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## MICROCOPY RESOLUTION TEST CHART

 (ANSI and ISO TEST CHART No. 2 )

BULLETIN N0. 2, 1915

## THE MINERAL RESOURUES OF THE

## atLIN MINING DIVISION

DI
W. M. BREWER, M.E.

SUDYBTTED BY
WM. Fleet robertson, Provincial Mineralogist


PRINTED BI
AUTHORITY OE THE LEGISLATIVE ASSEMBLY.

FICTORIA, B.C. :
Printed by Wizwian F. Culziw, Priater to the Eingis Mont Exeelleat Magnty. 1818.

# BRITSEH COLDMBA BLREAF OF MINE 



THE MINERAL RENOTRCE OF THE:
ATLIN MINING D)IVISION

H
W. M. HISEWF:H, M.E.
sthuirtel แ
WM. FSEFET ROBEHTNON, Provincial Mineralogint

adtiority of the legislative assembly.

Camp of o'bomel Placer Cen lith-itromerl River.
 Mininter a/ llillex.




Nir.
linll almalloll wrivall.

##  <br> Prarimeinl IVimraluyiat.




# MINEKAI, RESOURCES CF THE ATLIN MINING DIVISION. 



## ATLIN LAKE SECTION.














 blants, chans, whter-lltelow, Hul Humb

 ful lu rertalit barta of the dintrliq.







 fo mot litorfere with oferintlig the drialgo.

## O'DONNEL RIVER.




 nbont tweuty-thres millos up the rlver.





 of lenses sitmated abont sixteen milles almo the month of tho rlver. Tha mexpmetel
 bench, ubout 40 fred higher elevathon than the lnal of the strenm, riwitied lin the
 the locatlon of n number of leases. It was nut sutll the summer of 1914, " vover,


Fonrth of July Creck-Atin Mining Divinion.


ATLINN MINTNNGORDIVISION
that nuy funatity of placer gold was rerovered, as it was late in the autumb of 1913 before aug wator systen had lieen installah; this was done hy J. M. linffer, who lund banded the Gold Hill bench cialma and gronj of leases.

As the grate of the led of O'lonmei river is flitter titin natiai in mountafip stienms, water for shabing hy biydranile methods bis to be brought lit hy ditelies and dimmes from Cingon and berry craeks, tributnries of obommei river.

Canyon crock flows lito the rlver from the north-west and forms a conflnence witin the river abont three miles above the point where tha "puy" hind been dis. covered. Ihis fact necessitaterl the const fuction of a ditch two miles and threequarters in lengtli and a flume 1,600 feet in length to doliver water at 200 -foot liend.

Berry creck fows into the river from the cint and emutles abont ante mile ant a haif below the polnt where the "pay" hat been diteovered. I ditcle one mile in lughth, whth feng feet of thme ant at pipe-lint hill a mite jong. comprised the constrution-work found necessary to derifer thls water at shofoot head. It is esthasterl that these two sources furnlsh ahout 1,000 miners findies of water.

In additlon to the distovery of pas-gravel on the benches, J. M. Rufiner also fouml " 1 ing" dhring 1913 in some of the bars along the river-bed, but, in order to work hy hodranlle methods, It was neressary to ehange the course of the river hy cutting al diversion-eanai, and also to instatl ati elevator tu stack tle failings, as the grade of the river-bed is too fint to carry then away. This work, as well as testing with an Empire drili, was finisised late in the season of 1914 under the superintendence of Frank lirage, who sucembed J. M. Juffer as manager of the North Columhia Gold Minlug Company as well as of the O'Donnel Placer Companr, Limited.

Tbis company was organized by J. M. liuffner during the O'Donnei Placer wiuter of $1913-14$ to take over the Gold $/ 1$ ill and other leases ite Co., Led. had prevlously bonder, int several miners were enguged to lunke crosscuts or drives into the river-bank to search for tbe pay-streaks In the bench ahont 50 feet higher elevation tian the hed of the river. This work resulted in (יxosing goldbearing gruvel in three anclent channels where the hedrock has wayy lines with dips at varying angles and sometimes quite depp, but at other times khatlow.

