REPORT ON

CUSAC'S TABLE MOUNTAIN AREA GOLD CLAIMS (CORDOBA, TARA, PETE GROUPS)

PART I

PERIOD: SEPT. - NOV. 1979 TRENCH AND OUTCROP MAPPING SAMPLING, DRILL HOLES, PROJECT SUMMARY

PART II

DINO VEIN BULK TEST, DEC. 1979

FOR: CUSAC INDUSTRIES LTD.

BY: J. Poloni, P.Eng. W.D. Groves, PhD., P. Eng.

January 28, 1980



Trench and Outcrop Mapping, Sampling, Drill Holes, PART 1 Summary, 1980 Project Program.

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1:2500

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Bondar Clegg #A29-1640 Dec. 20, 1979

Delta Refining [#]00104 Jan. 2, 1980

General Testing Labs #7912-2761 Jan. 7, 1980

List of Assay Sheet Numbers - Geology

Bonder Clegg Assay Report No.

Date of Report

A29-521 -
A29-534 -
A29-653 -
A29-696
A29-868 ~
A29-989
A29-1009 -
A29-1036 -
A29-1117
A29-1282
A29-1282A
A29-1316 -
A29-1335 -
A29-1388 -
A29-1533
A29-1522
29-1801 (Geochem)
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New Energy Assay

July 24, 1979 July 18, 1979 August 3, 1979 August 14, 1979 August 31, 1979 September 11, 1979 September 21, 1979 September 27, 1979 October 5, 1979 October 18, 1979 October 26, 1979 October 26, 1979 November 14, 1979 November 30, 1979 November 28, 1979 September 17, 1979

Dated

August]	.5,	19	79		
August	16	, 1	97	9	
August	22	, 1	97	9	
August	23	, 1	97	9	
August	27	, 1	97	9	
Septemb	ber	5,	1	97	9
Septemb	er	25	,	19	79
Septemb	er	13	,	19	79

SUMMARY OF MAP NOTATION

Mn	Manganese
Qtz.	Quartz
Fe	Iron
W. /	Weathering
Brecc.	Breccia
Cht. Chty.	Chert Cherty
ø ·	Transition Phase (\mathfrak{T}) direction of injection
Frax.	Fractures
$\checkmark = 40^{\circ}$	40 ⁰ angle between axial direction and foliation measurement
Dk.	Dark (
Arg.	Argillite
Δ = 6 ⁱ	Vertical trench wall height = 6 ft.
Blk.	Black
Volc.	Volcanic
lneg.	Irregular
Xline	Crystalline
F.G.	Fine Grained
Poss.	Possible
Sphal.	Spalerite
Sil.	Silicious
A	Andesite
AT	Andesite Tuff

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Eight holes, totalling 2,000 feet of drilling were completed. Three of the 5 holes drilled on the Cordoba claim intersected gold-quartz veins. Unfortunately, none of the three holes drilled into Presunka's Fault, on the Pete claim, found by geo-physics earlier in the season, intersected significant gold-silver mineralization, though the structure seems favourable.

Results of geophysical and geochemical surveys and most of the surface assays from trenching appeared in J. Poloni's report of September 12, 1979. The present Report is a joint report by both geologists summarizing the season's findings, and including and discussing maps, drill and assay results from the latter part of the season.

On the basis of the 1979 results, an expanded program on the property, totalling \$1,300,000, is recommended for the 1980 season.

Recommendations include installing a 30-ton per day package mill on the property to start generating cash flow from the highgrade veins, more detailed geophysical and geochemical surveys on other claim units, more exploratory drilling on goldsilver anomalies (since the highgrade veins so far discovered are associated with gold-silver anomalies), and close spaced drilling on known bearing veins.

Results of a bulk assay of one of the highgrade veins is included as Part II of the Report. It indicates that a standard gravity-flotation circuit should be able to process the ore efficiently.

SUMMARY

During the 1979 field season, CUSAC Industries Ltd. conducted a \$150,000 program on a 5-unit area of their Cordoba and Pete claims in the Table Mountain gold camp area of Northern British Columbia, on the property adjoining the Nu Energy mine property (CUSAC property lies to the South). CUSAC's property is on the south flank of Table Mountain and upper Pooley Creek valley.

Efforts concentrated on a 4-unit area on the Cordoba claim (on Claim Units 5, 6, 7 and 8) and a 1-unit area on the Pete Claim (on units 4 and 5). Unit and Grid numbering is given in the report.

Geophysical surveys on both areas were carried out by S. Presunka. Geochemical survey for gold, silver, zinc and lead on the 4-unit grid were carried out under the supervision of F. Brett. Geological work was supervised by J. Poloni and W.D. Groves.

Backhoe and bulldozer trenching on the Cordoba grid area was carried out in August-September 1979. The equipment was removed from the property on September 17, 1979. A diamond drill was on the property from September 18 to November 9, 1979, when freezeup stopped further drilling. A bulldozer road was constructed to the Pete claims to assist in moving the drill to the Presunka's Fault area.

Results were most encouraging. Three new highgrade gold-quartz veins were uncovered, which, together with the already-known Pete vein, constitute a sizeable reserve of potentially mineable ore. Several other large, lowgrade veins were further surface-sampled and mapped. Indications of additional veins, some mineralized and some not, were obtained.

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2.0 LOCATION AND ACCESS

The Pete mineral claim is located approximately 10 miles south east of the town of Cassiar, B.C., two miles east of Needlepoint Mountain near the headwaters of Pooley Creek, with its northern boundary 1000 meters south of the Cordoba claim. The Cordoba claim north boundary adjoins the Sky mineral claim of Nu Energy Development Corporation Ltd. See Claim Map 3. The Tara claim is a 12 unit claim between Pete and Cordoba claims.

Access to the Pete and Tara claims is by a 2.5 mile road extension from the Erickson Gold Mines (Nu-Energy) mine road off the Cassiar-Stuart road. This 2.5 miles was negotiated by 4-wheel drive vehicles in 1979. The road was extended south as a bulldozer road to the Pete claims, and a diamond drill was skidded 3 miles in to the Presunka Fault area to drill DDH 3, 4 and 5 in October 1979, but the last mile could not be negotiated by 4-wheel drive.

Assistance has been received from the B.C. Government to build the road in from the Cassiar-Stuart road from Vines Lake through Vines Pass to the 1979 base camp for next season . (Vines Pass is at about 3500' elevation vs. 5500' for the pass over the west end of Table Mountain).

The Pete claim is located at 59[°] 19' N latitude, 129[°] 40' W longitude; and the Cordoba claim at 59[°] 12' N latitude, 129[°] 42' W longitude, NTS 104 P/4E.

3.0 CLAIM INFORMATION

The claim map <u>Plan No. 3</u> shows the location and association of the Pete, Cordoba and Tara claims. Claims data is as follows:

Claim Name	Units	Record No.	Expiry Date
Pete	(18)	365	June 5
Tara	(12)	360	June 5
Cordoba	(12)	367	June 5

Cordoba, Tara and Pete claims are recorded as shown on B.C. Claim Map 104P/4E (Map 3). This claim map is updated to November 1, 1979. One claim, the Tara, has lately been marked "ALSO DOE". Ownership ("G") forms for Cordoba, Tara, and Pete claims are included in this report (Map pocket). The claims are shown as in good standing as marked on these forms. Staker was G. Brett.

The veins and mineralization of economic interest reported to the end of the 1979 season have been those found on the Cordoba and Pete claims. No mineralization of note has yet been found on the Tara claim, though essentially no geological or prospecting work has been done on the Tara claim to date, except to cut a cat and 4-wheel drive road through the Tara claims to the Pete claims to the south.

A letter (record no. 79656), dated January 16, 1980 by Company lawyer J.P. Lee Edwards of Edwards, Martin, states CUSAC's up-to-date legal position re Plaza Resources Ltd.'s staking of the DOE claim over the territory marked on the claim sheet as the Tara claim, and the status of a joint agreement between Plaza and CUSAC. As Edwards states: "CUSAC is asking for a court order confirming the termination of this Joint Venture Agreement." A copy of Edwards' letter forms part of the Company's latest Statement of Material Facts.

4.0 ECONOMIC GEOLOGY

4.1 History:

Interest in the Table Mountain area was initiated by efforts to locate the source lode of the immensely rich gold placer of McDame Creek discovered in the 1860's. The north slope of Table Mountain forms the south wall of the McDame Creek Valley for 2 miles and contains the gold-quartz vein currently being mined by Erickson Gold Mines (Nu-Energy) Limited. On the crest of Table Mountain is the strong gold-bearing Velog quartz vein which originally attracted attention to the mountain. The vein runs approximately E-W for 1.5 miles.

Present efforts at structural analysis have been concentrated on the central portion of the Cordoba claims where a 4-claim area was set off on a 100 m. grid to facilitate trenching, drilling geophysical and geochemistry studies (the latter two already reported by J. Poloni (refill) at the north end of the claim area. On the Pete claims' in the area of Presunka's Fault some work was done in the vicinity of this large steeply dipping E-W fault some 800 m. north of Pete Hamlin's cabin (Photo # 8). The "Pete" claims contain the "Pete Vein", a gold-quartz vein, and lie in the south part of the claim area. (See Map 5 (b), and Plan 14).

4.2 Geomorphology:

The north slope of Table Mountain is steep - 30-45°, and contains the Nu-Energy gold-quartz veins in slate and greenstone. The crest of Table Mountain is a broken E-W anticlinal structure with a "core" or line of Sylvester age greenstone intrusions marking the break. Another line of small Sylvester intrusions crosses the north end of Table Mountain – from the west edge of the Cordoba claims, across the Sky claims to the north, and over the north end of the top of Table Mountain and into McDame Creek basin on about a N.30 E. line. The south slope of Table Mountain is a large, gently sloping alpine tableland which gradually merges into the upper shallow central bowl of Pooley Creek Valley. It drains by a number of small streams just beginning to dissect the tableland. Lower Pooley Creek Valley is a broad glacial U-valley with grass and beaver swamps to a point 1/2 mile south of the south boundary of the Pete claims. The Pete claims are on the low western side of this valley and are largely covered with spruce swamp over up to 50' of glacial blue clay containing some rounded glacial boulders of greenstone or diorite. To the south of the E-W line of Presunka's Fault, a low massive carbonate E-W ridge marks a pressure ridge on the south side of the fault. A small quartz vein, containing tetrahedrite, with a greenstained margin was found on the ridge (Map : Plan 12). The west side of the valley rises into Needle Point Mountain, and the map area of Panteleyev.

At about the upper north edge of the Pete claim block, Pooley Creek forks. One fork comes down the glacial valley on the S.W. flank of Table Mountain; the other comes from the east down a rock-bottom recent gorge downcutting into the glacial pass between Table Mountain and Hunter Group Mountain to the southeast. Hunter Group Mountain forms the east flank of Pooley Creek Valley.

4.3 Regional Geology and Major Structural Features:

The major rock unit on the claims is the Sylvester Volcanics Unit of Gabrielse (see Map 2). Descriptive notes from his 4 mile map I(Appendix 1) summarize regional geology and section members.

The south flank of Table Mountain is a gentle dip slope in the slates overlying a volcanoclastic sequence, both of which are Sylvester. Early in the season, the nature of the slate-volcanics contact was not known, but drill holes 1, 2 and 6, 7, and 8 cut section in the contact zone and show that at least some of the Sylvester volcanics are crystal tuffs, with which the overlaying (and interbedded) slates are conformable

The land surface "shaves" down-section rather gradually, in the down-slope direction, going southerly, so that the slate mantle is largely missing by about the bottom (S. Edge) of the cordoba claims. Below the slate, in the DDH 6, 7 and 8 section for 300' is mainly massive andesitic tuffs plus sills, dykes and other intrusive phases of the andesite interbedded with grey chert. The chert is mostly massive, but with conformable brecciated zones on depositional interfaces, overlain by a thin

carbonaceous tuff and/or quartz-carbonate "sill" or sills just under the slate. The slate just above the chert contact is carbonaceous to graphitic paper slate or phyllite. Higher up-section it merges into more of an argillite, such as that on the Sky claims. Each member contains more or less interbeds of the other. This whole sequence is invaded by various small Sylvester "mushroom" shaped intrusions and cut by siliceous volcanic dykes ("chert" in composition) of the same age. Two notable such greenstone "mushrooms" lie on each side of the base camp one to the west and one to the east. The extent of these is not yet mapped although each forms a low knoll. Around the lower drill site around DDH 1 and 2, on the Cordoba 4-claim "grid area", the slate is locally present only as remnants. The surface is the thin bed of soft talcy tuff or quartz carbonate with the underlying cherts in evidence. Around the upper part of the Cordoba grid area, the slatechert contact area is in evidence with the slates establishing cover on the upper edge of the Cordoba claims uphill from the drill site. Slate is the upper unit.

Regional tectonics suggest the possibility of a Cauldera type of andesitic volcanic event with upper McDame Creek Valley as a down-faulted collapse block, Hunter Group Mountains as largely pyroclastic, and explosion faults now marked by siliceous volcanic breccia and quartz veins.

4.4 Chert Breccia Zones:

One 'stratigraphic' control on the gold and silver mineralization in the area seems to be brecciated horizons in the chert, and also above this on the chert-carbonacious slate contact and for a short distance up into the slate. The surface silver-manganese-rich zone in chert breccia at DDH1 and the massive sulphide stringers (carrying low gold assays) in chert breccia zones in DDH 6, 7 and 8, illustrate this type of mineralization.

