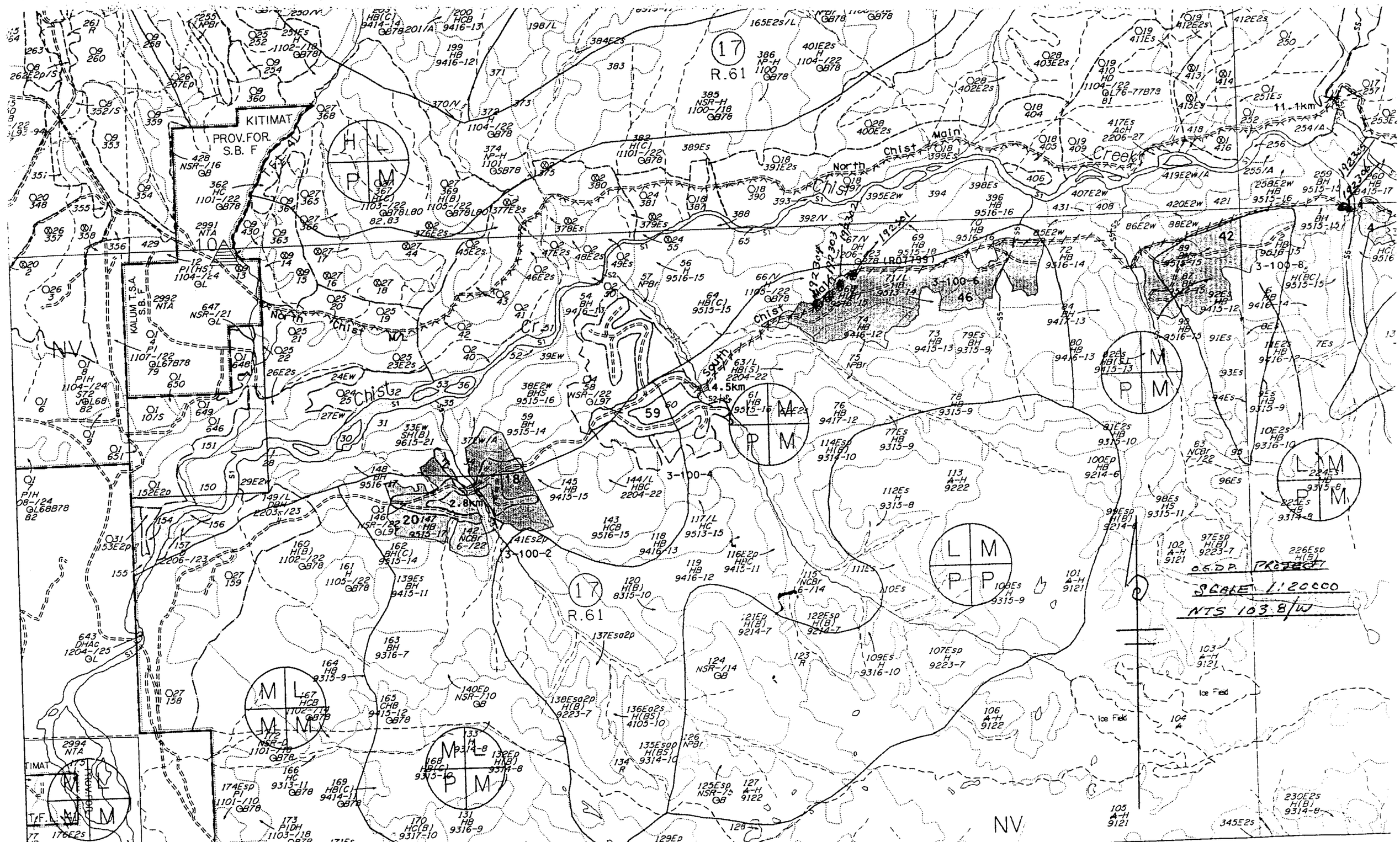
ALL PROSPECTED AREAS ARE MAP IDENTIFIED (NTS, + scale)

2. PROGRAM OBJECTIVE [Include original exploration target.]

ASS PER ORIGINAL PROPOSAL – Identify + classify any signs or showings of sulphides.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

No sulphides of commercial value observed.
THIS PROJECT WAS DESIGNED TO FOLLOW UP PRIMARILY ON NEW ROAD + LOG BLK CONSTRUCTION THROUGH OUT THE AREA WITH SPECIAL ATT TO KNOWN OR PREVIOUS AREAS OF MINERALIZATION (REF TO – MINFILE, ASS REPORTS + RGS DATA). plus GENERAL GEOLOGY
BE39 BE4 mineral claims held by F. LUDIK have potential for economic porphyry. Access + limited tonnage (?) potential somewhat restrict development at moment.