The led-rock on which most ef tbe gold is found is a yellow elity slmilar to that Iescribed hy the Provinclal Mineralugist fu the Minlstur of Mines Ieport for 1004 , and designated hy blm as the "old yellow channel," noted as ocrurring on lower l'ine and Spruce creeks, and his theories then expressed have heen demonstrated hy the work on O'Donuel ilver to be correct. From his report the following abstracts are inade:-
"Since the previous vislt of the writer (ln 1900) the development of the camp las ronderad clear many points which were previonsly little more than indications, ant, as such. Were given ln the lequort of 1900 . The conclusions then arrived at have been almost exactly borne out hy the sulaseqnent work; the area of the fleld remalus the sime; the : ${ }^{\text {d dence is strengthened that line and Sprnce creeks at oue }}$ time joined abont Stephendyke and then dehouched to the north, towards Trond guich, emptying finto it lake, which then eovered all the flats at the Half-wny llonse, and that the present course of these sfreams below this point is of recent cutting. The 'old yeliow cinnnel' has developed along the lines then indicated, bnt to an extent not then hoped for.
" In 1900 the lrovincial Mineralogist attemited to ascertaln the direction of flow of this yellow dirt. by taking levels at virlous points, ind while these levels were not comelnsive. they indieated a flow, which subseqnent work has conflumed, giving a grindo to the deposit conforming in direction to the flow of liue and Sprnce creeks, but it is so sliglt (betweell 1 and 2 por cent.) that it is difficnit to belleve that the
 grade: and, further, the workligs of the bydraulle pits, etc., notably tbat of the North Colnubia Company on liue creck, expose a face in which tbe lioary boulders nnd angular fragments are so deposited together as to render it extremely improbable that this dejosit is an 'old channel' in the usual neaning of that term-viz., the bed of in incient stream.

 and thls is whown by the more or less miform size of their romstituents. hy the rounded or flat water-worn form and faces of the aravel, and, afore ali, by ther
 or in some deflued stritum.
 While sume of the bonlelers are farge ami rounded, many are anghtar, the that ones ofteb standing on en : as thongh so drojped into mut, in stlif water. The greater

 most bart near ind-rock, though not neerwairily on $l^{\prime}$, it oweors some height ghovemore or less throngliont the clebosit. The charactelatis of the themsit did nut serem to manit of Its forving feren eamsed dirertly from gia ders. The evidence ls such as to force the couvietion that this depmeit was not furmel in ripiliy rimbing water, but that it was dropped in combaratively stili witor on a bottom (bed-rock) sheli as that of a lake or sea, with a aloper, fint not a rhanmel. As to exactiy how the dirt was deposited. there is room for varions therios, bitt the most probable seems to be that ghelers, earrying in their linses the dirt, slid luto a sea wr lake and, driven by
 forming the depmeit in questlon,
"This is firther lorne mit ly the fact, rejorted by the Suluerintendent, that in the Deeks plt, on line erese, during the bydranle working, a layer of seashoils was found fa and hear the top of the yellow dirt. This labor was very lowit, and dad not extema to the mbolniog pits, and was, unforthmately, all wasled away fefore the lerovibeial Mineralogist visited the eamp.
" It is not very cear where the glaciers wore formed. as bertaliny mo duart\% fins been fomm in the vieinity which would justif:s the belief that it is the malre de wro."

The bed-rock itself carries oniy trates of gold, as is shown from assays mater of samples taken from the pay-streaks ln the drifts. The work of crossenting the bench has been rarried to a distane of 700 teet on the wistream drive ald about di00 feet on the down-streall drive, with alwit simi feet lketween the elrives or cross-
 were exposed futhe up-strean drive it ti3 feet. 1 tion feet, 244 feet, and 433 fret in

 from the bank.

The system of mbing that has heen follower conslste of arifthg on tho pare streak and remowhg the graved from alove the bed-rock to the height that lt arries commercial values, nsmaliy if or 7 foet. and extemang the drifts to the widin fonnd
 coal-mine on ta: loug-wall system. The griovel roof and walls are found to stimd well without timbering. 'lihe dumps fonn the drifts were shleded during the past smmmer with siltisfinctory results.

In addition to this work, test borings with an Fmpire drili were math ob a har


 drifting.
 the that grade of the bed of orbomel rlver. wilf, of eonrse. to sombe extent fablie:bp oferations ly hydranli, methom in the river fisiff, by iureasing the cost. but only of handling the gravel. but also of the constration for ditobes and flames to earis water amd dellver it unter saflebent head, as all of the witer rembited mast low taken
 lines, as has already been the ease on the feasis owaed by the obonel fiteer Comp:ns, Jimitcal.

