## INYROOLCT10N

In conjunction with geologicel murvey, magnetic elactromegnetic aurvey has been carriad out on the mroparty of Nut th Slave Miner Limited. Tha pleket linas for control of this wark were astmbliahad during the period July 29* to Auguat 26* inclumiva. From August 174 to 31et, the field work for the gaological survey und magnetic aurvey was undertaken. The eleotromagnatic survey was completed during the period saptember 23rd to 30 so inclualva.

A saparate report covera the geological eurvay on the claim group.

The object of the uarvey work is primarily to dutarmine the potentiml importance of gold minarelizetion on the property. The grologicol work, howaver, indicates the poseibility of mignificunt base matel mineralizasion in the wea.

## PAOPERTY, LOCATION AND ACCEGS

The propserty of baut 960 acram consibte of 24 unpatanted mining claima dasignatad 326145 to 326168 inclumiva.

Located in the gouthasat actor of Badan Townminip, Ontaria, streddiing tha Montrail Aiver, the property in about 42 milas abuthasest of Timmins, Cntario.

Accass is most convenient by Ploat or mbl-quippoiseircraft to the Montrani River from South Porcuptne Lako." Alternativaly, the propasty is accmablble by bout, north on the Montram Rivar from Matachewan, a diatance of about atoven milus.

## PREUICUS WORK

Pravious wark on the praperty is outilned in the marginal notas of Map P19s by the D.D.N.

In 1936, undar the muparvision op 0. L. Halbrooke four holes whre drillad undar a goid basing quartz vain, 16 inchma wide, on the wast shore of the Montreal Rivar. In one hole; Malbraoke raporte asection of 40 fast whith averaged 1.14 oz. gald. No elgnificant valuat ware encountarad in the othar thran holas.

To the asat of the Montraal Rivwr, Holbrooke reports that - Etrong varticol aastwast tranding ehame, containing paralimi quartz vains, yielded anama from grab maplais of 0.01 to 0.46 oz. gold per ton ovar width of 12 faet and langth of 600 fant. Along thia zone tualve semples were taken fag varique pits ond dumpa on clelms 326168 and 326165 by the stapf of Shield deophysies in July 1971.

In 1957 an elactrical ratetivity mon malf potential aurvay by Gepphysical Enginearing and Surveys Limited did not indicete eny algnificant anomalien on the property.

## GEULOEY

## Goneral Goplony

The gealogy of Badan Townehip is outilined on Map P195 by the Onterio Dapartmant of Minwa.

Aocording to thie plan, maid to basic rocke intrud ganarally aast etriking matmoolcanie rocke, whion include varisbly
altarad flow, tuffa, and agolomaratale.
Considarable diabase, as dyka and silla, and minor bodies of pink to grey grenite, quartz diarite and diorite intruda the volcanica.

The Montreal River fault, prominans tapogrephic feem ture, and the Miatinikon Lake fault, triking northoast and north raspactively through the Townohip nre the main faulte in the area. Esonomic Gunlony

As Indicated under the heading "Pravious Wark two gaid occurranced are known to be present on the olalm group. That occurrence cust of the Montreal River was ampled and meanyed by tha ataff of Shisid Geophysies in July 1971.

Poarly mppowad nurrow, aant atriking groy quartz vilna are prasent in an aran of old pite and tranchas. The pyritized black voleanic wallrock raturned asanya of trace in gold. Quartzose material from the pit dump asarayd 1.43, 0.005, 0.02, and D.05 oz. gald per ton.

## MABNETIC SURVEY RESULTS AAD IWTERPRETATION

Tha curvey method and inatrument is deacribed in the Appendix to this report. A map at semalo of one inch to two hundred feat. attached to thia raport, ahow the cantoured magnetic raadinge.

