



TA'AN KWACH'AN COUNCIL

P.O. Box 5359, Whitehorse, Yukon Y1A 4Z2
Telephone: (403) 667-7631, ext. 251/252

91-036
Doreen Grady

MONTHLY REPORT FOR THE MUNDESSA DEVELOPMENT

CORPORATION 1991 GRUBSTAKE

MAY 1991 -

The prospector has prospected two separate areas for the Mundessa Development Corporation. The initial area is on a ridge north of Rat (Ten Mile) Lake. The area of interest is comprised of a series of very strong north/south running faults crosscutting an older east/west fault system through Leberge Series conglomerates.

Orange lichen was reported as common in the area and from a distance can be confused with gossans. No mineralization was found (except for trace mineralization from rocks comprising the conglomerate). The prospector believes soil samples from the faults, especially at the cross faults, should be taken and analyzed. This cannot be done until the volcanic ash layer thaws. One all metal pick broke trying to get through the frozen ash.

The second area prospected was on Lower Frank Creek. The prospector reports strong north/south parallel faulting as well as cross faulting in this area as well. The geology is more complex with volcanic breccias, tuffs and limestones in the vicinity.

The source of the anomalous government geochemical number (106 & 34 ppb) has possibly been located. The prospector has located a quartz carbonate zone over a 60 meter x 20 meter area. Minor mariposite and evidence of shearing are present. No sulfides are visible in the quartz carbonates.

Four 'MDC' claims were staked over the showing. More prospecting will be done if the rock analysis are encouraging.

All rock, soil, and stream sediment samples are being assayed and payed for by Noranda in exchange for a first right of refusal on the property.

D. Grady
Mundessa Development Corporation



TA'AN KWACH'AN COUNCIL

P.O. Box 5359, Whitehorse, Yukon Y1A 4Z2

Telephone: (403) 667-7631, ext. 251/252

MONTHLY REPORT FOR THE MUNDESSA DEVELOPMENT

CORPORATION 1991 GRUBSTAKE

SEPTEMBER 1991

Analysis from samples collected in May did not return significant values nor did they duplicate government geochem responses in either area.

The prospector collected soil samples from fault zones in the Rat (Ten Mile) Lake areas was planned. These are being analyzed and will be forwarded to you when received. Any further work in the area depends on positive results from this analysis.

Soil assays have come back with one soil sample (1E1215) returning a value of over 6,000 ppb Au. The assays value was .33 oz. per ton. Another soil value was 259 ppb Au. All other values seem anomalous with values between 12 and 97 ppb, most being in the 20 - 40 ppb range.

D. Grady
Mundessa Development Corporation

RATH

10 mile Lake MUNDISSA Devel. Corp

May 2, 1991 (letters to Meloythi / Walt re road / bridge
hike into ten mile

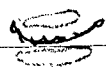
10 mile Lake on Corca fault. Most material
in glacial till - many dead animal including
white wolf - 1 mile above farm, Scores of rubble / ptarm.
1 meshnet @ 1st lake; also saw 90 swans from
Laguna - 30 mile?; ducks, water on trail 99% snow
on south gone - Lake ice "soft" - stored off
snow on north side - mostly patches - but 1-2' deep.

IE121 - 1/2 way creek sed sample - interm. creek
@ Freshnet - 1-2' across - seems to drain
into both lakes? Eagle Butte (A) ~~orange~~ orange
conglomerates - developed soft in area
even orangish color, complex make up
of conglomerate from granite to aphanitic green
volcanics & limestone. IE122 - stream sed
at Eagle Butte creek - inter. creek @ Freshnet
as with Sample #1 lots of organics in sample,
rotlets etc - little larger than 1/2 way creek.
Sample in willow / brush brush area.

IE123 - @ Laguna Creek - grit gravel
950/62 ppb - creek 1m wide
perms but frozen winter - now where
gravel open usually frozen.

May 3 - Investigate Lagoon Creek drainage
+ east side of knob. no drainage
found along 10 mile fault @ (B).

IE124 - 5m wide suspected E-W fault off knob
ash layer to 6" thin orange dirt - 2 sample
one bag - bit of frozen.

IE125 - 3m elliptical ~~fault~~ fault  @ Lake 8' - west of
no. bdr from camp.

IE126 - 2nd elliptical fault - 100m east of #5 above
5m wide - sample @ 1 1/2'

IE127 - 10 mile fault? - major shear zone
N-S part of a series of N-W running
faults (#5 + 6 above + #2 others) outcrop on
all ridges between faults or on
east wall of 10 mile fault - 100' ft well
conglomerate. All outcrop conglomerate -
some on fault just west of Lake w/
minor limonite limonite - some cong. reddish
Ground frozen in larger faults
break metal pick handle in 10 mile shear - in
ash layer -

Fault @ D - again major shear structure -
extensive bright orange lichen @ ~ 3500 level
in west slope of knob - looks like grass.
Major faults in area appear to be
steep dip - 70-80° slickensides on the
east side & visible weathered

cliff on the west side

Difficult to prospect in conglomerate or
one must be vigilant against taking
float as having value - few rx w/
metal (mag) have been part of conglom
since trace a great "new rocks".

Believe answer to mineral deposition to
explain coincident geodome anomalies
lies in the faults. Need numerous
soil samples from faults to detect
mineral. Glue of conglomerate -
difficult to describe - ash or tuff
like - often a green x-taline cement
which seems to grade into
the aphanitic, very green rx (possibly
as described on May 2)

May 4 Sat. brilliant weather: G to Knob
top looking for any signs of alteration
or rocks of the conglom cement or
silicification etc.

