To: John Brock
From: A. L. Sangster
Subject: Geology of the M. C. Groups
Date: July 28/1966.

Introduction.

The M. C. groups is in the Sheldon Lakes area on Big Timber Creek, six miles from its confluence with the Ross River. The claims were staked on a limonitic peat bog which gave low geochemical assays for molybdenum.

Geology

Outcrops is non-existant on the M. C groups except along Big Timber Creek and in the area between the creek and the west side of the grid.

The most prominent rock type is a massive, grey to reddish, porphyritic (hornblende, feldspar) andesite. Minor basic varieties were seen. Flow banding is locally developed and the attitudes are highly irregular.

Massive, medium grained, grey, granodiorite outcrops in both the northern and southern parts of the groups. A granodiorite dike, similar in composition to the above, crosses Big Timber Creek at a waterfall outlining the southwest corner of the claim groups and appears to be faulted against a larger intrusive mass. Lack of outcrop above the canyon prevents delineation of this structure. The intrusives typically contain 5 to 10 percent quartz and 15 to 25 percent mafics (both hornblende and biotite).

Exposure along Big Timber Creek indicates a width of about one mile for the northern intrusive. Neither contact is exposed and the amount and nature of the contact alteration was not observed. The southern contact of this intrusive is thought to be immediately north of the peat bog. This is inferred from the presence of chill margin float on line 24W and similar outcrops off the end of the same line. This contact can probably be plotted more accurately when the results of the magnetometer survey have been plotted.

The low ~~flat~~ rusty area from which molybdenum values were obtained is a peat bog which contains local accumulations of flour-like bog limonite typical of such environments. The location was occupied by a small lake in the past and both inlet and outlet channels can be identified. No source for the molybdenum was found.

Conclusion

In the authors opinion, the environment represented by the intrusives on the MC group is not that typical of the large, low grade molybdenum deposits. The intrusive is too basic, shows no significant compositional variation where exposed and appears to be a result of a single stage of intrusion. No siliceous, potash rich dikes or lamprophyre dikes were seen. This does not preclude the existance of a smaller, contact type, molybdenum deposit.

Claims are staked and dated as on this map

Chisholm #1 June 22nd 2-8 June 25th/66

Brock #1 " " 2+ " "

Harman 1—8 " 27th/66

Kulan 1—8 " 28th/66

S Romney

Carson

BONDAR-CLEGG & COMPANY LTD.

geologists • geochemists • analysts

ANALYTICAL WORK SHEET

GEOCHEMICAL

Report Number –

From CHISHOLM

Tested For Cu - Pb - Zn

Date

Weight of Sample Varied

Extraction Fusion by K pyrosulphate

Volume Used 10 ml

Analyst J. L.

SAMPLE NUMBER		Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
OURS	YOURS												
1	Location 3		2		N.D.		24						
2	"		1		N.D		30						
3	"		1		N.D.		16						

DYNASTYEX VCR
JULY 27,1966
MESSAGE TO E O CHISHOLM FROM DR AHO
HERB DONALDSON AND ASSOCIATES HAVE STAKED VEIN TYPE SILVER LEAD
PROPERTY ABOUT 2 MILES NORTH OF GRAYLING LAKE IN PELLY MOUNTAINS
AND I HAVE SUGGESTED THAT WE CAN EXAMINE THIS AT THE SAME TIME
AS THE PETE VERSLUCE PROPERTY UP WHITE CREEK
DONALDSONS REPRSESENTATIVE ALAN MATSON IS BEING ASKED TO CONTACT
THE ATLAS OFFICE IN WHITEHORSE TO ARRANGE SOME MUTUALLY
AGREEABLE TIME
AM SENDING UP LOCATION MAP BY MAIL TODAY
SHOWING IS REPORTED 3000 FEET LONG AND 5 FEET WIDE WITH VALUES
TO 30 OOUNCES PER TON SILVER
END OF MESSAGE (NOT OVERLY IMPRESSED. NOT SPECIAL TRIP.)
HARRY
WHERE IS RAY AND OR AL ARE THEY IN ROSS RIVER
RAY IS ON HIS WAY TO WHITEHORSE AND IS EXPECTED SOME TIME THIS AFTERNOON

