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PROPERTY SUMMARY

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PRELIMINARY ECONOMIC EVALUATION

- of the -

BIGHORN GOLD PROSPECT Maricopa County Arizona, U.S.A.

- for -

RODDY RESOURCES INC. 200-1055 West Hastings Street Vancouver, B.C. V6E 2E9

Prepared by:

G. BELIK & ASSOCIATES LTD. 664 Sunvalley Drive Kamloops, B.C.

G. D. Belik, M.Sc.

April 30, 1985

Introduction

The Bighorn Property, situated in Maricopa County, northwestern Arizona, contains four zones of significant epithermal-type gold mineralization. Based on the results of surface and underground sampling and drilling carried out to date, mineable reserves of the Lower Shaft and Upper Shaft Zones are placed at 565,000 tons probable, grading approximately 0.09 oz gold per ton. These reserves are amenable to open pit mining at a waste: ore ratio of 3:1 to 3.5:1.

Based on a open pit, 150,000 t.p.y., heap leachtype operation it is estimated that raw gold bullion can be produced from the two zones for about \$87 U.S. per oz. At a gold price of \$300 U.S., assuming a recovery rate of 70% (indicated from results of preliminary column leach tests), the operation would generate an annual profit, before royalties of \$2,044,500 U.S. for a period of 3.8 years. Total net profit after royalties and payback of capitalization costs (estimated at 1.3 million) would be 6.08 million with an average annual rate of return on investment capital of 57.3%. Payback of investment capital would be achieved in 0.65 years.

The 3.8 year mine life, operating at a rate of 150,000 t.p.y., is based on probable reserves developed to date. There is a good potential for developing additional reserves on the property, particularily at depth in the Lower Shaft Zone, along the extension of the Lower Shaft Zone to the north, and within two other zones on the property referred to as the North Adit and South Adit Zones. Although there is insufficient data at present to estimate possible additional reserves, the target areas outlined above potentially could host another 1.5 million tons. If the potential for these additional reserves is realized the operation life of the mine could be extended for another 10 years.

Salient Features and Exploration History

The Bighorn Property, consisting of ten patented and 12 unpatented mineral claims, is situated in rolling, foothills-type terrain, within a desert region of northwestern Arizona. The property can be reached via about 20 miles of back roads from either Wickenburg, on Highway 93, or Aguila, on Highway 60.

The claim area straddles a major northerly-trending

fault which separates a Tertiary volcanic sequence on the east and Precambrian schists and gneisses to the west. Within the area of the claims, in close proximity to the Tertiary/Precambrian fault contact, significant gold mineralization is confined to steeply dipping, tabular quartz stockwork and vein/breccia zones up to 130 feet wide. Post ore faulting has segmented the main mineralized structure into four en-echelon segments which have a combined strike length exceeding 3200 feet.

Early development work, which includes several shafts, adits and shallow pits, was carried out by the Hauxhurst Copper Company between 1908 and 1920. The main workings consist of two vertical shafts, 600 ft. and 486 ft. deep. The deeper, or Lower Shaft (No. 1) has fairly extensive lateral workings on the 150 and 250 levels. The Upper Shaft (No. 2) has about 200 ft. of lateral development on the 250 level and 300 ft. on the 350 level.

There are no records of any substantial production. About 4,500 tons of dump ore reportedly was milled in 1943 which yielded \$4.50 U.S. gold per ton (\$35 gold) and 0.5 to 0.75% copper. In 1961, three shipments of

dump and surface ore, totalling 133 tons, were treated by the Superior and Hayden Smelters in Arizona. These shipments averaged 0.091 oz gold per ton and 2.01% copper.

Since acquiring the property in January, 1984, Roddy Resources Inc. has carried out a comprehensive exploration program consisting of detailed surface sampling and mapping, reverse-circulation drilling (9,840 Ft. in 35 holes), underground mapping and sampling and bulk sampling for metallurgical testing.

Mineralization and Geological Model

The complex quartz vein zones which host the mineralization on the Bighorn Property are characterized by an intense stockwork of quartz veins and veinlets, up to 130 feet wide, with intensely silicified vein/ breccia zones up to 16 feet wide. Less intense stockwork zones occur within and peripheral to the main stockwork zones. The host volcanic units typically are kaolinized and locally chloritized.

Quartz within the stockwork and vein/breccia zones generally is banded, contains abundant drusy cavities

and locally contains jasperoid-type fragments and bands. Black specular hematite and dark, earthy red hematite, in amounts up to 30%, occur finely impregnated within quartz and wallrock and within veinlets and blebs cutting quartz and wallrock.

Fine native gold, ranging from less than .01 to more than 1.0 oz/ton occurs both within stockwork and vein/breccia zones. Copper as secondary oxides, carbonates and silicates locally is abundant within the vein/breccia zones and generally present in minor amounts within the stockwork zones. The average copper content is estimated to be between 0.15 and 0.3 percent.

The Bighorn Property displays most of the characteristics of a classic epithermal-type deposit. Deposits of this type have been major producers of gold and silver throughout western North America and Mexico.

A sketch illustrating the probable evolution of the Bighorn deposits is shown in Figure 1033-3.

Economics

A preliminary economic evaluation of the Bighorn

Property was carried out by G. Belik and Associates Ltd., in February, 1985. Based on the results of work carried out to date the property is viewed as having an excellent potential for the development of an economically viable open pit, heap leach-type operation.

Probable reserves established to date would sustain a 150,000 t.p.y. mining operation for 3.8 years. Possible additional reserves could add another 10 years to the life of the operation.