Faults are everywhere & continuous, & some
quite impressive. Fault D has two
lakes - both very rusty? - 50m+ across
w/ 100' side on ~~west~~ east & several (400)
side - w/ slickensides on west, soils frozen
in faults

@ E - adjacent to NW x-fault

rusty matrix - no sulfides - taken on
base data for what rx run on
soil, just east of 8 - 30' m
N-S fault (pictures) very strong and
obviously at E - an apparent
E-W fault. Just east of N-S fault
2 other faults that bend to
north + turn at E-W fault.

From this point looking up into
several faults coming off "top"
S-strong NE, + one major N-S
that it appears is related
to the N-S fault just east of 8'
Very impressive - distinct faulting
everywhere. Outcrops - all conglomerate -
usually some orangish tint.

pictures of faults / country / outcrops
Just west of the knob top is a
third major fault - again with a
rusty sand (cross sample 9)
some slickenside rx in fault - very strong
fault. @ 9 float (on conglom.) grey
green ~~matrix~~ calc. gneiss
cement rx that is slightly -
magnetic + small bits of qtz.
snow up to waist deep in little
fault / shadows - 80% of ground open.

seem hear activity - digging at limestone rts?
at 10 - yet another strong WNW fault
between D fault + 3 fault (both N-S faults)
Rusty conglomerate / cement with more
than usual manganese (which is "common")
+ slightly magnetic - still well consolidated
but well fest. 1/2 km below 10 another
WNW fault. well defined fault up N-S -
everywhere - lots of downed fire killed
timber - everywhere. At end of D
fault (system) small 15' wide fault
W-S-W running into 10 mile fault.

hand fist size white qtz rock - float
??? - at least its qtz. On fault side
1/2" vein of white qtz in opalite
green rx also rusty manganese ore
(sample 1E1212) soil sample in "1/2"
fault 1E1211) Just below fault
junction a 8' high "sandstone" layer -
below conglom - salt might be just
heavy board on cement - has a
dirty "ash" "truff" appearance like much
cement.

May 5 - "Stom Fed" @ freshet drain
near 10 fault - above runs
entirely on rock - near lake - gravel
base 1' wide. Stops just off escarpment
1E1213

IE1214 - Str seal from lagoon - 2nd
crk open more - 100' off bottom -
up higher on creek to confirm
grit 950/62 et al - old flagging - Newark?
Out as major information from looking
will be from soil samples on
numerous faults & x-faults - to
frozen now. Little water drains
Krat - even @ Fairbank. Rusty
ponds are present, even pond just
north of elipse fault west of
10 mile fault. Grit sample 30(29) pab Au
out in swamp - wonder validity ???
out - find soil from horse barn
leave rxr str seal & some gear for
Frank coal @ point west of lagoon
for pick up on top into Frank or
photo flight.

Sept 9 in nose @ first lake
vehicle to 15 minutes of first lake
colors @ prime. Sample of first
14 sample w/ significant
value - picked up on Frank coal
trip - Newark (see Stam w/
Frank coal. Quant. Carbonate 1/4 sec
note May 23 et al)

Sept 10-14 soil sample fault in
brook north of 10 mile lake

IE1215 - Soil see map - x fault below
ash layer (6")

IE1216 - north end of same fault
near water - organics below ash layer

IE1217 - probable continuation of
same fault - below ash layer

IE1218 - 2 1/2' deep - ash layer
1 1/2' - organics sample (w/ rx's)

IE1219 - same fault - just south
of pond (see photo) - 1 massive rock
- 40" - organics above
permafrost - 1 1/2 foot deep - below
ash layer (9")

IE1220 - on ridge top on E-W fault
ash layer very thin (2") sample @ 4" soil

IE1221 - 1" ash layer @ 3" ^{in ash}
sample at 1" - no organic on

X-fault - 1st fault parallel to top
west side + ~~EW~~ EW fault

IE1222 - north end of same fault ^{N-S}
w/ major splayed E-W fault
org 4" ash 4" org 9" - (horiz) sample