4.5 Origin of Gold Mineralization:

It's a matter of interest that the andesitic Sylvester magma had to traverse several carbonates buried at considerable depths enroute to the surface - the Good Hope and Atan and Lower Devonian for example, which would have the effect of adding carbonate, under pressure, to the melt. Possible consequences are exclusion of silica, production of siderite from mafics, and later, generation of the first explosive pressures on the roof of the magma chamber due to exsolution of CO2. Evidence of this would be the fine grained siderite-containing carbonate, "iron dykes" in fissures - later to be rebrecciated by H₂O (steam) drive after the cracked magma chamber roof had begun to admit sea water. Pillows (evidence of submarine extrusion) in the Sylvester are rare. At least, much of the Sylvester encountered in the drill holes was tuff and could have been subaerial. (Emergent volcanic surface = island). The later chert and overlying slate were subaqueous. (Island volcano collapses below sea level). There is much sharp-edged to rounded cherty volcanic debris in the quartz veins in explosion faults. This suggests that the transition to chert in the section also follows the point at which sea water had gained access to the magma chamber. This access would result in extraction of gold from sea water and violent explosion faulting and tephra ejection. This scenario is worth holding in mind in regard to mineralization in quartz veins containing chert and in fracture zones in the chert itself.

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The Presunka Fault is of interest on a regional scale since it is a major E-W one with a steep dip, which has slipped on and mylonized a carbonaceous to graphic horizon in the section. (Photo # 11). It is the first E-W fault south of the crest of Table Mountain, 3 miles to the north. Faults radiate out of the Cassiar stock mapsheet area adjacent to the west(Pantelayev) into the Table Mountain area, some with appreciable strike slip components as shown on his map (Map 2(B)). There are also graphitic slickensides in the 50° - north dipping carbonaceous slates in the Erickson Gold Mine alongside the vein. Presunka's Fault is thus another major structural focus for possible mineralization, though assays from drilling to date (DDH 3, 4, 5) have not given more than trace values in gold-silver. It nonetheless does contain quartz veins, some sulphides and felsite dykes in the fault plane region.

4.6 Quartz Vein Mineralization:

A considerable amount of information on the nature of the mineralized quartz veins in the area has now been accumulated. The moderately steep to steeply dipping ones mark various types of faults on fissures. One type marks fault slips between beds in the carbonaceous horizons at the base of the slates. These may be of major proportions-Quartz veins in Presunka's Fault, the Jenny Vein, and possibly also the Voloug Vein, are examples of this type. Wherever the tectonic situation produced a shear, the graphitic slate faulted if it was anywhere close to the plane of maximum shear stress, yielded – slipped, graphitized and/or mylonitized. Quartz veins, felsite dykes and quartz-carbonate "iron dykes" all used the same openings. The three are closely related in time. The "iron dykes" must contain considerable fine grained siderite because while the fresh material is creamy white, it weathers and alters on its margins rapidly into brown limonite.

A suggested sequence which tends to localize gold values is typically as follows. An explosion fissure or fault fills with a quartz-carbonate "iron dyke". Subsequent explosion or block faulting shatters the dyke and quartz (SiO₂ and H₂O liquid) fills the opening. In the large E–W vein on the Cordoba claims, the west end of the fissure is occupied by an "iron dyke". To the west, a small quartz vein shows in the fissure which then rapidly widens to about 20'. Engulfed fragments of "iron dyke" (or slightly later siliceous volcanics) are then rafted eastward by the viscous quartz- H_2O fluid. Fragments tend to be more rounded towards the vein margins. Replacement of the siliceous fragments by iron sulphide is evident as well as network replacement of quartz along the vein margins (Photo #16). As a result, the tenure of gold mineralization in the veins is variable but tends to enrich towards the more fragmental portion of the veins towards the ends. Vein paths in the andesite are arcuate : the major E-W vein turns S.E. at its east end; in the "Cominco Vein" on the greenstone knoll above and to the west of camp, the south end turns S.W. These veins terminate by gradually pinching off. (See Map 5 (a)).

The "Dino Vein" (Photo #21) strikes about N. 25° W. has its discovery point about 100 m. east of base camp on the W flank of the low greenstone knoll marking one of the small andesite intrusions alluded to earlier in the text. (See maps 5 (a) and Plan 9).

The Dino vein is about 2-1/2 ft. wide at the surface. The east contact dips about 70^{10} W, and the west contact dips at 55° W, indicating a widening to depth, at least locally. About 150' of bearing vein is exposed. Its southern extremity on the surface is tenuous – it appears to continue beneath a quartz-carbonate metasediment bed. bed. 100' further south, a small piece of quartz with tetrahedrite and chalcopyrite mineralization was found in a bulldozer trench. The vein – in the andesite – lies in a well-developed "iron dyke" – the breccia zone which is hematite stained. The vein is faulted by a cross-shatter on a plane lying around W. 20° N., dipping steeply north. Its continuation is offset some 80' to the west. This cross fault plane has a narrow limonitic zone in it in hematitic breccia.

The vein continues north for about 50', until it is cross-cut by an andesite dyke. Another ten feet to the north it is cut off by a much larger moderately north dipping siliceous dyke at least 15' thick, and then obscrued by drift. 150' further northward along the hillside, the locus of the trace of the vein is again marked by a quartz vein which gives low gold assays in a sulphide and fragment-containing zone towards its south end. This vein then arcs into a more northerly and slightly easterly strike, widens to 15' wide, splits and becomes bull quartz. This section is called the Fred Vein. Its northern extent has not yet been stripped. See Map (Plan 9).

Assays on the grab samples from the Dino Vein have been obtained in the 2 oz. – 80 oz./ton range. (A 500 lbs. sample submitted for mill test assayed 3.60 oz./T Au, .985 oz/TAg). In places abundant coarse free gold is seen (Photo #13). Photo #14 shows iron sulphide, v.g. and tetrahedrite. As Photo #13 shows, gold is in exsolution relations on the margins of the iron sulphide so that it becomes more easily visible in "boxwork" where the iron sulphide has oxidized at the ground surface. This gold is actually an alloy also containing about 10% silver. Free gold is not found associated directly with the tetrahedrite also present intermittently in the vein – this latter is the main silver-bearing mineral. Gold-pyrite and tetrahedrite mineralogical zoning in the quartz veins (Dino, Pete) is to some extent locally mutually exclusive.

Galena has also been noted in the vicinity of v.g. in the top of the flat vein, (Vein 7). A third habit for quartz veins is illustrated by this large – over 11' thick – flat lying quartz vein exposed in the DDH 6, 7, 8 area in backhoe trenches and the top section of the 3 drill holes themselves. This vein lies on the contact between the carbonaceous slate and the chert. (Maps : Plan 6, Sections 7 and 8). It carries a little galena on its upper surface, and although v.g. was only seen in it in one place, gold values are in the order of 0. – .36 oz/ton. Gold grade increases towards its meeting with steeper dipping veins 5 and 6.

The shape of veins in andesite and slate are different : in the slate, veins either follow bedding planes (vein 7) or planar steep tectonic cleavages (vein 10, Map 5 (a)). In the andesite, they follow arcuate explosion fault ar fissure lines (veins 1, 2, 3). Drilling in the Line 9 (DDH 6,7,8) area has shown that a geometry change can occur as a vein goes from slate into chert or volcanics. It is believed that all these veins are closely of the same age and closely related to later stages of the volcanic events which formed the host rock. Deeper in drill holes in the massive grey chert and andesitic tuffs, wandering stringers of massive grey iron sulphide up to 2" wide are found in breccia zones. (Drill logs : DDH 1, 2, 6,7, 8). The massive sulphide gives low (.002-.07 oz./ton range) gold values. While the grey sulphide may be a carrier phase for gold, it is not uniformly so, or at least assays do not reflect this. There seems to be a further enrichment by later corrosive solution activity on the sulphide phase, where oxidation products such as limonite or manganese dioxide become evident in the breccia zones (L4 area) or where sulphide is replacing siliceous fragments in quartz veins. (Vein 1, E. end). Massive sulphide stringers from the Presunka Fault area do not so far assay. However, a massive sulphide stringer from the top of Pooley Creek, near the Cordoba legal post, gave a .07 oz./ton gold assay in a sample which was about 25% by weight sulphide.

It is evident that not all the gold mineralization is purely in the quartz vein phase. Wallrock alongside veins is marked by green stains of a mariposite-type mineral which gives low (.2 lb./ton range) assays for nickel and/or chrome. Siderite, calcite and limonite in both competent wallrock and shattered hematitic, siliceous or siderific dyke rubble are also observed. This is also, in places, associated with iron sulphides plus a little high-temperature quartz which gives high gold values in the DDH 6, 7, 8 area. (Square trench Map : Plan 6, Section 7). The wall rock alteration zones vary from zero width to a fair percentage of the width of a vein on either side of it. It is evident from small amounts of old drill core, and the shape of old trenches on the property dating from the 1930's, that the green (mariposite) alteration was regarded with interest by previous prospectors of the property. It is also quite possible that in some cases the greenish "margins" were an earlier mineralization of fissures later used (or not) by quartz veins and finally by hydrothermal solutions. In these early sulphide injections, iron was reacted to siderite, sulphide sulphur, perhaps to gypsum, and Cr, Ni, etc. to green hydrous silicates. Later Ni and Cr stains in the siliceous component of Ni, Cr, Mn, Zn, Ag (Au), etc. mineralizations in the L 4 area are in evidence.

Late hydrothermal solutions of the hotspring type have also been a carrier of gold and silver. Gold and silver values (usually predominately one or the other) – silver with Mn in the DDH 1, 2 area, and gold with limonite in the DDH 6,7,8 area yield

precious metal values in breccia zones in the chert and in limonite sections in the upper portions of the sections in DDH 6, 7.

The iron (and zinc) sulphide phase seen deeper in DDH 6, 7, 8 as massive sulphide stringers may have been the first extractant phase of gold from sea water, but later oxidation of sulphides, to acid sulphate solutions, with manganese and iron present, were responsible for enriching and remobilizing this first concentration by corroding away most of the carrier sulphide. A certain amount of very finely disseminated gold is present in the hematitic and siliceous and sideritic rubble in faults alongside quartz veins. While probably not economic, it makes for a useful dispersed gold phase as a source of fine gold particles for geochemical anomalies, hence facilitating prospecting for mineralized faults and, thus, for veins.

5.0 COMMENTS ON GEOCHEMISTRY & GEOPHYSICS TO DATE

5.1 Geochemistry:

The geochemistry for gold gave indications of several local anomalies in the high PPB range. Following these up, lead to discovery of the Dino vein, and another short vein fragment 40 m. on to the east of this, in which an assay of 2.54 oz./T gold was obtained (Sample B.C. 17454). Assay of red breccia zones on vein margins give assays such as .008 oz./T gold - low, (B.C. A29-1388 WDGJP 400) but showing some very finely dispersed gold along shatter fault zones and loci for veins. More, very detailed gold geochemical testing is thus recommended in areas where soil cover is mostly over bedrock, to avoid any alluvial concentrate effects from glacial overburden. The gold and silver geochemical anomaly contour map for the Cordoba Grid area (Poloni Report, Sept. 12, 1979 : Plans 6 (Silver), 7 (Gold)), are re-included in the Summary Report (pocket) for reference. Major gold and silver anomaly outlines are shown on Map 5 (A). The fact that veins now known to contain gold and silver coincided with gold–silver anomalies encourages detailed examination and test drilling on other of these anomalies not yet probed in detail.

5.2 Geophysics:

Interpretation of VLF geophysical anomalies to date has been somewhat complicated by the fact that shallowly dipping carbonaceous slates, which are locally graphitic, have been found in areas near the slate-volcanics contact in the upper part of the Cordoba claim . The bottom slate unit is highly carbonaceous, and locally graphitic, so that its conductivity may obscure sulphide reactions. In the Pete claim, the Presunka Fault line, corresponding to a very large VLF anomaly, was graphitic. Nevertheless, VLF reconnaissance found this major structure, which does have veins, felsite dykes and some sulphides in it, besides carbonaceous mylonite and local graphitic slips, all of which are found in other fault-vein systems such as that at Nu-Energy. Geophysical prospecting is thus worth continuing but should be interpreted carefully. A low magnetic anomaly was found in 1979 on the Cordoba claims, possibly indicating pyrrhotite in the andesite, has not yet been investigated in detail. It lies between two parallel gold anomalies on Line 8 West, just west of gold anomaly 5 on the Cordoba claim, Unit 8 (See Plan 5 (a)), which will be drilled in the next season's program.

6.0 GEOLOGY INFERRED RESERVES

Table I lists reserves inferred by work on the Cordoba and Pete claim areas to date, resulting from surface mapping of the quartz veins, with surface sampling and/or samples from stripping and trenching by hand, backhoe and bulldozer. Detailed mapping of showing areas (Maps 6 - 14) was undertaken to arrive at estimates of vein surface areas. In some cases veins terminated by pinching or fingering out into dykes also using the same fissures, faults or breccia zones, and these lengths are marked without annotations on Table I. Where veins passed under the drift without signs of pinching out, length used in Table I is marked*. In other cases, only part of the vein's length is quoted and also marked*, due to lack of sample information as to grade further along the structure.

Depth estimates used for the particular vein tonnage estimates on Table I are obtained by the rigorous application of the formula D=1/2L, though in some cases there is additional structural inference (diverging dips, strong possibility that veins could extend further downward). This is done to be conservative. Vein's average width is estimated by averaging surface widths over the exposed length. In the case of veins 5, 6, 7 information from drill hole intersections at about 30-40 ft. below surface was also included to form the figure.

Grade is estimated by surface assays, supplemented by drill hole assays and bulk sampling (basis of grade estimates is noted in the Table), where available. Grade of estimates of tonnages and grade is currently considered to be at the "Geologically Inferred" stage. In the 1980 program, work to find more veins, extend present ones, drill known targets at increased depth, and intensive sampling will be used to upgrade the present estimates to proven ore wherever possible, as well as following strike and dip extensions on bearing veins.