The success of the operatons on the Gold $H / 1 / l$ leases encourOther Leases. aged other holders to prowart durligh 1914 and endeavour to lowate eatenslons of the pay-streaks in the anchent chanmels, and, could water have been easily obitalned, there is no dombt but that mulh more actlyly would have been manfesteyl. The extent of the pay-streaks iongthwise has not yet been filly determberl. One at lemst of these pay-streaks las beed found to extend to the sumth on to the adjulalig lease, where the O'bomel Partuership, conslsting of five
 Irlving fok feet to where the pay-strak whs expesed. Churies Blller is mbing on a lemse alant one mille sonth from the linffing gromid, and reports sitlafnetory results.

To the north from lafner's work, in 1914, drift-minhg whs behg garied on at four folnts along the orDonne river, on the west sile, as follows: It the month of Geid creck, shont haif a mile north from Inffner's drift, where Garpenter nal flasmisen are worklug on a " bay" from linfuer; abont hale a mile farther unth
 miles farther north and abont me mile albore the mouth of Cangon creek, where the Fitagorald hrothers are drift-mining on thoir own lease; antid at the muth of Feather arek, sixtedn milles almwe luffucr's cump, where the Nolan Brothers are also dr!ftmining on thely own leas. The operators of all the leases that were being worked during the past season reported sathefactory results.

Inring the souson of 1914 there was nothhig particularly new to record whth regard to Mekee, Bonder, Inily, Birch, Wright, Otter, and Sprnce, the other produclug areeks in the Atlin Mining Division, exerpt that from near Blue canyon to the lead of Spruce areek, also on Slate creek, and other tributarles of O'Domel river. comsharable prospecting was carrial on, and some placer gold mineal from gromad that has recelved but littio attention lin the past. As the creak mentioned have all
 wrlter does bet derem it meressary to refer at length to them in this report.
 as expectally weli satisflet with the resuits of their work during 1914, not onis so far as the actual prombetom was concermen, but aiso beeduse of the fact that they had lued able to do comsiderable testing and develoment-work which had demonstratel rery promising pessibilites for the futhr:

On all of the streams in the Athin Ming ! islon, expot on the obomed riwer Its tribntaries, mid on Spruce ereek, such organgatiou has been effected as places earh everk pacticilly mader the control of one company or symbiente, therehy ensinIng the most satisfactory results, hermise of the alsenee of frition lutween competing Interests and the orpurtuity of adopting every monomy lu carrylue on operations.

No discoveries of hitherto mexplored areeks in the district were reporierl; iu fact, the absence of prospertors was noticeable, but there is still quite an extenslue areal surounding the borders of the Ithin cimp proper, as it mas be tomed, that is


## PROPOSED RAILWAY CONNECTIONS.

Dminir 1014 a preliminary survey for a raliroad was made from Takin inlet, ou

 provali with regard to investments lin mew enterprises.

The fict that the preliminary smory showed that the construction of such a railroad was feasible let to the renewal of some activity by owners of mineral ciaims, the probuct from which mast eventmaly be shipped to ontside smelters, but on which the present freight dates are prohibitory. It also has led to some inquiries with regard to the deposits of magnesite uear the townsite of Atim.

This deposit was filly deseribed by the Provinclal MineraloMagnesite Deposit. gist in the report of the Minster of Mines for 1904. Since the ontlerenk of the war la Furone tho manafacturers if the Vnited States who use magneslte have been mable to ohtaln the nsmal supply from Anstra and Greme, and, as deposits of sufficlent purity for commerclal
purposes are of rare occurrence, there la waswhilty that in the hear fizture the Atllu deposits, beranse of the remurkable purlty of the mineral fenmel therelin, maty

 becunse of the luck of all-rall transportathon facilitios and the insin froleht rates it
 Imanorted minoral.

## MINERAL CLAIMS.

## 


 Group.


 five miles north from the town, erater crefk, a tributary of fourth of daly arem,
 on thes clalm that all the development-work has leren dome.





 ated dyke inaterlal.

 or the upher dyke, whleh erosses the eastern ent of a depp einyon that forms the
 eanyon; No. 3 ocemrs abont 30 fert west from No, 2 dyke, ind ontureps ant the sumth slde of Crater crook: No. 4 dyke occirs areross the erook from No. it int onterops along a very prectplons hillside, the wall of a deep ainyon that forms the bed of the West fork of Crater ercek.
 thelr dilis varying from, so degrees, towards the morth-west, foretionl, No. f dyke has lts llne of strike nearly east mul dif uearly vertical.