IE1223 - Soil near
stream - drainig second
& largest fault on east side

creek runs down E-W fault - lower
down from IE1222

1E1224 - stream bed on major
E-W N-S X fault on some
fault (south of) 1E1223

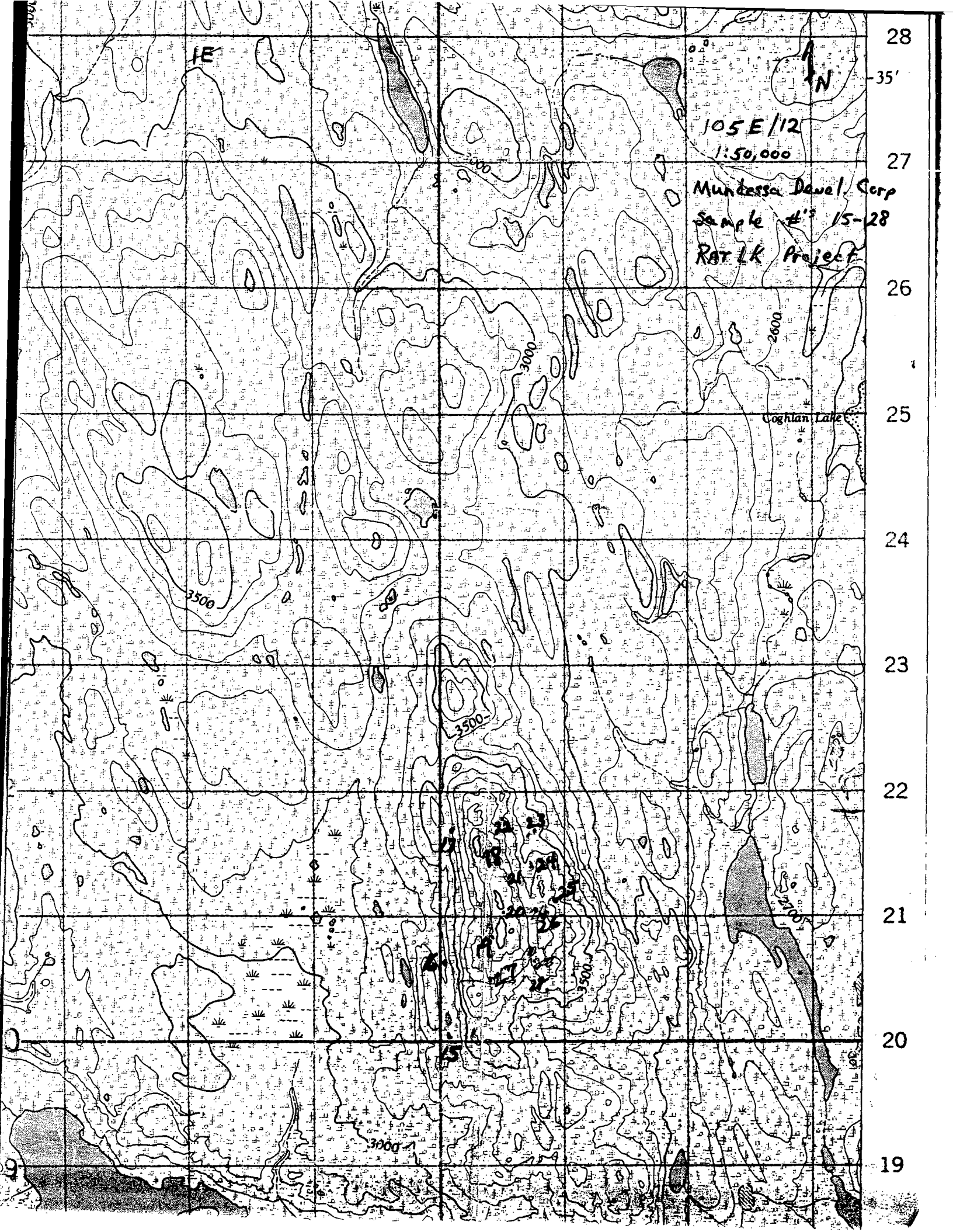
1E1225 - 3rd of N-S fault from
top (minor) 1' org, 5" ash
'soil' (same org)

1E1226 - first attempt on major
X fault (2nd N-S fault + E-W fault
same as 1E1220) but frozen at
ash layer - sample taken on
side of NS (east) at X fault
N-S faults seem to be
the younger faults

1E1227 - at major E-W/NS fault
just above (east of 16' km)
sample @ 2nd organic

1E1228 - NS EW X fault -
solid organic part 2' - sample
taken on low or possible - organic
cut soils to MAL

with stick on colt @ Jensen Farm
- no fresh tracks seen -
) fresh drop more on the