OK TH S HARRY
THIS IS MARNI
OVER AND OUT

1100
MATSON ADVISED LUCKYIVE IS ON SEACH CREEK 020 COMPOST CLAIMS.

DYNASTYEX VCR

MAW AHQ

(1) DRILLERS — CAMERON & MC MILL
WIRE LINE — BEYER NOW

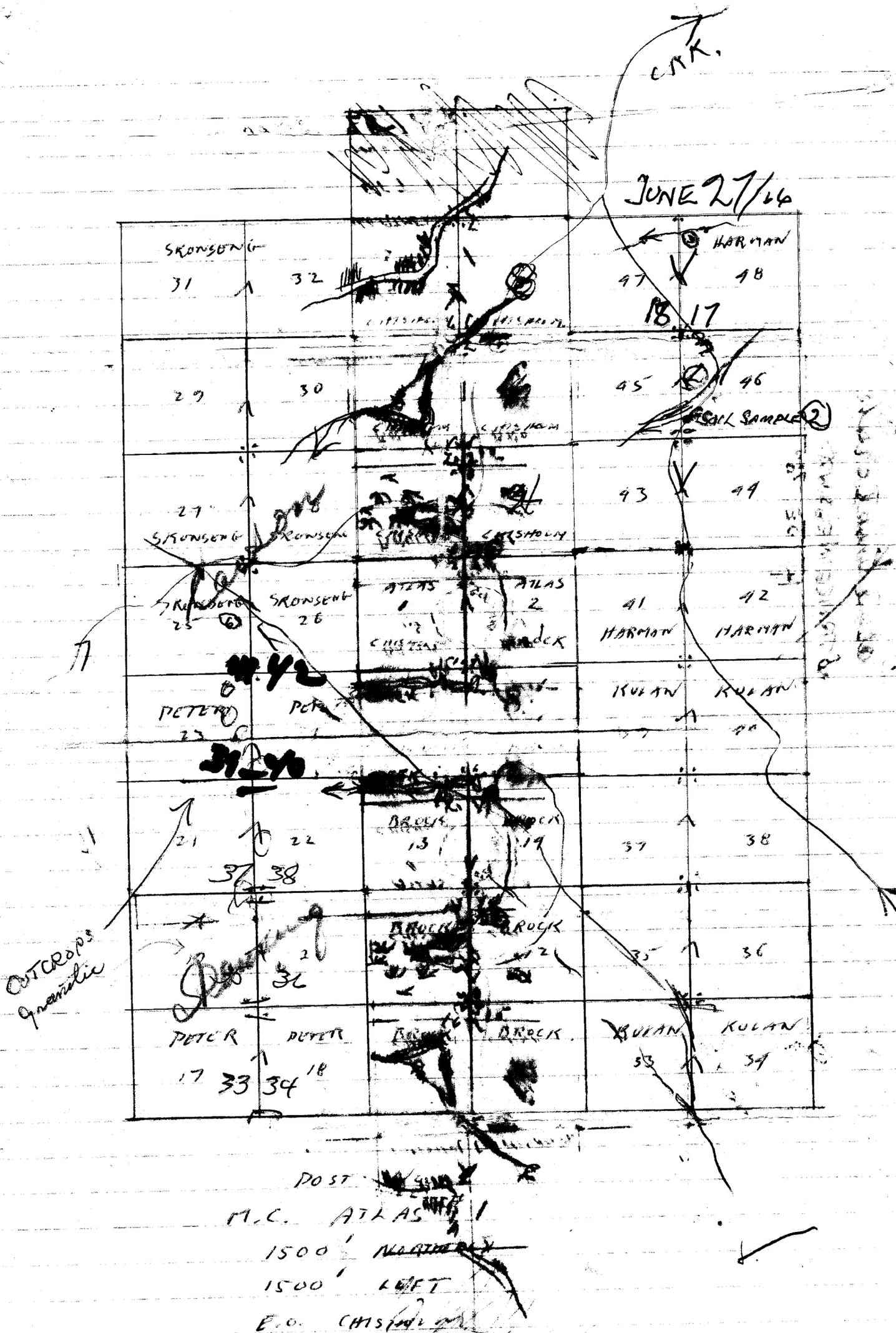
(2) 1 MONTH TO START — 30 DRILLS
ARMAND — NOT SO GOOD SOMETIMES.
SEE ARMAND

(3) MEET ON 6TH AUG.

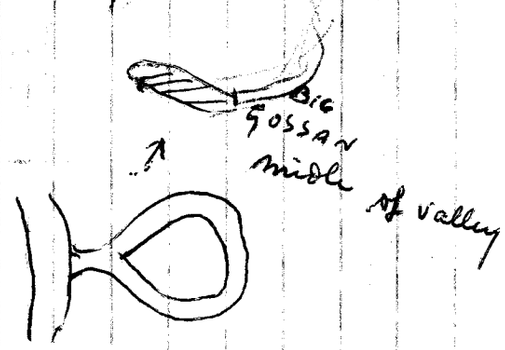
(4) MC QUESTEN — CLOSE 9 AUG.
10 MOSSIE
CHOPPER — 11 ATLAS
(1) MAYO — 12 MAYO
(2) SKONSENG — 13-22 (THM)
START ON 10TH — 24-31 ANVIL
B MAYO — SEPT 1-14 - ATLAS
PROSED

— CHOPPER BE
12TH @ MAYO
FOR AARO (SUBJECT
— TO FORESTRY
— REASONABLE
— SKONSENG @
MAY 12TH
— ALL STUFF
— USE DREDGE CAMP
— WILL LET KNOW BY
LETTER
— ~~[illegible] FROM ROSS.~~
— ~~[illegible] EST~~