KITIMAT
PROV.FOR.
S.B. F
KALUM T.S.A.
S.B. F
North Chist
South Chist
Main
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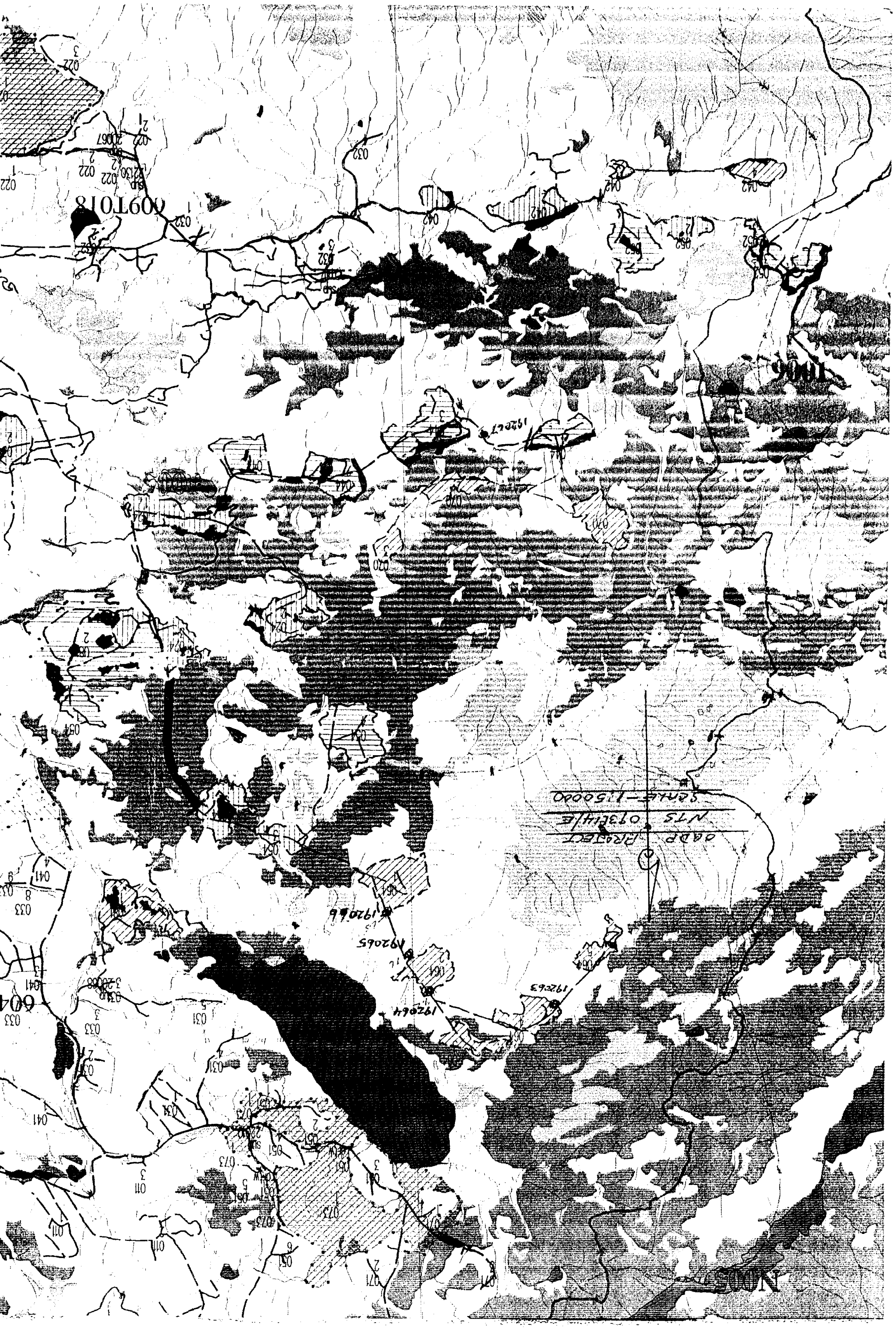
2.8km
3-100-6
3-100-4
3-100-2
R.61
R.61
Ice Field
Ice Field
O.E.D.P. PROJECT
SCALE 1:20000
NTS 103 B/W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1920b3

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O.G.D.P PROJECT
NTS – 093K5/E
SCALE 1:50000