1E

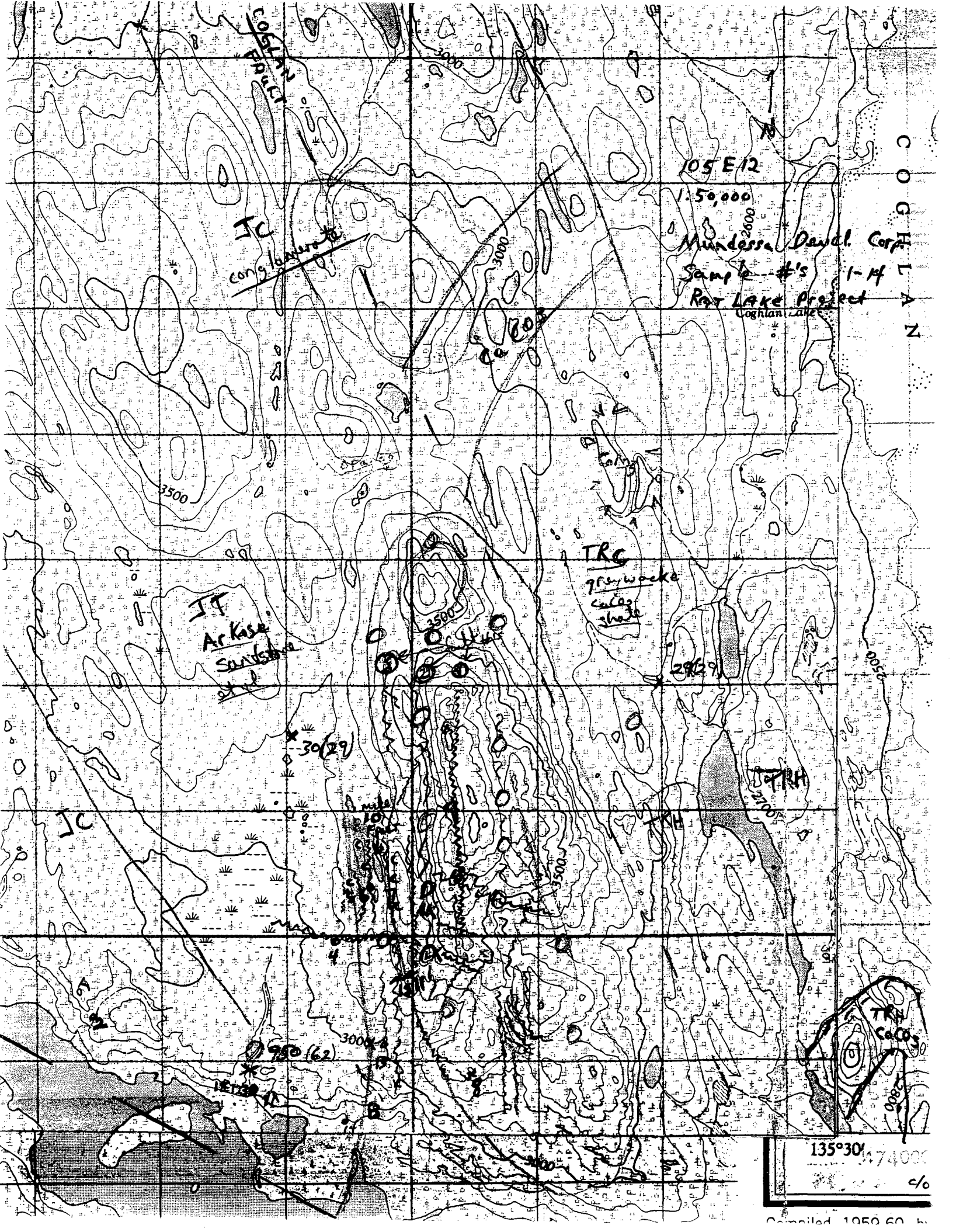
105 E/12
1:50,000

Mundessa Devel Corp
Sample #'s 15-28
ROT LK Project

Coghlan Lake

Dodge

28
35'
27
26
25
24
23
22
21
20
19



Cognian Lake

IC
conglomerate

105 E 12
1:50,000

Mundessa Dowl. Corp.
Sample #'s 1-14
Rat Lake Project
Cognian Lake

C
O
G
R
A
P
H
I
C
Z

3500

IT
Ar Kase
Sandstone

TRC
graywacke
calc. shale

3500

30(29)

TRC

IC

950(62)
3000

135°30'
74000
c/o

MAY 23, 1991 FRANK CRK

out May 31

Arrived at super cult - took 10 milk samples to Joel. Felt he couldn't land at lake as Frank Creek on there were too many trees on the shore to get in - let me off w/o lowering wings. - flew

5 km south. Camp - many ducks - 50 in one gap on lake - most are 100's on the lake - noise is intense this evening.

Frank Crk is an incredible series of ponds + swamps - ideal wetland but tough sloughing. 1E111 - stem sed at crk

100 m west camp - 1" wide sand on top of mud.

(A) Right limit side of crk a purple / red sandstone w/ some conglomerate character - high CaCO_3 content - some CaCO_3 v. many - 1/4" wide - "running NW"

East of camp on ridge

(B) above Frank Creek 100' + massive limestone overlies conglomerate with large CaCO_3 rock components

geol map shows Precambrian Anticline
adj (west) of camp, with the
major chain fault running NW
along French crk. Rock types
are TRH - limestone

+ TRP - volcanic basalt, tuff etc
May 24 Fri - on ridge - east of south end
of Toke (C) magnetite float 6" rx
in digging in immediate area found
tannish finer grained granitic rx w/
10-20% limonite esp toward edge.

1E112 - mag rx - no mag seen or sulfide
black w/ light green & white / at lower / coarse
crystals. Some manganese + limonite
also blocks (purple?) crystals thru out.
sample of granitic rx for show. Possibly
mag rx is type rock for mag high
to the east or could be float
from conglomerate + useless to me for lead.

1E113 - str sed in 50' limestone (15' wide)
canyon. 1m flt in canyon magnetite green w/
white fibules, also - large 1m³ - conglomerate float

1E114 - str sed - perm creek - good sample
a strong fault runs N-S along these
sample locations w/ x fault or creek
cutting in at sample point.

no creek at next northerly "x-fault",

(D) greenish, fractured bedrock outcrop -
greywacke w/ mag sig + manganese component.
like all outcrops - general polished. 50
strike dip difficult to determine. 1E115 - sample of
bedrock; 1E116 + 7 - crk w/ high goit Au
gravel + a small 1' wide left bank
trib thru older. all crk drain
swamp areas; @ E CaCO₃ dip 30° to south.
on ridge much granitic green rx w/ long black xls,
also a green/white grains w/ sulfide
stringers - much granitic lignite float

@ 1E118 - no creek but on right bank
all along bottom of ridge - outcrop of
grey granite mag. rock - sample taken - some
manganese staining. CaCO₃ across fault (50') at
same elevation & overlying outcrop above.

@ E. east west striking dirty sandstone dip
30° south, grades into the mag tract
bedrock or @ D; G - peralite - red
conglomerate (or A) thru out - over
good elevation + spatial area

MAY 25, try to locate mag high
S.W. of camp + try to determine
source rx, probably like 8 or D
above, also sample crk draining
mag high - directly west of camp

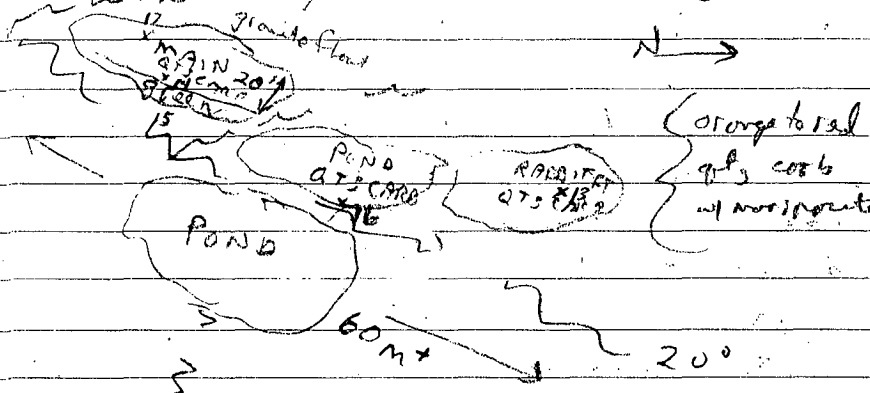
- mod strong magnetite rx found @ H - 1E119 - green granular rx weathers dirty brown on all fract. fair manganese stain, quite fine grained - possibly some minute magnetite grains - rather polished by glauconite/iron. From 9610 greenish grey float, ca 10 stream sed sample - drainage "dry" but with sweet/salt from highwater in hole. No significant, unexpected rx found on ridge between #10 & camp.