The magnetic fuydetibilitias on the propmety zange from -4490 to 9100 gamanas while the mannetic background is in the 1500

to 2000 gamma rangw.
A faltiy wall dafined sastwelit trand of the isomagnallam 1a apparant. Thia coincidas with the main magnetio facture on the property discontinuous magnatic low tranding eatement along the base ilne. The diacontinuity is thought so beamma by ompias of northerly tranding faulta. The mapnetie low in penerally in the range of 1200 to 1500 gammas but ladiated wriae mow muah lewer magnatic cumciptibidittetn Fuleic to intermadiete voloandc rooke ere Expoged in the arass of magnatio low together with diubuen. Apparantly the magnetic sumaptibilitien ere dominantly a raflace tion of tha volcanias. The alebane, tharafore, probably forms E1ll-2ike bodiun of minor thleknmane rethor than dyket. The pold mineralization on the proparty appars to bw modated with the alacontinuaus magnatic lows, partioularly mant of the Montrank River, where the pold zone is adjatent to paralialing lanticular magnutic low and high within the largar magnatic low.

Foulting etriking genereliy north mad north-hor theest hea buen Interprated frow the enowaly pattern. The narth-northwist tranding pault elang the Mantreal River ia Pairly wall dnfinea by tha isomagnatica with an apprant right hend diaplecmmant thereby conflieting with the movemant indleated on Map Pios by the Ontario Department of Minam. Ralative harizontal diaplacamant on meoh of the fault doem nat gunarally exceed mevarsi hundsed foet. The magnatic busceptibilitiam, howner, differ markedly frow one alde of e fault to the other, in soma instanctis, ouggasting eignificont
vertical diaplacamant.

## ELECTROMAGNETIC: SURVEY RESUIS AND INTERPAETAIIPN

The survey method and inwtrument is demoribed in the Appandix to thia raport. Two plans at mand of ona tiveh to two hundrad feet show the profilite and condudive zonaw.

## Eant Trending Conquetore

A number of ganariliy aast tranding conductive zonas are shown on plan 1. Based on all mvalisble date, the two mont important, dasignated $A$ and B, ere damoribed an Pallawn
 on the bate line. The conductivity en datermanad from the profiles of dip angles end quadratura componentm la mak; however, disbate If axpoaad at the axis of conductivity, indiaeting that the murop may be faifly deap below the diebase contect. Marwaver, the aat half of the conductor colnetitus with the moot prominment manetia low on the property. The conducter and colncidant wagnatie low oppaar to be intarrupted by e genarally nerth trending puult. Gonductor B - Indicated by profile Inflactiona on Line 24E, Station 3+50 Gouth, this weak conductor lien edjacent ind parallel to the eest gold zone. The conducter, eveveral hundred fuet long, and atriking anst, corramponde with the south contect or axis of a Imnticular magnstic high. Pyrite mineralization ie axpomed in outcrops hare, along with sast atriking gold-bwaring quartz vaining.

The remaining condudtive zonse on the proparty, aome of
which ara quite wall depinad, mppar to ba cousad by roak contwete, sharing and water-bearing topagraphic fatarim.

## Narth Trending Conduetors

of the north tranding conduatore on plen 2 , only onis,
 importent. Tha canductor atrikem northonorthwest within agonatie low. This magnatic low, mpparuntly repromenting part of the horizon which is agaociatad with the gold occurrancea, alvo it reo luted to conductor $A$.

The ather north trending conductive zone appaars to be cauged by the crows faults on the proparty or sopographic fues turas.

## CONCLUSIONS

The mepnetic murvey replecta tha asstwant tranding volcanic asamblage. Inammeh ab the extenaive alabsin expamure is not raflacted by the magnatio urvay, the diabasa in intarprated to form a ahellow capping ouar the valeandee rather than dykea.

An enmt tranding disurupted magnetie low thrbugh the centre of the proparty, probably rapramenting $\quad$ particular phame of the voicanic assamblage in the area, mow dimplacomant by north and north-northwest tranding croas faulte. of this, proup of Paulte, tha most prominant in the Montrasi Alvar fault. A right hend movemant on thia fault is suggastad by the ralativa location of magnatic low ond diraotion of apparent aubidiery faulte to the
mast and wast.
The known gold occurrances on the property are assaciatwd with rucke reflactat by the magnatic low long the bates inn. The east gold accurrance is aituated within o broad magnetic low adjacerit to an iadatad anst trending magnatichigh and wabk canductive zons. The wast gold occurrance is apparantly atuatad - fow hundrad fagt ram an mpperent fault in a rack hopizon reflectad by the magnatic low. Betwaen Linae 2abend 32be Emilar gwophysicel environment is present. Each of these arate marit more deteiled investigation whioh is mpacipically outhinad under "Recomamadetione" in tha gealogiasi report.

