

GEOLOGICAL REPORT

REGIONAL CONTEXT



42A025E0002 2.14261 HOLMES

010

THE CLAIMS IN QUESTION LIE WITHIN & ALONG THE SOUTHERN & EASTERN CONTACTS OF THE CAIRO SYENITIC STOCK. A SMALLER RELATED SYENITE STOCK EXISTS JUST TO THE EAST OF THIS AREA SEPARATED BY A NORTHWEST TRENDED ZONE OF ARCHEAN SEDIMENTS (CONGLOMERATE & WACKES) AND POSSIBLY A VOLCANIC INHER. THE CAIRO STOCK IS COMMONLY PORPHYRITIC WITH MAFIC CONTENT IN THE 10-30% RANGE. HORNBLENDE, BIOTITE, CHLORITE & MAGNETITE ARE 1MM-5MM IN SIZE IN A BRICK RED TO PURPLE-PINK K-SPAR MATRIX.

TO THE SOUTH OF THE STOCK LIES A RHYOLITE-ANDESITE VOLCANIC SUITE SEPARATING THE TWO LITHOLOGIES IS THE GALER LAKE FAULT, A MAJOR LINEAMENT THOUGHT TO BE THE WESTERN EXTENSION OF THE KIRKLAND LAKE - LARDER LAKE BREAK. THIS BREAK STRIKES APPROXIMATELY 65° AND EVENTUALLY CUTS THROUGH THE SYENITE ON CLAIM 1048458. SUBPARALLEL ZONES OF MINERALIZATION ARE FOUND WITHIN THE STOCK AND IN SURROUNDING COUNTRY ROCKS TO THE SOUTH.

A NUMBER OF DIAMOND DRILL HOLES WERE DRILLED INTO THE VOLCANICS DUE TO A VERY HIGH MAG. READING RECORDED IN THE 1950'S AIRBORNE JUST TO THE SOUTH OF THE CLAIMS. HIGH MAGNETITE CONTENT WAS ATTRIBUTED TO BE THE CAUSE FOR THE ANOMALY IN ONE OF THE VOLCANIC BEDS, THOUGH A HOLE DRILLED IN THE VICINITY ON THE STOCK CONTACT IN 1978 BY MINORCA YIELDED 22' OF "MASSIVE PYRRHOTITE-RICH ANDESITE IN CONTACT WITH THE SYENITE PORPHYRY"

MINERALIZATION IS AS FOLLOWS:

JUL 27 1991

- #1 WHITE & GREY QUARTZ VEINS WITH OR WITHOUT TOURMALINE
- #2 QUARTZ-ANKERITE-CHLORITE ZONES
- #3 HEMATITIC PYRITIC FRACTURING & FAULTING WITH ASSOCIATE BLEACHING OF SYENITE
- #4 SHEAR ZONES CONTAINING ABUNDANT SERICITE + FeS₂
- #5 TRACHYTE DYKE FRACTURING WITH QUARTZ VEIN STOCKWORKS
- #6 PORPHYRITIC SYENITE WITH SOME TRACHYTIC TEXTURES BOUNDED BY MAJOR FAULTS AND ALTERED WITH CHLORITE, FeS₂ & CHERTY GREY VEINING.

MINING LANDS SECTION

A COMMON OCCURENCE WITHIN THE STOCKS IS THE ASSOCIATION OF GOLD AND CHALCOPYRITE. OTHER COMMON ASSOCIATE MINERALS REALISED ON THESE CLAIMS ARE TOURMALINE, MOLYBDENUM, GALENA, FLUORITE AND ~~RECEIVED~~

TOPOGRAPHY, VEGETATION & ACCESS

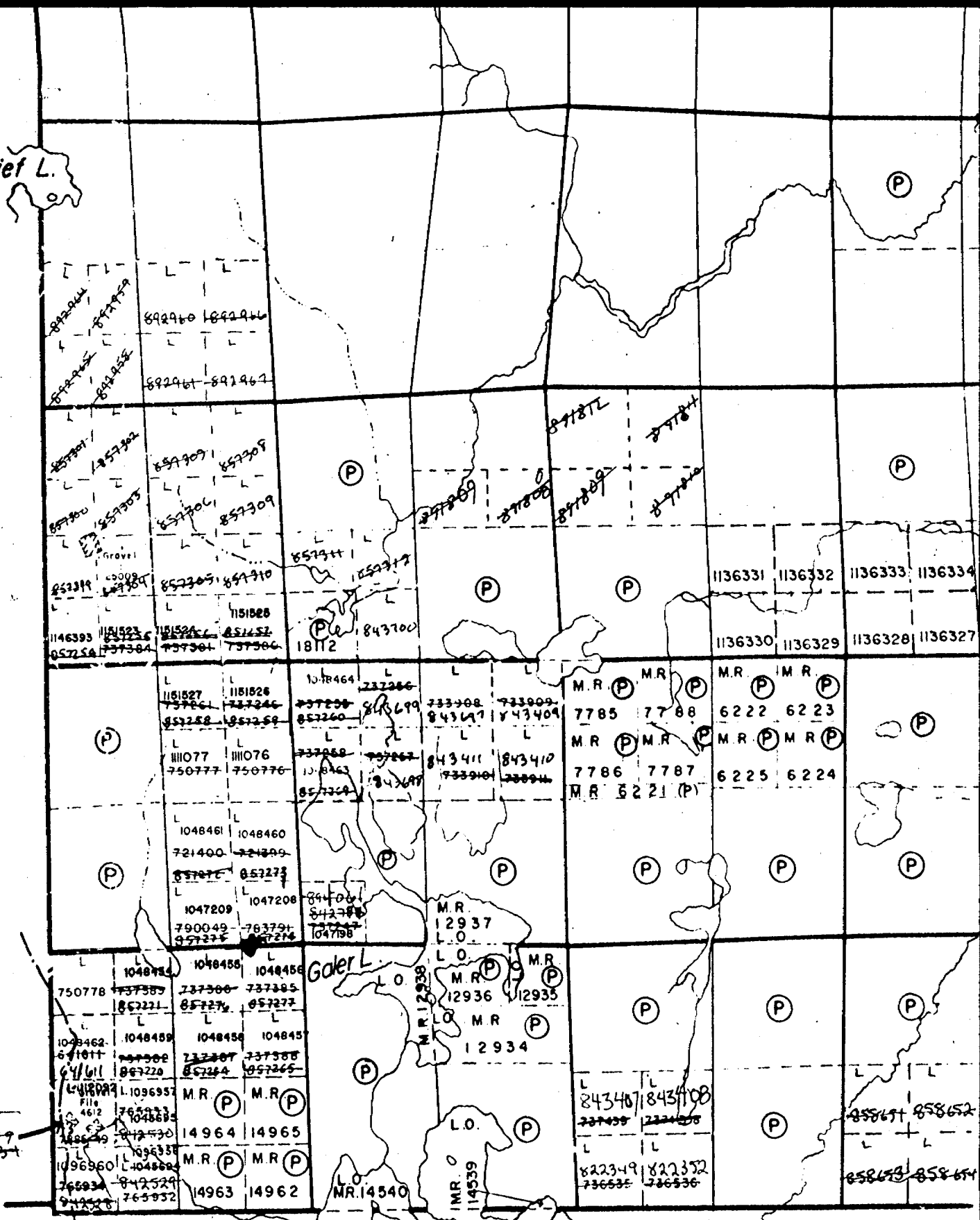
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THE CLAIMS ARE COVERED LARGELY BY SANDY ~~MINING LANDS SECTION~~ OVERBURDEN RANGING UP TO AT LEAST 60' IN DEPTH BUT THOUGHT TO AVERAGE ~10' WITH A THIN LAYER OF HUMUS ON TOP. BOULDERS ARE VERY COMMON IN OVERBURDEN. THERE IS ~5-10% OUTCROP. THE GROUND IS HILLY WITH ~30% SWAMPY LOW GROUND. THE CLAIMS ARE NOW LARGELY CLEAR CUT BUT HAD A COMBINATION OF BLACK SPRUCE, CEDAR, WHITE PINE, ALDAR, BIRCH & POPLAR. ACCESS IS EXCELLENT ON WELL TRAVELLED LOGGING ROADS JUST NORTH OF HIGHWAY

HOLMES TP

Alma Twp.

Chief L.



733954
642524

ASSA

Flavelle T

LOCATION AND ACCESS

The property is located in Lots 10 and 11, Concession 1 and 2 of Holmes Township, Larder Lake Mining Division, as shown in Figure 3 of this report.

More specifically it is located 12.8 km northeast of the town of Matachewan and on the west side of Galer Lake. (Figures 1 and 2)

Access to the property is ideal year round as a good gravel road runs through the claim group. This gravel road runs north off of Highway 66 at Middleton lake. Refer to Figure 2 of this report.

RECEIVED

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CLAIM GROUP

MINING LANDS SECTION

The claims covered by this current survey are shown in Figure 3 of this report and are as follows:

L1047200

L1047209

L1047198

L1048455

L1048456

L1048457

L1048458

The status of these claims were not known at the time of this writing.

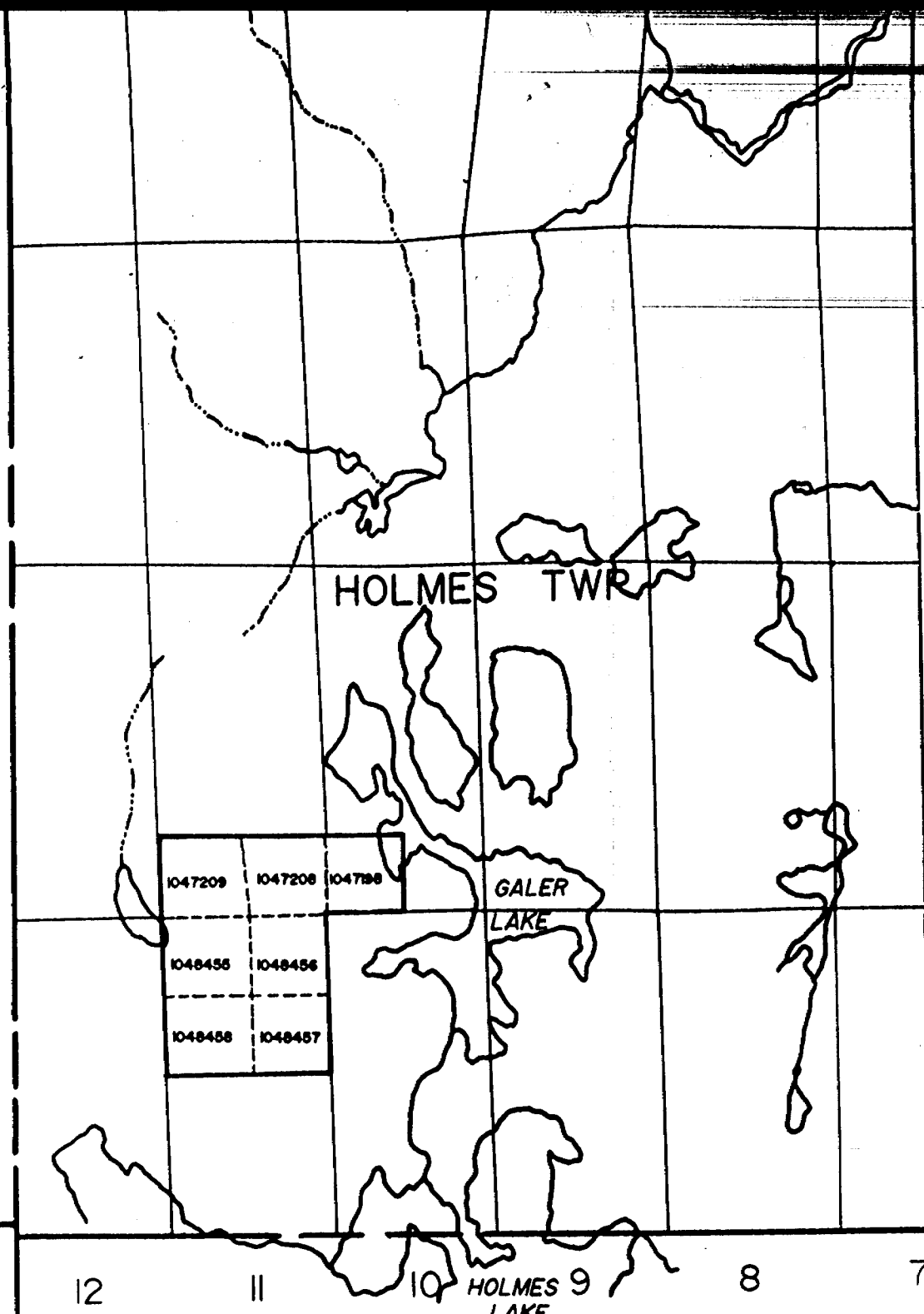
IV

ALMA TWP.

III

II

I



1047209	1047208	1047198
1048455	1048456	
1048458	1048457	

12

11

10

9

8

7

FLAVELLE TWP.



EXSICS EXPLORATION LTD.
 P.O. Box 1888, P4N-7X1
 Suite 13, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-4151

CLIENT: HANSON - SUTTON CLAIMS

PROPERTY: HOLMES TOWNSHIP PROPERTY

TITLE: CLAIM SKETCH

Fig. 3

Date: JULY 1990

Scale: 1"=1/2mile

NTS:

Drawn: P.G.

Interd:

Job No. IP-366



GEOLOGY

A TRENCHING PROGRAM WAS UNDERTAKEN TO FOLLOW UP ON RESULTS FROM THE COMBINATION OF EARLIER STRIPPING AND DIAMOND DRILLING. THE INITIAL TRENCHING/STRIPPING USING A D-7 BULLDOZER PROVED LARGELY INADEQUATE DUE TO OVERBURDEN DEPTH. A 690 JOHN DEERE BACKHOE SUBSEQUENTLY ALLOWED US TO REACH BEDROCK IN ALL BUT ONE TRENCH. DUE TO THE PRESENCE OF LARGE BOULDERS IN THE OVERBURDEN AT TRENCH #22 (SEE GEOLOGICAL COMPILATION MAP FOR INDIVIDUAL TRENCH NUMBERS), THE TEETH WERE LEFT ON THE BACKHOE BUCKET. THIS NECESSITATED LATER CLEANING BY HAND. DEEP CUTS IN THE UNEVEN BEDROCK PROFILE COULD NOT ALWAYS BE REACHED. THE LARGEST PROBLEM WAS EXTREME RAINFALL IN SUMMER OF 1990. MANY TRENCHES WERE IN FAIRLY LOW AREAS AND THOUGH OVERBURDEN GENERALLY WAS 5-15 FEET IN DEPTH, PUMPING OF WATER WAS NEEDED TO SAMPLE BOTTOMS. THIS ARDUOUS TASK COULD NOT ALWAYS BE PERFORMED. CHANNEL SAMPLING BY ROCK SAW FOLLOWED.

AN I.P. GEOPHYSICAL SURVEY AND A MAG SURVEY PROVIDED FOR MANY OF THE TARGETS ATTEMPTED. A GRID SYSTEM WAS PUT IN PLACE WITH LINES EVERY 200 IN E-W DIRECTION AND STATIONS EVERY 100' N-S. THE FULL RESULTS OF THE I.P. SURVEY ARE BEING BROUGHT FORWARD FOR ASSESSMENT CREDIT UNDER THE NEW MINING ACT REGULATIONS BUT SOME RESULTS ARE INCLUDED HEREIN AS THEY HAVE A BEARING ON BOTH GEOLOGICAL INTERPRETATION AND TRENCHING.