In Table 1, reserves are separated into 3 categories : "Lowgrade Type Veins"; "High Grade Type Veins"; "Silver-Manganese Chert Breccia plus Gold-Limonite VeinAssociated" types. The arbitrary grade figure of 0.2 oz./T gold was used to separate the first two cetagories. At gold prices in the \$500.00 - \$1,000.00 ounce range, material down to 0.2 oz./Ton would be profitable to process in an inexpensive 30 T/D gravity/flotation package mill. Economics of processing the much larger tonnage of materials below 0.2 oz./T in the lowgrade veins would be sensitive to gold price and require a much larger scale of processing plant, with correspondingly larger "front end" capital cost. The "Highgrade" reserves thus offer an immediately highly economic return on investment, and the lowgrade reserves require a much more careful evaluation and a much lower percentage return on investment.

The third category is represented in Table 1 by the intermittent rich surface showings now crosstrenched over a 150' N 15° E length associated with a brecciated zone in the chert, plus quartz veins, in the line 4 + 50 m E) area of Unit 5 of the Cordoba claim. This is not yet assigned a tonnage estimate, despite surface samples of limonite ochre and quartz vein mineralization carrying up to 3 oz./T gold, and silver assays in black manganese-zinc-copper breccia fillings and replacements yielding up to 21 oz./T silver and .03 oz./T gold. DDH 1 and 2 cut into the most manganiferous zone, and showed about 30' of mineralization of manganeferous-limonite plus small quartz veins. Visually, the intensity of mineralization and the intensity of brecciation both attenuate gradually downward, and the holes bottomed in massive chert and/or andesite. Very low core assays were obtained, including low manganese, which acts as a visual parameter for intensity of mineralization. Some core grinding occurred of the soft manganiferous breccia fillings despite careful drilling, so reassay and an attempt to recover hole sludge now needs to be made. The limonitegold association closer to a solution conduit, surrounded by silica-manganese silver mineralization further out in fractures off the main solution conduit is a characteristic late hydrothermal type precious metal mineralogical zoning phenomenon. About 600 m. North 15 E of the L4 showing, a highgrade gold-limonite intersection (DDH 7 "Hot 2") is evident in the L9 area. Late hydrothermal activity will "use" the same zones of weakness often also marked by quartz veins, but also tend to "spread" into fracture porosity. Geometry of the breccia zones in the chert may be "tabular" in that shrinkage can cause crackle-brecciation on the margins of chert units, raising the possibility of flat lying mineralized zones in the chert near conduits.

More very detailed geology and some more drilling is obviously necessary to understand the L4 0+50 E phenomenon. In any case such a mineral assemblage may require a different type of processing to recover precious metal values, since values can be very finely divided and require special flotation or leaching.

Numbering of veins and showings in Table I correspond to locations on Maps 5(2) and 5(A)(for the Pete Vein). Note that at 30 T/day, 15,000 T could be milled in about 2 years time.

TABLE I

CURRENTLY GEOLOGICALLY INFERRED VEIN GOLD-QUARTZ POTENTIAL

CUSAC'S CORDOBA & PETE CLAIMS

				Inferred	Inferred		Inferred	
	Map – this		Dimensions	Tons	Inferred	Basis of	Oz.	
Category	Report	No.	$L \times Est. D^* \times Av. W(ft.)$	(<u>12cf/T</u>)	Grade	Grade Est.	Gold	
I. Lowarade Tva)e				0z./T	(see Table	11	
E-W	5 (a)	1	675 x 337 x 6.5	127,000	Au .10	Surface	12,700	
Cominco	5 (a)	2	290 x 145 x 10.5	36,800	.10	Surface	3,680	
Line 3+50E	5 (a)	4	200 × 100 × 3	5,000	.05	Surface	250	
Line 9, Flat	5 (a)	7	150* x 75* x 11	10,330	.11	Surface +	1,140	
			·	178,330			18,000	
II. Highgrade T	уре							
Dino	5 (a)	3	150 x 75 x 2,5	1,110	3,60	Bulk Test	4,000	
Hot	5 (a)	5	230 × 100* × 3.5	6,680	2.2	2 DDH's Surface	14,700	
Hot-2	5 (a)	6	80* × 40* × 1.5	400	2.	2 DDH 's	800	
Pete	5 (b)	20	200* × 100* × 4	6,670	, 5	Surface +	7	
				14,860		2 shafts	19,500	
III, Silver-many	ganese Chert Brec	cia + Gol	d-limonite, Vein Conduit Associate	ed				
L4 + 50E	5 (a)	8	150 × ? × ?	?	0-20. Ag	Surface		

Notes:

Silver values associated with vein-gold expected to be at least $\frac{1}{2}$ oz. per oz. of gold.

L = Length D = Depth W = Average Width (all in ft.)

*Depth rigorously estimated as $D=\frac{1}{2}L$ unless specifically noted.

cf = Cubic Feet T = Short Tons oz. = Ounces Troy

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** Part of Vein

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DINO VI	<u>ein</u> 3	Assay No.	Gold oz/ton	Silver oz/ton
	Bulk S	17459 17460 17461 17458 (CS-25) Sample	5.50 25.05 .94 80.64 3.60	1.30 5.31 .32 11.50 .985
	AVERA	GE	23.14	3.88
	EXPEC: TABLE	TATION 1	(3.60)	<->
" <u>нот ve</u> :	IN'© CORE	CS-18 (KK870) CS7 KK863 864 865 867 872 DDH6 (17379) DDH7 (17385)	.894 3.083 1.0 .91 .43 7.33 1.26 1.98 2.47	.80 1.25 - .25 .20 5.73 .3 .38 .67
	AVERAC	GE	2.24	1.06
	EXPECT TABLE	TATION 1	<2.2>	< - >
^к <u>НОТ^г -2</u>	6	DDH6(17380) DDH7(17386)	.56 7.28	.48 5.63
	AVERAC	ΞE	3.92	3.05
	EXPECT TABLE	TATION 1	< 2.0 >	<- >

ASSAYS SUPPORTING GRADE ESTIMATES IN TABLE 1

PETE VEIN 20

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1978 Data Report, John Poloni *

JPG.

TABLE 2 (con't)

PETE	VEIN	Assay No.	Gold oz/ton	Silver oz/ton
		2209	.748	2.56
		2214	.12	.12
		2220	.158	3.14
		18926	.016	5.20
		18927	.03	2.66
		18928	.044	.01
		18929	1.45	4.31
		18933	1.094	2.94
		-	.30	5.24
		#3	1.465	1.98
		#4	.262	2.6
	AVERA	GE	.517	2.79
	FXPEC TABLE	IATION 1	$\langle \cdot 5 \rangle$	<->

FOOTNOTE

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* J. Poloni. "Report on the Pete and Corboa Mineral Claims. Cassiar Area, Liard Mining Division, for Cusac Industries Ltd. Sept. 6, 1978. Att. S.M.F. Filed June 15, 1979.

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' <u>FLAT' VEIN</u> O	DDH6 (17377) DDH7 (17384) DDH8 (17393)	.36 .11 <.002	.28 .14 -
SURF (leached """	1 top) 17403 CS-17(KK8(9) long trench	<.002 .020	.04 TR
	CS-2	.215	.31
AVERA	GE	.117	.13
EXPEC TABLE	TATION 1	<.11>	ムー >
' <u>E-W</u> Ø	CS-19(KK873) "20 "874) "21 "875) "22(17453) "23(17454)	.312 .01 .008 TR .008	.3 .27 .19 TR .04
1978 Averad	401 403 2214 17454 GE	.008 .05 .26 .12 <u>1.27</u> .226	.13 .22 .12 .49 .19
EXPEC' TABLE	ration l	2.17	2-7

TABLE 2 (con't)

' <u>Cominco</u> '2	Assay No.	Gold oz/ton	Silver oz/ton
	762	.002	.02
	763	.023	.04
	765	.023	-
	34412	.390	.22
	2216	.072	.03
	2217	.024	.02
	2219	.098	.26
AVERAGE		.0903	.084
EXPECTATION	TABLE 1	$\langle \cdot 1 \rangle$	ムーフ
~			
<u>L3+30E</u> (4)	758	.003	.04
	759	.002	.02
	760	.10	.04
	2244	.05	.05
AVERAGE		.044	.04
EXPECTATION	TABLE 1	<.D5>	2->

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J. POLONI JUNE 15/79. S.M.F. PP. 11212.

8.2 Quartz Veins

The Pete Vein has been traced for approximately 300 feet in an east-west direction with widths ranging from 3 to 6 feet. It is generally well mineralized with finely disseminated to blebby tetrahedrite, less frequent inclusion of chalcopyrite, secondary azurite and malachite. To date, free gold has been seen in the area of the two shallow shafts but not elsewhere in the surface exposures. Plan No. 4 assay data suggests the presence of an ore shoot in the vicinity of the two shallow shafts where free gold is found and three samples assayed:

<u> </u>	Au oz/ton	Ag oz/ton
#3	1.465	1,98
. 2209	0.748	2,56
18929	1.457	4.31
18933	· 1·.094	2.94
• •		·····

AVERAGE 1.191 2.92 WDG To the east along the vein, assays indicate that the tenor of the gold decreases but the silver content is appreciably higher. This would tend to indicate that most of the gold is present as free gold and not tied to silver as a natural amalgam.

A program of diamond drilling (section 10) is recommended to further test the extent and tenor of the free gold in the region of the shallow shafts.

TABLE 3

LINE 4 Area (8)	Assay No.	Gold oz/ton	Silver oz/ton
	34410	4.12	8.81
	17405	.008	.03
	17406	.030	7.52
	17407	3.29	.70
	17408	.012	.08
	17409	.78	.60
	17452	.01	9.15
	CS-15	.048	21.1
j.	CS-6	4.709	1.79
AVERAGE		1.44	5.52
EXPECTATION	TABLE 1		2->

L4, 0+50E, 150' Length of silver rich area

Although structurally not yet fully understood, area offers interesting potential.

mgg.

TABLE 5

Other Quartz Veins ī Low Assays INDIAN VEIN SASSAY NO. Gold oz/ton Silver oz/ton 17410 .083 .85 FRED(9)2241 .17 .11 (76) EAST OF L9 Pits <.002 17401 .03 .002 .02 17402 (CS-5)Float .029 .07 (7) BULL QUARTZ VEIN W side of L9 trenches €.002 .002 17404 11 Highgrade Type Mineralization 6.93 (tet) GB a) 34415 .45 Just E of DDH 6, 7, 8 site 3" vein Quartz Au-tetrahedrite, Presunka Fault b) Area 7451 1.71 .84 c) Short vein segment (vein (12), L6, 140E+20N) 2.69 7462 .69
TABLE 6

Miscellaneous Assays - "Listvenite Alteration" 17465 - Presunka baseline 'Listvenite' **&u** <.01%, Ni = .12%, Cr= .25% (green color is nickel - chrome silicate)

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TABLE 7

Spot Assays - Other Elements

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Assav	No.
24406	0790
34400	
34407	.04%@ W
34410	4.12 oz/t Au, 8.81 oz/t Ag.,
	.19% Cu, 19.8% Zn, .18%Pb
34409	.005 oz/t Au, .10 oz/t Ag, ≤01%Cu,
	.54% Zn, .14% Ni
752	.93 oz/t Au, 4.55 oz/t Ag, 2.60%Zn,
	.12%N, ≪001% Sn
753	.003 oz/t Au, -Aq, .03%Zn, W=.03%
	(alteration zone carries tungsten)
846KK	<pre>\$002 oz/ton Au, .13 oz/t Aq,</pre>
	≪01 Zn, •02%W
2229	(property to west)
	Au = $.05 \text{ oz/t}$ Ag. 4.20% Zn.
	06% Cd (zinc carries some cadmium)
17456	$\overline{\Lambda m} = 0.02 \text{ or /t} \overline{\Lambda m} = 210 \text{ or /t}$
	Au = .002 02/C, Ag = .3102/C
	Cr = .208, SD = .228
	(tetrahedrite: argentiferous copper
	sulfantimonide)
2232	Au = .01oz/t, Ag=.49oz/t, Cu=.06%
	Zn=.03%, Mn=1.3% (Manganese-silver
	correlation)
2239(1	DDH3) 300'
•	W=.01% Mo=.002%
	specular iron oxide with low W. Mo
	content
	(mineral not W/Mo C conies)
	(mineral not w/mo secres)

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7.0 PROPOSED PROGRAM

7.1 Post Mortem, 1979 Season Field Program:

Approximate Costs - Cordoba and Pete Claims

<u>Notes:</u> Number of claim units worked on - 5. Number of claim units "gridded" on 20 meter grid - 4 Feet of Diamond Drilling - 2,000

Costs are allocated by category of effort segregated on a sequence, Phase I through Phase IV. One or more phases can be implemented on a given area in any one season.

<u>Phase 1</u> - prospecting, geological mapping, thin section or microscope work, establishment of 20 meter grid on area, geophysics, geochemistry, close-up airphoto mosaic and air photo base map, initial trenching, sampling, assaying, bulk assaying by test mill, etc.

<u>Phase II</u> – Exploratory and test diamond drilling for geology and initial indications of subsurface mineralization grade. Establishment of camp. Building roads.

Phase III - Close-spaced drilling to block out ore.

<u>Phase IV</u> - Purchase of heavy trenching, mine excavation, mine production start-up costs, milling equipment. 6 month costs of mining-milling operation.

Note: Cost of professional services – geological, ore testing, mill design, mine design, photogrammety, etc. is shown here as a separate item.