Timmina, Ontario,
Dctober 7, 1971.


## CEATIFICATE

I. Aonald J. Gradmhnu, rasiding at 480 Housrd Stront, Ifminz, Ontario, a conaltinu geologitet with offiow at 26 Pine gtrant South, Timmine, Ontario, do hereby ourtify that:

I attendad Luewn's Univeraity, Kingaton, Ontario, and produytad with an Honours a.A. degrea in Coologitel Salonene in 1938.

I aw a fellow of the Geologicel Aasoolation of Canada, end Mambar of tha Canadion Inatitute of Mining and Matellurgy and of the Agnociation of Profasional Enginaura of the Provinoe of Entario. I have no interast aither direatly or indiraetiy In the sharsa or securities of Melville Mines \& Industries Ltd.

Timmina, Onterio,
Detobar 7. 1971.

APPENO1X

## SURVEY METHCO AND INSTRUNENT DATA

## E1ectromennatic Survey

A Ronke CM 16, numbar 35, was und for the auryey.
This inatrumant is aimply asensitive recaivar covarino the fraquency of the new VLF-trunaditing stakions with meand of masauring the vartical piald eomponantw. The VLF-tronamitting stations oparate for commundations with aubmarinas at frequancias butuagn 17.8 and 24.0 Khz . The vartical antanna burrant of thame tranamitting stations crantes a concentric horizontal manetic Pield around tham, Whan thase magnetic pialde maet aonductive badian in the ground, thera will be ascondary field radiating from thase bodise. This aquipment maseures the vartical componante of theas abcondary fielde.

The rbenivar has twa inpute, with tuo receiving codla built into the inetrument. One coll has a normaliy verticel exis and the other in horizontal.

Tho aignal from the coil with vortical mela is firet minimizad by tilting the inatrument. The silt angie is colibrated in parcentages. The remeining signal in this coil in Pinaliy balancad out by masaured parcontaga of stgnal from the othar coil.

Apter suituble etation is malectad, at right anglaa to the diraction of the survey linan, raudings are made of the inmphuae and quadrature componente whare the agnal has been minimized to It grantest degras. The VLF-tranemiting atatiana at Cutier,

Maine and Panamb; hava bean usad for thie burvey.
The lawur and of the handle wlll, a a mala, point tow wards the conductor and the inatrumant is mo alibrated thet when epprouching a conductor, the anglen are positive in the In-phase component.

As with uny lactromsgnetde undt, the lergant und benst conductors give the highast ratio of the incpheme and quadratury components.

## Manolithmetar Guryay

A Sharpe M.F.-1 Pluxgata magnetomotir was unad In the magnatic burvay. This instrument maseures the vartioul componant of the earth's magnetic fiald in gemmas. Base atmations for detaraining the magnatic diurnol variations wera astublishad tiong tha main base line at 100 foot Intervale. Mapnetic readinge were taken at 50 foot intervals, aleng the croas linas.

GEOLOGICAL SURVEY
on the property of
MELVILLE MINES \& INDUSTRIES LTD.

Baden Township, Dntario

In conjunction with magnitie- elatramagnetio uurvay, - geologicel survey hae bean carrimd out on the Baden Tounahip praperty of Melville Mines \& Industries Ltd. The 19.5 miles of pieket lina for contral of this wark were mateblishad during the parlad July 29w to Auquat 26 incluaive, whila the gunlogiana flald wark was complated during the Auguat 17 th to 31at paried.

The objact of the survay work wat to determine the potantial importence of two gald occurrancea an the property,

## PRDPERTY, LOCATION AND ACCESS

The property of shout 960 scrals conials of 24 unpmented mining claims designatad 326145 to 326168 inclusive.

Located in the mouthmaet sector of Baden Townahip, Ontaria, atradrling the Montreal River, the proparty in bout 42 milea southoast of Timmine, Ontario.

Accass is most convenient by float or aki-aquippad aircraft to the Montreal River from South Porcuplne Lake, Altarnatively, the property is mecosalible by boat, north on the Montreal Rivar from Mataahewan, aletanam of about auvan wilas.

PREVICUS WORK
Previous work on the property is outlined in the marginal notes of Map P195 by the O.D.M.