N

192055
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Burns Lake

N.G.P. PIPELINE

KEGER LAKE

FLUG LAKE

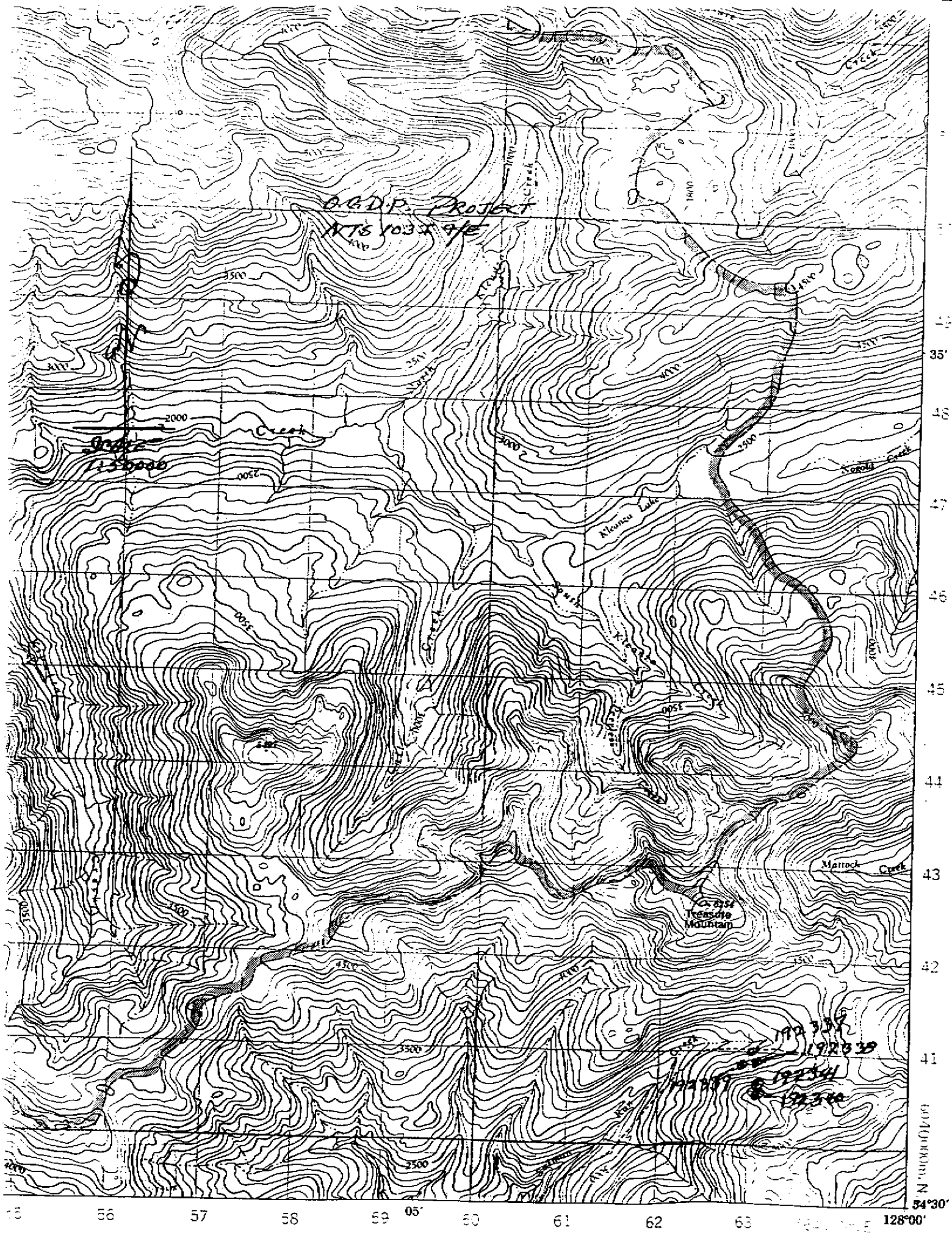
STRONG CR

HWY 16

CNR

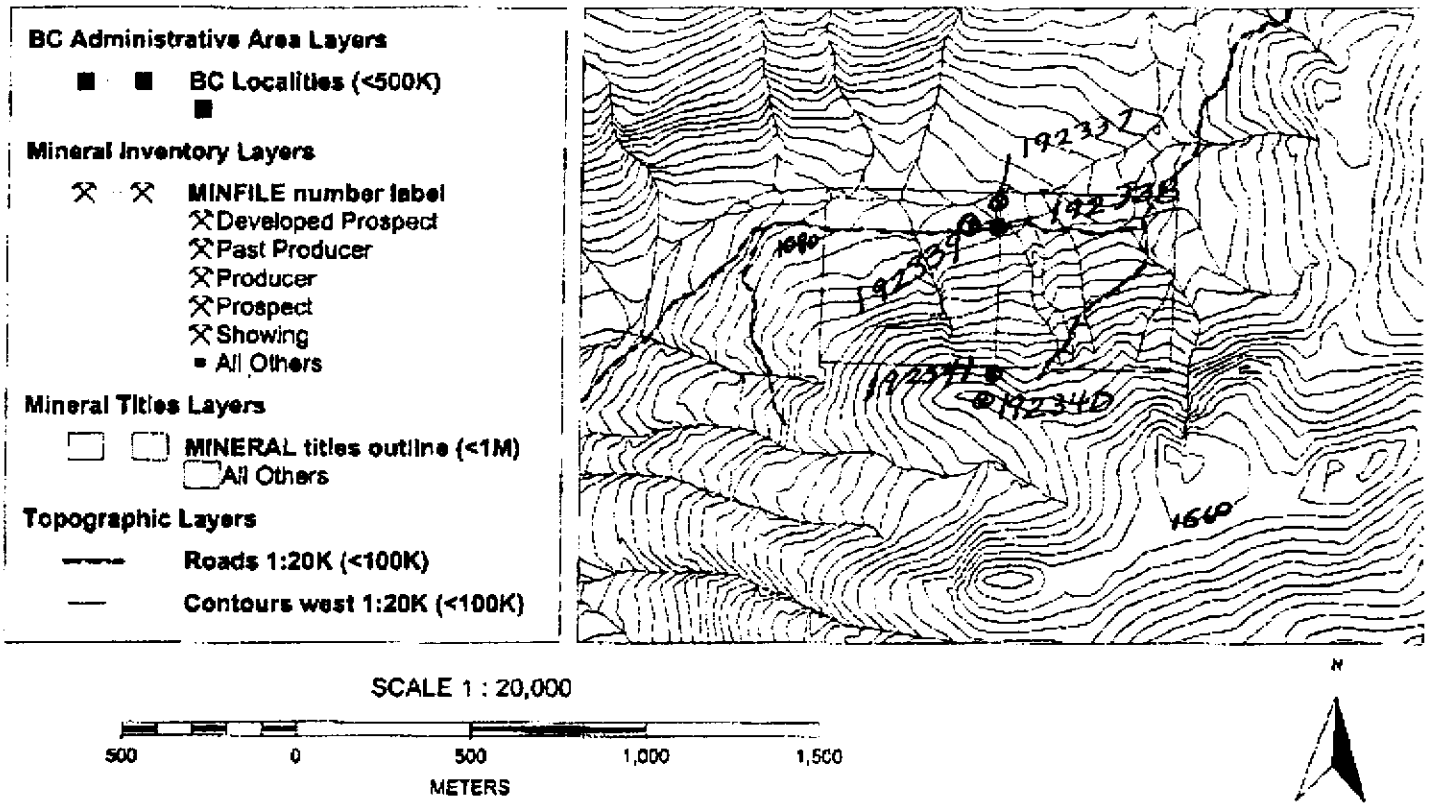
ANGEL MTN

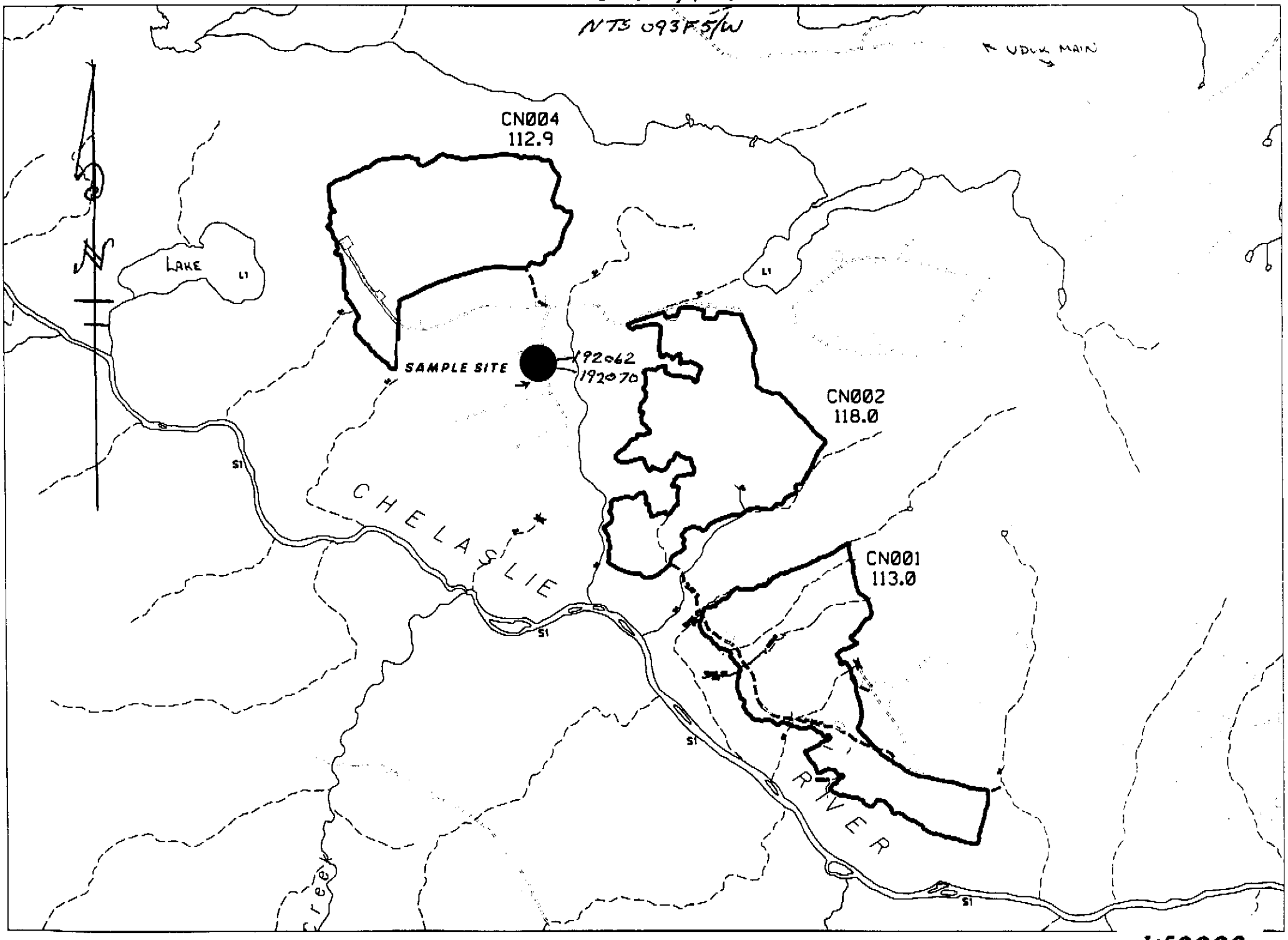
192cfB
192cfA
192cfC
192cfD


B.A.D.P. PROJECT
AKTS 103 & 9/E
Scale
1:50000
Creek
Klastine Lake
Treasure Mountain
Marrock Creek
35'
54°30'
128°00'
05'

Mineral Titles Map

O.G.D.P. Project
BF3 + BF4 M.C's - Fred Ludik
William McRae
NTS 103 I 4/E




O.G.D.P. PROJECT
NTS 093F5/W
CN004
112.9
SAMPLE SITE
192062
192070
CN002
118.0
CN001
113.0
LAKE
L1
S1
CHELASLIE
RIVER
1:50000

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103946 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
G-1	1.56	2.46	2.92	38.8	13	4.7	4.0	526	1.80	.9	1.7	.5	4.6	93.8	.03	.04	.10	39	.55	.090	6.8	13.9	.52	225.7	.133	1	.99	1.36	.51	1.3	27	<5	.1	<.02	5.1
1970n3	2.06	20.70	8.58	78.6	264	8.2	14.2	4815	3.48	9.3	5.0	6.0	.4	90.8	.90	.40	.16	42	.98	.123	16.0	14.2	.30	397.0	.020	3	1.86	.010	.13	<.2	11	120	.5	.04	3.2