RESULTS:

I.P. SURVEY

THE I.P. SURVEY SHOWED QUITE WELL THE WIDE ALTERATION ZONE IN TRACHYTE ON LINES 1600W & 1800W FROM 2N TO 2S (SEE CHARGEABILITY PROFILE). THIS ZONE COULD EXTEND TO 2000W BUT UNFORTUNATELY A DIABASE DYKE (SUBSEQUENTLY FOUND VIA TRENCHING) RUNS ALONG THIS LINE AND HAS OBSCURED THE READINGS. THE CHARGEABILITY PROFILE CLEARLY SHOWS THE RHYOLITE-SYENITE

CONTACT WHEREIN IS LOCATED THE KIRKLAND LAKE-LARDER LAKE BREAK AT LINE 0, 11S TO LINE 800W, 13½S. THE BEST CONDUCTOR APPEARS NEAR THIS BREAK AT LINE 0, 9½S (AT DEPTH). WE PUT ACROSS A TRENCH ON SURFACE (DISCUSSED LATER) THE FAULT COULD CONTINUE, ACROSS THE CLAIMS SURVEYED, TO LINE 2400W, 18½S AS INDICATED BY A WEAK CONDUCTOR (COLOURED GREEN). THIS CONDUCTOR AND THE OVERLAPPING MAGNETIC LOW (SEE MAGNETIC SURVEY) DO NOT CORRESPOND WITH THE UNMINERALIZED FAULT STRIPPED BY SYLVA IN 1979 AND FOUND TO BE PRODUCING WATER. WE PUT A TRENCH ON EITHER SIDE OF THIS FAULT AND FOUND WATER PRODUCED IN BOTH (SEE COMPILATION MAP II). STRIPPING PRODUCED WHAT MIGHT BE THE FAULT AT 1100W, 16S WHERE A QUARTZ VEIN CARRYING TOURMALINE HAD PREVIOUSLY BEEN REALISED. A CHERTY GREY SILICIFIED VEIN FORMS THE WALL ROCK OF A FAULT (AND ASSAYED OVER 1.2 GRAMS/TONNE OVER 0.3 METRES), AND IS ADJACENT TO A PORPHYRITIC DYKE. THIS DYKE HAS SIMILARITIES TO ONE VIEWED THIS SUMMER ON THE SOUTH SHORE OF GALER LAKE WHERE A GOLD SHOWING IS LOCATED IN THE FAULT ZONE (WIDE HERE, HEAVY SHEARING - SEE HOLMES-BURT MAP #2078). SEVERAL OTHER ZONES WERE IDENTIFIED BY THE I.P. SURVEY AS BEING OF INTEREST AND MOST WERE TRENCHED WITH A BACKHOE.

MAGNETIC AND GEOLOGICAL SURVEY

A PROTON MAGNETOMETER AS SUPPLIED BY SERVICES EXPLORATION WAS USED OVER A 5 DAY PERIOD. CLAIM 1047198 WAS NOT SURVEYED DUE TO TIME LIMITS AND GENERAL LACK OF I.P. RESPONSE. LINE 1600W, Badeline WAS THE POINT USED AS A REFERENCE POINT. HERE READINGS WERE TAKEN AT THE BEGINNING AND END OF EACH DAY WITH THE DIFFERENCE FROM THE AVERAGE PLOTTED. GENERALLY A HIGHLY MAGNETIC ZONE IS FOUND IN THE NORTHWEST QUADRANT OF THE AREA OF INTEREST. THIS SYENITE WHICH IS FULL OF MAGNETITE, BIOTITE, AND CHLORITE IS COLOURED BROWN, AND IS OFTEN RUSTED, HAS A VERY SHARP NORTH-SOUTH CONTACT ON LINE 1700W, 15N-2N AND AT LINE 1200W, 13-15S. THIS MOST LIKELY IS A 360° FAULT WHICH HAS UP THRUST ONE SIDE OR THE OTHER. THIS EXPLAINS THE SHARP CHANGE IN THE I.P. PROFILE OF THE LARDER LAKE-KIRKLAND LAKE BREAK, DESCRIBED ABOVE, FROM 0W, 11S ~~AND~~ 800W, 13½S TO POINTS WEST OF THERE. IT ALSO EXPLAINS THE 360° SWAMP AT 1000W, 15S-17S. THE RHYOLITE OUTCROPS ONLY ON THE WEST SIDE OF THIS FAULT AND THUS NO COMPARISON CAN BE MADE WITH THAT TO THE EAST. THE SYENITE ON EITHER SIDE IS DIFFERENT GENERALLY, AS THAT TO THE WEST IS FINER GRAINED, CONTAINS MUCH LESS MAFIC MATERIAL, MORE HORNBLENDE, LESS CHLORITE AND MAGNETITE (ALTHOUGH SOME EXISTS), AND NO BIOTITE. THE ONLY RUSTING IS OF THE TRACHYTE ZONE (SITE #7). OF MAJOR SIGNIFRANCE IS THE OFFSETTING OF THIS 360° FAULT AT 1S TO 2N BETWEEN LINES 1200W TO 1700W (OR 500') BY THE SITE #7 DEFORM-

ATM) STRUCTURE. THIS MAJOR MOVEMENT (SINISTRAL) HAS IMPLICATIONS FOR
ORE DEPOSITION. A LIKELY STRIKE DIRECTION WOULD BE 80° (THAT OF THE VEINS).
OF INTEREST ARE THE STRONG MAGNETIC LOWS AT 2000W, 3 1/2'S AND AT
400W, 1S - 200W, BASELINE AND MODERATE LOWS AT 1000W, 2'S AND 1400W,
2 1/2'S WHICH ALIGN THEM UP AT 80°. THIS COULD BE A NEW ZONE.

ANOTHER PARALLEL ZONE OCCURS @ 1000W, BASELINE THROUGH 1200W, 1/2'S AND
THROUGH TO 2200W, 1S. YET ANOTHER PARALLEL ZONE IS @ 800W, 3N THROUGH
1400W, 1 3/4N AND 1800W, 1/2N.

THE MAG SURVEY BACKS UP THE I.P. SURVEY WITH THE RHYOLITE/SYENITE
CONTACT AND THE CONGRUENT KIRKLAND LAKE - LARDER LAKE FAULT CLEARLY
VISIBLE. THE EXTENSION OF THE FAULT WESTWARD CAN BE SEEN BY A MAGNETIC
LOW AT 1200W, 1/6S THROUGH TO 2400W, 1/9S. THIS COULD BE A ZONE OF HIGH
FLUID FLOW IN A SHEAR ZONE WITH POTENTIAL FOR A MINERAL DEPOSIT. UNFOR-
TUNATELY, EITHER THE ROAD COVERS MOST OF THIS STRIKE OF 1200', OR SWAMP
COVERS IT. WE COULD ONLY TRENCH ON THE LOCATION ALREADY NOTED (LINE
1100W, 1/6S) WHERE THE MAGNETIC LOW IS NOT AS PROMINENT.

AN INTERESTING FEATURE OF THE MAG SURVEY IS THAT IT DOES NOT
PICK UP EITHER THE DIABASE DYKES ON LINES 2000W (EXCEPT FOR A WEAK
HIGH AT 6 1/2N) OR 1200W (EXCEPT FOR 1N), OR THE RHYOLITE/SYENITE CONTACT
(OTHER THAN FROM 0710 1/2S TO 1000N, 1SS. OBVIOUSLY THE SYENITE (THAT
CONTAINING MAGNETITE) AND THE RHYOLITE ARE EQUALLY NON TO WEAKLY MAG-
NETIC. THE RHYOLITE DOES HOWEVER CONTAIN TWO STRONG, OPPOSITE ANOMALIES.
AT THE EXTREME SOUTH (LINES 1200W-2000W @ 24S-26S) IS A VERY STRONG
MAG LOW (STRONGEST ON PROPERTY). THIS COULD BE EXTENDED TO LINE D, 21 1/2S
STRIKING PARALLEL TO THE SYENITE - RHYOLITE CONTACT. THE I.P. SURVEY DID
NOT COVER THIS AREA IN THE EXTREME SOUTH AS IT WOULD HAVE REQUIRED
ADDITIONAL LINE CUTTING INTO ADJACENT CLAIMS. A SHEAR ZONE IS A
POSSIBILITY @ 80° OR 75°. THE SECOND ANOMALY IS A MAG HIGH (HIGHEST ON
THE PROPERTY) AT LINE ON TO LINE 1000W ON THE EXTREME SOUTHERN EDGE.
POSSIBLY A BIF IS LOCATED IN THE VOLCANICS OR A MAFIC VOLCANIC UNIT
IS PRESENT. THE TREND IS AGAIN EAST-WEST; A DIABASE IS THUS
UNLIKELY THE CAUSE.

THE GEOLOGICAL MAPPING SUCCESSFULLY OBTAINED 5-10% OUTCROP IN
THE SYENITES BUT UNFORTUNATELY THE RHYOLITES OF THE SOUTH ARE ENTIRELY
COVERED BY OVERBURDEN AND LOW, SOMETIMES SWAMPY, GROUND IS CHARACTERISTIC.
TWO NEW MINERALIZED OUTCROPS WERE DISCOVERED DURING THE 1990 PROGRAM.
THEY ARE SHOWN ON GEOLOGICAL COMPILATION MAP #1. WEST OF THE ACCESS
LOGGING ROAD AND NW OF "SITE #6" AN OUTCROP OF SYENITE IS LACED
WITH 90° STRIKING FRACTURES WHICH HAVE HEMATIZED AND/OR SILICIFIED THE
COUNTRY ROCK AND BROUGHT IN 5-8% FINELY DISSEMINATED FeS₂. WE OB-

TAKEN ASSAYS AS HIGH AS 1.35 g/t over 0.2 metres. THESE FRACTURES CONTINUE ACROSS THE ROAD. THE SECOND SHOWING HAS SIMILAR FRACTURES IN SPENITE BUT THE WIDTH OF THE RESULTANT SHEARING IS UP TO (4 FEET) 1.2 METRES WIDE AND THE ALTERATION INCLUDES 5% CHALCOPYRITE, 5% FeS₂, 1% GALENA, AND SOME MOLYBDENUM. THE BEST ASSAY ATTAINED IN THIS 100° STRIKING ZONE WAS 8.84 g/t OVER 0.5 METRES.

TRENCHING:

THE RESULTS OF TRENCHING (CONSULT GEOLOGICAL COMPILATION MAPS I & II & INDIVIDUAL SITE MAPS) ARE AS FOLLOWS:

TRENCH 1 - PURPOSE - TO TRENCH POSSIBLE SHEAR - SAMPLES WERE PREVIOUSLY TAKEN ON WHAT COULD BE BOLLERS ALIGNED AT 80° AND ASSAYING UP TO 0.84 g/t OVER 0.3 METRES.

- RESULTS - NO MINERALIZATION BUT A 10 METRE SHEAR AT 90° STRIKE CONTAINS BARREN WHITE QUARTZ

TRENCH 2 & 3 - PURPOSE - 2 360° TRENCHES WERE FLAGGED TO CUT MINERALIZATION FURTHER WEST THAN ALREADY PROVEN; BACKHOE OPERATOR TRENCHED TO OPPOSITE FLAGS

- RESULTS - TRENCH 3 IS TOTALLY IN WATER; TRENCH 2 CONTAINS A TRACHYTIC SHEAR WHICH CONTAINS 10% FINE FeS₂ & ABUNDANT HEMATIZATION; ASSAYS OF 0.5 g/t OVER 0.7 METRES; NORTHERN MOST PART IS IN WATER

TRENCH 4 - PURPOSE - TO INTERSECT SOUTHERN MOST CHERTY VEINING OF DDH 89-3

- RESULTS - THE SOUTHERN PORTION IS IN WATER; A 0.2 METRE QUARTZ VEIN CONTAINING 10% CHALCOPYRITE STRIKES PARALLEL TO THE CHERTY VEINS BUT ASSAYED ONLY 0.9 g/t

TRENCH 5 - PURPOSE - TO FURTHER DELINEATE ALTERATION ZONES - RESULTS - SEVERAL WIDE ZONES WERE UNCOVERED. THAT WHICH IN DDH 89-4 ASSAYED 2.2 g/t OVER 1.2 METRES WAS PICKED UP ON THE SOUTHERN END WITH BEST ASSAYS BEING 0.62 g/t OVER 0.3 METRES AND 0.61 g/t OVER 0.5 METRES. HEAVY ALTERATION IS PREVALENT AND 5-10% FeS₂ IS NOTED. TWO NEW ZONES 17 & 13 METRES NORTH OF THIS SOUTH ZONE ARE 2.2 AND 1.2 METRES WIDE. THE ONE FURTHER NORTH AVERAGES 0.86 g/t OVER THE 2.2 METRES WITH A HIGH OF 1.49 g/t OVER 0.3 METRES. THE OTHER ONE HAS A HIGH OF 1.55 g/t OVER 0.3 METRES CENTRED ON A FAULT.

TRENCH 6 - PURPOSE - FOLLOW UP ON DDH 89-3 ASSAYS AT BEGINNING OF HOLE.

- RESULTS - THIS TRENCH UNEARTHED A VERY HIGHLY ALTERED TRACHYTE

WITH TWO VERY STRONG FAULTS ON THE SOUTH CONTACT EMANATING WATER. THIS ZONE IS AT LEAST 8 METRES WIDE UP TO THE NORTH WHERE IT IS UNDER WATER. THE ZONE AVERAGES 0.92g/t OVER 6.2 METRES ON THE NORTH (0.04oz/t OVER 20.3 FEET) WITH HIGHS OF 2.95g/t OVER 0.3 METRES AND 1.51/0.3. SEVERAL CHERTY GREY VEINS ARE PRESENT.

TRENCH 7 - PURPOSE - TO EXTEND THE KNOWN ALTERATION OF DDH 89-3 NORTH AND TO UNCOVER THE MINERALIZATION ON SURFACE AT THE HOPE COLLAR.

- RESULTS - THE SOUTHERN PART OF THE TRENCH IS IN WATER AND ALTHOUGH REPEATED ATTEMPTS WERE MADE TO UNCOVER BEDROCK, WATER IN-FLOW WAS TOO HEAVY IN THIS ERODED AREA. THE TRENCHING NORTH UNCOVERED MANY NARROW CHERTY GREY VEINS AND TRACHYTE SHEARS. LOW ASSAYS WERE RETURNED SEVERAL AREAS WHICH ARE ON STRIKE WITH KNOWN ZONES ARE ERODED TO CREVICE DEPTHS. DIGGING OUT OF THESE AREAS IN THIS ROUGH TOPOGRAPHY COULD NOT BE COMPLETED DUE TO TIME CONSTRAINTS.

TRENCHES 8, 9, 10, 11 - PURPOSE - AS ABOVE (DDH 89-3)

- RESULTS - THESE TRENCHES WERE ALL UNDER WATER. THE INITIAL HOPE WAS THAT TRENCH 8 & 9 AT LEAST WERE ON DRY GROUND AND 6' OF OVERBURDEN REMOVAL MIGHT NOT LEAD TO MUCH WATER INFILLING. DESPITE WATER PUMP USE, THE INFILLING WAS TOO HEAVY

TRENCH 12 - PURPOSE - SAME AS ABOVE

- RESULTS - MOST OF THE OUTCROP IS DABASE WHICH HAS ALTERED THE SYENITE QUITE STRONGLY. A 10 METRE CHERTY WHITE QUARTZ VEIN WITH 52 FINE FeS_2 AND 26 CHALCOPYRITE STRIKES 80°. HIGHEST ASSAY ON IT WAS 0.3g/t

TRENCH 13 - PURPOSE - EXTENSION OF MINERALIZATION EAST & SOUTH

- RESULTS - THE SYENITE IS HIGHLY FRACTURED CARRYING NUMEROUS TRACHYTIC SHEARS. THE BEST ASSAY WAS 0.96/0.3 ON THE SOUTHERN MOST EDGE WHERE A SHARP DROP-OFF OF 6' OCCURS (FAULT) AND WATER HAS INFILLED.

TRENCH 14 - PURPOSE - TO EXPOSE BEDROCK TO EXTEND ZONES SOUTH.