Approximate 1979 costs

Phase I (Includes consulting)

Camp supplies, costs, establishment of semi-permo	nent	
camp, Cordoba grid area	\$ 15,000	
Construction of 4-unit 20 meter grid	2,000	
Geochemistry of 4–unit grid	6,000	
Geophysics (magnetometer, EM)	6,000	
Transportation - Cassiar - Camp 3, 3/4 ton vehicl	es,	
2 4WD, 1 2WD	10,000	
Airfares @ 20 man tríps, at \$300/trip	6,000	
Consulting and related fees	25,000	
Backhoe rental 15 days @ \$80/hr.	10,000	
Bulldozer rental, 15 days @ \$80/hr.	10,000	\$ 90,000
(includes costs of moving on and off property)		

Phase II

8 DDH's, total 2,000 ft. of core, site NX, skid mounted drill, costs include two 3-mile moves and one short move, plus turning drill on pad

60,000

\$150,000

DIRECT TOTAL FIELD RELATED COSTS, 5 UNITS

1979 costs per unit of Phase I and associated consulting = 90,000/5 = \$18,000 per claim unit.

7.2 1980 Projected Program Budget:

Phase 1

	Another 10 claim units on Cordoba and Pete		
	claims, similar coverage as 1979	\$ 220,000	
	Additional Phase I activities on original 5 units	30,000	250,000
	(mainly backhoe and bulldozer stripping)		
Phase II			
<u> </u>	Exploratory and Test DDH's ~ 1979 Grid area		
	targets: See Au and Ag anomalies number on Plan 5 (Number of projected holes on given target : 3 H = 3 ho	a) oles; Plan 5(a).	
	GEOCHEM ANOMALIES	,	
No. 1	Dino Vein area. Strong anomaly over vein, and exten	ds to south.	
	3 holes @ 300'.		
No.2	Strong superimposed Au, Ag anomalies just to E of Dinc	o vein.	
	Vein fragment, breccia zone. 3 holes @ 300		
No. 3	Strong superimposed Ag, Au anomalies over DDH 1, 2	gold-limonite,	
	2 silver-manganese surface showings, L3-4, 50E area:		
	3 holes @ 300'.		
No.4	Strong Au anomaly, L7–8 on baseline – no work yet.		
	3 holes @ 300'.		
No.5	Au anomaly L8 + 350W – no work done yet		
	3 holes @ 300'		
No.6	Au anomaly, L3 + 400W. 2 holes @ 300'.		
No.7	Au anomaly, L8 + 400W. 2 holes @ 300'.		

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2 holes @ 300'		
CORDOBA 21 holes at 300', loaded cost \$30/ft.		
6,300 ft. @ \$30/ft.	189,000	
PETE claims – Pete vein area		
3 holes @ 300'		
900 ft. @ \$30/ft.	27,000	
PHASE II type drilling		\$216,000
Permanent Camp	ŗ	50,000
Roads (includes one from Cordoba camp to Vines Lake)	ľ	40,000
(50% govt. subsidy eventually recovered in road building)		

.

TOTAL PHASE II

Discretionary

\$306,000

PHASE III

Blocking out ore by close-spaced diamond drilling		
(L9 area "Hot" and "Hot – 2" veins)		
5 setups: 8 holes @ 150' & 45 ⁰ and 60 ⁰		
1200 ft. @ 30/ft.	36,000	
if 60° holes hit, 3 @ 60°, 200' depth, from		
back-off stations		
600 ft. @ 30/ft.	18,000	
200' discretionary, @ 30/ft.	6,000	60,000
Dino Vein, 6 holes @ 250', thus	;	
1,500 ft. @ 30/ft.	,	45,000
Pete Vein, 6 holes @ 250', thus		
1,500 ft. @ 30/ft.		45,000
		<u>_</u>
TOTAL		\$150,000

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DRILLING TO PROVE UP RESERVES

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PHASE IV

Heavy Equipment Purchase

30 Ton/Day I	Rodmill – Gravity	– Flotatic	on package plant		
Used equipme	ent, built in Vanc		50,000		
1 ¹ / ₂ yd., 30'-reach backhoe,					45,000
and D7 cat,	used				55,000
Mining Gear					
	Compressor	15,000			
	Jacklegs	5,000			
	Bits	5 000			
	Pump, hose	5,000			; •
	Hoist	5,000			
	Cable	3,000			
Small air slusher <u>10,000</u> 48,000					
	Blasting supplies		10,000		
	Contingency		2,000		
	Subtotal direct N	Aining Equ	ipment	60,000	
	Ore Truck, used			15,000	75,000
(Bench and bo	ackhoe on Dino ve	ein to 30',	, at same time as		
lower level a	ccess constructed))			
SUBTOTAL HEAVY EQUIPMENT COSTS					225,000
	Butler Mill build	ing (cover	s package mill plant)		
	40' × 50' - 2,000) sq. ft. @	\$20/ft.		40,000
TOTAL INVESTMENT					\$265,000

PHASE IV

Mine and	Mill Operational personnel and		
related sup	oplies.		
Mill	2 operators & mill manager		
	- mines and 1 hoistman,		
Mili mana	ger is senior man.		
	5 men and 1 manager		
6 month @	\$3,500/month		
\$21,000/m	nonth, 6 months	186,000	
Chemicals	, supplies	14,000	
SUBTOTA	L		200,000

TOTAL PHASE IV

\$465,000

TOTALS

PHASE I	\$ 250,000
PHASE II	306,000
PHASE III	150,000
PHASE IV	465,000
	\$1,171,000
Contingency = 10%	129,000
TOTAL PROGRAM	\$1,300,000

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(of this, \$265,000 is capital investment)

PART II

8.0 BULK MILLING TEST 500 LB. SAMPLE DINO VEIN ORE CORDOBA CLAIMS FOR CUSAC INDUSTRIES LTD. SUMMARY

A 560 lb. sample of gold quartz ore from CUSAC Industries Ltd. Dino Vein on their Cordoba property, Table Mountain, Cassiar, B.C. was run in a small continuous ballmill – jig – classifier – flotation shaking table setup. 60 pounds of fine crushed feed was kept as a heads sample, and 500 pounds were milled.

Heads grade ran 3.60 oz./Ton in gold and .985 oz./Ton in silver. A total of 10 pounds of sulphides, containing the gold, were recovered, indicating that the portion of the vein sampled ran 2% total sulphides. The richest part of the vein can run over 10% sulphides, so the grade of ore used in the test is felt to be conservative.

The sample was obtained randomly from the surface of the vein, with no attempt to be selective as to grade. 45% of the gold was separated as coarse free-gold in the jig. The doré bar from the amalgamated jig cons was kept for demonstruation with the report (Photo T-11). The test was conducted by Universal Mechanical Seals Ltd. of Port Moody under the supervision of the authors.

DESCRIPTION OF TEST

A 560 lb. sample of ore was randomly cut from the top of the south portion of the Dino Vein, November, 1979. The ore was sacked and trucked to storage in Vancouver under supervision of W.D. Groves where it remained locked up until the test.

The test was performed by Mr. Peter Chapko and Mr. George Spalding of Universal Mechanical Seals, Inc. who own a test mill facility in Port Moody, B.C. J. Poloni and W.D. Groves saw the test setup and W.D. Groves supervised the actual grinding of the ore. The test was started on Saturday, December 15 and ran the 16th, 17th and 18th. The mill was run a total of 20.5 hours on the ore, giving a milling rate of about 25 lb./hour. Features of the circuit are shown in Figure 1 and Photos T4 and -5. Table T-1 gives the results of the test. The ore was first fine crushed, and a 60 lbs. sample of the fine crush feed was grab sampled at intervals. This 60 lb. sample was then mixed and rolled, and an 8 lb. sample of this was taken to Bondar Clegg Ltd., for assay in quarters. Average heads ran 3.60 oz./Ton Au and .985 oz./Ton Ag, with a 10% deviation of individual quarter assays about the arithmetic mean, which is reasonable variation for a sample containing free gold (see Table T–2). The mill circuit had various notable features. The grind of the tails is about 100–150 mesh, and that of the small amount of fines caught on the blanket tails water filter is about 500 plus mesh. The grind in the 18" mill, using mostly 1-2" balls, was gentle enough to liberate gold without making appreciable flour or leaf. The jig before the spiral classifier took the coarse gold and sulphides out of the circuit as soon as the lifter discharge removed them from the mill. (Retention of gold in the mill, because of the positive discharge feature, was small). Addition of flotation reagents : Dow froth 250 and xanthate collector, copper sulphate activator into the classifier-mill loop prevented overgrinding sulphides, and also helped float fine, flat gold. The overflow discharge from the spiral classifier helped trap quartz in the grinding loop to promote liberation of fine god. Sulphides were scavenged in 3 forward feed cells, plus 1 accumulator froth cell.

9.0

Coarse gold and sulphides from the jig were panned and the coarse quartz and middlings returned to the circuit during the test. The final jig con was then amalgamated by grinding with a small amount of mercury and caustic for 20 minutes. Flotation reagents prevented amalgamation without grinding. Grinding also had the advantage of rending the jig sulphide phase more homogeneous for assay purposes.

Before the jig con was separated, binocular microscopic photographs were taken by Dr. D. Waldron of the mixed jig con, as well as the flotation con and table con. Coarse gold, up to 1/10" was separated into the jig con (Photo T-6). Fine, flat gold of about 150 mesh was visible in the float con under the microscope (Photo T-9), on the "toe" of the pan when the float con was panned. Very small rolled-up shapes of gold were seen - a few specks ~ in the table con (Photo T-10), which otherwise consisted of fine quartz sand. The final tails water filter fines were not inspected under the microscope, but contained almost no sulphides.

Gold and sulphides in place in the vein quartz are shown in Photos T-1 and T-2. The pasty amalgam from the ground and amalgamated jig con was squeezed through a fine chamois and the resulting gold amalgam was smelted by Delta Refining and Smelting to doré bullion. The doré was weighed, 4 tiny holes drilled into the flattened button and the fineness of the button's drillings assayed by Delta. The flattened button was imprinted with the company name for identification purposes, and retained to be shown with the report (Photo T-11).

Jig sulphide con, float con, float tails, table con and table tails, the blanket filter fines and the mercury left over from the amalgamation were assayed at General Testing Labs of Vancouver. Assay results are attached from the three assayers.

Apart from giving a useful bulk assay of a fairly large sample of the vein material, the test indicated that no severe problems in milling of the ore are to be expected in a standard gravity-float mill circuit (such as that in use on similar gold-quartz at Nu-Energy). The test circuit flowsheet is thus amenable, with minor changes, to a production scale circuit in which final engineering optimization could take place.

9.1 Miscellaneous Notes – Test:

No upgrading of rough float con was carried out.

Ore was crushed to 3/8" minus.

Circuit-mill, classifier, etc. were cleaned after test - the pannings were added in to the jig con. Some very fine flow gold had settled in the classifier.

Gold balance around the mill-classifier-flotation circuit was 99.46% of feed.

FIGHER - EQUINATE



TABLE T-1

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GOLD AND SILVER MATERIAL BALANCE

<i>,</i>		•	Troy Assay oz./Tor		./Ton Troy Total oz. Metal	
Stre	am	Dry Wt. (lbs.)	Au	Ag	Αυ	Ag
Cru	shed Feed	500	3.60 (Table T-	0.985 -2)	0.900	0.246
Jig: a)	Gold Amalgam	~ 2.15 15.5 gms. (=.455 oz.) 89.24% Au, 9.97% Ag			0.407	0.0455
b)	Free Hg	1 .	(87.32 mg.	21.7 mg.)	0.00256	0.00064
c)	Sulphides	2.15	25.22	6.45	0.0272	0.0069
	Jig Total					
Flo1 Con	ration Sulphide	8.72	85.88	24.58	0.374	0.107
Flot Tail	ration Sand s (Tails, % of feed	489.13* metal)	0,345 oz. accounted % unaccounted	0.31 d for d for	0.0844 (9.38%) 0.89506 0.54%	0.0759 (<u>30.8%</u>) <u>0.2297</u> <u>6.5%</u>
Tab	le Con	10 lbs. *	0.120	0.15	0.006	0.00075
Tab	le Tails	478.13 lbs.*	0.138	0.14	0.033	0.034
Tail	s Water Filter Mu	d 11b.*	0.381	0.26	0.00038	0.00026
Tote	al Table Outstrean	ns ^l			(。0339)	(.03501)

Jig Total

Flotation Sulphid	e Con. 8.72	85.88	24.58	0.374	0.107
Flotation Sand Tails 489.13* (Tails, % of feed metal)		0.345	0.31	0.0844 (9.38%)	0.0759 (30.8%)
•		oz. account % unaccoun	ed for ted for	0.89506 0.54%	0.2297 <u>6.5%</u>
Table Con	10 lb.*	0.120	0.15	0.006	0.00075
Table Tails	478.13 lbs.*	0.138	0.14	0,033	0.034
Tails Water Filte	Mud 1 lb.	0.381	0.26	0.00038	0.00026
Total Table Outs	treams			(.0339)	(.03501)

99.46%

Notes:

Balance around feed-grind-settle float circuit – very good closure Balance around table not so good – perhaps loss of extreme fines in the tails water (only 40.5% of gold fed to the table accounted for)

34 gms. = 1 troy oz.	1000 mg. = 1 gm.	2000 lb. = 1 ton
Au = Gold Ag = Silver	Hg = Mercury	
•		