In 1936, under the auparvision of 0. L. Holbrooke four holes ware drillad undar goid bearing quartz vain, 16 inchee widn,
on the wast ghore of the Montreal Rivir. In ane hole, Holbraoke raport a mection of 40 Pant which avaragad 1.14 gz. gold. No aignificant valuas ware encountarad in the othar thres hales.

To the aast of the Montranl Rivar, Holbrooke raporte that - Etrong vartical mast-west tranding shmar, containing paralial quartz veins, yieldad asmays from grab mamplen of 0.01 to 0.46 oz . gold par ton ovar width of 12 fant and a lengen of 600 faet. Along this zone twalva amples were taken from various pite and dumpe on claima 326168 and 326165 by the ataff of Shield aeophyale in Julv 1971.

In 1957 an eleatrical roativity mon malf potential aurvay by Geophysical Enginaering and Surveye Limitad did not indicate any aignificant anomaliag on the proparty.

## GENERAL GEOLDOY

According to Map P195 by the Ontario Dapartment of Mines much of Badan Townahip is undarlain by matavoleanic racka which have been intrudud by mail badies of granitoid rocke and dykes and sills of diabase. The northast anctor of the Townahip is almast ontiraly undarlain by granite.

The Montreal Rivar Pault, major atructure in the order of 100 miles lung, crosese the Townahip and the clalm group following the Montras fiver in a northwent dirwetion. In the wast half of the Townahip the Misilnikon Lake fault trikat north.

Bold showings in the Townhip are found in metavolcanic
rocke nuar tha contacts of oranitoid rocka acourding to the obayrvations of H. L. Lovall and espletanta, gealogiat for the Ontiarie Departmant of Hinas.

## TOPGGRAPHY

Squaral north trending rock ridges mre prasent on the ground and rise 50 to 100 faet mbove the general lavil of the Lake. Theae ara formed by bath basic volcanic rock and by diabace silia. The largast fidge on the wast alde of the cladme forman by dinbase sill. The arse is one of Pairly heavy trew grouth and his devaloped after a fire 60 to 70 yare so which deatroyed the original timbar. Since the fire, outcropa have enquirad athick coating of mase and well rootad trees to that rack, while abundent, it ime posalble to vimw aasily in most casas. Much of tha rock bould only be asen to a graeter axtent by mploying eensiderable stripping of mose and roote.

## [ie olligy df the melville property

## Rack Typps

Approximately 10 par cunt rock exposure is present on the claim group.

## Iable of Formations

Diabaer - mills and dykes
Intruilive Contact
Acld Intrualva Rocke
Intrual ve Contant
Matavalcanics in Altered basio to falsic volcanic rooke ib Alterad tupf
ic Pillow lave
1d Agglamarata

The matavolcanic rocke on the property are penarally dark coloured varying frow a dark gresn to fat black, with a pine grained to aphanitic texturn. The usual volcunic famturan mre not well developed bacause of metamorphism. Thie metamarphiem may account for the almost imparceptible change of derk colpuried faleic volcenic rocke, with charactarlesic conchoidel fracture, to elightly lighter colourad intermediate type volpanie rocke at various locations on the property. There appare to be gather highar concentration of pyrite in the volcanic rock than is normaliy expected. On Line 28E, Stetion 155, for inatance, up to 20 per cent pyrite da present in the black rhyolitic voleanice.

An mrea of apglamaratic volcanice trending mbout mat is prasent in the west-centrel sector of the proparty on either side of mmall leke. The rack exposures show Etritohud mimost parallel fragmente of amydaloidal felmio lava in dark gram endasitic matrix.

In the south-cantral smetor of the praperty, araazed by Lina 20w, an area of poorly davalopad pillow lave is praant.

On the wast share of the Montral River mas the north boundary are expoauras of intormedlate tupfa.

Vary fow granitaid rock are oxposed in the eurvey ares. On Line 32w, Gtation 19 N, is presant a northemet trending oplite dyke, six faet wide. The volcania racke at two imolated lacations along the ast and weat ahorea of the Montreal River have bean altersed by the devalopmant of pink faldapar and carbonata. Thase
oxposuran ara tarmad oranitizad voloanief.