- RESULTS - BASIC SYENITE (UNALTERED) WAS UNEARTHED

TRENCH 15 & 16 - PURPOSE - LOCATED TO TEST FOR POSSIBLE TRACHYTIC ZONE (BOULDER FOUND NEXT TO SKIDDER ROAD TO THE SOUTH CONTAINED 10% FeS_2 & ASSAYED 0.5g/t & APPEARED SIMILAR TO THE OUTCROPS ON THE ROAD.

- RESULTS - UNALTERED SYENITE NOT RUSTY IN APPEARANCE AND WITHOUT LARGE

MAGNETIC CRYSTALS PRESENT; NO STRUCTURE PRESENT.

TRENCH 17 - PURPOSE - EXPOSE POSSIBLE SHEAR ZONE NOTED IN I.P. SURVEY.

- RESULTS - 20' OVERBURDEN; DID NOT HIT BEDROCK.

TRENCH 18 - PURPOSE - TO EXPOSE ANY STRUCTURE EVIDENT DOWN HILLSIDE AND ON STRIKE WITH 2 E-W. TOPOGRAPHIC LOWS TO THE WEST

- RESULTS - CONSULT MAP # 15; A CONTACT ZONE BETWEEN THE MAGNETITE AND BIOTITE RICH, RUSTY SYENITE AND TRACHYTIC PORPHYRITIC SYENITE WAS UNCOVERED AND STRIKES 65° PARALLEL QUARTZ AND CHERTY VEINS OCCUR. CHALCOPRITE IS PRESENT (~5%). BLEACHING & ALTERATION IS NOTEABLE. AN INTERESTING NOTE TOO IS THE PRESENCE OF ASBESTOS IN THE SYENITE ALONG FRACTURES; THE BEST ASSAY WAS 0.8g/t OVER 0.5 METRES.

TRENCH 19 - PURPOSE - UNCOVER ZONE NEAR AT BEGINNING OF 89-~~8~~ CHARACTERIZED BY QUARTZ-ANKERITE.

- RESULTS - SEVERAL THIN QUARTZ-ANKERITE VEINS WERE UNCOVERED. A WIDER FRACTURED ZONE OF HIGH HEMATIZATION AND QUARTZ-ANKERITE VEINLETS IS PRESENT WHICH ASSAYS 0.95g/t OVER 1.0 METRE. THE BEST OUTCROP ASSAY WAS 2.13/0.2 WHERE THERE IS HEAVY FeS_2 CONCENTRATIONS. PERHAPS THE MOST INTERESTING RESULT WAS THE UNCOVERING OF A HUGE BOULDER WHICH IS COMPLETELY MINERALIZED CHERTY VEINING AND SILICIFICATION CONTAINING 10% FeS_2 & 2% GALENA. THIS MIGHT EXPLAIN THE RESULTS PREVIOUSLY REPORTED FROM THE NEARBY PIT. WHERE IT IS FROM IS UNCERTAIN. THE MINERALIZATION PRESENT IS NOT ECONOMICALLY AND THE WIDER QUARTZ-ANKERITE FROM THE DDH MUST BE A FUNCTION OF PINCHING & SWELLING.

TRENCH 20 - PURPOSE - TO FURTHER DELINEATE VEINING FROM DDH-2

- RESULTS - SYENITE IS UNALTERED EXCEPT AT THE SOUTH END WHERE A SUDDEN DROP-OFF OCCURS; 3.4% FeS_2 IS ALONG 20° FRACTURES BUT DID NOT RUN.

TRENCH 21 - PURPOSE - TO INVESTIGATE THE BEST I.P. CONDUCTOR ON THESE CLAIMS ON SURFACE (THOUGH IT IS AT DEPTH) TO FIND ITS EXPRESSION.

- RESULTS - THE SYENITE IS INTENSELY FOLIATED, HEMATIZED AND SHEARED (ALONG CHLORITE SEAMS OF 1/8") ON THE SOUTH SIDE OF THE TRENCH. THE ONLY MINERALIZATION FOUND WAS A 0.7 METRE WIDE WHITE TO CLEAR QUARTZ VEIN CONTAINING 2% FINE FeS_2 THAT ASSAYED 0.16g/0.7m.

TRENCH 22 - PURPOSE - TO INVESTIGATE THE RHYOLITE ON A SMALL HILL & TO FIND

ANY EXPRESSION OF THE LARDER LAKE - KIRKLAND LAKE FAULT (BREAK)
- RESULTS - NO BEDROCK WAS FOUND; THE HILL IS ALL GLACIAL TILL.

TRENCH 23, 24 & 25 - PURPOSE - TO INTERSECT THE FAULT IN THE CUTDIP IN ORDER TO SEE IF IT BECOMES MINERALIZED ALONG STRIKE.

- RESULTS - THE FAULT WAS INTERSECTED IN #23 & #24 AND PRODUCES WATER. ALL THREE TRENCHES WERE IN THE APHANITIC PALE GREY-LIGHT GREEN TO WHITE RHYOLITE AND NONE CONTAINED PYRITE OR ALTERATION ZONES, ALTHOUGH SHEARING AND FRACTURING WERE USQUITOUS.

TRENCH 26 - PURPOSE - TO CHECK I.P. CONTACT NOTED IN REPORT.

- RESULTS - DIABASE DYKE UNEARTHED

OTHER TRENCHING - ON CLAIM 1047198 (TO THE NORTHEAST OF THE MAGNETIC & GEOLOGICAL SURVEYS), A TRENCH WAS COMPLETED AS ORIGINALLY PROPOSED AT THE SITE OF A GROUPING OF ANCIENT TRENCHES. THE OVERBURDEN WAS TOO DEEP AT THE FIRST SITE AND 15' EXISTED AT THE SECOND. THE MINERALIZED BOULDERS FOUND EVERYWHERE IN THE IMMEDIATE AREA PROVED NOT TO BE FROM HERE AS UNALTERED PINK SYENITE WITH FRESH HORNBLENDE WAS FOUND.

ON CLAIM 641611, TRENCHES WERE DUG ON EITHER SIDE OF THE ROAD AT SITE #6 IN ORDER THAT THE HIGH-GRADE FRACTURE SYSTEM PREVALENT THERE MIGHT BE EXTENDED AND SAMPLED. THE BEDROCK TOPOGRAPHY IS VERY UNEVEN HERE AND NOT ALL CREVICES COULD BE FREED OF HUGE BOULDERS, HOWEVER TRENCHES WERE THOUGHT BETTER HERE THAN IN THE FOREST AS VALUABLE TIMBER WOULD HAVE HAD TO BE DESTROYED. - RESULTS - A 30.30 g/t OVER 0.2 METRES ASSAY WAS ATTAINED ON THE EAST SIDE OF THE ROAD (N.1 OZ/t) OPPOSITE TO THE 13.4 g/t OVER 0.2 METRE SAMPLE (0.396 OZ/t) ON THE WEST SIDE. AS WELL, SEVERAL NARROW QUARTZ-CHERTY VEINS AND FRACTURES WITH ABUNDANT FeS₂ ASSAYED ANOMALOUSLY (1.35%) FURTHER TO THE NORTH.

TRENCH 27 - PURPOSE - TO EVALUATE QUARTZ-TOURMALINE VEIN @ 65° STRIKE. RESULTS - THE REAL LARDER LAKE - KIRKLAND LAKE BREAK WAS THOUGHT TO BE INTERSECTED (ON STRIKE WITH MAG & I.P. RESULTS INDICATIVE OF ZONE) CHERTY GREY VEINING ALONG PORPHYRITIC SYENITE DYKE & RHYOLITE CONTACT CARRIES 102 FINE DISSEMINATED FeS₂ & QUARTZ VEIN INTERSECTS THIS A LITTLE EAST (NOT VISIBLE) LOW 0.5 g/t ASSAYS IN CHERT.

CONCLUSIONS & RECOMMENDATIONS:

THE I.P. SURVEY INDICATES A WIDE ANOMALY AT LEAST 400 FEET X 400 FEET AND LOCATED ON LINES 1600W & 1200W CENTRED ON THE BASE LINE OVER THE ZONES OF CHERTY VEINING AND TRACHTYIC SHEARING AND HEAVY ALTERATION. A DIABASE ON 2000W PRECLUDED EXTENDING IT WEST. A PLUNGE TO THE ZONE IS NOT YET APPARENT. A WEAK I.P. ZONE ON LINE 800W IS NOTED AT 1N & 2N, MAY EXTEND THE ZONE EAST. THE I.P. ZONE SURVEY COINCIDES WITH THE MAGNETIC SURVEY TO SHOW THE SYENITE-RHYOLITE CONTACT ALONG WHICH THE KIRKLAND LAKE-LARDER LAKE BREAK RUNS. THE BEST I.P. CONDUCTOR IS LOCATED NEAR THIS FAULT, AT DEPTH, ON LINE O. THIS SHOULD BE DRILLED. AN I.P. TRACE OF ANOMALOUS CONDUCTOR HIGHS EXTEND THE FAULT TO THE EAST COINCIDING WITH MAG LOWS PARTICULARLY AT LINE 1200W, 16S AND 1600W, 17S. THE TWO POINTS RUN THROUGH A VERY ANOMALOUS MAG LOW AT 1400W, 16 1/2 S. THIS WOULD BE AN EXCELLENT DRILLING TARGET (TRENCHING CANNOT BE CARRIED OUT DUE TO SWAMP & ROAD LOCATIONS).

THE MAG SURVEY PROVIDES EVIDENCE FOR MOVEMENT ALONG THE SITE#7 TRACHTYIC ALTERATION ZONES. THE SYENITE STOCK CAN BE SEEN AS BEING UP OR DOWNWARD THRUST BY A 360° FAULT FOLLOWED BY SINISTRAL MOVEMENT ALONG THE BASELINE, 80° FAULTS UNEARTHED BY STRIPPING (WHICH PRODUCE WATER) AND THE PRESENCE OF 80° MAGNETIC LOW HORIZONS ALONG THIS BASELINE SUBSTANTIATE THIS. TRENCHING INDICATES AT LEAST A 45 METRE (148 FEET) WIDE ZONE OF INTENSE ALTERATION CARRYING VALUES AVERAGING 0.5-10 GRAMS/TONNE IN THE INDIVIDUAL HORIZONS, ONE SUCH HORIZON AVERAGES 0.92/6.2 (OR 0.0402/t OVER 20.3'). THE HIGHEST ASSAY RECORDED HERE IN 1990 WAS 2.95 g/t OVER 0.3 METRE. THE CHERTY VEIN BOULDER FOUND IN 1988 WHICH ASSAYS 6.51/0.7 IS FROM THIS AREA BUT WILL REQUIRE DRILLING TO DELINEATE THE VEIN'S BEDROCK LOCATION. A CHALCOPYRITE-COVERED WHITE QUARTZ VEIN FOUND IN TRENCH #4, ALTHOUGH OF LOW ASSAY, GIVES AN ALTERNATE FOCUS FOR EXPLORATION. THE VEIN'S ON THE SOUTH END OF DDH 89-3 STILL REQUIRE DEFINITION AS THEY ASSAY IN THE 1.0-1.5 g/t RANGE. DRILLING IS NOW NEEDED IN THIS ENTIRE SITE #7 AREA.

OTHER TARGETS OF INTEREST WOULD INCLUDE THE MAG LOWS & HIGHS IN THE RHYOLITES ALONG THE SOUTHERN EDGE OF THE CLAIMS AS THEY ARE THE HIGHEST AND LOWEST MAG RESULTS AND COULD POSSIBLY INDICATE A BIF (OR MASSIVE SULPHIDE) AND SHEAR ZONE RESPECTIVELY. THE LOW (MAG) ALONG LINE O, BASELINE TO LINE 400, IS . . . SHOULD BE DRILLED. THE EXTENSION OF THE HIGH GRADE ZONE ON THE ROAD ON CLAIM # 6A/11 WHICH ASSAYED 30.30/0.2 SHOULD BE THE OBJECT OF SHALLOW DRILL HOLES. A NEW ZONE WAS DISCOVERED

ON CLAIM #641611 WITH AN AVERAGE GRADE OF 2.6 g/t (0.07 oz) OVER 1.2 METRES (4 FEET) WITH A HIGH OF 8.84 g/t OVER 0.5 METRES. THIS ZONE IS A PRIORITY FOR EXPLORATION DURING 1991. THE ZONE'S GALENA, FeS₂, AND CHALCOPYRITE ARE IMPRESSIVE.

GEOPHYSICAL (MAGNETIC AND V.L.F.) SURVEYS WOULD BE HELPFUL ON CLAIMS #641611 AND #1047198, TO FURTHER DELINEATE THE SHEAR ZONES AND GOLD SHOWINGS LOCATED THERE.

M. Dutta B.S.C. - GEOLOGY



American Barrick Resources Corporation
HOLT-MCDERMOTT MINE

P.O. Box 278
Telephone: 1 (705) 567-9251

Kirkland Lake, Ontario

P2N 3H7
Fax: 1 (705) 567-6867

September 26, 1990

Receipt

=====

Payment for assays performed by American Barrick

Holt-McDermott Mine.

November 21, 1989	\$ 82.50
August 7, 1990	\$ 403.00
September 7, 1990	\$ 299.00

Received by:



Chief Accountant

Swastika Laboratories
P.O. Box 10
Swastika, Ontario
P0K 1T0

INVOICE

NO: 23586

DATE: 11-05-90

PAGE: 1 of 1

TO:
M. Sutton
P.O. Box 534
Kirkland Lake, Ontario
P2N 3J5

SHIP TO:

Same

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
2		Au Assays		17.50
2		Sample Handling Cert#OW-1685-RA1		6.00
			190	
			1490	
			PL	
30 Days			TOTAL	23.50

23261



SWASTIKA LABORATORIES

(A DIVISION OF ASSAYERS CORPORATION LIMITED)

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300



VENDEUR
SOLD TO

Mr. M. Sutton
Box 534
Kirkland Lake, Ontario
P2N 3J5

1.5% LATE CHARGE OVER 30
DAYS (ANNUAL RATE 18%)

QUANTITE QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
8	Au assays	\$ 8.75	\$ 70.00
1	Cu PPM	4.50	4.50
8	Sample Handling	3.00	24.00
Cert.#0W-1454-RA1 Oct. 2, 1990			
SWASTIKA LABORATORIES WITH THANKS PER TOTAL.....\$ 98.50			

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928



23116

SWASTIKA LABORATORIES

(A DIVISION OF ASSAYERS CORPORATION LIMITED)

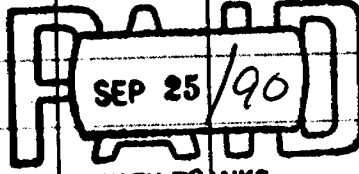
P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244 FAX (705) 642-3300



3/18/90

Mr. M. Sutton
Box 534
Kirkland Lake, Ontario
P2N 3J5

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. PRESENT IN TAXI PER	NO. PRESENT IN TAXI PER	ESTIM. NO. DE COMMOD.	ESTIM. NO. DE COMMOD.	NET 30 DAYS	SALES NO.
FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	PER UNIT PRICE	MONETARY AMOUNT
QUANTITY	DESCRIPTION				
4	Au assays			\$ 8.75	\$ 35.00
4	Sample Handling			3.00	12.00
	Cert.#OW-1314-RA1 Sept. 12, 1990				
SWASTIKA LABORATORIES					
					
WITH THANKS					
PER <u><i>R</i></u>					
TOTAL					\$ 47.00

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22741

SWASTIKA LABORATORIES

(A DIVISION OF ASSAYERS CORPORATION LIMITED)

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
 TELEPHONE: (705) 642-3244 FAX (705) 642-3300