192064	.69	20.53	9.88	61.0	174	9.8	7.6	799	2.14	7.3	.6	13.3	.4	39.8	.32	.46	.18	47	.46	.074	10.4	16.5	.39	193.2	.021	2	1.46	.016	.06	<.2	.07	40	.2	.06	4.1
STD S3	1.55	32.56	8.40	43.7	52	12.3	11.2	468	3.41	3.2	.4	1.0	1.9	47.2	.06	.12	.14	125	.51	.040	9.3	35.2	.46	65.1	.348	1	3.60	.124	.05	.2	.17	24	.3	.03	9.5
192066	.68	16.72	7.51	54.3	134	9.7	7.0	914	2.02	5.4	.5	6.8	.4	39.5	.28	.35	.13	45	.51	.072	8.9	15.5	.41	156.1	.030	1	1.26	.011	.06	<.2	.06	44	.2	.04	3.7
192068	3.33	31.16	9.13	67.4	268	19.5	11.6	3797	3.63	14.2	1.3	14.9	1.0	62.5	.40	.36	.18	45	.85	.092	16.8	37.5	.36	360.8	.018	1	1.42	.009	.04	<.2	.08	126	.4	.04	4.7
RE 192065	.83	16.59	6.53	36.0	66	10.0	6.6	424	2.32	8.6	.5	2.2	1.2	18.1	.08	.43	.11	51	.23	.056	7.9	21.3	.38	66.9	.046	<1	1.03	.009	.03	<.2	.03	20	.2	.05	3.2
STANDARD OS3	9.44	121.70	35.61	153.1	289	36.4	17.1	793	3.11	30.2	6.1	22.8	3.9	26.4	5.55	5.30	5.62	76	.50	.096	16.2	188.6	.58	151.2	.093	2	1.66	.028	.16	3.9	99	248	1.3	1.06	6.1