On the No, 1 dyke, whleh shows dlsthet mherallathon fur a whll of morer thinn 30 feet, two adits have been driven with the line of strlio of the dylie: one of

 other, on the opresite slefe of the eroek, ennid not be axaminel bexanse the portal
 Who acemmpanfed the writer, finformed hlm that tho length of this adit was $\mathbf{1 0}$ feet and that it follows the line of strike of the ore-lmaly, iemonstriting the matratiance of continnity towards the northerast.
 that the mberaliation was bot comfoned to the materlal filling fissures and eavitles.


 throngh all of the material removed in triving the adit. The same comdtims ware also exposed ln the roof and flow ; consequently, concentraflon monst lw adopted in any oferatlons earried on, and the results will demonstrite the emmmerelal value
 A sample taken as representlag the averige of the oro as it might le serted for shipping assiged: Gohl, trace: sllver, 49.4 oz. : ladil 41.2 per cent.

 Int on this new work has bere done.



 muthon or smimithe was possilite.

Dyko No. 4 lims berin somewhat devidind be slukhig a shathew shaft on the
 betarently abont the same grade as was pomad th the ndit on dykn No, 1 . An

 datried far enmigh to expme the oremaly.

 luke.

Thls group, ansisting of the Larkly, Lirerpaol, Nanalino, Paris
Imperlal Group. Eirhibitim, nud Iuknoun mheral clahms, is ut present owned by W. H. Moore, of Namitmo, and James Stgkes nud T. II. Jones, of Athn. The chams are Crown-granted, and the property, whith is hetter known locnlty as the Jumro Jountain clalms, was very fully desuribed lu the Reports of the Mlulster of Mmes for 1900 und 1904; Mso in Memolr No. 37 of the Geological Kurvey of Comadn. by D. D. Calrnes, mbllshed in 1913. As no new work has been done sluce 1004 , it is mot deemed meressary to remat the deseriphon in thats report, ulthongh the property was vistted by the writer.

## Taku Arm.

Takit arm. which lles from south to north, ls one of the hendwaters of the linken river; It has ltw hemidout thrty-the mathes southerest from the thwn of Athn and enters Tagesh lake abont slstem milles rasterly from the town of Carross, where the White liass lahroad crosses the font of Beunett lake, and thins affords the opportunlty for water tramsurathon from fae rallrond to Taku, at the hend of the short pertage ietween Taku arm mul "'ha lake.

Several groms of mheral daims were lakiated in 1898 and 1 s90, in the momtalns on both east mad west shdes of Taku nrm near the southern end amougst wheh are
 or Lateson groups.

Thts property contalus the Hill, Plum. Engincer No. 1, North-
 Group. Vertion, Vichry, Xurlierat Pathorship No. B, No. f, und Xo. ; mitheral daims gromped as the Engincer mines, ambl at present owned by cobtain James dexamber, who reshes on the property. The White pase Railway's stem-whed stemmer " Ghemer," whth phies betweell Carcrose and Takn portage, ell ronte to Athm, miakes regular calls at the camp, althonght that is situateal


The mineral chans: :r, staked tan one bock, bat ha fwo thers; the tive tirst named. formug the western tion, ai located in a line from north to sombth, whth the western bomdary-line in the wator baraladhig the shore for a distane of nerarly a mile and a half. The eastorn tier of emans ls made up of the remainimg the maeral ciatms


 shore, and wheh forms the foothills of a high mountalit range that is the divide betwem Takn arm :nd Atlin late.

The histury of this promerty is lateresthin becanse of the several umusual featuris connerded with its develmmeut singe the orighal lecations were made in 1899 by a party of ikathg engtheers working for the White Irass and linkon hallway, who dis-













 but cumpteteri.















 colviration that was contemilathge purdhaslug it.


 In 10hl, whase repurt is puhishat lin Mmoir No. 36. Issuet in 1013. All of these
 to the jurformaine of the devedepmant-work herelanfer deserilet, the most lim-


 beel dome by the present owner.

 " probuminatoly furdereforous, fhemely textmred grewackes, whates, and slates of the labured serles. Whith rang from brownish and dark grem to abmost back lu


 W. ant dip to the burdhemst at an avernge nugle of 3 degrees. Most of the ore


The writer fombt two well-defined series of weln-strmethre, and in all wheteen beins were pambined, on whill more or fess work had been done. The outcropings of sisteen of these are mentioned in the lidoorts of the minster of Mines for $1: 100$, and of D. D. Calrmes in Memolr No. 37, alrealy referred to.