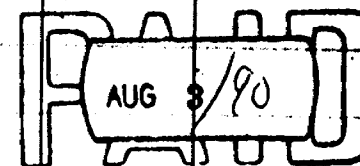
VENDU A
SOLD TO

Mr. T. Hanson
 30 Main St.
 Kirkland Lake, Ontario
 P2N 3E1

1.5% LATE CHARGE OVER 30
 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FED.		NO. D'EXEMPT. DE TAXE PROV.		VOTRE NO. DE COMMANDE		NOTRE NO. DE COMMANDE		CONDITIONS	
FED. LICENCE NO.		PROV. LICENCE NO.		YOUR ORDER NO.		OUR ORDER NO.		NET 30 DAYS	
QUANTITE	DESCRIPTION	PRICE UNITAIRE	UNIT PRICE	TERMS		SALES TAX		MONTANT AMOUNT	
6	Au assays	\$ 8.75						\$ 52.50	
6	Ag assays	7.25						43.50	
6	Sample Handling	3.00						18.00	
	Cert#OW-1031-RA1 July 25, 1990								

SWASTIKA LABORATORIES



WITH THANKS
 PER *[Signature]*

TOTAL... \$ 114.00

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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22778



SWASTIKA LABORATORIES

(A DIVISION OF ASSAYERS CORPORATION LIMITED)

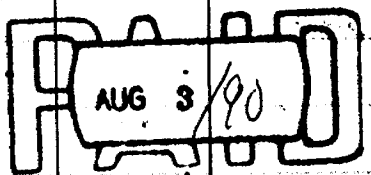
P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
 TELEPHONE: (705) 642-3244 FAX (705) 642-3300



VENDU A
SOLD TO

Mr. T. Hanson
 30 Main St.
 Kirkland Lake, Ontario
 P2N 3E1

1.5% LATE CHARGE OVER 30
 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FED.	NO. D'EXEMPT. DE TAXE PROV.	VOTRE NO. DE COMMANDE	NOTRE NO DE COMMANDE	CONDITIONS	REP. DES VENTES
FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	NET 30 DAYS	SALES REP.
QUANTITE QUANTITY	DESCRIPTION		PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT	
24	Au assays		\$ 8.75	\$ 210.00	
1	Ag Cu Pb		19.25	19.25	
1	MO		8.25	8.25	
24	Sample Handling		3.00	72.00	
	Cert.#OW-1043-RA1 JULY 27, 1990				
SWASTIKA LABORATORIES  WITH THANKS PER <i>T. Hanson</i> TOTAL \$ 309.50					





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Assaying - Consulting - Representation

Assay Certificate

0W-1314-RA1

Company: MIKE SUTTON

Date: SEP-12-90

Project:

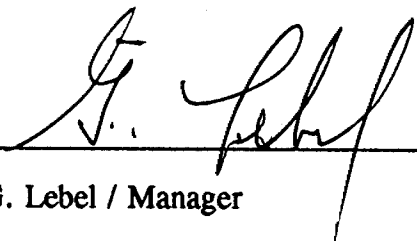
Copy 1. BOX 534 KIRKLAND LAKE, ONT. P2N 3J5

Attn:

We hereby certify the following Assay of 4 ROCK samples submitted SEP-05-90 by .

Sample Number	Au g/tonne	Au check g/tonne
121501	2.08	2.13
121502	Nil	
121503	1.28	
121504	Nil	

Certified by


G. Lebel / Manager

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300

HS - 1 0.66
- 2 0.54
- 3 0.35
- 4 0.37
- 5 0.92



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Tel: (705) 567-9231 FAX: (705) 567-6867

Assay Certificate

No. of Determinations: 18

Lab ID: 90717-1m

Date: July 17, 1990

Acct. No.: Mike Sutton

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
M - 1	0.70				
2	0.66				
3	0.53				
4	0.77				
5	0.58				
6	0.36				
7	0.07				
8	0.26				
10	0.31				
11	0.11				
12	0.75				
✓ 30	1.45 ✓				
✓ 31	0.71 ✓				
✓ 31	0.74				
✓ 32	0.27 ✓				
✓ 33	1.96 ✓				
✓ 34	1.40 ✓				
✓ 35	2.70 ✓				

BTR



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Assay Certificate

0W-1685-RA1

Company: M. SUTTON

Project:

Attn:

Date: NOV-05-90

Copy 1. P.O. BOX 534, KIRKLAND LAKE, ONT. P2N 3J5

We hereby certify the following Assay of 2 ROCK samples submitted OCT-30-90 by M. SUTTON.

Sample Number	Au g/tonne	Au check g/tonne
124510	0.41	
124522	0.38	0.53

✓

Certified by Lionna Gardner



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Assaying - Consulting - Representation

Assay Certificate

0W-1539-RA1

Company: MIKE SUTTON

Date: OCT-16-90

Project:

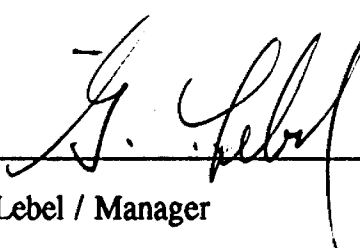
Copy 1. BOX 534, KIRKLAND LAKE P2N 3G3

Attn:

We hereby certify the following Assay of 16 ROCK samples submitted OCT-10-90 by .

Sample Number	Au g/tonne	Au check g/tonne
104517	0.27	
104519	1.21	1.23
104520	0.20	
104521	0.84	0.79
104525	0.69	
104527	0.52	
104528	0.47	
104529	0.46	
104530	0.10	
104531	0.50	
104533	0.67	0.61
104535	0.22	
104538	0.19	
104540	0.14	
104542	0.33	

Certified by _____


G. Lebel / Manager



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7
Tel.:(705) 567-9251 FAX:(705) 567-6867

Assay Certificate

No. of Determinations: 28
Lab ID: 90829-1m

Date: Aug. 29, 1990
Acct. No.: Mike Sutton

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
1	0.39				
2	0.61				
3	0.22				
4	0.41				
5	0.26				
6	0.62				
7	0.21				
8	0.52				
9	0.38				
10	0.54				
11	0.14				
12	0.13				
13	0.18				
14	0.38				
15	1.55				
16	0.33				
17	0.30				
18	0.45				
19	0.85				
20	0.83				
21	0.94				
22	0.57				
23	1.44				
24	0.56				
25	1.49				
26	0.13				
27	0.15				
28	0.42				

BTM



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Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont. P2N 3H7
Tel.:(705) 567-9251 FAX:(705) 567-6867

Assay Certificate

No. of Determinations: 6
Lab ID: 90824-1x

Date: Aug. 24, 1990
Acct. No.: Exploration

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
M 1465	0.58				
1466	0.30				
1467	0.45				
1468	30.30				
1469	36.10				
1470	0.50				



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Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7
Tel.:(705) 567-9251 FAX:(705) 567-6867

Assay Certificate

No. of Determinations: 12
Lab ID: 90816-1M

Date: Aug. 16, 1990
Acct. No.: Mike Sutton

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
M 451	0.21				
52	0.16				
53	8.84				
54	0.15				
55	0.37				
56	0.31				
57	0.18				
58	0.16				
59	0.13				
60	0.47				
61	0.37				
62	0.33				

AM



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Assaying - Consulting - Representation

Assay Certificate

OW-1043-RA1

Company: **Tim Hanson**

Date: **JUL-27-90**

Project:

Copy 1. 30 Main St. Kirkland Lake, Ont P2N 3E1

Attn:

2. fax to 567-6768

We hereby certify the following Assay of 24 rock samples submitted JUL-23-90 by .

Sample Number	Au oz/ton	Au check oz/ton	Au 2nd oz/ton	Ag oz/ton	Cu %	Mn %	Pb %
1407	0.036			0.02	0.01	0.002	0.42
1408	0.020						
1409	0.016						
1410	0.010						
1411	0.016						
1412	0.044	0.034					
1413	0.020						
1414	0.014						
1415	0.026						
1416	0.012						
1417	0.016						
1418	0.034						
1419	0.010						
1420	0.008						
1421 & 1424	0.010						
1422	0.004						
1413	0.086	0.084	0.086				
1425	0.016						
1426	0.008						
1427	0.024						
1428	0.002						
1429	0.010						
1430	0.002						
1435	0.002						

Certified by


G. Lebel / Manager



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Assaying - Consulting - Representation

Assay Certificate

0W-1031-RA1

Company: **TIM HANSON**
 Project:
 Atta:

Date: JUL-25-90
 Copy 1. 30 MAIN ST. KIRKLAND LAKE. ONT. P2N 3E1

We hereby certify the following Assay of 6 ROCK samples submitted JUL-20-90 by .

Sample Number	Au oz/ton	Au check oz/ton	Au 2nd oz/ton	Ag oz/ton
1401	0.002			0.01
1402	0.002			0.01
1403	0.090			0.01
1404	0.136	0.132	0.136	0.03
1405	0.038			0.02
1406	Nil			0.01

Certified by

G. Lebel / Manager



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7
Tel: (705) 567-9251 FAX: (705) 567-6867

Assay Certificate

No. of Determinations: 19
Lab ID: 90723-1m

Date: July 23, 1990
Acct. No.: Mike Sutton

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
M 1431	0.14✓				
32	0.19✓				
33	0.27✓				
34	0.80✓				
M 1438	0.10✓				
37	0.16✓				
38	0.09✓				
39	0.11✓				
40	0.07✓				
41	0.18				
42	0.14				
43	0.12				
44	0.30				
45	0.75				
46	0.23				
47	0.95				
48	0.12				
49	0.28				
50	0.96				

✓

1877



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Tel: (705) 567-9251 FAX: (705) 567-6867

Assay Certificate

No. of Determinations: 25
Lab ID: 90719-1m

Date: July 19, 1990
Acct. No.: Mike Sutton

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
M - 01	0.05				
02	0.09				
03	0.07				
04	0.14				
05	0.27				
06	0.43				
07	0.12				
08	0.16				
09	0.11				
10	0.07				
11	0.10				
12	0.22				
13	0.20				
14	0.36				
15	0.13				
16	0.10				
17	0.09				
18	0.15				
19	1.01				
20	2.34				
21	0.95				
22	0.16				
M - 23	1.96				
24	0.17				
25	1.66				

_____ *[Signature]*



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Tel: (705) 567-9251 FAX: (705) 567-6867

Assay Certificate

No. of Determinations: 12

Lab ID: 90511-1x

Date: May 11, 1990

Acct. No.: Exploration

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
		Mike's Samples			
1	0.09				
2	0.19				
3	0.55				
4	1.21				
5	0.19				
6	0.15				
7	0.90				
8	0.40				
9	0.54				
10	0.47				
11	0.06				
12	1.50				

ADP



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Assaying - Consulting - Representation

Assay Certificate

0W-1454-RA1

Company: MICHAEL SUTTON

Date: OCT-02-90

Project:

Copy 1. P.O. BOX 534, KIRKLAND LAKE, ONT. P2N 3J5

Attn:

We hereby certify the following Assay of 8 ROCK samples submitted SEP-25-90 by MICHAEL SUTTON.

Sample Number	Au g/tonne	Au check g/tonne	Cu ppm
121505	1.35	1.33	
121506	0.91		
121507	0.35		
121508	0.53		23
121509	0.35		
121510	NOT REC'D		
121511	0.10		
121512	0.35	0.47	
121513	Nil		

Certified by

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7
Tel: (705) 567-9251 FAX: (705) 567-6867

Assay Certificate

No. of Determinations: 10
Lab ID: 90522-1x

Date: May 22, 1990
Acct. No.: Exploration

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
H-17	0.33				
14	0.41				
15	1.36				
16	0.20				
17	0.32				
18	0.84				
19	0.58				
20	0.41				
21	0.19				
22	6.51				

BIT



AMERICAN BARRICK RESOURCES CORPORATION


Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

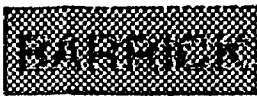
No. of Determinations: 4
Lab ID: 89N14-1M

Date: Nov. 14, 1989
Acct. No.: Mike

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
M-91	4.03 ✓				
92	3.13 ✓				
93	0.32				
94	0.54				



Signed



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 11
Lab ID: 89019-1m

Date: Oct. 19, 1989
Acct. No.: Mike

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
M 60	0.39				
M 70	0.51				
71	0.17				
72	1.80				
73	0.68				
74	0.29				
75	0.69				
76	0.70				
77	0.46				
78	0.79				
79	0.71				



Signed



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 12
Lab ID: 89012-1m

Date: Oct. 12, 1989
Acct. No.: McDermott

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
1	0.31				
2	0.45				
3	0.26				
4	0.74				
5	0.41				
6	0.52				
7	0.84				
8	0.35				
9	0.54				
10	1.46				
11	0.16				
12	0.90				

Signed



AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 13
Lab ID: 89002-1m

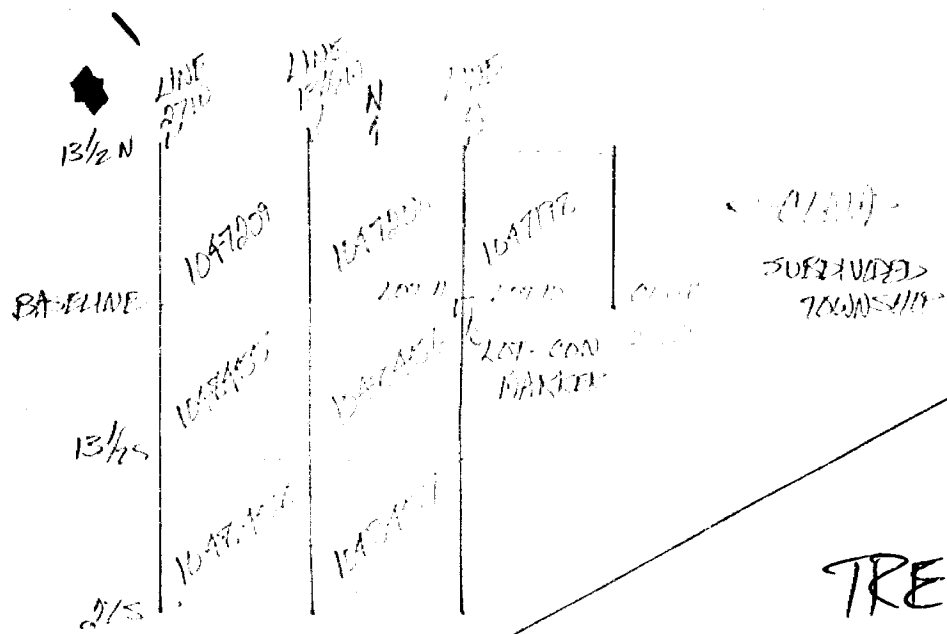
Date: Oct. 02, 1989
Acct. No.: Mike Sutton

<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au	<u>SAMPLE</u>	g/t Au
1	0.63				
2	0.71				
3	0.45				
4	0.29				
5	0.76				
6	0.45				
7	0.54				
8	0.26				
9	1.04				
10	0.60				
11	1.10				
12	0.80				
13	0.48				