Expoaures of diabase on thi proparty are unusually wideaprasa. Typicaliy, madium to comras orained, with a grey colour. the rock wathers brawn. Inasmuch as there is no pbulous inagnatic indication of tha diabaac, it is probable that the rook forma sill-11ke bodina of minor thicknogata.

The mein arat of diubses exposure in proment in the ax trame weat anctor of the property. The teridenoy for the mpaturaie, in forming penerelly northmouth ridgas, to raflect the long dimension of the eilla, is well developed hare.

## Struatural Geology

The faw strike end dip determinetiona that cauld be obasrved ere confirmed by the ent tranding inamonetios.

Tha Montraal Rivar fault trending northwestarly thraugh the claims is of course a major structure et leant 100 milas long. The magnetic bubceptibilities and electramagnatic ourvay on the proparty both confirm the existamce of tha fault. A ripht handad horizontal diaplmesment on tha fault in indicatad by the manetic survay wharane the O.D.M. postulates lapt handed dipplacomant. In any avent the dominant movement on the fault in probably vertical rathar than horizantal. Other faulte on the property tranding north and nor thwast are postuletad from the magnatic survay. Only - Fied minor faulta ware obeerved in the outcrope.

Ona ant of jointa on the property paraliels the northwest tranding faulta.

## Egnnomic Gnolpoy

Tha main interuet in the property has avolvad fram the presence of two gold occurrances on either elda of the Montrand Aiver. Thase showinga ara daecribed follows:

Egat Showing - A gold-biaring quartz vain is poorly expoasd bitwaen Linge $24 E$ und 28E just math of the base 11 ne. The vain about 10 inches wide etrikea mat-want. Banding in tha gray pyritizad quartz is marksd by chlorite. Although there is ouldonce of ofalr smant of ald trenching in the vicinity of the quartz vein there is no evidence of alamond drililng.

A totill of 95 amplas have bean taken from trim showing aras fur gold and allvar analyses. Eleven amples of brakan rock on the edges of the various plta returnod assays ranging Prom trace to 0.05 az . gold per tan. The tample material consiats largmiy of pyritized blus-black foluic volcanice, opparentiy veln wallrock. Four sumplea of vinin materiel maseyod $1.43,0.95,0.06$ and 0.46 dz . gold par ton.

Just south of the main pit o wak conductive zone has been locsted whioh coincides with the edge of an east tranding lenticular magnatic high, eaveral hundred feet long. (Sae Electramagnetic - Magnetic Survey Repart)

Wrat Showing - Thare is no mpparant surface expreseion of the west showing. Un the marginel notar of Map p195 G. L. Molbrooke reported a drill intarsaction of 40 faet which masayad 1.43 az . gold par ton. Thraa additional holem falied to intersmot valume.

During the preasnt survey arill hole was located et 6 + Dod adjocant to tha base lina in un orea whare averal pita and tranchaw are present.

Qthar Minaral Uccurrencag - At Stetion 65, Line 36E, amall mount of molybdenite minaralization was faund in an intermediate volcunic rock with apidote amama. A mample of thim matirlal assayad 0.06 par cant $M_{0} S_{2}$.

A number of pyritizad quartz velns
ware locstad duriny the aurvey wark. Thase include a vain 6 feet wide within intarmadinte volcenic tupf near the north end of Lina ow. Uther veins are located on Lines 44, 8w, 32 w and 52 w an ahown on the accompanying plan. Mont of thosa gocurrances bhow evidence of work in the past but none were mompled during this projact.

CONCLUSIONS
The ganarally ant otriking biale to Palaia metavoleandes are overlain in places by thin diabas sille. Althaugh variou valcanic atructuras in the matavalcanicie could be racognized with difficulty, tha componitional changaa waxi so imparcaptible that classificetion was not fasaibla. Based on the geophyalcal data, north-northwest and north tranding faulta ore pogtulated to cut the volcanice with minor horizontal movament and parhapa major varticel movament. Uf course the Montreal Aivar fault is tha dominant atructura.

It hes baen determined thet narraw grey quartz veine
contain tha gold at tha mast gold showing. An erithuatic avarige of four asays from the vain material is 0.72 oz . gold per ton, tharaby indicating that if oufficiant vain material could ba 20 catad a profitable mining vanture might wall ba viabla. A surPace expression of the west pold ahowing has not yot bean lacatad.