10 large trees (2/2) little animal sign though some mouse track - large # of dead rabbits - lots of ducks - in all waters yellow eyes, grebes, mallard etc. Some old blaze marks north side of Imag high lake

May 26 - little brother's birthday; objective investigate area west of NNW fault - followed May 24; #1E111 - NW of small lake on small ridge - manganese stained shale / "conglomerate / green tuff" contact. Sample contains both rx types on contact. Contact strike NW (w/ ridge) horizontal. 10m away is apparent limestone outcrop (physically above 1st contact). To the west just off ridge top mag. reddish tuff?? w/ some green / black shale - some magnetite shales.

1E112 - probably related to rx @ P#6

Pre 11 - between lake I - conglomerate contact B - also on asphalt grade conc. float. J. QTZ CARB MICRIP - 60 meters long - along apparent fault face - 20° strike of outcrop possibly E-W. Three zones



rock in Rabbit foot - qtz carb w/ minor arsenopyrite; @ POND - same with minor sulfides visible w/ qtz carb veins; at MAIN - 20' qtz carb near base - garbled dark grey rock w/ abundant CaCO₃ / qtz stringers. qtz carb in Main w/ micropites & sulfides - one sample with possible V6 (will check out under DISCO microscope)

1E113 - washed out qtz carb w/ minor micropites from Rabbit Ft; 14 qtz carb float @ main (V6 found here); 25 - underlying green rx; 16 qtz carb w/ micropites w/ minor sulfides Rabbit Ft; 17 main outcrop qtz carb etc.

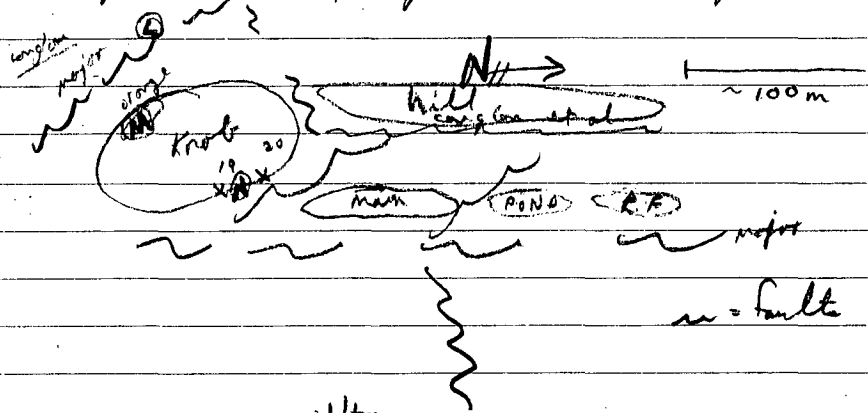
May 27 - investigate mag high which is
 located just west (across a fault?) of
 pond showing; approach pond showing from
~~west~~ west. The reddish purple conglomerate
 is 15' Tc on the Templeton thick map - his
 map shows some out crops of this red
 several miles NE or across the major Claire
 Fault. The R_p is further south. As
 found yesterday & described in his file
 some shale / greywacke are interbedded
 with the conglomerate, at the proximal
 anticline - west side conglomerate dip
 20-30° to ~~west~~ east. Strong N-S & NW
 trending faults at head of creek during
 sample 8. Many smaller faults a
 converge less than 100' contour, most of
 area burned hard - probably 50 yrs ago.

@K- 15' long red/purple conglomerate, ~~with~~ picture
 overlain by some of green/tan ash or
 sandstone (sample 1E1118) much shiner - probably
 muscovite etc. The latter is slightly
 magnetic the former not at all.

L - NE/SW fault 100' wide - slightly mag / greenish
 out crop at west end, - saltstone 100 m up
 fault at approx same elev (north side) -
 south side greenish conglomerate 20' high

straight across gravel float w/ orange - gtz - M.
 color lock - but no silica / muscovite.
 No samples taken on creek (though)
 between K + L or on fault - I'd call each
 layer under 1-2' muscovite / organics.

@ M is 200 m south of showing @ N
 bedrock 1E1119 - pebble conglomerate w/
 limonite on outer edge - limonite portion w/
 minor sulphide taken, 10 m to W. outcrop
 uphanite rx - block w/ gtz stringer - orange
 crusts - sulphide in gtz (minor), picture at
 next out crop - other rx in area conglomerates
 or greenish crumbly conglomerate - w/ slight mag.



1E1121 - ^{gtz orangeish tan} carb type rx - by alt to crumbly w/ some
 silica - no muscovite - on line with
 fault south of knot & approx 1 km from
 showing, - over lies conglomerate.

May 28 - investigate area around high
joint gas along anomaly. Traverse
N-W running fault. @ 0 - westerly side
possible ~~time~~ ^{1E1122} located outcrop - grade into greenish
tuff to the north. both have good deal of
manganese staining; across fault (7. m) is
Cacer's outcrop. The greenish feldspar tuff
outcrops several times along the west of
faulted, while the NE side is limestone.
Lots of dead rabbits, gen 2 or so alive / day
seem like a dead one (except) every 100 yds.
many not eaten, also dead squirrel; must
be down cycle. Good duck population. No
wolverine sign, some mouse but no owl.
Lakes in area generally shallow - volcanic ash
6" - deep very many. Having difficulty
reconciling top map w/ ground features
one lake, or no, misplaced.