✓

Signed _____

Mike Sutton



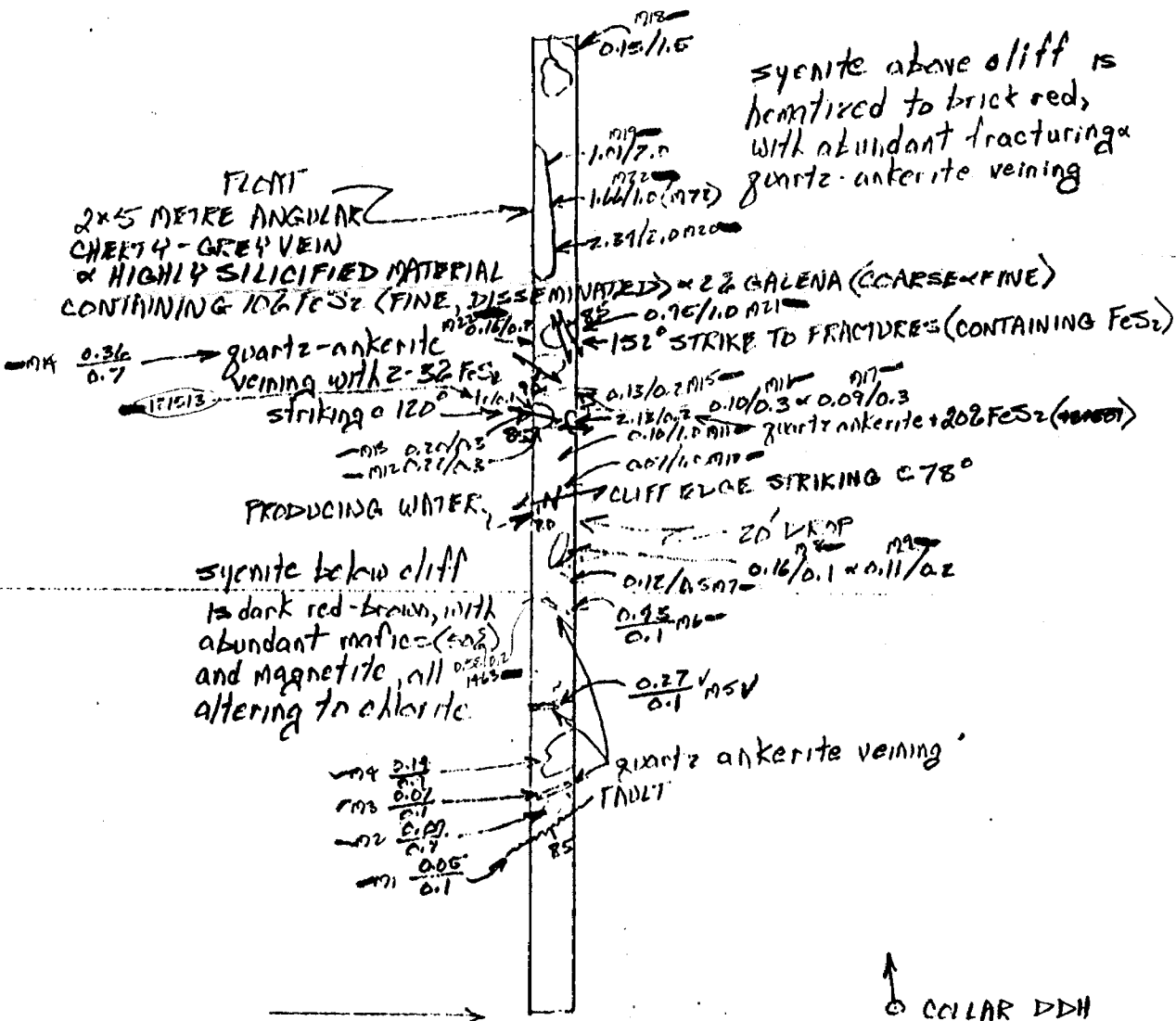
TRENCH #19

ASSAYS ON ASSAY SHEETS 70719-1M (M-01 TO M-72)

SITE #4

LINE
+ SOUTH
(400' SOUTH)

LINE 0

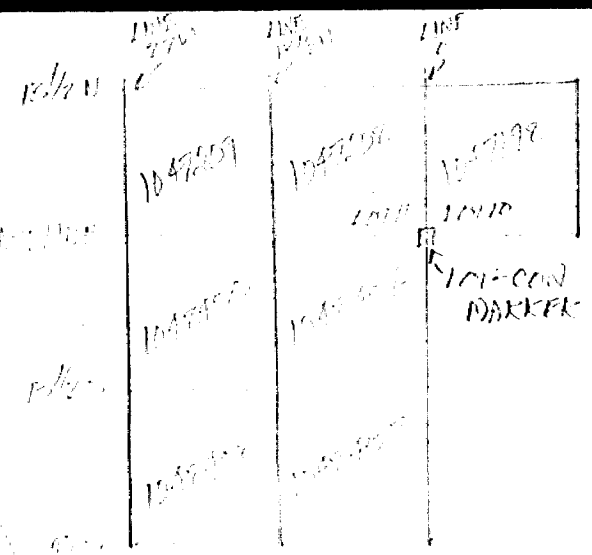


COLLAR DDH 89-1



CLAIM #
1048456

SCALE 1:250



TRENCH # 18

MAP # 15

6" QUARTZ VEIN
M1455 0.57g/g x 0.12 M1457

(200'-500' H)

LINE 2S

ASSAYS FROM 90723-1m
M1431-M1440

3 50% NiO (GLAUCOPHANE, CHLORITE, MAGNETITE)
IN REACT. BROWN SYENITE

FRACTURES CONTAIN ASBESTOS (BLUE-GREEN)

M1430 0.07/0.1, 0.11/0.1
M1431 0.10/0.10
M1433 0.27/0.05
GREY-WHITE QUARTZ VEIN
WITH S&T FeS₂
FELDSPAR PATHWAY
(TRACHTIK)

M1440 0.07/0.4
M1432 0.14/0.1
M1434 0.80/0.5 x 0.022 cwt
M1435 0.19/0.05
M1431 0.4/0.1
CONTACT ZONE
SLIPS
CHALCOPHYRITE ZONE (S₂)
CHERTY VEIN, NOT VISIBLE
QUARTZ VEIN
WHITE-GREY; FINE, DISSEMINATED FeS₂

COARSE GRAINED
SYENITE (TRACHTIK)
WITH LARGE (0.5m) MAFIC
CRYSTALS (HORNBLENE, ANORT)

(100'-500' H)

LINE 1S

15

LINE 200W
N

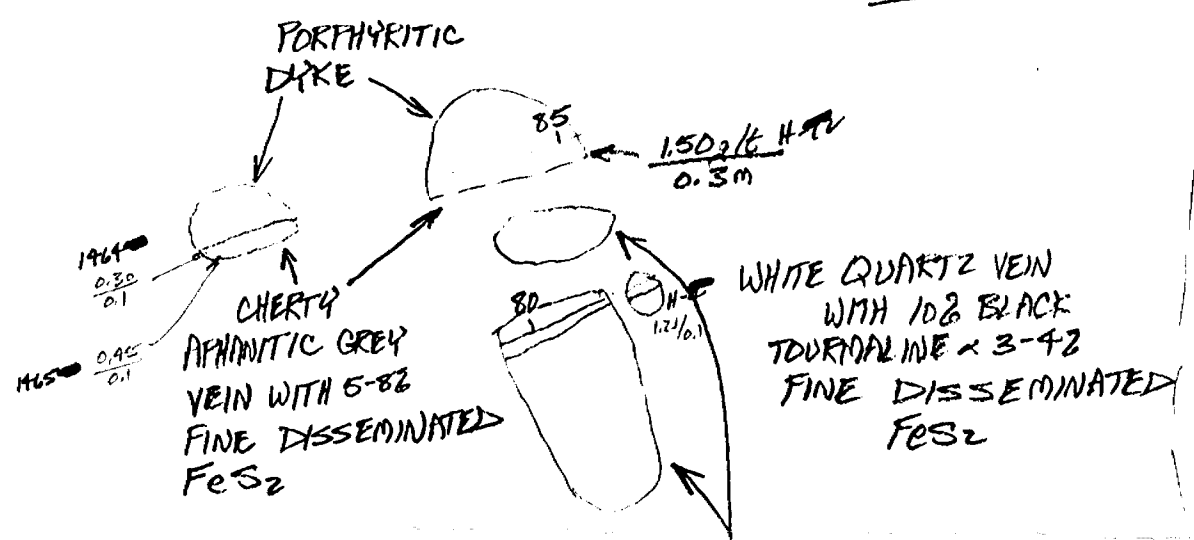
CLAIM #
1048456

SCALE 1:250
(1CM = 2.5 METRES)

↑
POST
C 135
(1048455
#1

155

STRIPPED AREA
#27



RHYOLITE - APPHANITIC
WITH TRACE - 1% FeS₂
(COARSE, DISSEMINATED),
PINK-FINE GREY, SHEARED
WITH CHLORITE VEINLETS (N32)

165

CLAIM # 1048458 (BY POST POSITION)

PLEASE SEE GEOLOGICAL COMPILATION
FOR GRID LINE LOCATIONS VIS-A-VIS
CONCESSION - LOT MARKER (SUBDIVIDED TWP)

175

ROAD

LINE
1200

LINE
1000

10 METRES

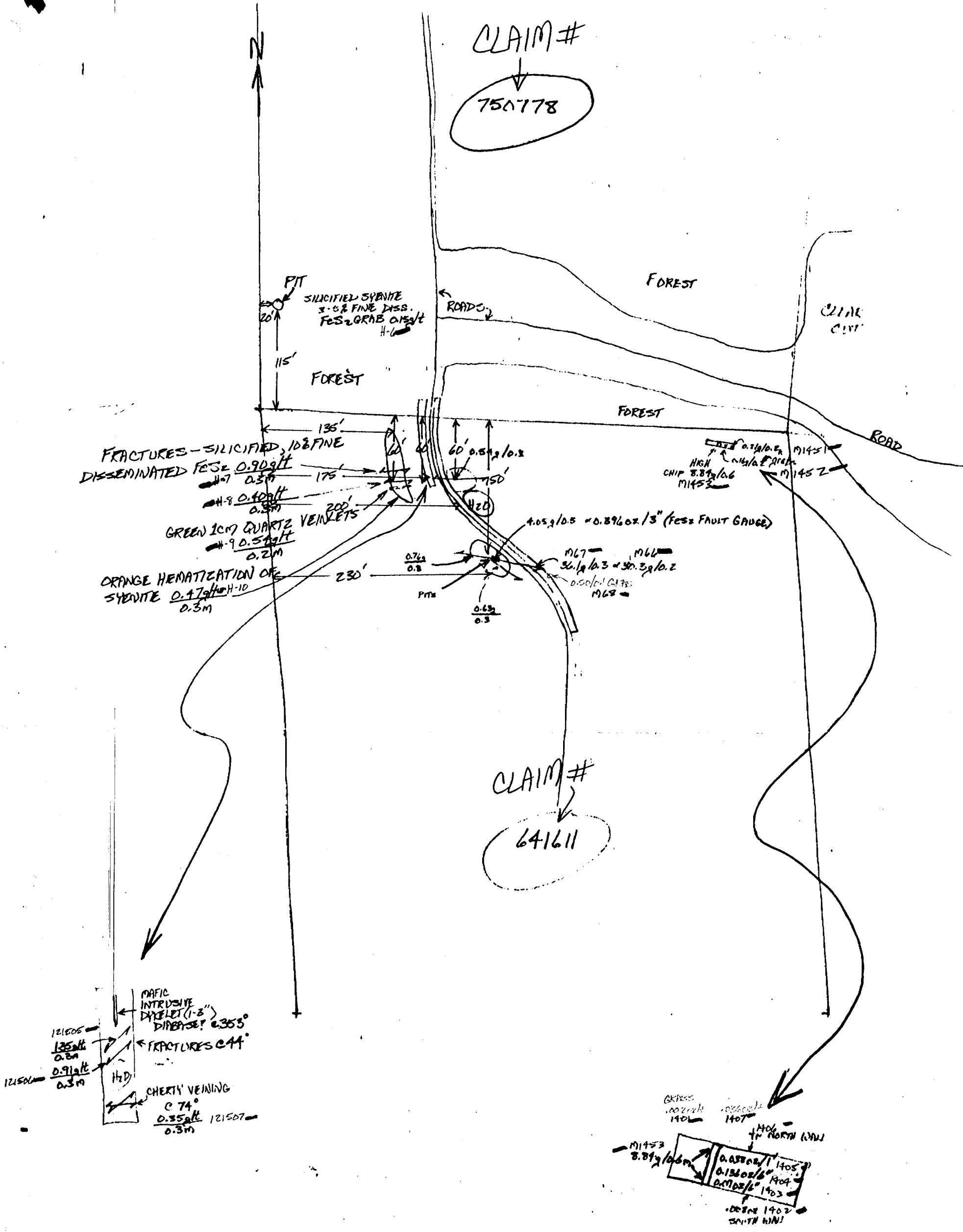
1:250

CLAIM #

750778

CLAIM #

641611



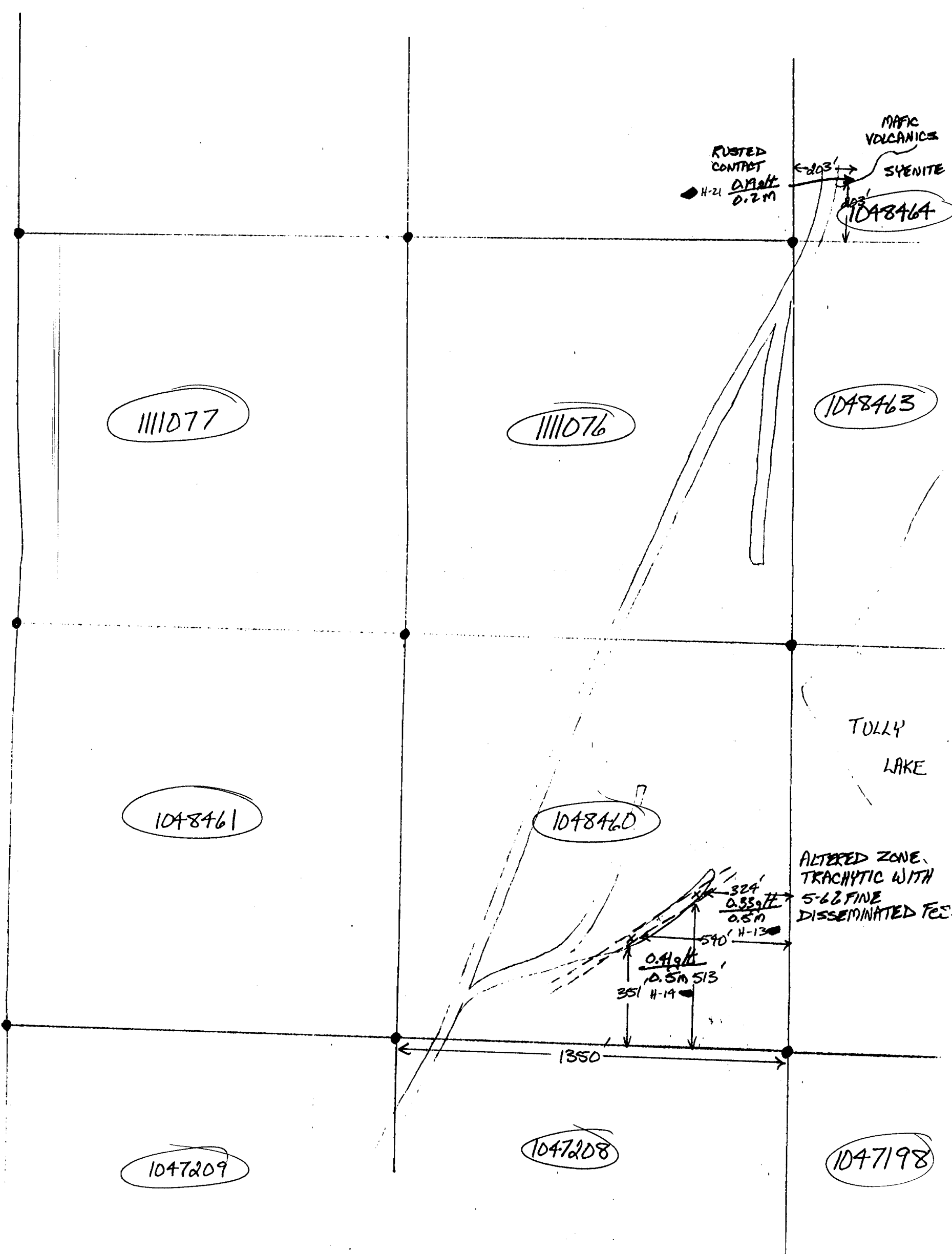
SCALE 1" = 200'

g = grams per tonne
oz = ounces per ton

CLAIM#S

CLAIM POSTS

1111077



ALTERED ZONE, TRACHYTIC WITH 5-6% FINE DISSEMINATED FeS

TULLY LAKE

RUSTED CONTACT
H-21
0.2M

MAFIC VOLCANICS
SYENITE

1" = 340'

Ministry of Northern Development and Mines
DOCUMENT No.
~~W9180-00272~~
Report of Work
(Expenditures, Subsection 77(19))

WORI
POCUI
W9180



42A02SE0002 2.14261 HOLMES

Mining Act

Type of Work Performed SAMPLING
Mining Division LARDER LAKE
Township or Area HOLMES TWP
Recorded Holder MICHAEL SUTTON, TIM HANSON
Prospector's Licence No. K21854
Address BOX 534 KIRKLAND LAKE, ONT P2N3S5
Telephone No. 705-567-4838
Work Performed By HOLT-McDERMOTT (AMERICAN BARRICK) / SWASTIKA LABORATORIES
Name and Address of Author (of Submission) MICHAEL W. SUTTON, BOX 534, KIRKLAND LAKE, ONT. P2N3S5
Date When Work was Performed From: 08 06 90 To: 05 11 90

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side		Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
		1047209	82.83	1048455	4	1048456	7	641611	4		
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
1048458	1										

Instructions
Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).