Total Milling, Time - 20,5 hours. Rate - 25 lb./hour

Panned mill circuit cleanup cons added to jig con

* By subtraction

TABLE T-2

BONDAR CLEGG

Bondar Clegg Assay Report #A29-1640, December 17, 1979

Crushed Heads Sample #13877 assayed in quarters

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Samples (gms.)			Au. oz./Ton	Ag. oz./Ton
No.1	341		3.87	1.02
No.2	323		3.52	1.08
No. 3	327		3.61	.95
No.4	299		3.26	.89
Total	3632	(8 lb.s)	3.60 average	.985 average

= 10% variation about the mean

At \$600/oz.G	iold, \$20/a	oz. Silver
3.6	0 x 600	2,160
· 0.9	85 x 20	19.7

Value of Precious Metals/Ton indicated in feed \$ 2,179.7

TABLE T-I

GOLD & SILVER MATERIAL BALANCE

н 	Dry	<u>Troy Assay c</u>	z./Ton	<u>Troy Total</u>	<u>oz. Metal</u>
Stream	<u>Wt. (lbs.)</u>	Au of the comment	Ag	<u>Au</u>	Ag
Crushed Feed	500	3.60 (TABLE T-2)	0.985	.900	.246
Jig: a) Gold Amalgam	2.15 15.5 gms. (=.	455 oz.) -		· 407	.0455
b) Free Hg	09.24% Au, 9.	(87.32 mg.	21.7 mg.)	.00256	.00064
Sulphides	2.15	25.22	6.45	.0272	.0069
Jig Total					
Flotation Sulphide Con	8.72	85.88	24.58	.374	.107
Flotation Sand Tails (Tails,% of feed me	*489.13 tal)	.345 oz. accounte % unaccounte	.31 d for d for	.0844 (9.38%) .89506 0.54%	.0759 (<u>30.8%)</u> .2297 <u>6.5%</u>
Table Con	*10 lbs.	.120	.15	.006	.00075
Table Tails *	478.13 lbs.	.138	.14	.033	.034
Tails Water Filter Mud	1 lb.	. 381	. 26	.00038	.00026
Total Table Outstre	ams	• •		(.0339)	(.03501)

Notes:

Balance around feed-grind-settle float circuit - very good closure Balance around table not so good perhaps loss of extreme fines in the tails water (only 40.5% of gold fed to the table accounted for)

34 gms.=1 troy oz. 1000 mg.=1 gm. 2000 lb.=1 Ton Au=Gold Ag=Silver Hg=Mercury

Total Milling Time=20.5 hours. Rate = 25 lb./hour Panned mill circuit cleanup cons added to jig con.

* By Subtraction



99.46%

CERTIFICATE

I, William D. Groves, do hereby certify that:

- I, William D. Groves, am a consulting geological engineer, 1. residing at #425-1915 Haro Street, Vancouver, British Columbia.
- I am a graduate of the University of British Columbia, 2. (B.A.Sc., Geological Engineering, 1960). I am a graduate of the University of Alberta, B.Sc., in Chemical Engineering in 1962, and of the University of British Columbia with a Ph.D. in Chemical Engineering in 1971.
- I am a Registered Professional Engineer of the Province of 3. British Columbia (#8082).
- I have practiced my profession since 1960. 4.
- I have worked on CUSAC's Table Mountain properties in the 5. periods of July 19-22, Sept.1-Oct. 20, and Nov. 5-12, 1979; in conjunction with Mr. S. Presunka (Geophysicist) and Mr. J. Poloni, P. Eng., geologist, G. and F. Brett and others, doing geology and sampling, jointly supervising 1979 drilling with J. Poloni, escorted a bulk sample from the property to Vancouver, November 12-14, 1979, and supervised the milling of the bulk sample December 15-17, and subsequently interpretation analyzing the results.

I have worked closely with Mr. J. Poloni, P.Eng., professional engineer, who supervised the program on the property particularly in the earlier part of the Summer, and with whom this report is jointly written.

- I have not received, directly or indirectly, nor do I expect 6. to receive any interest, direct or indirect, in the property of CUSAC Industries Ltd., or of any affiliates thereof, nor do I beneficially own, directly or indirectly, any securities of CUSAC Industries Ltd., or any affliate thereof.
- I hereby consent to the use of this report in a Prospectus 7. or Statement of Material Facts to be filed with the Vancouver Stock Exchange and Superintendent of Brokers for British Columbia.

Respectfully submitted,

Millian D. Groves Dr. W.D. Groves, P.Eng. DATE: February 4, 1980

SUMMARY OF NOTATION

Mn	Manganese
Qtz.	Quartz
Fe	Iron
W	Weathering
Brecc.	Breccia
Cht. Chty.	Chert Cherty
Ø	Transition Phase ($oldsymbol{\hat{c}}$) direction of injection
Frax.	Fractures
	40 ⁰ angle between axial direction and foliation measurement
Dk.	Dark
Arg.	Argillite
Δ = 6'	Vertical trench wall height = 6 ft.
Blk.	Black
Volc.	Volcanic
Irreg.	Irregular
Xline	Crystalline
F.G.	Fine Grained
Poss.	Possible
Sphal.	Spalerite
Sil.	Silicious
Α	Andesite
AT	Andesite Tuff

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CERTIFICATE

I, John R. Poloni, of 5502 - 8B Avenue, in Delta, in the Province of British Columbia,

DO HEREBY CERTIFY THAT:

- 1. I am a Consulting Geologist.
- 2. I am a graduate of McGill University of Montreal, Quebec, where I obtained a B.Sc. degree in Geology, in 1964.
- 3. I am a registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia.
- 4. I have practiced my profession since 1964.
- 5. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
- 6. I have personally visited the Pete and Cordoba mineral claims during the Summer and Fall of 1979 and assisted in the preparation of this report.
- 7. I have no interest in the properties and securities of CUSAC Industries Ltd., nor do I expect to receive or acquire any.
- 8. I hereby consent to the use of this report in a Prospectus or Statement of Material Facts to be filed with the Vancouver Stock Exchange and Superintendent of Brokers for British Columbia.

Feb + 180 Dated this Respeg ted. J. Po1881-0 Eng. BRITIS

MINERAL ACT - PROVINCE OF BRITISH COLUMBIA **Record of Mineral Claim** FORM G 104 P/4E g 365 RECORD NO. MAP NO. 111899 B Victoria 7th · June 2. . 77 RECORDED AT ... G RECZIP DAY OF CO NOT WRITE IN LIARD SHADED AREAS at ha ma Barsta Erett AGENT FOR Affidavit ... Coder #205 IJJ. for -----Mineral VALID SUBSISTING F.M.C. NO. VALID SUBSISTING F.M.C. NO. Claim OATH AND SAY - I COMMENCED LOCATING THE MINERAL CLAIM 60 UNP ON THE AND COMPLETED THE LOCATION 10: AM. ON THE DAY OF 19 CONSISTING OF Morth IND I HAVE IMPRESSED ALL THE REQUIRED INFORMATION UNIT LENGTHS LENGTHS ON METAL TAGS NO 1407 WHICH HAS BEEN SECURELY FASTENED TO THE POSTS AS REQUIRED UNDER THE REGULATIONS. IDENTIFICATION POSTISI NOT PLACED WERE N, Mar x11 NE THE LEGAL CORNER POST ____ CHECK "V" APPLICABLE SQUARE IS SITUATED: Neze THE WITNESS POST FOR THE LEGAL CORNER POS 1 mile 0. the A 2 101-North NICYES Inder V 0 (va not Appiot 1,000 Lepot Pate is 6,000 Motics Press South of CG-6536 600 Anles Westo off point 1000 BEARING AND DISTANCE TO TRUE POSITION OF LEGAL CORNER POST FROM THE WITNESS POST BEARING AND DISTANCE FROM IDENTIFICATION POST TO WITNESS POST I HAVE COMPLIED WITH ALL THE TERMS OF THE MINERAL ACT AND REGULATIONS PERTAINING TO THE STAKING OF MINERAL CLAIMS AND HAVE ATTACHED A PLAN. ACCEPTABLE TO THE MINING RECORDER, OF THE LOCATION. SWORN AND SUBSCRIBED TO AT. 111899 E 210 x . : <u>.</u> 19 BEFORE ME DAY OF THIS AFFIDAVIT MAY BE TAKEN BY A PERSON EMPOWERED TO A FFIDAVITS BY THE EVIDENCE ACT OF BRITISH COLUMBIA TÞ MR OR SMR STAMP 18 NG OF UNITS ----ITPE CREDIT TRANSFERS (8/5°S, ASSIGNMENTS, CONVEYANCES) YEAR OF CILIN NUMBERS OF WORK WORK UNITES | RENTAL IN 5 5 RECORGE June 1,1979 #2301 E/S all interest to P June 2/78 1979 21900/917 Gisac Industries Ltd /79 P 1960 23/ 3001-5-62 Aar . .. ••. ÷

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RETT and CUSAC INDUSTRIES LTD.

INSPECTOR'S REPORT

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FROVINC MINERAL E of eritish columeia Record of Mineral Claim 104 P/48 g FORM G 367 RECORD NO. . 111899 E June Victoria 7th 77 B.C. THIS DAY OF NING RECEIPT NO. RECORDED A •: •) NOT WRITE IN LIARD SHADED AREAS -----Gui Hord Bu AGENT FOR Affidavit U. Ponder # 205 for -----Mineral 153785 VALID SUBSISTING F.M.C. NO. VALID SUBSISTING F.M.C. NO. Claim Cordoba MAKE OATH AND SAY - I COMMENCED LOCATING THE ___ MINERAL CLAIM 1977 AT 10:00 AM June DAY OF ___ ON THE AND COMPLETED THE LOCATION 10:30 DAY OF JUNA 19.77_AT_ ON THE __ CONSISTING OF -.... 6 , AND_ UNIT LENGTHS UNIT LENGTHS AND I HAVE IMPRESSED ALL THE REQUIRED INFORMATION 11408 .. WHICH HAS BEEN SECURELY FASTENED TO THE POSTS AS REQUIRED UNDER THE REGULATIONS. CA METAL TAGS NO. N. Marly, No Way DENTIFICATION POST(S) NOT PLACED WERE Ain-No Wo NS HIG W, WE NO NIM <u>41.</u>. THE LEGAL CORNER POST IS SITUATED: CHECK "V" APPLICABLE SQUARE THE WITNESS POST FOR THE LEGAL CORNER POST. Scult of South Due The Cordoba Claim joins due south of the I.C SOO Motos 22. 1.00: Southoff.6531 G. Calliso 2000 lere Fast 11 00 T BEARING AND DISTANCE TO TRUE POSITION OF LEGAL CORNER POST FROM THE WITNESS POST BEARING AND DISTANCE FROM IDENTIFICATION POST TO WITNESS POST I HAVE COMPLIED WITH ALL THE TERMS OF THE MINERAL ACT AND REGULATIONS PERTAINING TO THE STAKING OF MINERAL CLAIMS AND HAVE ATTACHED A PLAN. ACCEPTABLE TO THE MINING RECORDER, OF THE LOCATION. SWORN AND SUBSCRIBED TO AT . 111597 210 DAY OF BEFORE ME AS AFFIDAVIT MANSE TAKEN BY A PERSON EMPOWERED TO MR OR SMR STAMP 12 NO. OF UNITS ITPE OF WORK CREDIT TRANSFERS YEAR OF AORK NUNBERS C/L IN WORK UNITIST | RENTAL IN S'S ******* June 1,1979 #2301 H/S all interest to 21930/941 Cusac Industries Ltd. June 2/78 P 1979 ٦р Apr 23/79 1980 3CO75--E**6** :

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MINERAL ACT - PROVINCE OF BRITISH COLUMBIA **Record of Mineral Claim** 366 104 P/48 g FORM G RECORD NO 2.2.2 111899 B Victoria 7th June 77 ECOROED AT KING RECEPT 8.C. TH DAY OF 20 JO NOT WRITE IN. LIARD SHADED AREAS MINS MATA WING DIVISIO AGENT FOR Affidavit mamf 205 . for ADGESS Mineral_ 78S VALID SUBSISTING F.M.C. NO. .. VALID SUBSISTING F.M.C. NO., Claim ----. MAKE OATH AND SAY - I COMMENCED LOCATING THE MINERAL CLAIM JAC 10:00 DAY OF NO COMPLETED THE LOCATION ON THE 19ZZ - - - 10 CONSISTING OF ON THE DAY OF 2 UNIT LENGTHS AND I HAVE IMPRESSED ALL THE REQUIRED INFORMATION UNIT LENGTHS 686 ON WETAL TAGE NO WHICH HAS BEEN SECURELY FASTENED TO THE POSTS AS REQUIRED UNDER THE REGULATIONS. w IDENTIFICATION POSTISI NOT PLACED WERE n11. \mathcal{W}_{h} <u>h)/_</u>____ 51 L THE LEGAL CORNER POST NPZ IS SITUATED:_ APPLICABLE SQUARE CHECK THE WITNESS POST FOR THE LEGAL CORNER PO 10 1 0 BEARING AND DISTANCE TO TRUE POSITION OF LEGAL CORNER POST FROM THE WITNESS POST BEARING AND DISTANCE FROM IDENTIFICATION POST TO WITNESS POST I HAVE COMPLIED WITH ALL THE TERMS OF THE MINERALIACT AND REGULATIONS PERTAINING TO THE STAKING OF MINERAL CLAIMS AND HAVE ATTACHED A PLAN, ACCEPTABLE TO THE MINING RECORDER, OF THE LOCATION. SWORN AND SUBSCRIBED TO AT E 210 111899 THIS DAX OF BEFORE ME FIDAVIT MAY BE TAKEN BY A PERSON EMPOWERED TO TAK MR OR SMR STAMP 12 NO. OF UNITS -----GALCE CREDIT TPANSFERS YEAR OF C/L IN 07 WORK 15/55. ***** WORK UNITIST & RENTAL IN S.S. 2/78 1979 1913/929 P June P 1980 23 79 Am 30063-74 -----÷ 7. . • 2.2

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List of References - Geology

- 1. Progress Report on the Pete and Cordoba Mineral Claims, Cassiar Area, Liard M.D. for Cusac Industries Ltd. by John R. Poloni, B.Sc., P. Eng. September 12, 1979 (Includes and summarizes 1979 Geophysical Surveys & Maps of S. Presunka, Geophysicist)
- 2. G.S.C. Memoir 319 by H. Gabrielse, 1954 incl. Map 1110A. McDame Area, Cassiar District, B.C. 4 mi = 1 in Map & its Notes included.
- 3. Cassiar Map Area (104/P) A. Panteleyev 1978 (Map 2 (B) included
 B.C. Dept. of Mines. Cassiar Stock Area.
- J. Poloni. "Report on the Pete and Cordoba Mineral Claims. Cassiar Area, Liard Mining Division for Cusac Industries Ltd. September -, 1978, Att. S.M.F. Filed June 15, 1979.