The velus whel comprise the first serles rudiate from two eentral hubs or metios composer, principallys, of quartz, the expmed dimenstons of each of wheld
 shate mixel with the masser of gllartz. The weins whith comprlse the second series


























 up of practlembs sold mheril und represents the rlehest furthon of the with. The
 of the velu is chlethy mate uf of breechated shate ami slite wheh, with seatered
 varlable vilnes whill are free milling but mparohty of low gralle; huwever, to attempt to simule this purthon of the veln was malle heransio uf lis varbabilty.





Another sample taken from tre fare of the adt and repromintug 12 meltes on



 of trathg the are from thu veln alwe deserlhen In the 2 -stamp mill. All the ore treated was hat takioll out while drlwhe the milt and slaklug the whase, thgether with the prodict from an mpratse to the surface above the whas, and a short stope In enclt diverylon from the upaise.

There is a posstallity that this No. F: win may eventually be proven to be a
 Norles :hnd outcrins hear the woulli-west corner of the Northern Partnership No. 2 mberal clatm, or ahmat 1.50 fire fom the purtal of the allt on No. E: veln, but nu comaretun has yet luen estabished; In fact, there is : space of neany 300 seet whe where no ontcropping liave been loraten, nod where the owerburden is very deep. The llue af strlke of the No. 8 veln Is N. $15^{\circ}$ E. and dip at an angle of $\mathbf{7 0}$ degrees lowurds న. $8.1^{\circ} \mathrm{W}$.
'fhere has beroll considerable new work done on the No. s vein during the past three years, eonsloting of di:iving as adit about 40 feet long, In additlon to trenching from s to 10 feet dexp for a length of about 400 feet along the strlke of the veln.



 farr remelsefl.





Disg. 4. Map showing the vein outcrops on the Engineer mines property, and on the Gleaner group. Allin mining district, B.C.

From Memoit 7037, Geological Surrey.
temathe mamer, which was not prationhle would be very misheading. Some of the ore mind from the devehpment-work wat milled with satlafactory results.

On the other velus the development-work has been principally conflued to surface open-cuts ant treneting, which totals abont 4.00 feet th tength, whlle the total lomath of untergromud work reaches nearly 1.0 oro feet, whith includes 300 feet of adit and 00 feet of shaft, work done by the original compuny:


#### Abstract

         








 Group.











 114+10 rly A1引 | 1 :alli 11 rimel lime F tho III rin. forit - riflil ir ater ons tar $r$ ill -h. ' 1 lo
 det) fort whath fre ill the Eingineer Ime.




 characterlslles for that lengit.
 shaft, and after assaying showed only truces of gold allil rer.

This gromp cilisisis of three a clatimes $n$.
The Gleaner Group. that wre altumidul to the anst we and
 owners were ln the vicints, the pen ris wis of :m wat by the writer, but, from the repo of 1). Ib. Calrues III Mement No. in 11:
 on the Gifaner chatms are the sames as on the Engituer mine. d. arm

 execption of small :mbimis of nallw gold, tron liseltes, umb Irom wail
 Lawson Group. Hilmo fimm the shore if Takn arm. on the west shte if Ble Horn crenk, which embles lito the west shie of Takn arm alume (oul
 resldes on the property. Thiss. Kirthan, Whilam Lowell, Itoht. Lelton, I bin sulltwa,

 have prevented a thorongh eximination, the writor did hot vist it.

Demolr 37. Cimadian Geologion Survey, contalns a full desc iptlon of this group. A brief sympasis of that report is as follows: That the ruck formations









 tis ! furli neromm.

Shn'e the

 tronter sinise of the hish-grade guartz.




 tranwny:

## RAINY HOLLOW.













 corrued wlues 1 lers.


 uluntioner.




 Crown grnits nopled for, and the owners word wattige for purchasern to Invest.

 following report.




 butte. The strike of the ure lin the maln workligs or No. 1 openceit ts north and
















 cent. ; and gold, trace; sllwer. $80.80 \%$ : copmer 37.9 per cent.

Idooking down lalles of Hainy llollow-Itin miniag Divimion.





 limestonli.





## Ellse.












 Hte-m





 "וn










 allal It reet derill at the fare.








 flows.





 averages 2 fret whe and djps at an angle of at degrees townrd: the north. The

 Gold, trace; shler, trace. Amother smmble whill represented about an avernge from the dump of ore saved during the progress of work aswayed: Gold. trien; sllver, ! !, i $0 \%$; lead, 12 per crint.