Calculation of Expenditure Days Credits
 Total Expenditures: \$1482.50 ÷ 15 = Total Days Credits: 98.83
 Total Number of Mining Claims Covered by this Report of Work: 5

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L	1112092	40									
L	1048459	40									
L	1048454	18.83									

RECEIVED
JUL 16 1991

Total Number of Days Performed 98.83
Total Number of Days Claimed 98.83
Total Number of Days to be Claimed at a Future Date 0

Certification of Beneficial Interest *See Note No. 2 on reverse side
 I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.
 Date: 30/05/91
 Recorded Holder or Agent (Signature): Michael Sutton

Certification Verifying Report of Work
 I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.
 Name and Address of Person Certifying: MICHAEL W. SUTTON, BOX 534, KIRKLAND LAKE, ONT. P2N3S5
 Telephone No.: 705-567-4838
 Date: 30/05/91
 Certified by (Signature): Michael Sutton

Received Stamp: JUN 31 PM 1 59

For Office Use Only

Total Days Cr. Recorded 98.83
Date Recorded May 31/91
Mining Recorder [Signature]
Date Approved as Recorded
Provincial Manager Mining Lands [Signature]

RECEIVED

'SEE REVISED WORK STATEMENT'



Ministry of Northern Development and Mines

DOCUMENT NO.
W9180 00253

WORK

Instructions

- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

JUNE 30 JULY 30

Report of Work
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s) GEOLOGICAL	Mining Division KARDER LAKE	Township or Area HOLMES TWP
Recorded Holder(s) MICHAEL W. SUTTON	Prospector's Licence No. K 21859	
Address BOX 534, KIRKLAND LAKE, ONT, P2N3S5		Telephone No. 705 567-4838
Survey Company N/A -> M. SUTTON GEOLOGIST 2.14261		
Name and Address of Author (of Geo-Technical Report) MICHAEL SUTTON AS ABOVE		Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 09 07 90 10 10 90

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	20
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Other	
Total miles flown over claim(s).		
Date 30/05/91	Recorded Holder or Agent (Signature) <i>Michael Sutton</i>	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
L	1047208				
L	1047209				
L	1048455				
L	1048456				
L	1048457				
L	1048458				
RECEIVED					
JUL 02 1991					
MINING LANDS SECTION					
Total number of mining claims covered by this report of work.					6

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
MICHAEL W. SUTTON, BOX 534, KIRKLAND LAKE, ONT. P2N3S5

Telephone No. **705-567-4838** Date **30/05/91** Certified by (Signature) *Michael Sutton*

For Office Use Only

Total Days Cr. Recorded 120	Date Recorded May 31/91	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands <i>[Signature]</i>

Received Stamp
31 May 31 PM 1 59

RECEIVED

SEE REVISED WORK STATEMENT



Recorded Holder
Michael W. Sutton; Tim Hanson

Township or Area
Holmes Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	\$ 0.00 spent on assaying samples taken from mining claims: L.1047209 1048455-456 641611 1048458
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	0 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 80.



Recorded Holder
Michael W. Sutton

Township or Area
Holmes Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological <u>0</u> _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

L. 1047208-209
1048455-458 incl.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder
Michael W. Sutton

Township or Area
Holmes Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer <u>0</u> _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

L. 1047208-209
1048455-458 incl.

Claims need identification on all maps.
Claim posts, claim lines and claim numbers are needed.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Toll Free: 1-800-465-3880
Telephone: (705) 670-7264
Fax: (705) 670-7262

November 15, 1991

AMENDED

Mining Recorder
Ministry of Northern Development
and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Our File: 2.14261
Your File: W.9180.00282
W.9180.00252, 253

Dear Sir/Madam:

Please disregard the Notice of Intent of October 15, 1991 on these reports of work and all other correspondence.

The original assessment work credits filed on May 31, 1991 are to be approved.

Please indicate the approval in your records.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

LJ/jl
Enclosures:

cc: Michael Sutton
Kirkland Lake, Ontario

Assessment Files Office
Toronto, Ontario

Tim Hanson
Kirkland Lake, Ontario

Resident Geologist
Kirkland Lake, Ontario

Dunmore Twp.

THE TOWNSHIP OF

HOLMES

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (L.O.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS (---)
- KING'S HIGHWAYS (---)
- RAILWAYS (---)
- POWER LINES (---)
- MARSH OR MUSKEG (---)
- MINES (X)
- CANCELLED (C)

NOTES

400' Surface rights reservation around Holmes L. rive

AREAS WITHDRAWN FROM DISPOSITION

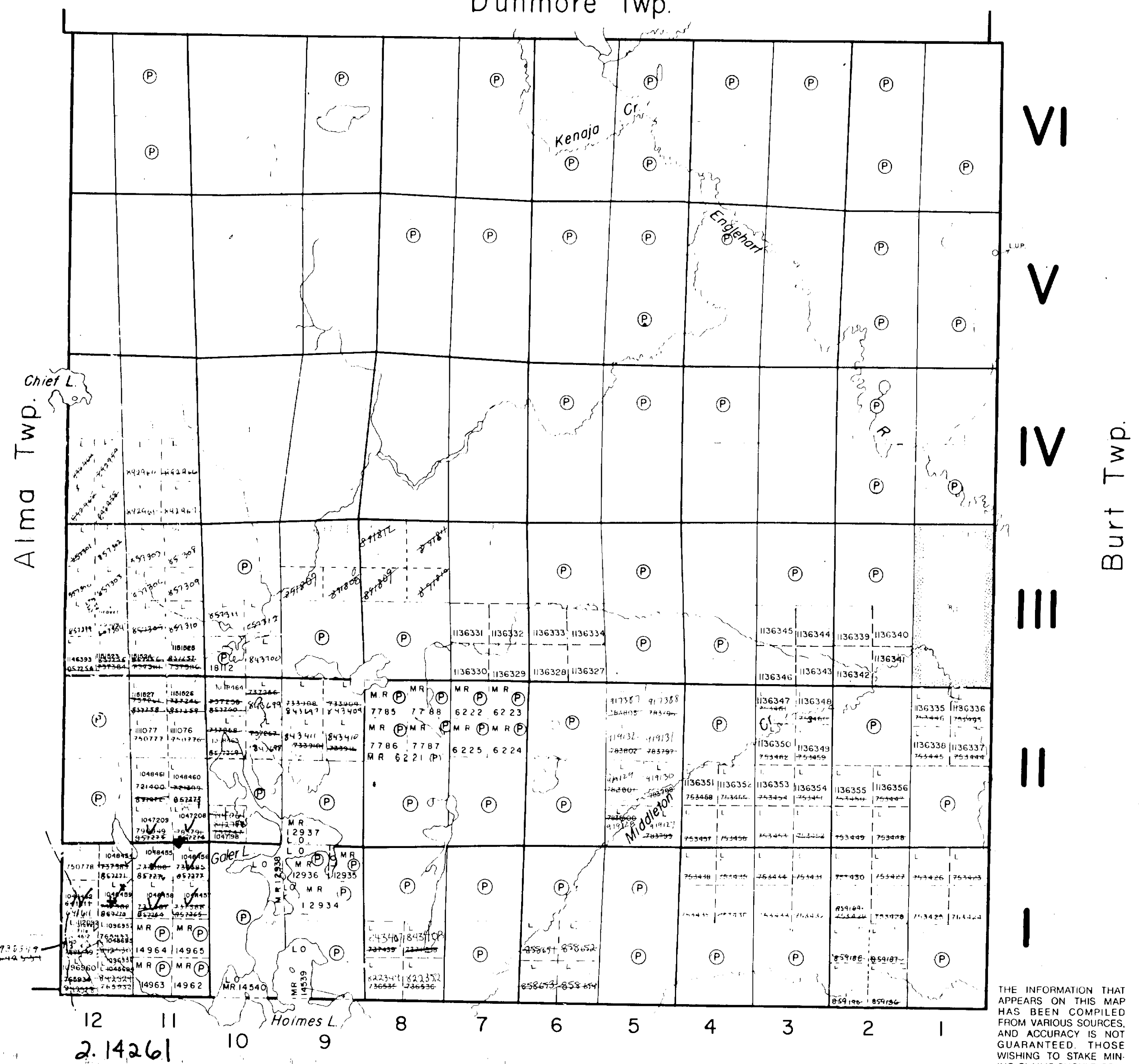
M.R.O. - MINING RIGHTS ONLY
S.R.O. - SURFACE RIGHTS ONLY
M. & S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC 36/80	N 74/62	29/11/82	S BMR	188522

DATE OF ISSUE
JUN 25 1993
LARDER LAKE
MINING RECORDER'S OFFICE

PLAN NO.- M.224

ONTARIO
MINISTRY OF NATURAL RESOURCES
LARDER LAKE BRANCH



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON



SUBDIVIDED TOWNSHIP

2.14261

CLAIMS

1047209	1047208
1048455	1048456
1048458	1048457

LOT-CON MARKER

M. Sutton 15/12/90
2/1/91

GEOLOGICAL COMPILATION

- SWAMP
- MAG LINES WITH APPROXIMATE SANDA DROP
- H HIGH GROUND
- L LOW GROUND

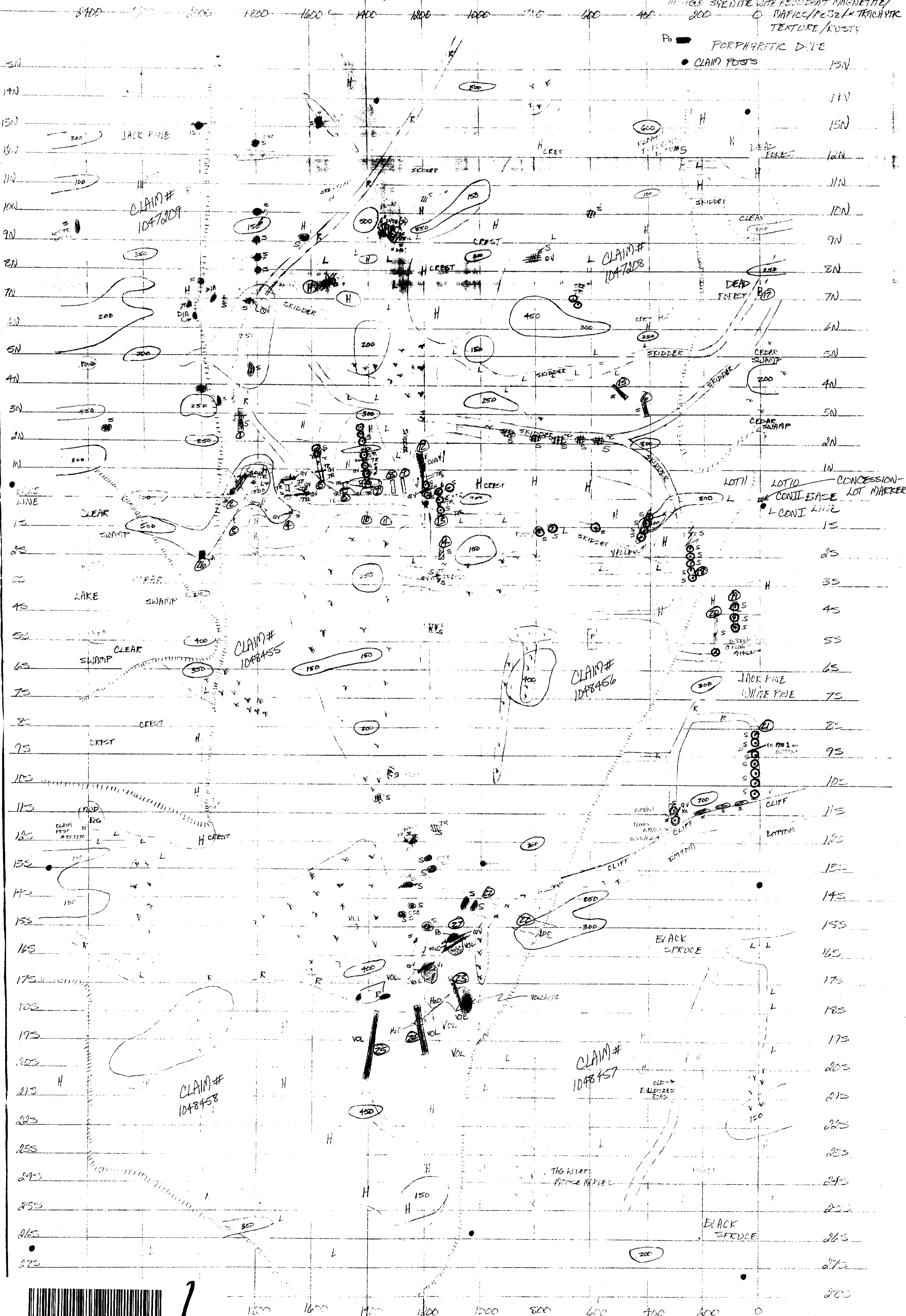
1 INCH = 100 FEET (SEE I.P.)