DESCRIPTIVE NOTES

ame map-area is accessible by motor vehicle via the Alaska Highway he Cassiar Road: the latter runs from mile 648.5 to Cassiar, a distance out 97 miles. The Cassiar-Slewart Road, under construction, leaves

Road 1 mile east of McDame Lake and runs southerly along Bass Creek, Cottonwood River and Dease River, to Dease tuous branch road, usable only by trucks and four-wheel-drive ies, follows McDame Creek to the old post of McDame on Dease r. Dease River is navigable throughout its course, but near its mouth Mile and Four Mile Rapids require careful navigation. Pack-horse

afford access to must of the map-area and horse feed is generally inable. Timber-line is about 4,500 feet above sea-level. Many well ibuted lakes can be used by aircraft available at Watson Lake.

The map-area includes parts of two main physiographic units-Liard and Cassiar Mountains-and a number of subdivisions of these i, Liard Plain, to the northeast, is relatively flat and heavily covered drift. The western border of the Rocky Mountain Trench forms a nct straight escarpment where it enters the area from the southeast, t merges with the Liard Plain north of Red River. Dease Plateau, west e Liard Plain, is characterized by northwesterly trending ridges of low oderate relief. Horseranch Range, bordered to the east by Dease eau and to the west by the valleys of Dease and Rapid Rivers, extends herly from Looncry Lake as a high, unbroken ridge for almost 30 miles. ms an outlying part of the Cassiar Mountains to the southwest. The est point in the range is 7,300 feet in elevation and about 5,000 feet re Dease River, the maximum relief in the map-area. The southwestern southern parts of the area are occupied by the Cassiar Mountains,

gued region with a maximum relief of about 4,000 feet. During Pleistocene time, ice moving northeasterly and leasterly. red the entire area except possibly a few of the highest peaks.

The Horseranch group (A), a regionally metamorphosed and locally about as comblame of Cambrian and or Precambrian sedimentary , as much as 7,000 leet thick, underlies Horseranch Range. These s, exposed in a doubly plunging anticline, are bounded by faults and so that their relations to other rocks are unknown.

A conformable requesce of Pr-cambrian and Lower Cambrian lime-Lite, and shale, the Good Hope (1, 2) and Atan (3, 4) tps Tespectively, occupy mainly a northwesterly trending, complex sti im on the northeast flank of the Cassiar Mountains. Precambrian be as much as 4,000 feet thick but the base is not exposed. asiliferous Lower Cambrian strata are at least 3,000 feet thick.

Highly contorted Cambro-Ordovician rocks of the Kechika group (5) ormably overlie the Atan group (3, 4). In the southwestern and southern s of the area Cambro-Ordovician strata are mainly dark grey argilous rocks as much as 1,000 feet thick, whereas in the northeastern eastern parts they are mainly light buff and grey calcareous and llaceous rocks more than 2,500 feet thick. Bodies of greenstone, laps mainly or entirely intrusive, are common in the Kechika group (5). Northeast and east of the major synclinorium in the southwest part he map-area, the Walker group (5) is overlain disconformably (?) by iliferous cherty dolomites and generally non-fossiliferous sandy dolois and dolomitic sandstones of the Ordovician and Silurian Sandpile ip (6a, 6b). On the limbs of the synclinorium and in several places of it, however, strata probably equivalent to the Sandpile group 6b), but lacking fossiliferous cherty dolomite, rest directly on Lower ovician rocks. Highly altered dykes and sills of greenstone have ined the dolomitic rocks.

Laminated dolomite of Silurian and/or Devonian age (6c) conformoverlies Silurian strata on the limbs of the synclinorium. Dolomite ccia (6d) of Silurian and/or Devonian age occurs in a few places.

he McDame group (7a, 7b) comprises a lower member of fossiliferous, :k, fetid dolomite from 350 to 550 feet thick, and an upper member of platy limestone from 175 to 275 feet thick. This group unconformably rlies rocks ranging in age from Cambro-Ordovician to Silurian and/or onian.

An assemblage of Upper Devonian and Lower Mississippian volcanic the string then 15,000 feat thigh the Sylvaster group -conformably (?) overlies the McDame group (7a, 7b) on the limbs of synclinorium in the southwest part of the map-area.

Lenses, sills, and stocks of ultramatic rocks (9) cut the Sylvester up and are believed to be of Lower Mississippian age.

rked unconformity indicates the base of the Middle Mississippian (10). In the south-central part of the map-area, carbonate rocks hup, as much as 1,000 feet thick, overlie the Sylvester group (8):

t 5 white Lake they overlie rocks of the Kechika group (5). Granitic r crs of the Cassiar intrusions (11), probably emplaced in scoold time, underlie the rugged region in the southwest part of the

The peuropest consolidated sedimentary rocks in the area (12), of A third and fluvial origin (14)

- GAETIEL := 1754

Rocks underlying the Liaro Plain and Dease Plateau are highly toldi and faulted. In particular, thin-bedded, incompetent Cumbro-Ordovicia strata have been intensely deformed and cleavage has been develope to a high degree. The Horseranch group (A) is exposed in a relative simple, doubly plunging anticline bounded on the west and southeast : major faults. The Cassiar Mountains in the southwestern and southe parts of the area embrace mainly two anticlinal areas and an intervenir synclinal area. Within the anticlinorium west of Dease and Rapid Rive the strata are complexly folded and faulted. The Cassiar batholith h been emplaced into an anticlinal area bordering the synclinorium to th southwest. The structure within the southeasterly plunging synchroniu is not well known, but the outline of the major structure is symmetric and well defined.

Several major longitudinal faults have been recognized, along whit some movement has taken place in Tertiary or post-Tertiary time. addition to these faults, numerous northerly and northeasterly trende faults cut strata in the anticlinorium west of Dease and Rapid Rivers and in the structurally complex area southeast of Deadwood Lake.

Placer gold was discovered on McDame Creek in 1874 and on Walk Creek in 1877, but since 1887 only McDame Creek has yielded importa amounts of gold. Gold has also been panned on Rosella and Spri Creeks and on Dease River. The gold originated in guartz veins in t volcanic rocks of the Sylvester group (8), which carry free gold, pyri and tetrahedrite. These veins are particularly abundant in the area betwe Pooley Creek and the mouth of Quartzrock Creek.

Minor chalcopyrite was noted in five places in a narrow zone calcareous phyllites extending for at least 12 miles northwesterly fro Hidden Valley Creek. A showing containing specular hematite, chalcor rite, and minor galena occurs 11/2 miles south of the mouth of Nizi Cre-Silver-lead-zinc minerals have replaced dolomitized limestone and, to lesser degree, quartzite of the Atan group (3, 4) in a zone extending fro Mt. Haskin to south of Dease River beyond Atan Lake. Near Atan La galena occurs with barite. Silver-lead-zinc replacement bodies, containg much manganiferous magnetite, occur 3 miles northwest, and 2 mil south, of Cassiar. Quartz veins 3 miles northwest of Cassiar conta significant amounts of bismuth. Pyrrhotite and magnetite replaceme bodies carrying minor molybdenite and scheelite occur along the conta of the Cassiar intrusions (11) with the Good Hope (1, 2) and Atan (3, groups. Beryl is found in pegmatites in the central and northern parts Horseranch Range, and helvite occurs in tactite 2 miles northeast of t mouth of Bass Creek.

High-grade chrysotile asbestos is being mined from a serpentin body 3 miles north of Cassiar, and non-commercial bodies of asbes: were noted in most of the ultrabasic bodies in the map-area. Small lens of chromite occur in dunite bodies, and from 0.1 to 0.3 per cent nickel w obtained from samples of several of the ultrabasic bodies.

Thin, much-contorted seams of lignitic and sub-bituminous co occur in Tertiary rocks (12) along Rapid River.

NOTES I'SSON MAPIOA GEOLOGY. Mic DAME CASING DISTRICT PRITISH COLUME A GECTENIDIR 219 By F. GARTESSE

APPENDIX 1

MARKED	GO	LD	SILV	/ER	Cu	Zn	Nn			1		
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
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2240	20.65	5	3.02		-	-	-					
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cc Mr. J. Poloni			×									

NOTE: Rejects retained three weeks Pulps retained three months unless otherwise arranged.

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Registered Assager, Province of British Columbia

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ROOM & BOARD

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\$6,000

RE: DIAMOND DRILL HOLES 1, 2, 6, 7 & 8 (Cordoba)

September 16 to 27 (12 days). October 21 to Nov. 8, 1979 (18 days)