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCl-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 6 2001 DATE REPORT MAILED: Nov 12/01 SIGNED BY ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

NOV-19-2001 MON 04:30 PM ACME ANALYTICAL LAB FAX NO. 6042531716 P. 08

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103946 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
G-1	2.56	.2	.11	1.03	37.7	2.9	.2	<.01	<.05	1.3	4.75	13.1	.02	<1	.2	33.7	<10	<2	30
192063	2.35	.1	.02	.50	6.1	2.5	.1	.10	<.05	.7	20.13	29.1	.03	<1	.5	11.4	<10	<2	30
192064	1.94	.1	<.02	.38	6.2	2.6	.4	.04	<.05	.4	11.19	18.9	.02	<1	.4	10.7	<10	<2	30
192065	.89	.1	.04	.33	2.6	2.9	.3	<.01	<.05	1.4	10.68	14.6	.02	1	.5	10.1	<10	<2	30
STD DS3	.78	.2	.61	.65	2.9	6.5	.6	.01	<.05	39.2	13.02	23.2	.05	1	.6	8.9	<10	<2	30
192066	1.34	<.1	<.02	.32	4.9	2.2	<.1	.03	<.05	.7	10.58	14.2	.02	1	.3	11.7	<10	<2	30
192060	.67	.1	.07	.61	4.6	4.5	<.1	.05	<.05	1.8	19.89	24.6	.04	5	.6	10.9	<10	<2	30
RE 192065	.90	.1	.05	.33	2.8	2.8	.3	<.01	<.05	1.5	10.69	14.3	<.02	<1	.4	10.3	<10	<2	30
STANDARD DS3	5.52	.1	.13	1.45	13.7	2.6	7.1	.03	<.05	2.6	8.40	30.3	2.06	1	1.8	16.2	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 6 2001 DATE REPORT MAILED: Nov 18/01 SIGNED BY C. L. D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

NOV-19-2001 MON 09:02 AM ACME ANALYTICAL LAB FAX NO. 6042531716 P. 03

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103945 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
SI	.33	1.40	.59	8.4	15	.8	.1	<1	.03	.2	<.1	.2	<.1	2.7	.04	.05	<.02	<2	.13	.001	<.5	3.7	<.01	3.2	<.001	1	.01	.493	.01	<.2	<.02	<5	.1	<.02	<.1
192052	1.21	18.29	49.17	23.5	474	4.9	114.8	246	8.04	96.7	.8	62.7	3.0	39.9	<.01	.15	3.51	54	.28	.045	4.8	57.8	.63	17.6	.029	1	1.03	.046	.04	.4	.03	<5	2.6	1.76	5.7
192053	3.26	16.68	5.71	33.6	85	4.4	3.6	363	1.72	.8	1.8	1.3	10.0	14.7	.09	.08	.09	28	.39	.037	21.7	61.8	.46	114.2	.002	<1	.66	.051	.13	.4	<.02	5	.1	.03	4.4
192054	6.27	7.91	7.91	32.4	22	2.4	1.2	344	1.58	1.7	.5	1.5	1.6	8.9	.05	.11	.27	13	.06	.031	25.4	20.2	.41	93.4	.001	<1	.73	.052	.12	1.1	<.02	<5	.1	<.02	5.2
STD S3	1.65	32.57	7.79	45.1	60	11.2	11.5	469	3.57	3.2	.5	.7	2.1	46.1	.05	.09	.14	125	.50	.036	10.5	36.0	.45	72.2	.330	1	3.65	.120	.04	.3	.11	28	.4	<.02	9.8
192062	1.41	38.44	13.07	29.2	568	12.6	16.0	677	4.10	7.2	.3	.3	1.2	445.1	.09	2.66	.13	41	1.57	.073	4.0	15.6	.81	57.9	.053	1	3.37	.192	.17	.7	.17	18	4.4	1.06	4.5
192067	2.01	26.77	3.11	18.1	53	6.3	13.2	372	4.16	7.3	.8	.4	3.7	35.1	.21	.21	.06	29	.63	.100	8.1	21.2	.14	24.4	.009	1	.79	.055	.09	<.2	.07	22	.4	.28	2.4
192069	3.29	36.12	3.28	28.6	21	3.7	23.4	524	4.99	1.4	.4	.3	2.0	97.1	.02	.19	.03	214	1.72	.180	13.6	15.5	1.20	109.5	.277	1	2.03	.125	.18	.2	.02	<5	.1	.03	7.7
192070	1.32	42.29	13.54	40.8	438	18.4	15.5	703	3.92	7.5	.4	1.0	1.3	300.9	.08	2.47	.25	46	1.12	.082	4.5	22.3	1.07	57.1	.083	2	3.02	.152	.19	.5	.16	15	5.7	.92	4.1
RE 192070	1.31	42.52	12.95	43.0	440	17.9	15.6	708	3.91	7.5	.3	.3	1.3	291.0	.08	2.34	.25	46	1.12	.082	4.4	21.7	1.07	60.5	.078	1	3.00	.152	.18	.5	.15	18	5.7	.92	4.1
STANDARD DS3	9.41	121.13	34.56	155.8	274	35.3	12.2	816	3.27	30.5	6.0	20.1	3.6	25.4	5.40	4.93	5.41	75	.49	.084	16.2	187.2	.57	145.0	.081	1	1.71	.027	.15	3.9	1.06	226	1.1	1.06	6.0