The magnatio - elactramagnatio survay mtudias in ralation to availabla geological data indicates that gaologiead anviranmant similar to the east goid showing is present along the baine IIne acroas most of the proparty. More apodifically an arae lying between Lines 48 W and 32 W along the base. 12 n a appeara to be most interasting. Harg a very prominant magnatic law is asanciatad with two wak to modarate atrangth conduotive zonas, condition similar to that prosent at the mast gold showing.

A numbar of unaompled pyritizey quirtz valna located during the aurvey bear no partioular ralationahip to the gao physical aurvays.

On Lina 32E, 5tation 6S, on axpoaure of opidatizet valcanic containa minor amounta of molybdandse.

RECUMMENDATICNS
It is recommended that programma of caruful prompacting, rock tranching and ampling be concuntrated in threat areas, namaly, tha ast and wast gold thowinge and that wrab lying alang the base line betwean Linas 480 l und 32 w . At the wame time the Ronka EM 16 unit ghould be utilized in thase argas to bettar define the location of conductive zones and theruby asalet in the poasible
datarminetion of thai cause. The various quartz vina on the property should be sampled and manama.A three man crew, including geologist, is proposed forthis work over a two week period. Estimated cont in an followsGeologist . . . . . . . . . . . . . . . . . . 81000.00
Crew of 2 man for trenching, prospecting ..... 1500.00
Equipment (camp, plugger, food, etc.) ..... 500.00
Transportation ..... 200.00
Preparation of report and essay ..... 500. 00
Eutimatad Cost $\$ 3700.00$Dependent upon this work drill programme would beformulated.

Timmins, Enteric, Datubar 7, 1971.

w. Gilman. Consulting Cualogisss.

APPENDIX
Bampling and Ansays

| Samplo No. | Loontion | Au/oz. | Ag/az. | $M_{0} \mathrm{~S}_{2} \%$ |
| :---: | :---: | :---: | :---: | :---: |
| 1. - grab with pyrite | LIn: $16 E$ 9t. 75 | nil | 0.02 |  |
| 2. - grab with pyrita | Line $28 E$ St. 155 | n12 | 0.01 |  |
| 3. - grab with $\mathrm{Mo}^{\mathrm{S}} 2$ | Lina 36E st. 65 |  |  | 0.06 |
| 4. - grab with pyrita |  | $n 11$ | tr |  |
| 5. - grab ropresentative | East mowing quartz viln | 0.95 | $t r$ |  |
| 6. - grab reprasentetive | East showing quartz vain | 0.06 | $t r$ |  |
| $\begin{aligned} & \text { 7. - greb } \\ & \text { rapresentetive } \end{aligned}$ | Cast ahowing quartz vein | 0.46 | 45 |  |




AS ASSESSMENT WORK

In order to simplify the filing of geological, geochemical and ground geophysical surveys for assessment work, the Minister has approved the following procedure under Section 84 (8a) of the Ontario Mining Act. This special provision does not apply to airborne geophysical surveys.

If, in the opinion of the Minister, a ground geophysical survey meets the requirements prescribed for such a survey, including:
(a) substantial and systematic coverage of each claim
(b) line spacing not exceeding 400 foot intervals
(c) stations not exceeding 100 foot intervals or
(d) the average number of readings per claim not less than 40 readings
it will qualify for a credit of 40 assessment work days for each claim so covered. It will not be necessary for the applicant to furnish any data or breakdown concerning the persons employed in the survey except for the names and addresses of those in charge of the various phases (linecutting contractor, etc.). It will be assumed that the required number of man days were spent in producing the survey to qualify for the specified credit.

Each additional ground geophysical survey using the same grid system and otherwise meeting these requirements will qualify for an assessment work credit of 20 days.

A geological survey using the same grid system, and meeting the requirements for submission of geological surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geological survey a credit of 40 days per claim will be allowed for the survey.

Similarly, a geochemical survey using the same grid system with the average number of collected samples per claim being not less than 40 samples, and meeting the requirements for the submission of geochemical surveys for maximum credits, will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geochemical survey a credit of 40 days per claim will be allowed for the survey.