30 days total

4 men @ \$50 per day per man = \$200 per day times 30 days = \$6,090

RE: DIAMOND DRILL HOLES 3, 4 & 5

September 28, 1979 to

October 20, 1979

Room & Board

\$4,600

4 men at \$50 per day per man = \$200 per day 23 days x \$200 = \$4,600

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	19.1 NOT! (S. P) @-	> 752	(93)	4.55	2.60		· 12N; 40013		4								HK 752 Float Frond Id Timers Fronch . Green	1 4 9. Sample Continua
	LISTYFUTT OTT AREALONG	753		,	••3	51	K. 00, NI -, WIC				- JUL 23/7	WDG+JP.	J.P. Mora	I. JU- 27/79				
> 1,-, 1a, 14	'INDIAN'V. (3)-	755	:087	.25	به به در در مین اف از مینو دستامه مینامین مینون مینون مینو								Ur werd	3. 506 17/79			Lisi Valla, Grand Sample, Pete	pres (Mound is f
for and tranker		757	·008	.02	a An an an air an air		5-2.001											
-	L3;0=20E(5P) (758	.003	.04							~ 50623/70	wo(+JP)	JP. MOTES	150277/79	2			
	13+20 (J.P) (A	760	.10	.04	•13		5. 6.001				~ JUL 23/79	WOL + JY	TP NO TES	PK-73/79	3'APPPox		High and the component of the	
	L4+60E (VA) OLPPIT 5	761	.006	.02	.10			· · · · · · · · · · · · · · · · · · ·			~ 00123/77	WOG + JP	JP NOTES	- JUL 27/ 29	OLD PIT		"OLD PIT +4+ 605	my in to 2 4 high gr
DOVE COMINICOVEIN	19+2001	762	.002	.02	•01			• • •			254.23/79	5P.	JPNOTES	· · JUL 27/ 71	L9TRE	VIA SAMPLE (TRENT	EW) OF NAEA ABUNE LAST FOM	NO PIT OFFN,
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ł		766	.009	.03	en e		Pt 4.002											
ORE.	L2 , 40-80E (30F () + 1')	830 KH	1005	-				A29-69	5 . Aug. 14	79.	JUL 29/7	Day 2						SED. FARGILLITZ
ner en la companya de la companya d El companya de la comp El companya de la comp	LSE, 140-200 20 MN (5010)	846 KK	5.002	•13	2.01		W= .02			đ								VOLCANIC MATER
ORE	14. PDH SUAP TARE	- C-45	.070	21.60	·40 1109			A19-86.	8. mg 31/	19		G β,			23'TRANCES	E		DDH#/ SURF F-
P i	TOPERWE HI	2229		105	4.00		CIELO	A29-98	9. SEPTII/	79								
ore C	19. 5'BMACUVEINI	17401	2.002	.03	7.20	-	<i>ca</i> 06	A29+103	6 SEP1 27	79	SEPT5/	79 SPHWDG	JPNOTES.		5'VON		-	
VEIN ?	L9 S'BARRONDIN	17402	.002	.04	i da je na						SCPT 5/1	7 JP+WD.G.	. JP. HOTES					VENI VEIN, BULLY
	SUAFFUATVEIN O	17403	2.002	.04		₽ ⊈	· · · · · · · · · · · · · · · · · · ·					ZP + WDG	JP NOTES	de la construcción de la	6'			OTE-CARD 95% 957
ma arm	Luleron Je) D	17404	. 2.00 -	+03	2 01					3		SP+WDG.	JP NJTES	REPF-	51	C RARIE 11.0		Grz VEIN N70
Ma Frea.	24 (R.m. 11,51) (S)	17406	.030	(7.52)	•39				· · · · · · · · · · · · · · · · · · ·			JP+ WDG.	JI NOTZS		24' TRAVE	ANT CRABICAR	- DOMI Pres catel - trank sura	"OTZVETN, MARIE
VER, NM48	24 (PLONVI) (GTZ VEING	17407	3.29	.70	· 0/ 7- 01	EVEIN 7'						JP.	JPNOTES		17'	GRAB/CHIP	OTE KOPE NO END MEA 8.	"OTZ VEIM MINOR OCHA!
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12G. (15, 2206 (SUNTE TRENCY @	17411	.004	• 04	Final Action					er + - 179	Ag, ANONAL	AADA NDG+J	. JP NOTES	h i	7 (2:1)	GRAD. AR TRENCH	MT9 BOCKINETR - LS+220E HIGHL	REEDY OPTION OLENAND
5 TROUE DICEP	VEINLET FROM 1741 JE	17412	.002	103						EPT 6177		405+ 51	TPHOTEL	A	-	SEL , FROM CL. VEINLETS		SELECTIVE SAMPI
AEA.	45+10 N 250 E (0)	17413	2.002	.02	H ji b na Na ana ang ang ang ang ang ang ang ang an					a and a set		- WDG - TP	70					
	15+00N. THIM LT, VEIN	17415	1003	(58 1 -	- Ay su come 1	EINS (SOUR	(E) - SURF (Emplin	V. T7111	VETNI	PROPLE	n .	JF MOTAS				Fruit Malue manufau	THE AND THE TE
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GRID LOCATION COORDIN ATES	VEIN NUMBER OR DDH NUMBER	ASSAYLAB TAG: NO,	Au OF/T Ag	G.7.	20 Pt 9. Mr 4	W.N., (r pt, Cd, otc.	ASSAY REPORT NUMBER	ASSAY REPORT DATE	FIELD TAG.NO IF DIFFER	FIELD SAMPLING BUT DATE	SAMPLER (S)	FIELD NOTEE PATE DATE	WIDTH	/ SAMILING TECHNIQ	UE D	ESCRIPTION	OF	DESCRI	PTION OF
Marintel ONE CONTP.	C C W C C W C C	17452	·01 (9.1	5	an an ann ann an ann a' cean		129-1036. NUEN.	SEPT 27/79	 A second contract 	SEPT12/79	W>6		41 WIDT	H C141 P.	2.	DIN ENECONT-SE	HERYTE	Neovy pyrite	NHOOW.
513, Ore. Hu	E END	17456 17457	·002 ·3 ·010 ·0	4 -	Artimo	-y+ ·22 56	A29-1117	0-15/79								VI DI TO AL IN TO		221	
3 m.A	J. PIN 5 1 2 1. 3 1 > 1	17459	5.50 (13 75.05 5'	92 31 2					2						DINO N DINU	AT DULIDY AT M V. 30'TO SOFI-	1977. 7463 94 4	TUNCT EN	THISIDE. OT
SHORT VE	N 55' Nolph ->	17462	2.69 .6	5						SEPT 23/7 9	wDG.	WRG , 1007/19 ;+100	21/19 221	CHIP/GRAB.	#2.9	00 pp on an, Welges	reliquity 50 wy	v. Short Section 7	12.5 N20W
514. CORE (5)	DDH1, Box 9'-20' DDH1, Box , 10-27'	2230	·005 ·12 ·002 ·00	·01 · 2 <·01	02	Ma: 2/ Mn · 10	A 29-1282	OCT 18/79	· · · · · · · · · · · · · · · · · · ·	0076/79	mpg.				M	VERAL RESOURCES BI	JANCH		
	DDH1, Box 2 27'-34' DDH1, Box 2, 34'-42'	2232	1010 .4	·06 ·17	03 07	Min 1.30 Min . 59.				017/79						ASSESSMENT REPOI	ar .		
	PDH2, Box1, TOP 151-20 PDH2,	2236	·040 .27	4.01	24	Mn. 25 Mn 55	· · · · · · · · · · · · · · · · · · ·		ę			· · · · · · · · · · · · · · · · · · ·				373			
<u>Š</u>	DDH 3 1 3 300' (Pres Fut)	2238 2239	.010 2.5	<u>4 05</u>	·76 - W·····, N.	41 n. • 2 k	A 29 - 125 ZA	01124/79		oure/19	N.D.G.	NIX.	1'0 300'	CRE SAMPLE - 300		NO.		Suspected WS2	mer dyte cutting
SIL 0% 0	DINOV, EXT.	2240	.17	- 2.01		N1= 12, CR.	A19-1316	our 26/79		OCT 9/79 OCT 9/79	wDG+G8.	WDG, (OCT 22/79' WAX (NOV 2/79'.	. Winangin	Y' CHAR. WI'OFVEI CHARACTER.	N. JUST	5 of Perunte Bardin	DDH 3 area, PET	Frilv. 110' Sof TE "GREN EAG"	Discorry plathe i TRY AUR CR. G.
517 POLP 6	L9 180E DPIT (HOTMARY)	864	· 91 (35117) (8. · 43 6.4	ern 156 pm	. 79appm 		129-1335	xr26/79		SEPT 3/79 SEPT 3/79.	WDG. (n. Bent) WDG.	51	IMPLED Q'WDT	1 DPIT (por V.)	10 Pi 1901			HIGH TEMP OF CRIRE ALONG	FSIDE HIGHGM
GALENA IN SOMPLE (3)	L9, 180 E LONG THENH (HOT).	867 872	1.26 IOF	73 - 1080 ppm. 49 ppm.	8 5 Apm. V.C 6 800 ppm.	g in sample.	A29-1385	ATT 14/79	ç (3-7)	SEPT 7/79 SEPT 7/79 OCT 13/79	шру. мру.	NDC (NOVH/70'	Choratio	pibed pud but of slote	D Pli Boly	- intrench. - Intrench.	Ing, Lousins 11 -	High Grade 90	Guland-Gold.
518 COVELOFC	$L_{4,0+20E}$ (9)	2242	080 1.	40 55					-	0415/19	w94. w94.	" (vov 12/79'. NOC' DEC 7/79'	15 (D:4) 4'	Chip - ropland frog.	mants. 9'ver	Was - Boken adge E site o NS, 30' WD back her	Bolldoter track	· @t2-incl + 9 41 ven NIS	My Sulphide . With, silicic frog
	DDH5 sulphili puble. DDH5 8022 97-195! (BK)	2246	· 005 ·/ · 002 (3	S			; 	a	FSL 2247	005/9/79	NDG	WD4 DEC 4/19'P. WD4 Dec 5/79'P.	Chorreter.	CORE, Black, 1/3 of	n cont. DDH core DDH	5 CORE " 5 CORE "	· · · · · · · · ·	30% gry corse DUHS - black con	Torted Carbonnicons
	DDH5 Box 3(11) 105'-127(0K) DDH5 Box 4, 125-141 (OK) DDH5 Box 4, 125-141 (OK)	2248 2249 2250	2.002 .C	4						Oct 20/79 Oct 20/79	vD4 vD4		141-192	ORE, EK(IDION)	B. DDH.	- CORE - PRES. FL		DONS - Con c	hip grey corbo
	DOH 384 BREST OME DOH 384 BREST OME DOIL 3 4 GREY CARE	2251 2252	2.002 4.0 2.002 10	2	11 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14			· · · · · · · · · · · · · · · · · · ·	JPW 2252	00720/70	wod.	WDY. 'DEK 6/79'	TROVICA	CORE-RANDOWN C	DDI DDI	J+4 BKEST PI GREJ XLIN	E CARD	-BITLS - -GREY C	- OITAC JMYLINI ARS (FUSIL
(SAE) BRECC	A , INDIAL VEN MANGIN. EN VEIN EOFB L. L3ASA	WDG51 400 40	·008 ·C	5 3 2	W SMALL GOLD-0	TTHTET. WE IN				OC12971 OC12971	wog.	WDG (DEC \$79' WDG (DEC \$79' NDC (DEC \$79)	BLOCKS F	CHIP/GRAC CHIP/GRAC	Blocks	from NaulEWV, E ZCARO VEIN M	of B.L.	- Grey Sulphid	on Morgin du
PETE AACA,	3" VEIN DUITS, PRES. B/L.	1745	1·71 0· ·36 ·2	84 × (mis)	NAMEDS REALLY 17.	415, ASIN NOTES	A29-1533	NOV 30/79	17415	SEPT 7/79	woj'	115EPT 22 Pt	3", ALT D=16.5	GIN CHIP ruf	Sinally Base	end Peter \$ 1051 pit 1001	Sof Panha .	FLATVEN OF	10n yello- (V. 9?) , N SVA = VEN 7
**	DDH6 321-36! DDH6 371-41' Hat'	17378 17379	·094 ·0 1·98 · 3	6									$\Delta^{\tau} 4'$ $\Delta^{\tau} 4' 0$ $A^{\tau} D'$	Ф <i>Г</i>				Rusty morgin RYOT.	of former
SUPH. STAINGER	DDH 6 49-52 (mm-1) DDH 6 178' MAJSILLS, DDH 6 272' "	17380 17381 17382	·56 ·4 ·042 ·6	8									D= 3 /						
					4.25 f. Ada a market and the address of the state of				ONTE			1						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

FRE MARCH14/80. CUSAC 1979 SUMMER PROG. ASSAYS. CORDOJA /PETE CL.



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J.L. Diamond Drilling Ltd., #3 - 7811 Steveston Hwy., Richmond, B.C.

October 22nd, 1979.

(Continued)

INVOICE TO:

Cusac Industries Ltd., Ste. 152 - 890 W. Pender St., Vancouver, B.C. V6C 1J9. Attention: G. Brett <u>Re: Contract dated Sept. 10/79 - 10 miles south of Cassiar, B.C.</u> Footage @ \$19 p.f. Hole No. 1 176' \$ 3,344.00 -Hole No. 2 110' 2,090.00 Hole No. 3 374' 7,106.00 Hole No. 4 132' to Oct. 10/79 2,508.00 Transportation and move of drill and personnel from Vancouver to drill site -0 Drill move 2,000.00 Air fare - 2 men 258.00 Sept. 16/79 Move and set-up - Field Cost 16 hrs - 2 men - 0 \$20 p.h. 320.00 7 8 hrs - Drill machine rental at \$15 p.h. 120.00 -Sept 17/79 Work on sloop to transport equipment - Field Cost . 16 hrs. - 2 men - 0 \$20 p.h. 320.00 8 hrs. - Drill machine rental @ \$15 p.h. 120.00 Sept. 18/79 Field Cost - Move - set up - 2 men - 16 hrs. Waiting time for Transportation -2 men -4 hrs. 20 " @ \$20.ph. 400.00 8 hrs. - Drill machine rental @ \$15.ph. 120.00 Sept. 19/79 Lay water line and haul pump to water supply-Field Cost 2 men - 16 hrs. @ \$20. ph. 320.00 2 men - Travelling time 4 hrs. @ \$12. ph. 48.00 8 hrs. - Drill machine rental @ \$15.ph. 120.00 19,194.00

October 22/79

700.00

23,968.00

1. S. S.

MARCHINE AND ALL AND AND A SALE

Cusac Industries Ltd.

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To:

<u>Sept. 20/79</u>	\$19 ,194 .00
Complete set-up - Field Cost 2 men - 22 hrs. @ \$20 p.h. 2 men - 4 hrs. travelling time @ \$13. ph. 8 hrs. Drill Machine rental @ \$15.00 p.h.	440.00 48.00 120.00
<u>Sept. 21/79</u> Casing - Hole No. 1 - 14' @ \$19. p.f.	266.00
Sept. 22/79 to Sept.23/79 - no extra charges for client's a/c Sept. 24/79	
Completion of Hole No. 1 @ 176' Move and set-up to Hole No. 2 Cost of not reaching depth of 400' 7 hrs. @ \$55. p.h. Sent. 25/79	385.00
Completion of move to Hole #2 5 hrs. @ \$55. p.h. Hole No. 2 - Casing 201 @ \$19 p.f.	275.00 380.00
Sept. 26/79 No Water - Field Cost 2 men - 2 hrs. @ \$20.ph. 2 hrs. Drill machine rental @ \$15. ph.	40.00
Sept. 27/79 Hole No. 2 completed at 110' Cost of not reaching depth of 400' Dismantling, etc 6 hrs. @ \$55. p.h.	330.00
Sept.28/79 Field Cost - Move, set-up and work on the roa 2 men - 24 hrs. @ \$20 p.h. 8 hrs. Drill machine Rental @ \$15. p.h.	ad 480.00 120.00
Sept. 29/79	
Road Work - Field Cost 2 men - 24 hrs. @ \$20. p.h. Drill machine rental - 8 hrs. @ \$15. p.h.	480.00 120.00
Sept. 30/79 Field Cost - Set-up for Hole #3 Set-up - water supply pump 2 men - 22 hrs. @ \$20. p.h. 8 hrs. Drill machine rental @ \$15. p.h. Core Boxes	440.00 120.00

100 @ \$7.00 per box

To: Curac Industrios 1td	- 3 -	Octob er 22nd, 1979.
cusac industries Lto.		23,968.00
October 1/79		•
Road Work and set-up - F	field Cost	400.00
20 hrs 2 men - 0 \$20. 8 hrs. Drill machine re	p.h. ental @ \$15. p.h.	400.00 120.00
October 2/79		
Travel Time – 4 hrs. – 2 Casing – 30' @ \$19. p.f.	? men @ \$12.00 p.h.	48.00 570.00
October 3/79		
Travel time - 4 hrs 2	2 men @ \$12. p.h .	48.00
Casing - 14' @ \$19. p.f.		266.00
October 4/79		
Travel time - 4 hrs 2	2 men - @ \$12. p.h.	48.00
Casing - 16' @ \$19. p.t.		504.00
October 5/79		
Travel time - 4 hrs 2	2 men - @ \$12. p.h.	48.00
October 6/79	•	
Travel time - 4 hrs 1	2 men – @ \$12. p.h.	48.00
October 7/79		
Travel time - 4 hrs 2	2 men @ \$12. p.h:	48.00
October 8/79		
Travel time - 4 hrs 1 Hole No. 4 - Field Cost	2 men @ \$12. p.h. - move. set-up	48.00
4 hrs 2 men @ \$20 p.	h.	80.00
4 hrs Drill machine Cacing 201 & \$10 p f	rental @ \$15. p.h.	60.00
October 9/79		300.00
Travel time - 4 hrs 0	\$ 12 n h	48,00
Casing - $22'$ @ \$19 p.f.	φις, μ.π.	1418.00
October 10/79		
Travel time - 4 hrs. @	\$12. p.h.	48.00
		26,998.00