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 6 2001 DATE REPORT MAILED: Nov 18/01 SIGNED BY: C. Leong ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data A FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103945 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
S1	<.02	<.1	<.02	.02	.1	.1	.1	.01	<.05	.4	.03	.2	<.02	<1	<.1	.1	<10	<2	30
192052	.05	.2	.14	.17	1.2	2.6	.6	7.06	<.05	3.1	4.20	10.5	.02	8	.1	2.5	<10	<2	30
192053	.17	.1	.24	.02	3.3	1.2	.6	.06	<.05	5.8	13.06	38.0	<.02	1	.3	3.3	<10	<2	30
192054	.09	.1	.31	.02	2.4	.7	.8	.39	<.05	10.7	3.21	42.8	.03	<1	.1	3.3	<10	<2	30
.STD S3	.86	.2	.67	.58	2.7	6.9	1.2	<.01	<.05	39.4	13.64	25.2	.04	<1	.6	9.3	<10	<2	30
192062	6.20	.1	.17	.09	6.8	1.8	.2	3.54	<.05	4.9	5.14	7.7	<.02	<1	.6	126.7	<10	<2	30
192067	.32	.1	.16	.03	2.9	3.5	.3	3.93	<.05	4.1	5.59	14.5	.06	<1	.2	2.2	<10	<2	30
192069	.16	.1	.21	.13	4.4	4.1	.5	.11	<.05	4.7	8.92	25.5	.02	2	.3	6.4	<10	<2	30
192070	6.31	.1	.23	.10	7.2	2.3	.3	3.23	<.05	6.9	6.15	9.2	<.02	<1	.6	127.2	<10	<2	30
RE 192070	6.20	.1	.22	.09	6.7	2.3	.3	3.21	<.05	6.4	5.93	8.9	<.02	<1	.6	120.9	<10	<2	30
STANDARD DS3	5.53	.1	.14	1.53	13.0	2.9	6.8	.04	<.05	2.7	8.11	29.7	2.10	<1	1.9	16.1	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 6 2001 DATE REPORT MAILED: Nov 18/01 SIGNED BY. C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103986 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
S1	.44	7.23	.44	3.8	19	.7	1.6	13	.07	.5	<.1	.5	.1	5.4	.01	.09	<.02	<2	.19	.002	<.5	3.3	.01	13.3	.002	<1	.04	.433	.01	<.2	.02	<5	<.1	<.02	.1
192055 Co-op	19.91	64.11	163.31	292.5	656	9.0	40.8	988	2.02	2.2	4.0	3.9	11.0	133.4	13.12	.26	.57	7	2.02	.041	7.9	17.7	.40	90.9	.003	1	.58	.035	.27	1.8	.06	7	.5	.54	1.3
STD S3	1.58	31.58	8.18	43.5	55	10.8	10.6	416	3.13	2.8	.4	1.3	2.0	48.2	.07	.12	.14	116	.48	.037	10.7	35.1	.43	67.4	.311	<1	3.21	.113	.04	.3	.11	26	.3	.02	9.0
192071 Co-op	5.41	11.53	95.50	69.3	945	6.3	9.9	867	2.72	2.8	4.1	6.1	11.8	99.3	4.00	.15	.82	4	1.44	.034	5.2	11.7	.39	78.4	.003	1	.40	.032	.26	.9	.06	<5	.6	.76	.9
192072 " "	1.25	19.75	5.10	73.6	234	5.6	32.7	1233	5.56	1.8	.6	1.6	4.5	138.1	.25	.33	.41	135	2.40	.153	21.4	7.0	2.24	192.7	.119	<1	2.35	.035	.26	2.3	.06	<5	.3	.13	8.6
RE 192072	1.19	17.98	4.80	72.9	218	5.3	31.4	1217	5.49	1.7	.6	1.2	4.1	128.3	.24	.31	.38	132	2.36	.142	19.1	6.6	2.21	170.1	.118	<1	2.32	.033	.24	2.1	.06	<5	.3	.12	8.2
STANDARD DS3	8.75	124.10	33.65	158.1	266	34.0	12.0	780	3.08	30.7	5.6	18.8	3.7	27.4	5.52	5.12	5.05	74	.52	.094	16.4	187.7	.57	145.1	.082	2	1.66	.027	.16	3.7	1.00	221	1.2	1.01	6.1