@ joint geochron used (most northely) 1E1123 -
the sample is 100% organic. collected at
nearly 3' - had to imagine a good
sample in this area - was hoping this
would confirm / day #6,7 (both good samples)
+ joint #. Was planning to strike in
this area but nothing apparent except
on west side of knob (#8) just orange
dirt (a few in low) surrounding the

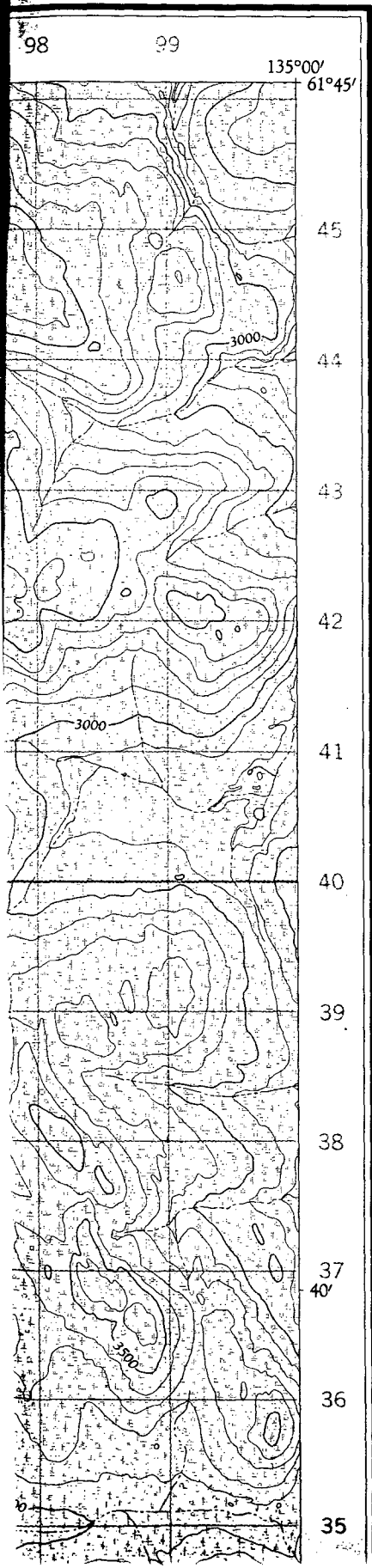
rotational massive limestone

May 29/30 main outcrop + area staked
on a NW course. Outcrop divided between
#1 + #3, with main outcrop on #3.
Samples on May 31 - if quick, good results
req. claim. To the north of outcrop ^{1E1124}
4 1m³ float boulder green tuff w/ heavy fit
manganese staining - approx (50cm north) -
mainline country, from there to ridge
1 km to north, low, very dense spruce/
willow, alder (which smells nice now) w/
little to no outcropping. The same
situation exists to the south of
camp ~~to~~ around + between the three
lakes there. Some evidence of old
blaze marks + on tin can (old) on
previous opposite side of lake from
camp. Some mouse rut activity,
lake appears too shallow for fish (frogs
to bottom - such dive in all portions -
very much leathery life. Some locations
might be very good for wild rice trials.
May 31 - out over to assay along w/
rocks - collected at 10 mile lake