Credits for partial coverage or for surveys not meeting requirements for full credit will be granted on a pro-rata basis.

If the credits are reduced for any reason, a fifteen day Notice of Intent will be issucd. During this period, the applicant may apply to the Mining Commissioner for relief if his claims are jeopardized for lack of work or, if he wishes, may file with the Department, normal assessment work breakdowns listing the names of the employees and the dates of work. The survey would then be re-assessed to determine if higher credits may be allowed under the provisions of subsections 8 and 9 of section 84 of the Mining Act.

If new breakdowns are not submitted, the Performance and Coverage credits are confirmed to the Mining Recorder at the end of the fifteen days.


## AS ASSESSMENT WORK

In order to simplify the filing of geological, geochemical and ground geophysical surveys for assessment work, the Minister has approved the following procedure under Section 84 (8a) of the Ontario Mining Act. This special provision does not apply to airborne geophysical surveys.

If, in the opinion of the Minister, a ground geophysical survey meets the requirements prescribed for such a survey, including: .
(a) substantial and systematic coverage of each claim
(b) line spacing not exceeding 400 foot intervals
(c) stations not exceeding 100 foot intervals or
(d) the average number of readings per claim not less than 40 readings
it will qualify for a credit of 40 assessment work days for each claim so covered. It will not be necessary for the applicant to furnish any data or breakdown concerning the persons employed in the survey except for the names and addresses of those in charge of the various phases (linecutting contractor, etc.). It will be assumed that the required number of man days were spent in producing the survey to qualify for the specified credit.

Each additional ground geophysical survey using the same grid system and otherwise mecting these requirements will qualify for an assessment work credit of 20 days.

A geological survey using the same grid system, and meeting the requirements for submission of geological surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been teported with any other survey and is reported in conjunction with the geological survey a credit of 40 days per claim will be allowed for the survey.

Similarly, a geochemical survey using the same grid system with the average number of collected samples per claim being not less than 40 samples, and meeting the requirements for the submission of geochemical surveys for maximum credits, will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geochemical survey a credit of 40 days per claim will be allowed for the survey.

Credits for partial coverage or for surveys not meeting requirements for full credit will be granted on a pro-rata basis.

If the credits are reduced for any reason, a fifteen day Notice of Intent will be issucd. During this period, the applicant may apply to the Mining Commissioner for relief if his claims are jeopardized for lack of work or, if he wishes, may file with the Department, normal assessment work breakdowns listing the names of the employees and the dates of work. The survey would then be re-assessed to determine if higher credits may be allowed under the provisions of subsections 8 and 9 of section 84 of the Mining Act.

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If new breakdowns are not submitted, the Performance and Coverage credits are confirmed to the Mining Recorder at the end of the fifteen days.



## AS ASSESSMENT WORK

In order to simplify the filing of geological, geochemical and ground geophysical surveys for assessment work, the Minister has approved the following procedure under Section 84 (8a) of the Ontario Mining Act. This special provision does not apply to airborne geophysical surveys.

If, in the opinion of the Minister, a ground geophysical survey meets the requirements prescribed for such a survey, including:
(a) substantial and systematic coverage of each claim
(b) line spacing not exceeding 400 foot intervals
(c) stations not exceeding 100 foot intervals or
(d) the average number of readings per claim not less than 40 readings
it will qualify for a credit of 40 assessment work days for each claim so covered. It will not be necessary for the applicant to furnish any data or breakdown concerning the persons employed in the survey except for the names and addresses of those in charge of the various phases (linecutting contractor, etc.). It will be assumed that the required number of man days were spent in producing the survey to qualify for the specified credit.

Each additional ground geophysical survey using the same grid system and otherwise meeting these requirements will qualify for an assessment work credit of 20 days.

A geological survey using the same grid system, and meeting the requirements for submission of geological surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geological survey a credit of 40 days per claim will be allowed for the survey.

Similarly, a geochemical survey using the same grid system with the average number of collected samples per claim being not less than 40 samples, and meeting the requirements for the submission of geochemical surveys for maximum credits, will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geochemical survey a credit of 40 days per claim will be allowed for the survey.

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If new breakdowns are not submitted, the Performance and Coverage credits are confirmed to the Mining Recorder at the end of the fifteen days.