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 13 2001 DATE REPORT MAILED: Nov 20/01 SIGNED BY: C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data V FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103986 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
SI	.04	<.1	<.02	.06	.5	.1	.1	.01	<.05	.2	.15	.4	<.02	<1	<.1	.7	<10	<2	30
192055	1.08	<.1	.21	.05	8.0	1.0	<.1	1.33	<.05	6.8	8.88	13.3	.12	3	.3	2.8	<10	<2	30
.STD S3	.85	.1	.66	.55	2.6	6.0	1.2	.02	<.05	39.9	12.62	25.4	.05	1	.5	7.7	<10	<2	30
192071	1.02	<.1	.22	.05	6.9	.8	<.1	2.29	<.05	6.5	6.86	8.6	.04	1	.2	.6	<10	<2	30
192072	1.76	.2	.11	.10	10.1	6.2	.5	.93	<.05	1.7	13.88	35.8	.04	1	.1	13.5	<10	<2	30
RE 192072	1.67	.1	.11	.10	9.1	5.7	.5	.86	<.05	1.4	12.57	33.1	.03	2	.2	12.3	<10	<2	30
STANDARD DS3	5.66	.1	.14	1.41	13.4	2.9	7.4	.03	<.05	2.8	8.05	30.9	2.21	2	2.2	15.8	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 13 2001 DATE REPORT MAILED: Nov 20/01 SIGNED BY: ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data N FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103946 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
G-1	1.56	2.46	2.92	38.8	13	4.7	4.0	525	1.80	.9	1.7	.5	4.5	93.8	.03	.04	.10	39	.55	.090	6.8	13.9	.52	225.7	.133	1	.99	.136	.51	1.3	.27	<5	.1	<.02	5.1
192063	2.06	20.70	8.58	78.6	254	8.2	14.2	4015	3.48	9.3	5.0	6.0	.4	90.8	.90	.40	.16	42	.98	.123	16.0	14.2	.30	397.0	.020	3	1.86	.010	.13	<.2	.11	120	.5	.04	3.2
192064	.69	20.53	9.88	61.0	174	9.8	7.6	799	2.14	7.3	.5	13.3	.4	39.8	.32	.44	.18	47	.46	.074	10.4	16.5	.39	193.2	.021	2	1.46	.016	.08	<.2	.07	40	.2	.06	4.1
192065	.76	16.33	6.45	35.4	68	9.6	5.3	390	2.24	8.4	.5	2.2	1.1	18.4	.09	.45	.12	49	.22	.055	8.2	21.2	.37	70.1	.043	1	1.00	.009	.03	<.2	.04	20	.2	.05	3.0
STD S3	1.55	32.56	8.40	43.7	52	11.3	11.2	468	3.41	3.2	.4	1.0	1.9	47.2	.06	.12	.14	125	.51	.040	9.3	35.2	.46	65.1	.348	1	3.60	.124	.05	.2	.12	24	.3	.03	9.5
192066	.68	16.72	7.51	54.3	134	9.7	7.0	914	2.02	5.4	.5	6.8	.4	39.5	.28	.35	.13	45	.51	.072	8.9	15.5	.41	156.1	.030	1	1.26	.011	.06	<.2	.06	44	.2	.04	3.7
192068	.33	33.16	9.13	67.4	268	19.5	11.6	3797	3.63	14.2	1.3	14.9	1.0	62.5	.40	.36	.18	45	.85	.092	16.8	17.5	.36	360.8	.018	1	1.42	.009	.04	<.2	.08	126	.4	.04	4.7
RE 192065	.83	16.59	6.53	36.0	66	10.0	5.6	424	2.32	8.5	.5	2.2	1.2	18.1	.08	.43	.11	51	.23	.056	7.9	21.3	.38	66.9	.046	<1	1.03	.009	.03	<.2	.03	20	.2	.05	3.1
STANDARD DS3	9.44	121.70	35.61	153.1	289	36.4	12.1	793	3.11	30.2	6.1	22.8	3.9	26.4	5.55	5.30	5.62	76	.50	.096	16.2	188.6	.58	151.2	.083	2	1.66	.028	.16	3.9	.99	248	1.3	1.06	6.1

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 6 2001 DATE REPORT MAILED: Nov 18/01 SIGNED BY. C. Leong ..D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103946 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
G-1	2.56	.2	.11	1.03	37.7	2.9	.2	<.01	<.05	1.3	4.75	13.1	.02	<1	.2	33.7	<10	<2	30
192063	2.35	.1	.02	.50	6.1	2.5	.1	.10	<.05	.7	20.13	29.1	.03	<1	.5	11.4	<10	<2	30
192064	1.94	.1	<.02	.38	6.2	2.6	.4	.04	<.05	.4	11.19	18.9	.02	<1	.4	10.7	<10	<2	30
192065	.89	.1	.04	.33	2.6	2.9	.3	<.01	<.05	1.4	10.68	14.6	.02	1	.5	10.1	<10	<2	30
.STD S3	.78	.2	.61	.65	2.9	6.5	.6	.01	<.05	39.2	13.02	23.2	.05	1	.6	8.9	<10	<2	30
192066	1.34	<.1	<.02	.32	4.9	2.2	<.1	.03	<.05	.7	10.58	14.2	.02	1	.3	11.7	<10	<2	30
192068	.67	.1	.07	.61	4.6	4.5	<.1	.05	<.05	1.8	19.89	24.6	.04	5	.6	10.9	<10	<2	30
RE 192065	.90	.1	.05	.33	2.8	2.8	.3	<.01	<.05	1.5	10.69	14.3	<.02	<1	.4	10.3	<10	<2	30
STANDARD DS3	5.52	.1	.13	1.45	13.7	2.6	7.1	.03	<.05	2.6	8.40	30.3	2.06	1	1.8	16.2	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 6 2001 DATE REPORT MAILED: Nov 18/01 SIGNED BY: D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103263 (a)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
SI	.24	4.91	.93	1.3	11	1.9	.1	<1	.03	.6	<.1	<.2	<.1	3.0	.01	.04	<.02	<2	.14	<.001	<.5	4.1	.01	7.1	<.001	<1	.02	.604	.01	<.2	<.02	<5	<.1	<.02	<.1
192301	40.20	295.73	1.79	68.6	909	26.5	78.7	517	10.54	.4	.2	26.8	.1	17.8	.16	.02	1.70	57	.94	.014	<.5	29.2	.83	16.0	.037	<1	2.00	.097	.13	.6	.02	6	14.1	3.25	4.1
192302	73.94	76.62	.92	157.7	378	16.7	52.8	998	11.18	.5	.2	21.2	.1	14.1	.03	.02	1.44	136	.16	.037	.5	55.0	2.57	17.2	.066	<1	2.56	.056	.34	.7	.03	<5	15.1	1.95	6.9
192303	18.88	16.53	1.49	92.9	92	5.8	20.1	1181	5.66	1.0	.3	13.3	<.1	7.5	.01	.03	1.38	80	.25	.048	<.5	24.2	1.98	28.7	.206	<1	1.90	.040	.64	.4	.03	<5	2.5	1.30	5.5
192304	2.00	77.51	.84	105.3	129	4.8	22.0	827	5.38	1.8	.1	4.0	.2	8.3	.03	.02	.55	141	.22	.034	.6	32.4	2.64	43.0	.100	<1	2.06	.032	.14	.7	.03	<5	5.5	.61	6.9
.STD S3	1.51	32.26	8.03	43.5	74	11.9	12.0	454	3.29	2.7	.4	1.0	1.9	42.0	.07	.09	.14	122	.51	.039	9.4	34.3	.46	72.3	.330	<1	3.39	.117	.04	.2	10	28	.3	.02	9.8
192305	11.83	147.62	1.96	147.9	360	11.0	42.9	1045	8.39	.9	.2	11.3	<.1	22.2	.10	<.02	1.49	173	.49	.035	<.5	32.7	3.14	28.7	.119	<1	3.15	.114	.63	.4	.04	<5	7.7	1.44	8.9
192306	5.04	227.79	1.18	61.4	206	15.8	37.1	486	9.65	1.3	.1	8.6	.1	16.3	.05	.02	.97	116	.32	.032	.5	48.9	1.83	19.9	.070	<1	1.91	.059	.12	.9	.02	<5	12.1	1.25	6.8
RE 192306	4.99	229.52	1.22	63.6	209	15.4	37.3	504	9.73	1.3	.1	8.7	.1	17.1	.06	.02	.97	118	.32	.033	.5	50.7	1.85	18.2	.071	<1	1.95	.060	.10	.9	.02	<5	11.9	1.24	6.7
192337	.94	63.23	14.68	96.4	69	18.2	24.2	1291	3.71	2.8	.2	2.1	.6	204.9	.20	.09	.02	129	7.88	.082	6.7	18.6	1.89	2050.4	.049	1	2.05	.037	.07	<.2	.02	<5	<.1	.04	7.7
192338	.56	44675.06	3.12	149.8	99999	41.6	22.7	1105	3.82	1.6	.1	116.1	.7	58.2	.10	<.02	.07	108	.62	.106	7.6	39.7	1.87	171.3	.080	<1	2.05	.054	.07	<.2	.02	65	2.9	.19	8.5
192339	1.08	492.64	4.25	69.2	11600	16.5	19.2	763	3.90	2.7	.3	1.0	.8	18.2	.11	.06	<.02	111	2.00	.098	5.7	26.5	1.47	136.2	.203	1	2.27	.045	.03	.4	.02	<5	.1	<.02	11.7
192340	.70	10988.17	.87	59.7	6000	7.7	7.9	920	1.29	.6	.2	162.8	.3	108.0	.07	.04	<.02	51	8.54	.027	6.3	30.1	.93	64.7	.043	1	1.90	.005	.06	.7	.02	<5	.5	.05	5.9
192341	.83	22157.17	.84	81.5	16889	11.7	11.7	731	1.71	2.2	.2	130.7	.3	107.4	.08	.02	.02	77	4.00	.035	3.0	29.6	1.32	139.0	.084	1	3.42	.005	.04	.4	.02	<5	.7	.07	9.0
STANDARD DS3	9.70	130.38	35.91	156.4	282	38.6	12.8	809	3.18	29.8	5.4	22.1	3.6	26.8	5.44	5.03	5.66	77	.53	.098	16.0	190.4	.59	161.6	.084	1	1.69	.027	.14	4.1	.99	246	1.3	1.06	6.4