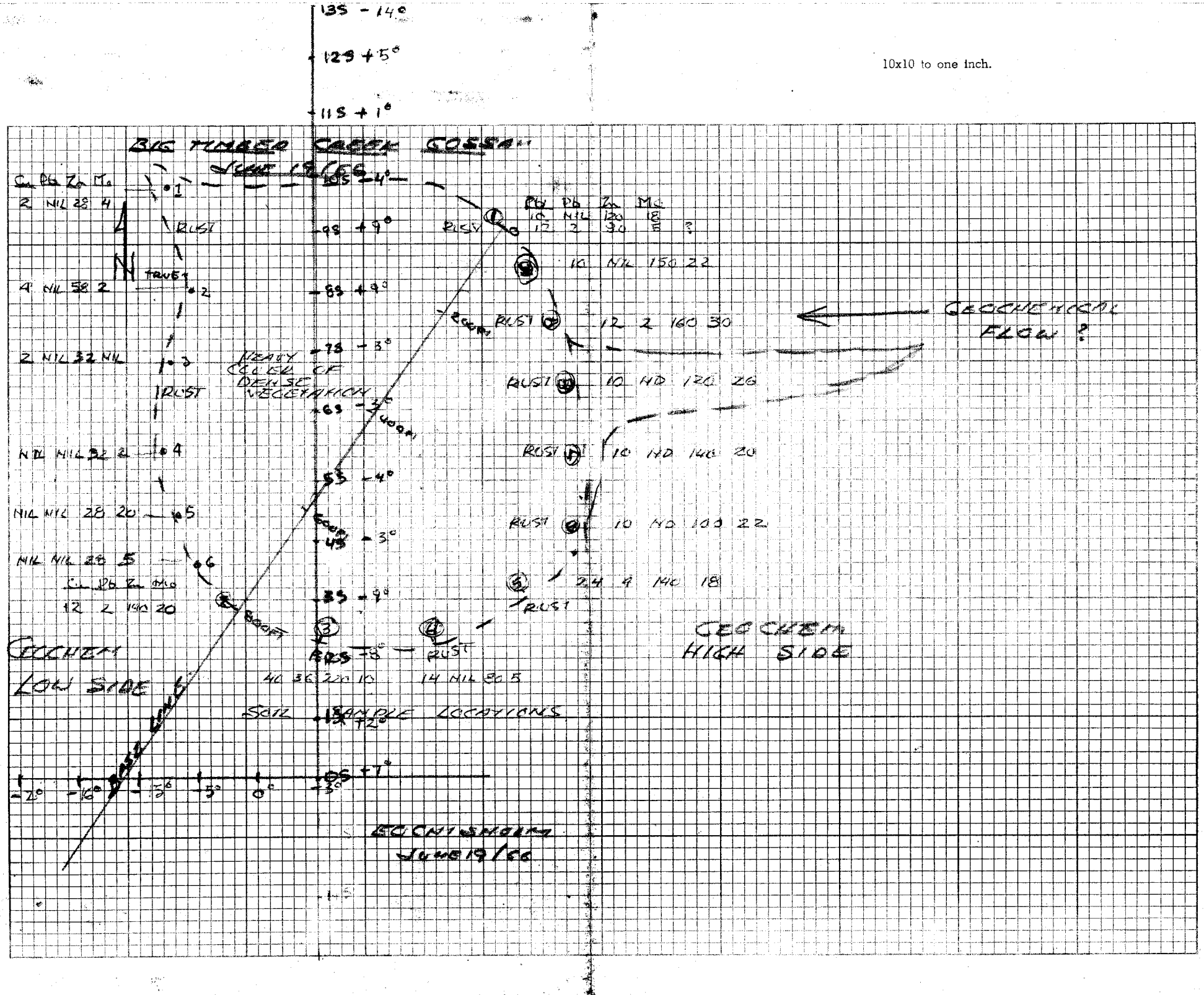
— MG — LISTING COMMITTEE
— SEE JOHN BRUCE — CLAIM
— IN ADDIT TO PROSPECT
— WORK DONE
— PLANNED
— EQUIP — VEHICLE