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To: Cusac Industries Ltd. - 4 -

<u>۾</u> از از 26,998.00

ost in excess of \$3.00 p.f Cost of	F Bit \$/41.78		
Sept. 22/79		Cost	
Bit #1 - Footage drilled - 45'		\$ 16.48 p.f.	
Less 30% Recovery	\$4.94	7 04 "	
\$3.00 p.t.	3.00		
		8.54 "	
45' @ \$8.54 p.f.			384.30
Sept. 23/79			
Bit #2 - Footage drilled - 45'		16.48 p.f.	
Less 30% Recovery	\$4.94	7	
\$3.00 p.f.	3.00	7.94	
		8.54 "	
45' @ \$8.54 p.f.			384.30
Sept.24/79			
Bit #3 - Footage drilled - 65'		11.41 p.f.	
Less 30% Recovery	\$3.42	C 1 0	
\$3.00 p.f.	3.00	6.42	
		4,99	
65' @ \$4.99 p.≨.			324.35
Oct. 3/79			
Bit #4 - Footage Drilled - 50'		14.84 p.f.	
Less 30% Recovery	\$4.44	·	•
\$3.00 p.f.	3.00	7.44 "	
		7.40 "	370 00
50° @ \$7.40 p.t.			570.00
<u>Oct. 5/79</u>			
Bit #5 - Footage Drilled - 116'		6.39 "	
Less 30% Recovery	\$1.91	4 01 "	
\$3.00 p.t.	3.00	4,91	
		1.48 "	171 60
116'@\$1.48 p.f.		<i>\</i>	1/1.00
N.B. 30% Recovery on bits	A state	}	
Bit cost in excess of \$3.00 p.	f. $(\setminus \Sigma' /$	4	
to be adjusted on final billing			
pending our credit recovery of	bits.		
		2	8,632.63
• * * *	Less: Paid	1	9,000.00
541.			
	Due	\$	9,632.63
		the second se	

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J.L. Diamond Drilling Ltd., #3 - 7811 Steveston Hwy., Richmond, B.C.

November 1st, 1979.

INVOICE - # 2

Cusac Industries Ltd., Ste. 152 - 890 W. Pender St., Vancouver, B.C. V6C 1J9

Re: Contract Sept.10/79 - Cassiar

Footage @ \$19 p.f. Oct. 14 - 20/79 Hole #(5)- 218'

Move of drill & equipment from job site to Vancouver, B.C.

\$ 4,142.00

2,000.00

\$ 6,142.00

J.L. DIAMOND DRILLING LTD.

I parti Kinan

Marge Breen.



J.L. Diamond Drilling Ltd. #3 - 7811 Steveston Hwy., Richmond, B.C.

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November 26th, 1979.

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INVOICE - 3

Cusac Industries Ltd., Ste. 152 - 890 W. Pender St., Vancouver, B.C. V6C 1J9

Re: Contract Sept.10/79

Oct, 23-Nov.7

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·	Hole No. 6 363 " 7 319 " 8 <u>366</u>	
	1048 @ \$19 p.f.	\$19,912.00
	Airfare - Move of personnel Cassiar - Vancouver	258.00
Oct. 11	Move-set up for Hole #5 2 men – 6 hrs. @ \$20. p.h. Drill machine rental – 6 hrs. @ \$15 p.h. Travel Time – 2 men – 4 hrs @ \$12 p.h.	120.00 90.00 48.00
Oct. 12	Road Building & Drill move 2 men - 19 hrs. @ \$20 p.h. Drill machine rental - 8 hrs. @ \$15 p.h. Travel time - 2 men - 4 hrs. @ \$12 p.h.	380.00 120.00 48.00
Oct, 13	Move-set up 2 men – 22 hrs. @ \$20 p.h. Drill machine rental – 8 hrs. @ \$15. p.h.	440.00 120.00
Oct. 14	Travel time - 2 men - 4 hrs. @ \$12. p.h. Casing - 40' @ \$19 p.f.	48.00 760.00
Oct. 15	Travel time - 2 men - 4 hrs. @ \$12, p.h. Casing - 22' @ \$19 p.f.	48.00 418.00
Oct. 16	Travel time – 2 men – 4 hrs. @ \$12, p.h. Road work	48.00
	2 men – 5 hrs. @ \$20 p.h. Drill machine rental – 5 hrs. @ \$15. p.h.	100.00 75.00
Oct. 17	Cat driving 1 man - 8 hrs. @ \$20 p.h. Drill machine rental - 8 hrs. @ \$15. p.h.	160.00 120.00
Oct. 18	Travel time - 2 men - 4 hrs. @ \$12, p.h. Casing - 28' @ \$19, p.f.	48.00 532.00
Oct. 19	Travel time - 2 men - 4 hrs. @ \$12. p.h.	48.00

	To: Cusac Ind	ustries Ltd. – 2 –	J.L. Diamond Dr #3 - 7811 Steves Richmond, B.C.	illing Ltd., ston Hwy.,
	Invoice - 3		November 26th,	1979.
	Oct. 20	Travel time - 2 men - 4 hrs. @ \$ Move-set up 2 men - 19 hrs. @ \$20. p.h.	12. p.h.	\$ 48.00 380.00
		Drill machine rental - 8 hrs. A	\$15. p.h.	120.00
7.	Oct. 21,22 23	Move-set up - 10,560' excess mov 33 hrs., less 11 hrs. for contra 22 hrs. 0 \$55. p.h. (20 / M)	e ictor's a/c	1,210.00
	Oct. 23	Casing 5' @ \$19 p.f.		95 .00
	Oct. 24	Casing 10' @ \$19. p.f.		190.00
	Oct. 26	Reaming - (Charged at Field Cost given on shift repo 2 men - 4 hrs. @ \$20. p.h. Drill machine rental - 4 hrs. @	t as no details ort) \$15. p.h.	80.00 60.00
	Oct, 29	Reaming		
		2 men – 2 hrs. @ \$20. p.h. Drill machine rental – 2 hrs. @	\$15. p.h.	40.00
	Oct, 30	Move-Set up 3 men – 18 hrs. @ \$20 p.h. Drill machine rental – 8 hrs. @	\$15.p.h.	360.00 120.00
	Oct. 31	Casing 27' @ \$19. p.f.		513.00
	Nov. 2	No Water 3 men - 6 hrs, 0 \$20. p.h. Drill machine rental - 6 hrs. 0	\$15. p.h.	180.00 90.00
	Nov, 4	Move-Set up 3 men - 25 hæs. @ \$20. p.h. Drill machine rental - 8 hrs. @	\$15. p.h.	500.00 120.00
	Nov. 5	Casing		261 00
		19'@\$19. p.f.		361.00
		Less: Bit Cost as per Invoice	e #1	1,634.63
		Truck Rental, etc. as p invoice Nov. 20/79	ber your	2,201.50
				24,601.87
		Quik Gel, Quik Trol - as per purchase - copy of invoice en	agreement to aclosed	630.00
;		,		\$ 25,231.87

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CUSAC INDUSTRIES LTD. #152 - 890 W. Pender Vancouver, B.C. V6C 1J9

IN ACCOUNT WITH

RICHMOND DRILLING, Attention: M. Breen #124 - 11673 - 7th Ave. Richmond, B.C. V7E 3B7

1.

Truck rental, 4 x 4. September 22nd to November 9th incl. 3 \$625 per month, plus \$40 per month insurance

\$ 30

180

100

\$1,109.50

2. Repairs Yoke Whedl & Brake Adjustments Labour (5hrs @ \$20)

310.00

120.00

\$2,201.50

3. Dispatching, telephone calls re parts & supplies (8 hrs. per week for 7 weeks - 56 hrs. @ \$12 per hours 662.00

4. W.D. Groves - labourer Move out - Nov. 8th (10 hrs. @ \$12)

TOTAL

G.H. Brett, President

November 20, 1979

CUSAC INDUSTRIBS LTD. #152 - 890 West Pender Vancouver, B.C.

V6C 1J9

RICHMOND DRILLING #124 - 11673 7th Ave Richmond, B.C. V7B 3B7

PURCHASED FROM NU-ENERGY

5 barrels diesel @ \$49.50 per barrel

Total

\$247.50

<u>uii</u> G.A. Brett

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DATE: S	eptember	13, 1979											
INVOICE	TO: J & 205 Coqu	L Diamond Drilling 515 Cottonwood Drive aitlam, B.C.											
CONSIGN	IED TO: 755] Rich	L Ash St. mond, B.C. Job - 124	- 		INVOICE Nº	5038							
THIESSEN EQ JP CLOVERDALE INDUSTRIAL 17910 ROAN PLACE, SURREY, TELEPHONE 576-9491 CATE: September 13, 1979 INVOICE TO: J & L Diamond Drilling 205 515 Cottonwood Drive Coquitlam, B.C. CONSIGNED TO: 7551 Ash St. Richmond, B.C. Job - 124 PPED VIA Valley Bus HIPPING DATE FEDERAL SALES TAX Ept. 11/79 Exempt Manthy Junit 50 25 Kg Quik Gel 5 Cases Quik Trol (50 X 1 Kg Jun After 60 days, Intered Declining Account Bal	PREPAID	COLLECT X	SHIPPING ORDER No.	D 20044									
SHIPPING D Sept. 11/	TMIESSEN EQ CLOVERDALE IND 17910 ROAN PLACE, S TELEPHONE 576-9491 ATE: September 13, 1979 VOICE TO: J & L Diamond Drill: 205 515 Cottonwood J Coquitlam, B.C. ONSIGNED TO: 7551 Ash St. Richmond, B.C. Job ED VIA Valley Bus IPPING DATE pt. 11/79 Exempt Sol 25 Kg Quik Gel 5 Cases Quik Trol (50 M After 60 days, Declining Accor	FEDERAL SALES TAX Exempt	PROVINCIAL 4२ ।	. SALES TAX Extra	CUSTOMER'S ORDER No.								
Quantity	Unit	1	Description	·	Unit Price	Amount							
50	25 Kg	Quik Gel			\$4.80/ea	\$240.00							
5	Cases	Quik Trol (50 X 1 Kg)			\$78.00/case	\$390.00							
	John J					\$630.00							
J30				· ,•	43 SS Tax	25.20							
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CASSIAR ASBESTOS CORPORATION LIMITED

Phone:778-7435

Telex: 038-88533

C 522

RICHMOND DIAMOND DRILLING 7551 Ash Street Richmond, B.C.

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September, 1979

Accomodations	\$384.00	
Cafeteria Charges	84.00	
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RE: DRILLING REPORTS

ITEM 8 (e)

The core for Diamond Drill Holes 1, 2, 6,7 & 8

isstored in the core shed located at the Cusac Camp on the Cordoba Claims

Re: Item 8 (d)

We have supplied the logs, Dr. Groves qualifications and all assay data

Alpha Brit

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RE: DRILLING REPORTS

ITEM 8 (e)

а.,

The core for Diamond Drill Holes 3, 4 & 5

is stored in the core shed located at the Cusac Camp on the Cordoba Caaims.

RE: ITEM 8 (d)

We have supplied a statement from Dr. W.D. Groves, a statement of his qualifications and all assay data.

But a

CUSAC INDUSTRIES LIMITED

SUITE 330 - 890 WEST PENDER STREET VANCOUVER, B.C. V6C 1J9 CANADA (604) 682-2421 OR 660-0215



Ministry of Mines and Petroleum Resources Province of B.C. Parliament Bldgs. Victoria, B.C. V8V 1X4

Attention: Mr. Kalnins

November 25, 1980

Dear Mr. Kalnins:

Re: PETE, BUNNY, JAGER, LORRAINE, CORDOBA Mineral Claims - Drilling Report '80 #326

With reference to our telephone conversation of last week, I am now returning the reports with the amendments as suggested by you.

As mentioned over the phone, the total acct. from J.L. Drilling Ltd. is \$62,839.50, and a copy of the itemized bill is in the front pocket of each report. The costs for room and board are also itemized and are enclosed in the front pocket.

The 1979 diamond drill holes are marked on two maps which are in the back pocket. The scale of these maps is 1 cm to 25 m, and have been prepared by John Poloni, P.Eng.

I believe the drill core logs and correlated assays as included in the report were satisfactory to you, and that the above information is sufficient to have the report approved.

Yours truly

Guilford H. Brett President

GHB/1m

SAC. CO LINE 3.5 1 DANSE LINE PAESIGNT SER'E, -45', 110' LENGTH. 1919. 1 04 4 COLLAR F 5 THE OF ED ch. chloson site Anter a con construction of the construction o CONDUT citt's 2977 1 510 BADWH-W. BARCO CARE T & DINE GADINE CARE T & DINE GADINE CARE MATE THE MG. 2035 WERN SOME CANDUNA chat (into for almost , 2832 Box 1 200 day chat Inh chile some prote - 9 to the sone prote - 9 to the sone of the property strang 12 A GREY highly many and son fraction and 2231 Aga BX2 it stande and 5 Sould ghe supply for CHEAT BAELO TO UN S. BY FOR MADE having Supple and to BLOCKY ANDENTS Box 3. iny And evr BASU, BLOCKY GASEN ANDESITE ī 80×4. CASY BAEL det Box5 GARY the speciality ENI MINERAL RESOURCES BRANCH ASSESSMENT REPORT r With D. Graves NO



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