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 DATE REPORT MAILED: Oct 3/01 SIGNED BY: C. Toye

. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # A103263 (b)

800 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Hf ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Ta ppm	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Be ppm	Li ppm	Pd ppb	Pt ppb	Sample gm
SI	<.02	<.1	<.02	<.02	.1	.1	.1	<.01	<.05	.5	.06	.2	<.02	<1	<.1	.2	<10	<2	30
192301	.10	.2	<.02	.03	2.6	2.8	.1	8.87	<.05	.3	.90	.8	<.02	80	.2	3.6	<10	<2	30
192302	.19	.3	<.02	.05	5.5	9.7	.3	8.37	<.05	.3	.67	1.5	.02	86	.1	6.2	<10	<2	30
192303	.33	.1	<.02	.04	11.1	7.8	.4	4.27	<.05	.3	3.22	.7	<.02	13	<.1	18.0	<10	<2	30
192304	.44	.2	<.02	.03	3.8	11.3	.2	3.25	<.05	.2	3.37	1.5	.02	2	.1	10.5	<10	<2	30
.STD S3	.80	.1	.59	.50	2.6	6.5	1.1	.02	<.05	36.9	12.45	22.7	.04	1	.5	8.1	<10	<2	30
192305	.33	.2	<.02	.03	11.5	13.9	.3	5.95	<.05	.2	1.62	.9	.04	23	.1	19.5	<10	<2	30
192306	.20	.2	<.02	.05	2.2	8.3	.2	8.11	<.05	.3	1.60	1.4	.02	9	.1	3.6	<10	<2	30
RE 192306	.19	.2	<.02	.06	2.3	8.2	.2	7.84	<.05	.3	1.69	1.5	.02	6	.1	3.9	<10	<2	30
192337	.49	.1	.16	.04	2.0	7.1	.3	.15	<.05	3.7	7.53	13.3	.02	<1	.3	18.1	<10	<2	30
192338	.30	<.1	.25	.13	2.9	5.8	.4	.68	<.05	4.6	8.97	16.4	<.02	1	.3	15.3	<10	2	30
192339	.08	.2	.72	.10	1.1	5.2	.4	.56	<.05	21.3	7.07	12.2	.02	<1	.3	20.2	<10	<2	30
192340	.61	<.1	.16	.04	1.4	2.2	.2	.17	<.05	4.2	2.33	9.1	<.02	<1	.1	11.9	<10	<2	30
192341	.22	.1	.13	<.02	1.2	2.6	.2	.20	<.05	4.0	2.33	5.3	<.02	<1	.2	13.0	<10	3	30
STANDARD DS3	5.49	.1	.19	1.51	14.2	2.6	7.1	.04	<.05	2.9	8.42	29.5	2.14	<1	2.3	15.3	<10	<2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
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