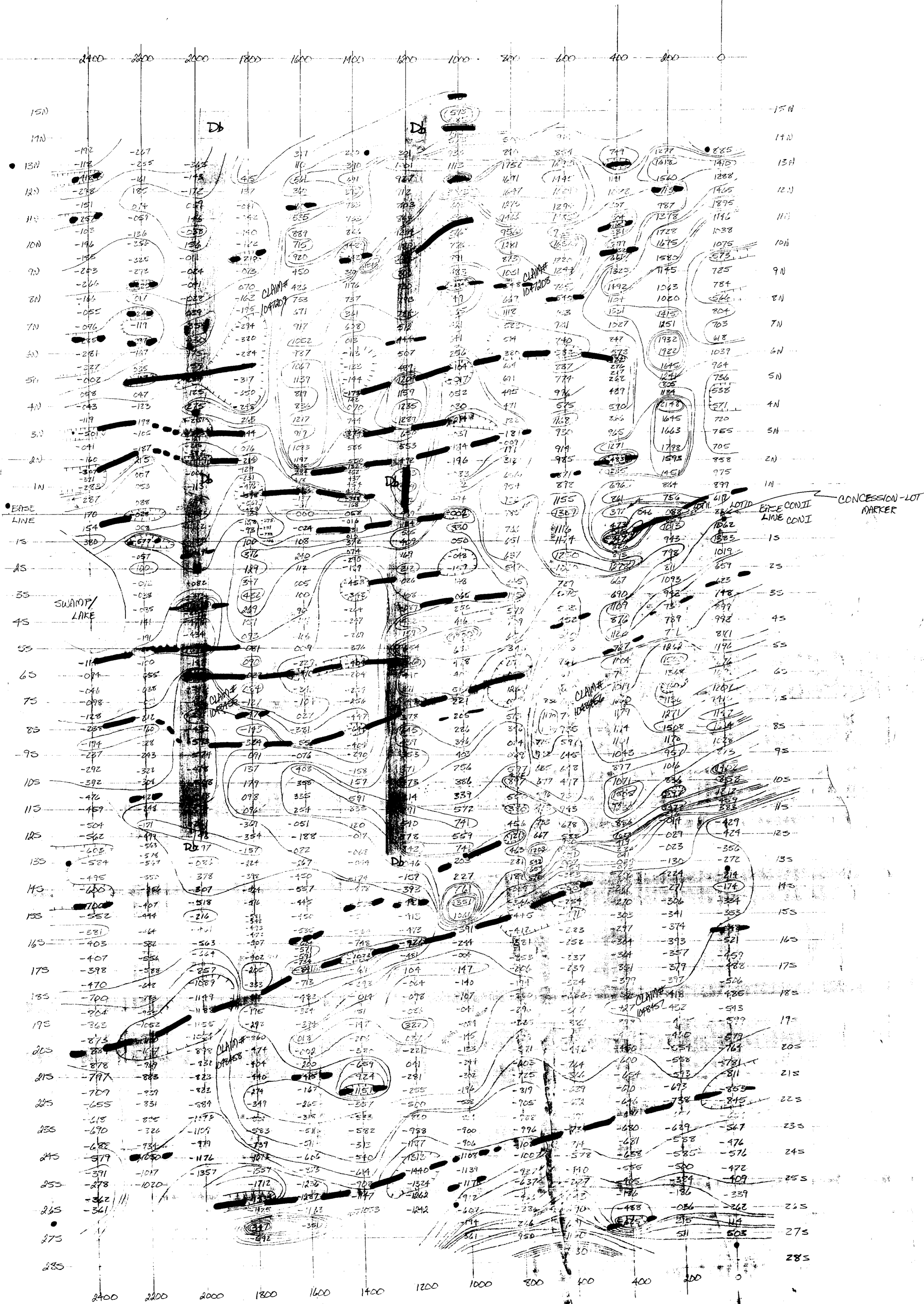
VEINS, CLIFFS

P PIT, TRENCH

- FAULT
- SHEAR/FOLD
- OUTCROP
- VOL VOLCANIC (RHYOLITE)
- SPENITE/TEXTURED HORNBLENDE SPENITE
- TR TRACHYTE
- QY QUARTZ VEIN
- DIA DIABASE
- SKIDDER - SKIDDER ROADS
- TREE LINE THIS SIDE FOREST
- ROAD
- SPENITE WITH ASSOCIATED MAGNETITE/MAFIC/Fe32/L. TRACHYTE TEXTURE/RUSTY
- PO PORPHYRITIC D.I.E

CLAIM POSTS





MAGNETIC SURVEY
1 INCH = 100 FEET

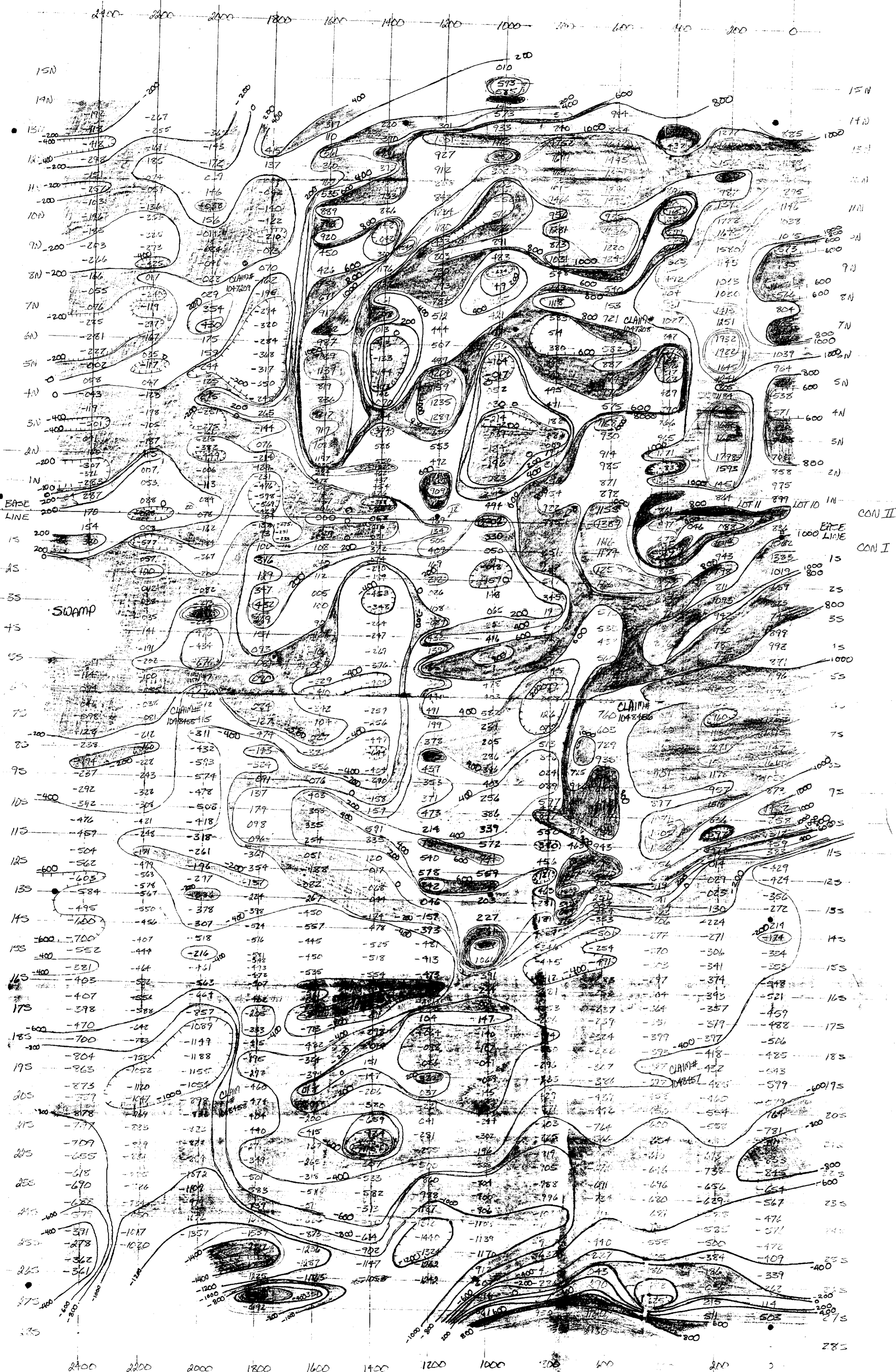
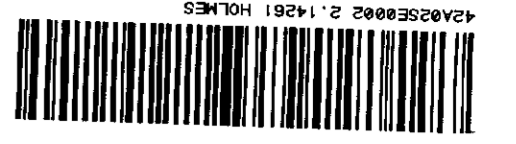
- | | |
|----------------|--------------|
| -199 TO -1 | 0 TO 199 |
| -399 TO -200 | 200 TO 399 |
| -599 TO -400 | 400 TO 599 |
| -799 TO -600 | 600 TO 799 |
| -999 TO -800 | 800 TO 999 |
| -1199 TO -1000 | 1000 TO 1199 |
| -1399 TO -1200 | 1200 TO 1399 |
| ETC | ETC |

LOW

ALL POINTS RELATIVE TO LINE 16, BASELINE
C58, 765 AVERAGE

2.14261

Db • LAKES (DANGER)
• CLAIM POSTS

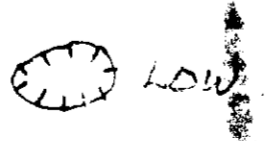


CON II
CON I

MAGNETIC SURVEY
1 INCH = 100 FEET

2:14261

- 199 TO -1
- 399 TO -200
- 599 TO -400
- 799 TO -600
- 999 TO -800
- 1199 TO -1000
- 1399 TO -1200
- ETC 1400
- 0 TO 199
- 200 TO 399
- 400 TO 599
- 600 TO 799
- 800 TO 999
- 1000 TO 1199
- >1100
- ETC



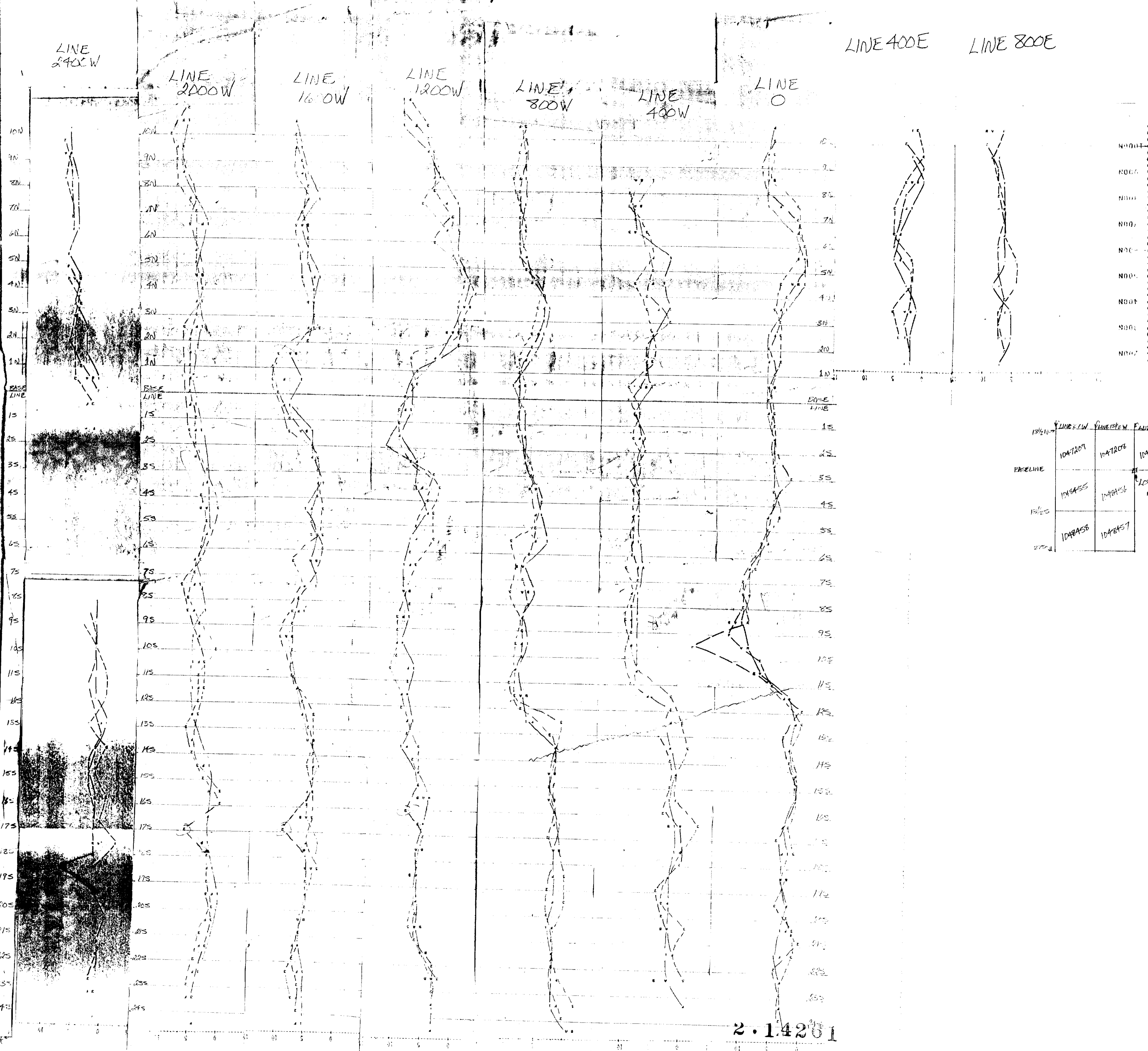
ALL POINTS RELATIVE TO LINE 16, BASELINE
658,765 GAMMA
AVERAGE

2:14261

• CLAIM POSTS

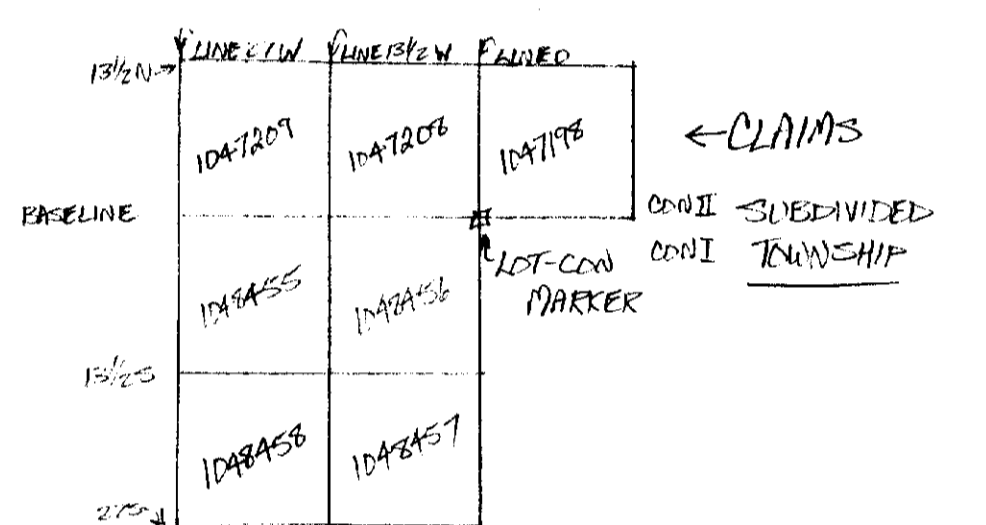
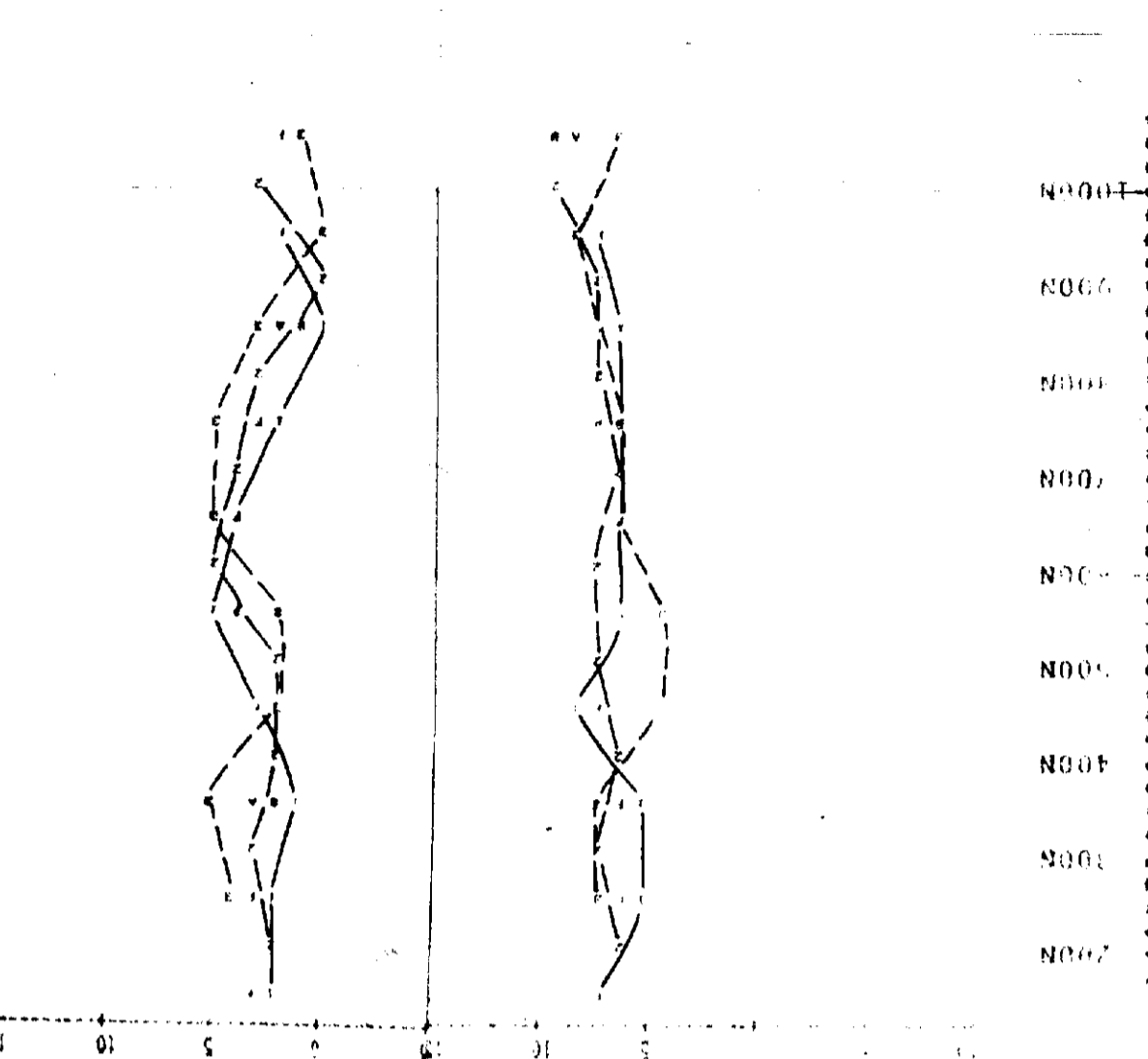
I.P. (INDUCED POLARIZATION)
POSSIBLE FAULT ZONE