Thls mineral clatm is slthaterl near Jurvis creck, adjohing

ronway, Ithelard Kemmely, and Willam Burnham, of skagway,

 thsimes, which are quite marrow, arre then with Iron-stalned brecchatem materlat



From a gilel about $\mathbf{5} .0$ tere below the surface a drosseut adt has been driven
 meredill grade hats bern exposed. The sime comblathas were found in a shallow shaft sumk on the smmit of the rogna, as will as fin two open-cuts.

This mbural dion jolns the vieforit on the north, and is
War Eagle. ownell lis the samu barthos. At a polat about 800 feet in a N. $10^{\circ}$



 lineons dyke. The mineralizathon nimears to be from the alteration of pyrrhotite
 -hamge - atberable hathe mberalization.

Thas maneral dalm hs stmated on the north slde of Whlson
Majestic. [Perk, a trlhutary of klehai rlver, ciliptying lato it about half a mulde sulherast from the mouth of Jinvis creek. The owners arle Comway, Kimandy, and burnham, of skigway, Alaska. Whson ereek flows throngh a dep, "anyon whth preedplons walls, and on the north-east slde, at an devation of 3,100 feet, the we orenrs a binf made very prominent becyuse of an ontropplig of gissan, Bo fret whe, betworn crystalline limestone and a dlorlte dyke.
 degrees towards $\mathrm{N} .80^{\circ} \mathrm{W}$. 'Tlie dlorlte dyke is abont 100 feet whe, apparently an lutrislon luto the limestone, and has its llae of strike conformoble with that of the gussill-outcropping.

The work on thas arcurrince consists of an opra-cut 20 feet long by 30 feet Whac by 20 fert high at the fare. lit whild the minemitation shows mo ehange in daracteristics from those of tho ont cropplag. As free gold is the only probable valne it is likily to carry, and it failad to show any from paming, no sample was takin for assay.

Thls mineral elaim, which is sltuated adjolning the Majestic
New York. Chim on the north, Is ownetl by Captap M. C. OComer, of InInes, Alaska. At the contact hetweea crystaline llmestone and hornHende gheiss there oreurs a veln from 6 to 8 feet whe filled with gossan, wheh ean be tracel for several humated feet on the surface, along a general $\mathbf{x} .15^{\circ} \mathrm{W}$. Ithe of strike. Several open-mits have been made. Which, whlle demonstrathg the eouthanty, have fallet to show the ocenrrence of any mineral of commerclal value.

This mheral clatm is distant about 1,000 feet lin an ensterly Adams. Uirection from the Neic York clalm, und is also owned by Captaln M. C. OComnor, of Hulnes, Ataska. There ocur two well-defined leads on this clam, the gossan-cutropphing of wheh can be traced on the surface for sever:il humbed fent. One of these is 30 melhes whe and is slanated on the cist side of the chalm: thls is called the No. 1 lead, and is made up of epldote and zoislte, with it little graphlte. The other, uamed the No. 2 lead, occurs abont 600

 end line of the ciatm.

 an fron mineral, alld, so far, shows no other metallac contents. This ocenrs nt
 the west side.








 Gangue, with the gatena usually oxemring as klemes or lanses in the gatane, but at














 hoth sldes of the dyke, with the lime of strike N. Et F .

This work was done at thes point brealle it was assmand that the mineratgat tom was an extension of the lead on the dhums mineral ditu, but suthelutht work has
 rences. No sample was taken, heallse it was abldent from the mpearance of the
 development-work has been done womb pasimy be mixdeadhit.

This milueral cham is sithaticl adjoining but in a sonth-
 Conway. Kennedy, and Burulam, of Skagway, Daska. A louz adit was driven on this clalm several years back, but ronld not be cammed becalles
 minerallzed zone between crystalline llmestone and altered argillites, with its linn of strike northeast and dip north-west, but nearly vertical. Is the adit conid non be examined no samples were taken.

In additon to drivhig the adit, sewrat open-chts bad been made, in all of whid the same character of gossan as is found on the reustry and thlums mineral clatims in exposed, but it is not possible to trace any comthuity lotween the soperal socalled leats until conslderably more develpment-wom has beren done.

This gronp of minerall chathe is sithated abont four miles

 Sullivan, Frank Siluclet. Theal Smith. Jim Irving, Chas, Murphy. Frank Murby, Scotty Jemulnes, and C. Claytun, lowal prospectors, with headquarters at Maines, Alaska, E. S. Whkinson, B.C.L.S., of Victorla, who had been surveying











 rettrficyl to llıhar.








 States terrltory and nlsont twiolve miles In famblan territory.

V1"TOHIA, H.C.:
 1015.