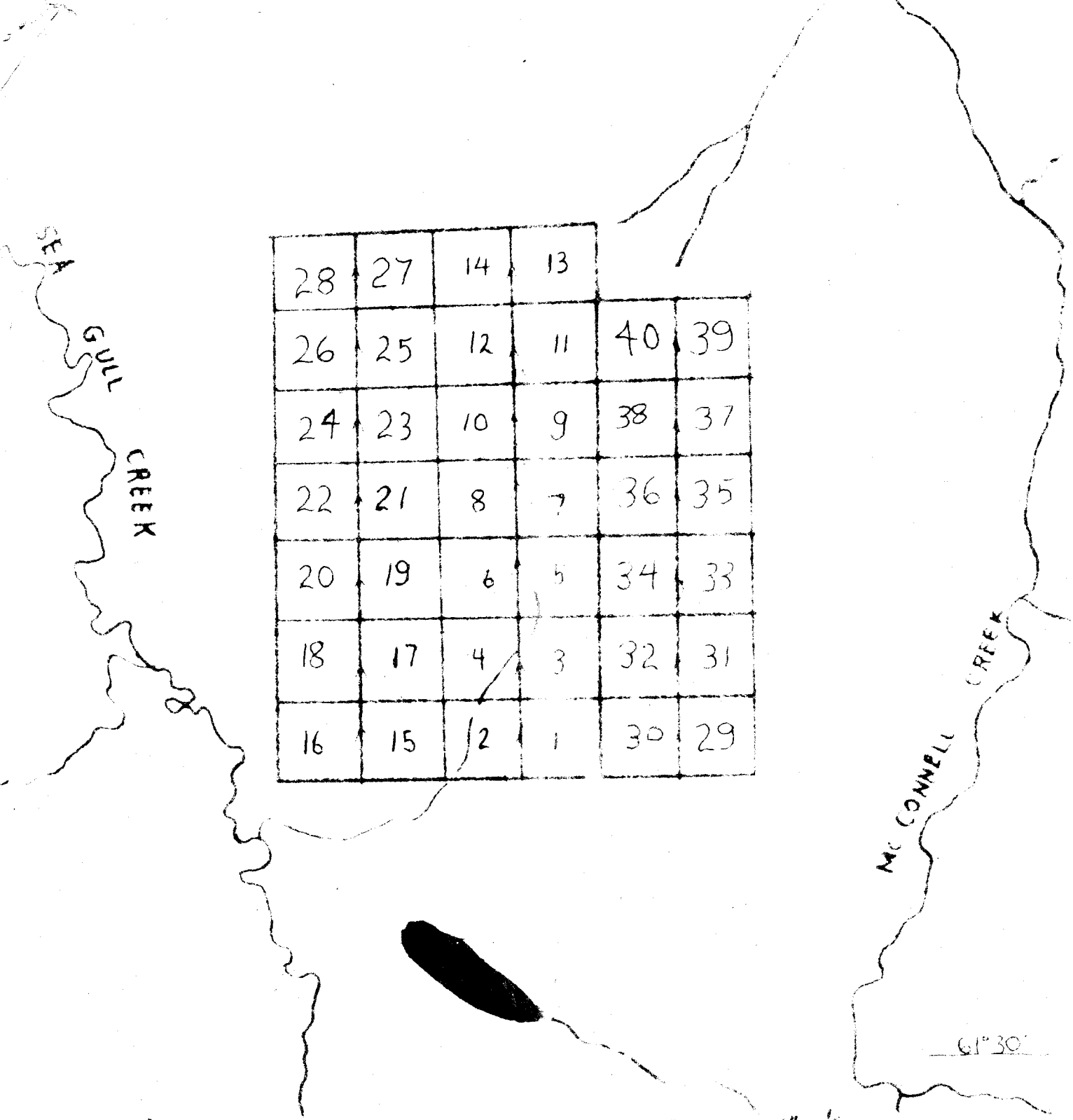

CRK.
JUNE 27/66
SKONSENG
31
32
HARMAN
47
48
18
17
29
30
45
46
SOIL SAMPLE
27
43
49
SKONSENG
ATLAS
1
ATLAS
2
25
26
41
42
HARMAN
HARMAN
PETER
KULAN
KULAN
21
22
13
19
37
38
OUTCROPS
granitic
PETER
DUFFER
17
33
34
18
KULAN
KULAN
53
54
POST
M.C. ATLAS 1
1500' NORTH
1500' LEFT
E.O. CHISHOLM
JUNE 27/66

① above limestone creek
STRIKE NE-SW
DIP SE. 70°



10x10 to one inch.





"Mc. GROUP - 1 — 40 CLAIM SHEET 105 1" = ½ MI

Alan Matson

SEE MAG. SHEET OF THIS AREA - ANOM OVER CLAIMS + SHOWING.

ELG

THIS IS OLD COMINEST SHOW. PITS + TRENCHES -


QUIET LAKE SYNDICATE
CANOL
ROAD
(closed to traffic)
MOUNTAINS
Creek
River

LEGEND

- 2 GRANODIORITE
- 1 ANDESITE
- LIMONITIC PEAT BOG
- OUTCROP
- x FLOAT
- CONTACT
  - DEFINED
  - ASSUMED
- FAULT
- FLOW BANDING

N

ATLAS EXPLORATIONS LTD.