E PROVISOIRE

105 E/11

Refer to this map as: 105 E/11 EAST EDITION I ASE SERIES A 722



MUNDESSA DEVELOPMENT CORP
TA'AN KWACHIAN COUNCIL

LEGEND

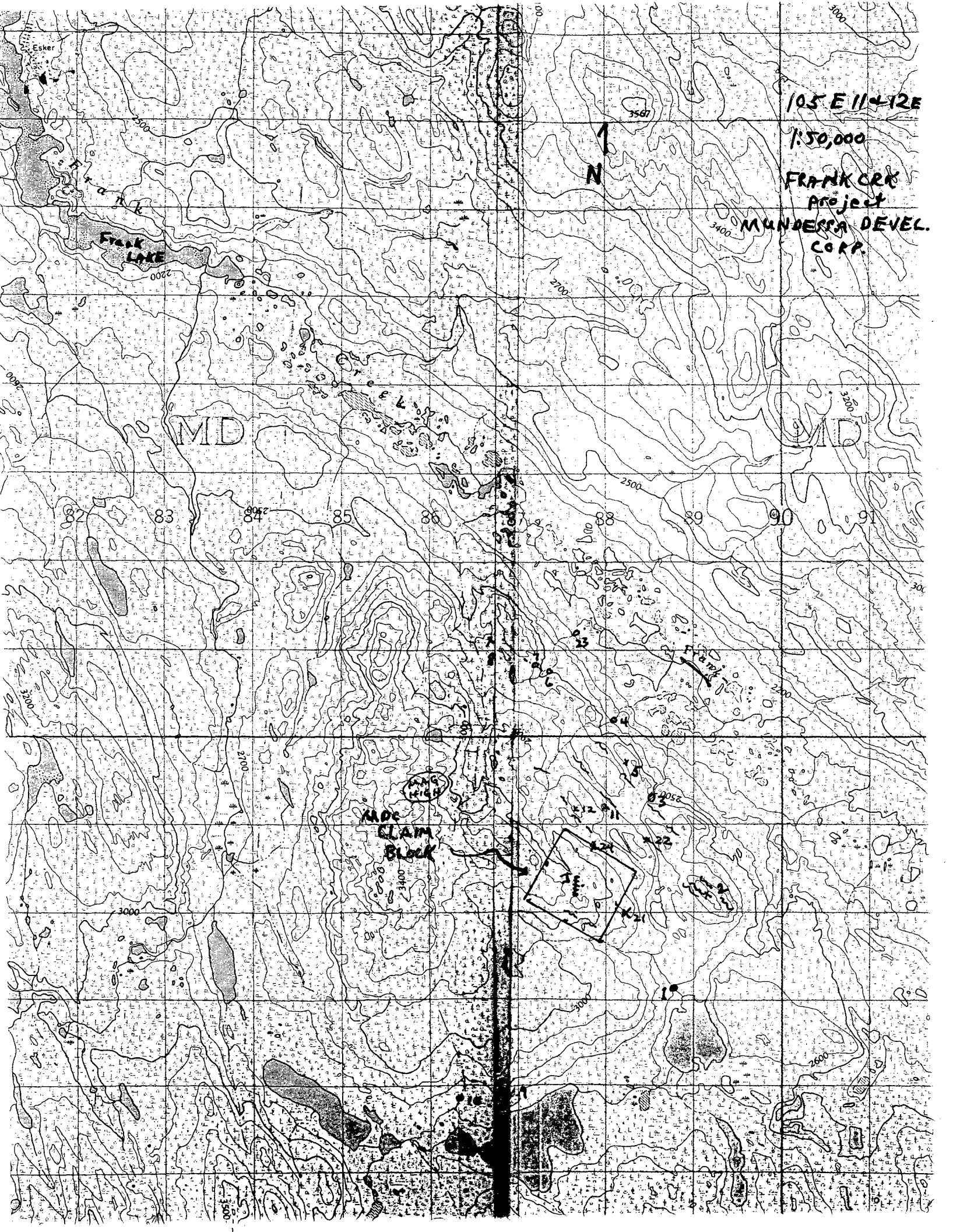
+++ - MAIN SHOWING

sample #'s 1E11 13
" 14
" 15
" 16
" 17
" 19
" 20

All Rock

o - soil or stream sed } All #'s preceded by 1E11
x - Rock

~ ~ ~ - fault



105 E 11 42E

1:50,000

FRANK CRK
Project

MUNDERRA DEVEL.
CORP.

MD

MD

83

84

85

86

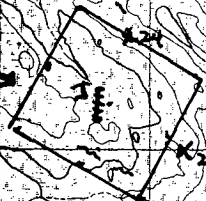
88

89

90

91

CLAM
BLOCK



K-22

K-21

K-23

K-24

Handwritten signature

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No.: MDC YUKON GENERAL - 312

Geol.: J.D.

Date received: JULY 05

LAB CODE: 9107-036

Material: 12 SOILS & 5 SILTS

Sheet: 1 of 1

Date completed: JULY 12

Remarks: • Sample screened @ -35 MESH (0.5 mm)

▣ Organic, Δ Humus, S Sulfide

Au - 10.0 g sample digested with aqua-regia and determined by A.A. (D.L. 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

T.T. No.	SAMPLE No.	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sr ppm	Ti %	V ppm	Zn ppm
94	IE - 111 SOIL	5	0.2	1.88	3	178	0.4	5	1.09	0.2	41	8	52	11	2.11	27	0.33	18	12	0.65	593	1	0.10	15	0.08	2	96	0.17	80	55
95	113	5	0.2	1.72	9	186	0.4	5	3.22	0.4	34	9	28	25	2.10	26	0.29	12	13	0.66	670	2	0.25	16	0.07	3	195	0.11	69	85
96	114	5	0.2	2.12	7	150	0.4	5	2.07	0.2	38	10	40	22	2.43	29	0.31	15	13	0.84	349	2	0.19	16	0.08	3	148	0.14	93	58
97	116 SOIL	5	0.2	1.60	15	252	0.4	5	1.89	0.2	43	8	43	19	3.76	30	0.35	17	12	0.64	324	3	0.16	16	0.09	5	194	0.15	81	80
98	IE - 117 SILT	5	0.2	1.97	8	211	0.4	5	1.20	0.2	37	9	30	19	2.22	27	0.41	14	13	0.71	281	1	0.13	17	0.06	6	83	0.13	82	60
99	IE - 121 *	5	0.2	2.03	3	131	0.5	5	0.81	0.2	32	9	15	19	2.54	24	0.43	12	13	0.65	477	1	0.07	14	0.06	7	71	0.12	73	62
101	122	5	0.2	2.50	5	228	0.7	5	1.45	0.2	48	8	37	33	2.25	33	0.40	19	19	0.65	261	1	0.06	18	0.08	6	107	0.18	73	70
102	123 SILT	5	0.2	1.83	2	122	0.6	5	1.78	0.2	42	7	33	28	2.15	30	0.36	16	13	0.54	349	1	0.09	14	0.08	5	105	0.14	69	56
103	124 SOIL	5	0.2	0.68	2	46	0.2	5	0.72	0.2	24	4	10	12	1.18	20	0.16	8	8	0.33	127	1	0.70	6	0.06	2	44	0.10	36	20
104	IE - 125	5	0.4	2.18	3	226	0.5	5	0.89	0.2	49	7	33	22	2.30	31	0.21	21	13	0.55	278	1	0.12	17	0.06	7	62	0.21	70	48
105	IE - 126	5	0.2	1.61	4	136	0.5	5	1.10	0.2	42	8	22	27	2.14	29	0.24	16	11	0.49	393	1	0.26	13	0.08	5	71	0.15	67	43
106	127	5	0.2	1.50	3	107	0.4	5	1.39	0.2	37	8	20	51	1.85	31	0.19	13	14	0.43	583	1	0.55	14	0.07	4	101	0.14	61	45
107	1211	5	0.4	3.21	2	321	0.8	5	1.06	0.4	60	20	32	73	3.81	34	0.38	28	21	0.62	2260	2	0.15	38	0.17	9	75	0.22	90	108
108	1213	5	0.2	2.62	4	170	0.7	5	1.34	0.3	46	11	32	37	3.06	35	0.52	17	17	0.76	548	2	0.12	18	0.09	10	94	0.18	88	81
109	IE - 1214	5	0.2	1.73	8	125	0.6	5	4.10	0.5	38	7	33	27	2.03	30	0.34	15	13	0.53	349	2	0.11	13	0.08	6	167	0.15	64	52
110	IE - 1123 SOIL	5	0.2	1.86	7	253	0.5	5	2.03	0.6	42	9	38	33	1.57	36	0.37	14	13	0.62	209	2	0.15	22	0.07	7	161	0.11	67	70
111	IE - 1110 SILT	5	0.4	2.45	5	271	0.6	5	1.25	0.2	45	9	61	22	2.82	23	0.51	20	14	0.79	321	2	0.11	21	0.07	2	90	0.16	97	62