2.14201



LINE 400E

LINE 800E



2.14201



RESISTIVITY

LINE 24

LINE 20

LINE 16

LINE 12

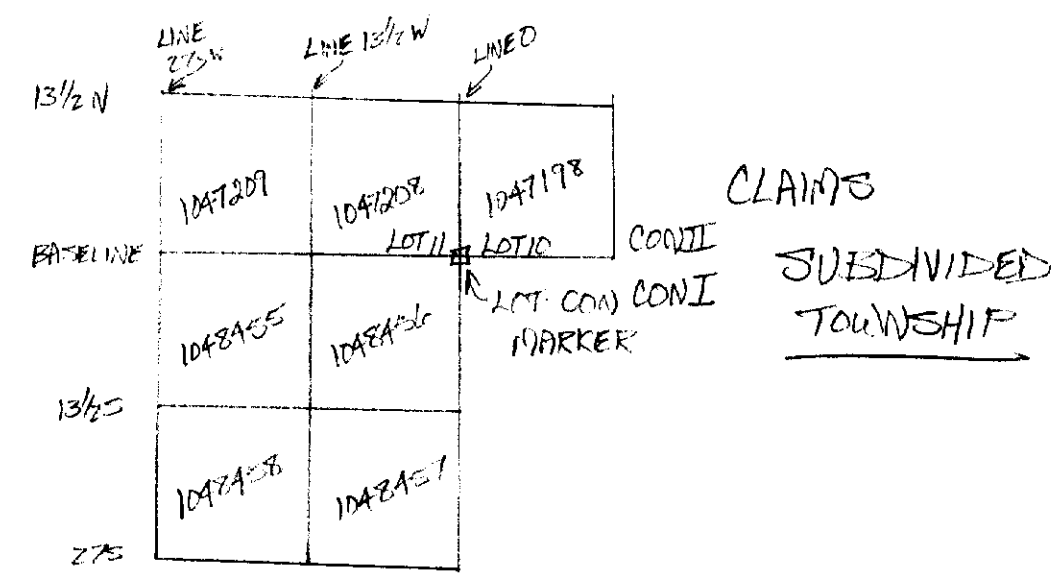
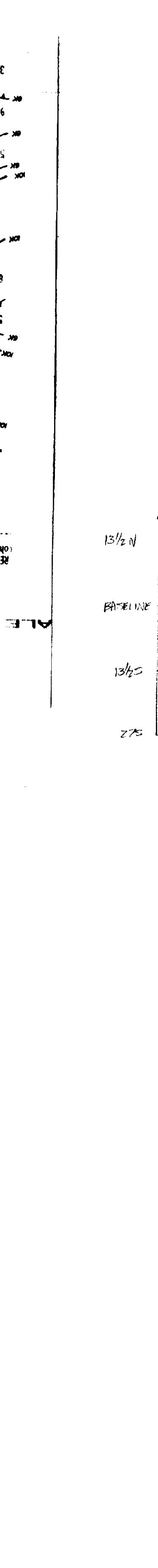
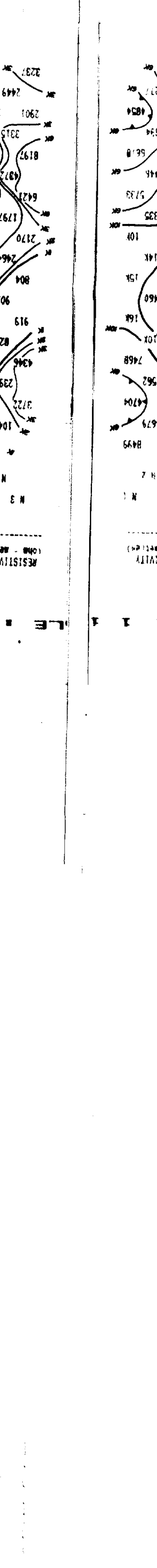
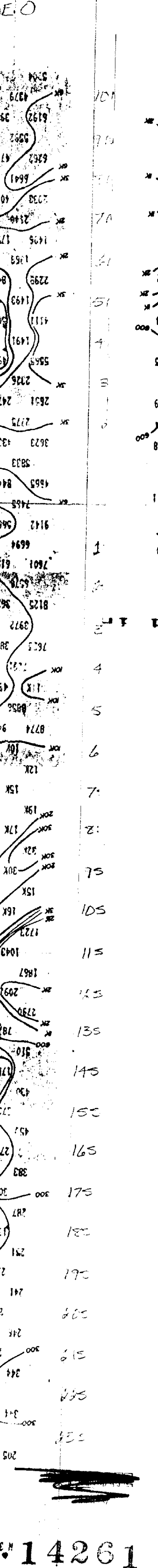
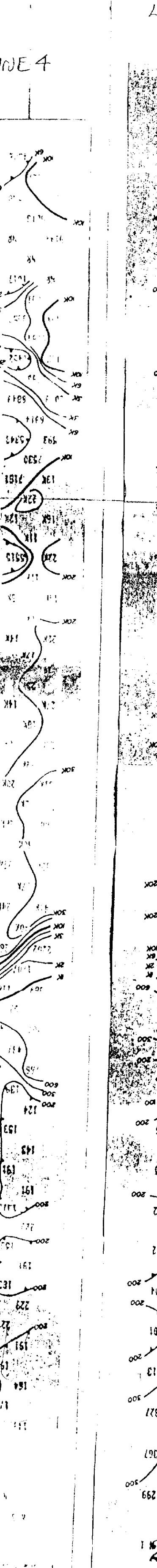
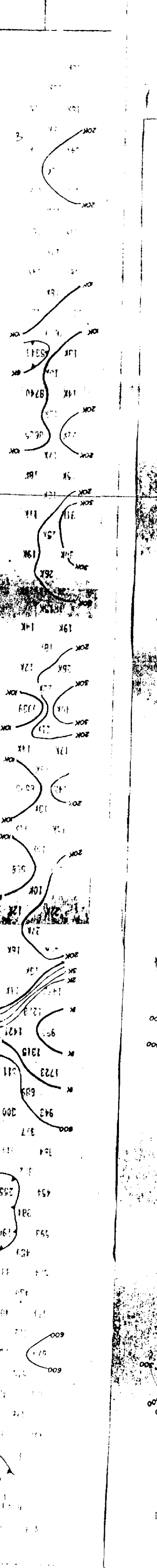
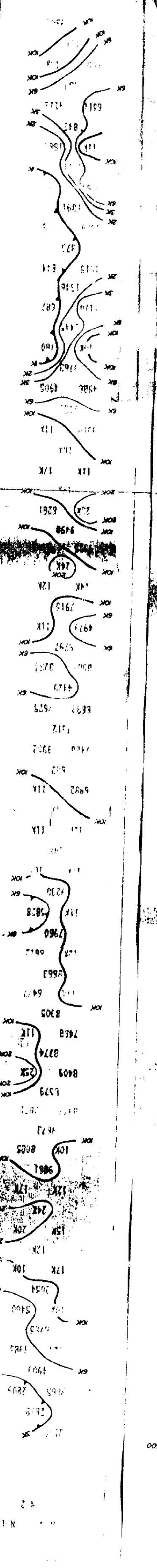
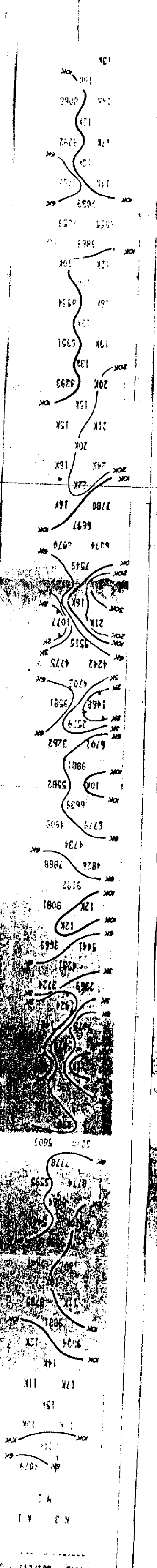
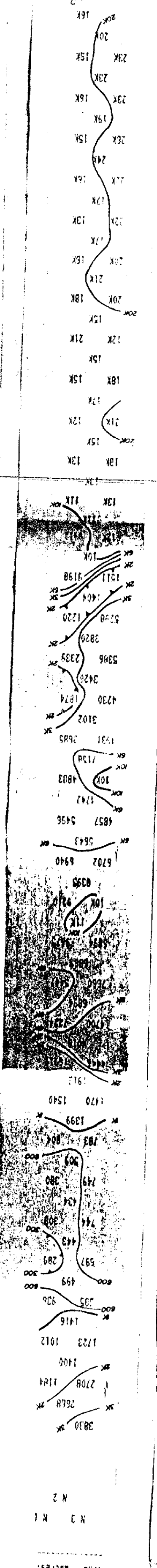
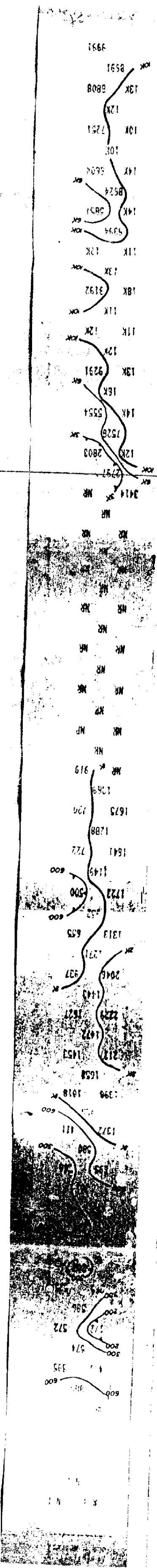
LINE 8

LINE 4

LINE 0
N
↑

LINE 4E

LINE 8E



214261



CHARGEABILITY

LINE 24

LINE 20

LINE 16

LINE 12

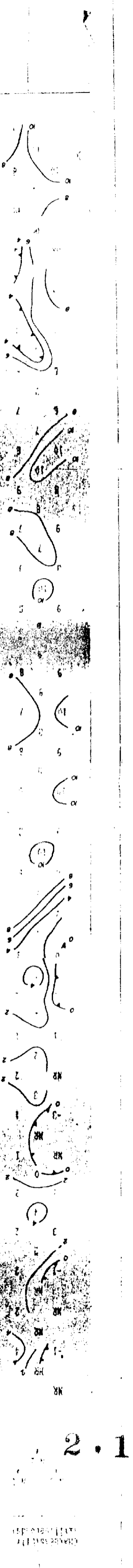
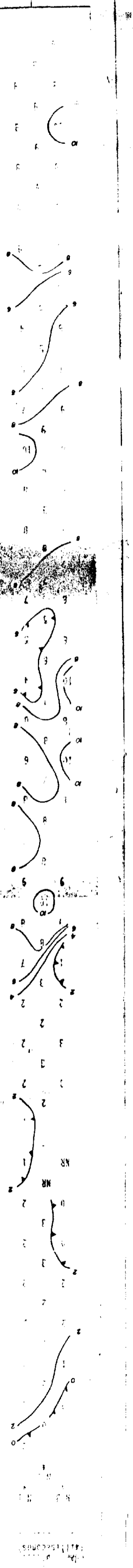
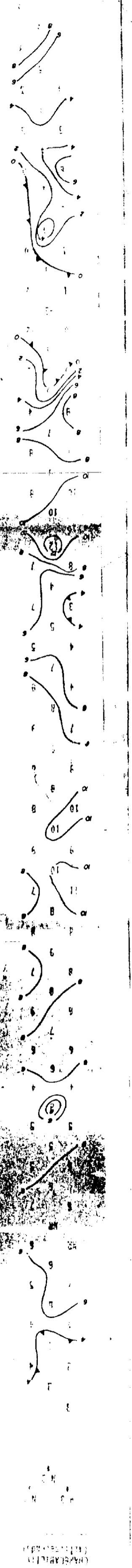
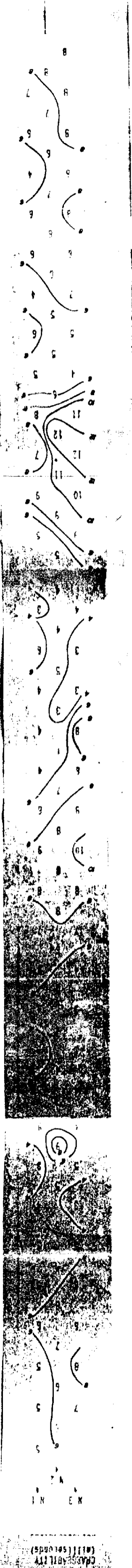
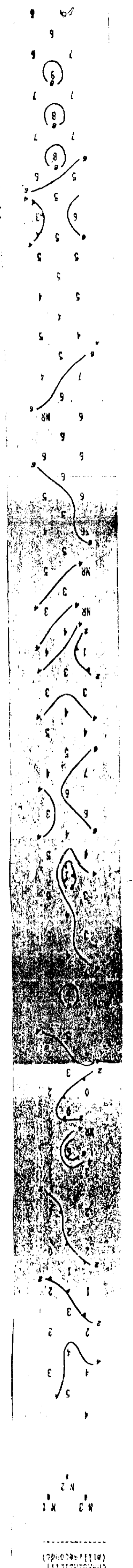
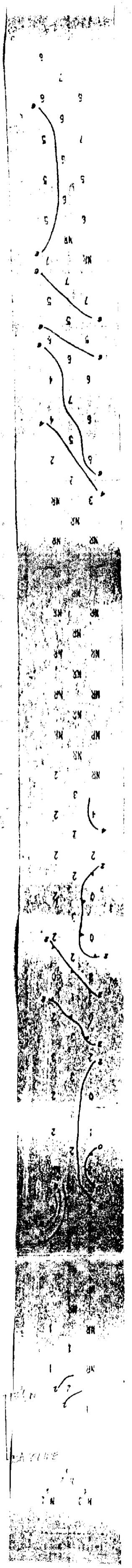
LINE 8

LINE 4

LINE 0

LINE 4E

LINE 2E



LINE 24	LINE 20	LINE 16	LINE 12	LINE 8	LINE 4	LINE 0	LINE 4E	LINE 2E
10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77
10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77
10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77	10/1/77

2.14261