M.C. GROUP

GEOLOGY

ROSS RIVER — SCALE 1" TO 800'

JULY 1966 — A. L. S.

MAGNETOMETER SURVEY - MC GROUP - WORKSHEET

N →

1240	1320	1280	1420	1360	1420	2260	1830	1590	1790	1550	1300	1410
1250	1320	1370	1500	1450	1460	2100	1780	1520	1560	1560	1450	1410
1320	1240	1350	1340	1430	1670	1745	1700	1520	1580	1530	1470	1370
1060	1170	1350	1400	1410	1730	1880	1740	1450	1530	1510	1450	1360
1420	1170	1320	1540	1610	1730	1580	1760	1560	1540	1480	1450	1340
90	1130	1490	500	1600	1790	1760	1700	1550	1510	1500	1420	1310
1210	1130	1360	1430	1140	1500	1520	1620	1540	1510	1470	1400	1310
1210	1120	1350	1500	1300	1500	1780	1620	1530	[illegible]	1440	1400	1290
1290	1100	1340	1340	1470	1760	1780	1550	1390	1470	1400	1390	1300
1200	1120	1350	1370	1520	1740	1350	1490	1440	1423	1350	1370	1280
1240	1180	1320	1450	1560	1670	1660	1430	1420	1400	1380	1350	1250
1220	1270	1430	1480	1560	1740	1548	1310	1430	1310	1260	1330	1230
1320	1340	1410	1450	1540	1200	1200	1240	1350	1320	1320	1330	1250
1330	1340	1330	1400	1490	1570	1620	1250	1270	1270	1300	1300	1250
1230	1230	1270	1310	1470	1360	1630	1250	1210	1200	1250	1300	1270
BL 60S 1330	BL 56S 1230	BL 52S 1200	BL 48S 1150	BL 44S 1440	BL 40S 1530	BL 36S 1620	BL 32S 1250	BL 28S 1180	BL 24S 1150	BL 20S 1260	BL 16S 1300	BL 12S 1290
1230	970	[illegible]	1350	1440	1600	1650	1210	1070	1170	1200	1270	1230
1130	830	1390	1320	1440	1400	1630	1120	1080	1060	1120	1250	1240
1060	930	970	1320	1420	1520	1320	1170	1070	1000	1090		1280
1050	920	920	1310	1430	1570	1510	1130	1050	990	[illegible]		1260
1140	850	1120	1350	1430	1540	1430	1120	1030	990	920	1190	1240
1230	910	1100	1370	1420	1500	1400	1130	1070	1050	930	1030	1200
1360	990	1070	1400	1420	1420	1360	1150	1120	1070	950	1010	1140
1350	1120	1260	1410	1460	1460	1350	1180	1160	1120	1010	1010	1090
1350	1260	1320	1440	1470	1420	1340	1230	1250	1170	1100	1090	1060
1360	1320	1350	1450	1450	1480	1350	1270	1320	1240	1160	1070	1120
1360	1270	1370	1450	1460	1420	1340	1320	1340	1270	1180	1170	[illegible]
1360	1330	1370	1460	1440	1430	1410	1360	1430	1380	1260	1260	[illegible]
1350	1420	1370	1440	1420	1430	1420	1360	1440	1380	1320	1310	1140
1360	1420	1330	1430	1410	1440	1430	1400	1520	1410	1360	1340	1130
1350	1420	1370	1410	1390	1400	1410	1370	1470	1420	1370	1370	1270

1"=50'