GEOCHEMICAL ANALYSIS CERTIFICATE

MBC (JD)



Noranda Exploration Co. Ltd. PROJECT 9107-036 312

File # 91-2328

1050 Davie St., Vancouver BC V6E 1M4

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb	ppb
1E 112	1 116	9 42	.1 23	19 666	3.58	3 5	ND	1 172	.3	2 2	216	5.66	.025	2 23	.51	210	.17	2 5.02	.42	.04	2 3	190										
1E 115	1 76	2 66	.1 31	18 726	4.47	3 5	ND	1 634	.8	4 2	175	2.04	.026	2 43	2.24	89	.20	5 5.14	1.82	.12	7 2	35										
1E 118	1 32	5 53	.1 72	20 664	3.64	2 5	ND	13 225	.2	2 2	100	3.73	.117	41 152	2.99	270	.08	2 2.71	.25	.11	1 1	5										
1E 119	1 126	2 70	.1 14	19 951	5.41	7 5	ND	1 479	.9	2 2	266	3.60	.022	2 14	2.38	194	.14	8 6.37	.33	.19	4 2	20										
1E 128	1 30	11 60	.1 5	8 707	3.33	5 5	ND	5 229	.3	2 2	96	5.56	.066	8 11	.74	38	.24	9 2.51	.05	.04	1 1	5										
1E 129	1 40	6 74	.2 12	12 862	4.79	2 6	ND	4 168	.5	2 2	126	4.97	.089	9 15	1.12	59	.28	18 4.01	.06	.06	1 1	5										
1E 1111	1 104	2 76	.1 32	25 964	5.53	3 5	ND	1 51	.2	2 2	201	2.66	.044	2 24	1.64	76	.42	6 3.02	.64	.07	1 1	5										
1E 1112	1 244	2 130	.2 6	27 1622	10.02	9 5	ND	1 51	.7	6 2	274	2.95	.080	4 4	1.14	82	.75	20 1.94	.06	.05	4 1	5										
1E 1113	1 100	2 51	.1 42	25 1163	4.84	9 5	ND	1 93	.6	2 2	132	9.30	.027	2 75	2.56	22	.01	5 1.40	.01	.04	2 1	5										
1E 1114	1 118	2 101	.2 66	46 702	9.02	2 6	ND	1 69	1.7	2 2	176	9.76	.029	2 132	1.83	220	.01	10 4.76	.01	.05	1 2	45										
1E 1115	1 96	2 47	.1 31	22 1067	4.36	4 5	ND	1 73	.9	2 2	138	11.69	.023	2 63	2.37	29	.01	2 .61	.02	.01	1 2	5										
1E 1116	1 88	2 40	.2 31	23 1107	4.19	5 8	ND	1 73	.4	2 2	133	9.59	.020	2 65	2.81	27	.01	2 .46	.01	.04	1 2	5										
1E 1117	1 99	2 45	.2 35	21 952	4.17	2 9	ND	1 139	.8	2 2	158	11.20	.025	2 82	3.30	67	.01	4 .50	.01	.04	1 2	5										
1E 1119	1 33	6 44	.2 31	18 1111	3.86	3 9	ND	1 90	.7	2 2	87	14.69	.020	2 92	3.84	56	.01	5 .55	.02	.23	1 1	160										
1E 1120	1 98	3 51	.2 48	33 980	4.06	43 6	ND	1 59	.9	2 2	156	13.21	.018	2 47	.77	79	.01	2 .48	.01	.03	1 3	150										
1E 1121	1 28	10 43	.1 11	13 606	3.22	5 5	ND	8 297	.3	2 2	57	4.60	.130	40 33	.97	1936	.01	8 .52	.04	.17	1 2	50										
1E 1124	1 263	2 118	.3 13	25 970	7.57	8 5	ND	1 32	.2	6 2	258	2.45	.084	3 12	1.41	146	.47	26 2.85	.05	.06	2 4	5										
1E 1210	2 55	8 69	.1 8	12 688	3.59	5 5	ND	5 136	.7	2 8	99	2.32	.096	13 11	.65	81	.26	7 1.78	.06	.10	1 1	5										
1E 1212	1 52	4 88	.1 13	19 811	4.94	2 5	ND	2 97	.2	2 2	139	1.91	.132	12 16	1.26	77	.31	7 2.42	.05	.17	1 3	5										
STANDARD C/AU-R	20 57	42 132	7.5 70	32 1061	3.96 39	20 5	39 53	19.0 16	20 60	.48 .091	39 59	.88 177	.09 35	1.94 .07	.14 12	490 1500																

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUL 5 1991 DATE REPORT MAILED: July 10/91 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE MDC (JD)

Noranda Exploration Co. Ltd. PROJECT 9107-036 312 FILE # 91-2581 Page 1

1050 Davie St., Vancouver BC V6E 1N4

SAMPLE#	Hg ppb
IE 111	15
IE 113	60
IE 114	45
IE 116	55
IE 124	15
IE 125	15
IE 126	40
IE 127	30
IE 1123	60
IE 1211	25
IE 1213	40
IE 1214	55
STANDARD C	1400

Done

- SAMPLE TYPE: P1 SOIL PULP P2 SILT PULP HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUL 16 1991

DATE REPORT MAILED: July 18/91

SIGNED BY. *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Hg ppb
IE 117	40
IE 121	30
IE 122	25
IE 123	65
IE 1110	40