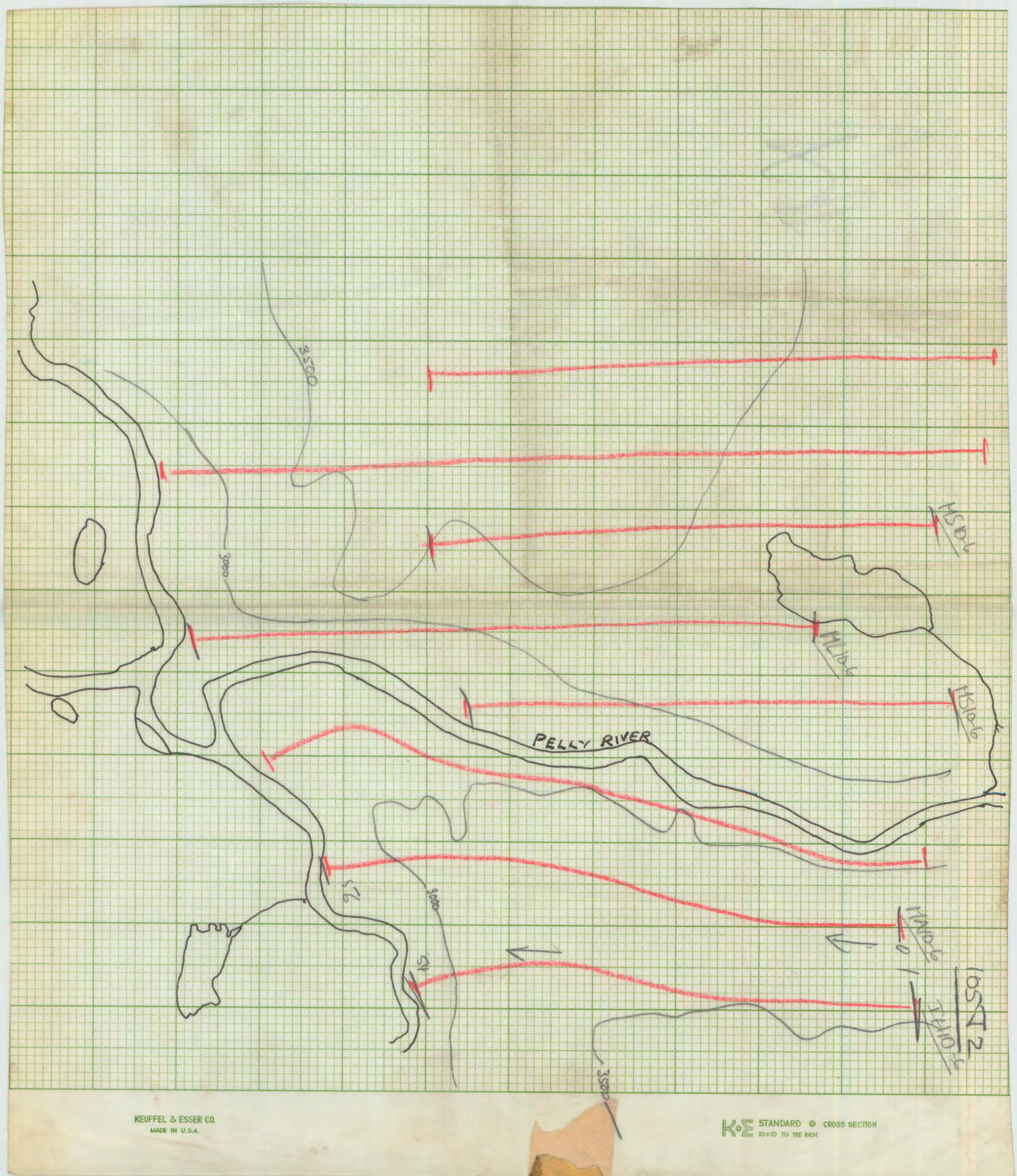
37

3500

4100

MW-1019

RW-1019



KEUFFEL & ESSER CO.
MADE IN U.S.A.

K&E STANDARD ® CROSS SECTION
10×10 TO THE INCH

37

50

35°0'

40°00'

RE-10-19

RE-10-19

RE-10-19

RE-10-19

RE-10-19)
Samples
12, 13, 17
35, 36, 37, 38
(Not taken
Swampy
area.

T 54 N