Table I illustrates the projected annual net profit, at various metal prices, for a 150,000 t.p.y. operation mining ore from the Upper and Lower Shaft Zones at an average grade of 0.09 oz gold and 0.15 oz silver per ton. The calculations are based on a gold recovery of 70%, a silver recovery of 25% and operating cost of \$5.50 per ton of ore.

Table II shows the projected earnings, at various metal prices, for the life of the operation.

Conclusions and Recommendations

The Bighorn Property has many positive features.

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ofit	prices
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Net Pr	stal p
Annual Net Pr	metal p
Projected Annual Net Pr	metal p

Annual Net Profit (\$)		3,958,500	3,000,000	2,521,500	2,044,500	1,566,000	1,087,500	609,000
Net Profit Per Ton		26.39	20.00	16.81	13.63	10.44	7.25	4.06
Operating Costs Per Ton (\$)		5.50	5.50	5.50	5.50	5.50	5.50	5.50
Total Value Per Ton (\$)		31.89	25.50	22.31	19.13	15.94	12.75	9.56
ue n (\$)	Ag	0.38	0.30	0.26	0.23	0.19	0.15	0.11
Value Per Ton (\$)	Au	31.50	25.20	22.05	18.90	15.75	12.60 0.15	9.45
(\$)	Ag	10	8	2	9	Ŋ	4	ſ
Price (\$)	Au	500	400	350	300	250	200	150

Price	e I	Net Earnings \$	Capitalization \$	Royalties \$	Payback of Capitalization (yrs.)	Royalties and pay- back of Capitalization
Au	Ag					
500	10	15,042,000	1,300,000	630,000	0.34	13,112,000
400	8	11,400,000	1,300,000	544,000	0.44	9,556,000
350	2	9,582,000	1,300,000	501,000	0.53	7,781,000
300	9	7,769,000	1,300,000	458,000	0.65	6,077,000
250	Ś	5,951,000	1,300,000	392,000	0.86	4,259,000
200	4	4,133,000	1,300,000	317,000	1.24	2,516,000
150	e	2,314,000	1,300,000	238,000	2.27	776,000

Projected Earnings at various metal prices (U.S. funds) for life of operation (3.8 years) Table II:

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The property is readily accessible by road, close to towns and transportation facilities and is situated in a warm arid region suitable for a year-round leaching operation. A preliminary economic evaluation suggests that sufficient reserves have been outlined to support a moderate size mining venture which could generate a strong positive cash flow in a short period of time.

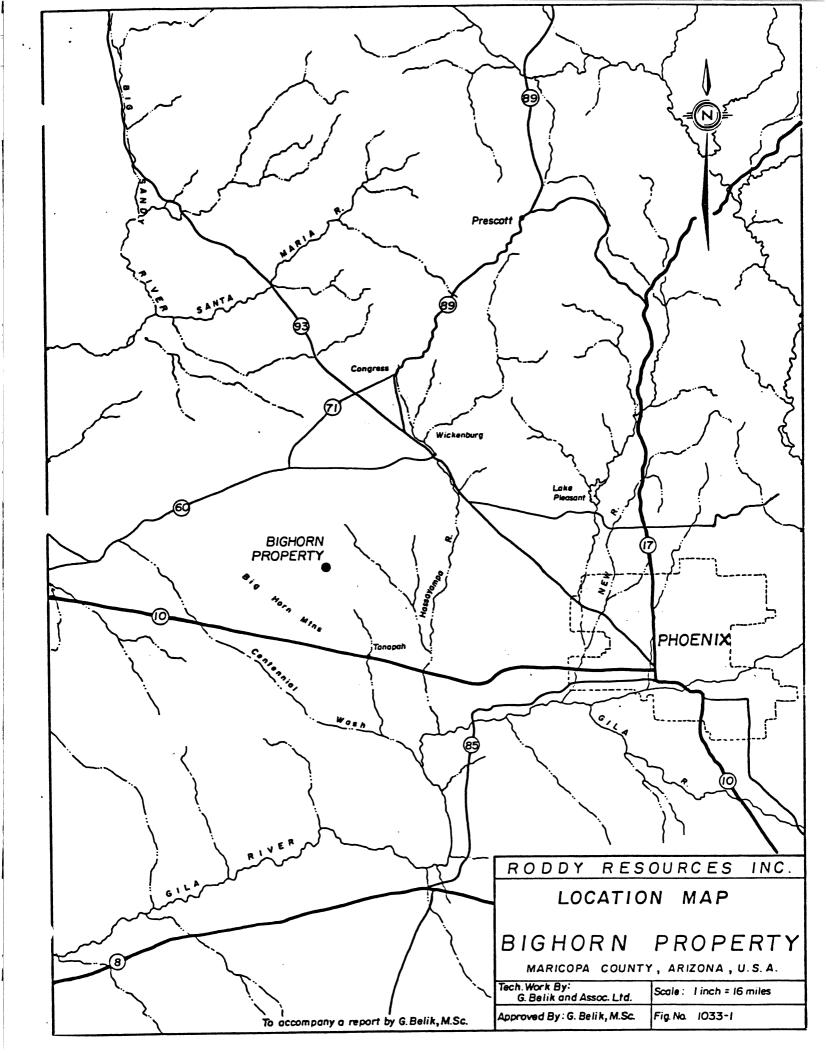
The above features suggest that the Bighorn Property has an excellent mine-making potential. However, before making a final production commitment it is essential that further work be carried out. This work should include: a) a pilot heap-leach test to verify recoveries obtained in the column leach tests, b) fill-in drilling in the Lower and Upper Shaft Zones to establish with certainty the tonnage/grade estimates, c) topographic and drill hole surveys to assist in the preparation of final feasibility studies and d) final feasibility studies to provide a more detailed, updated evaluation and to determine optimum pit designs, access routes, waste disposal sites etc.

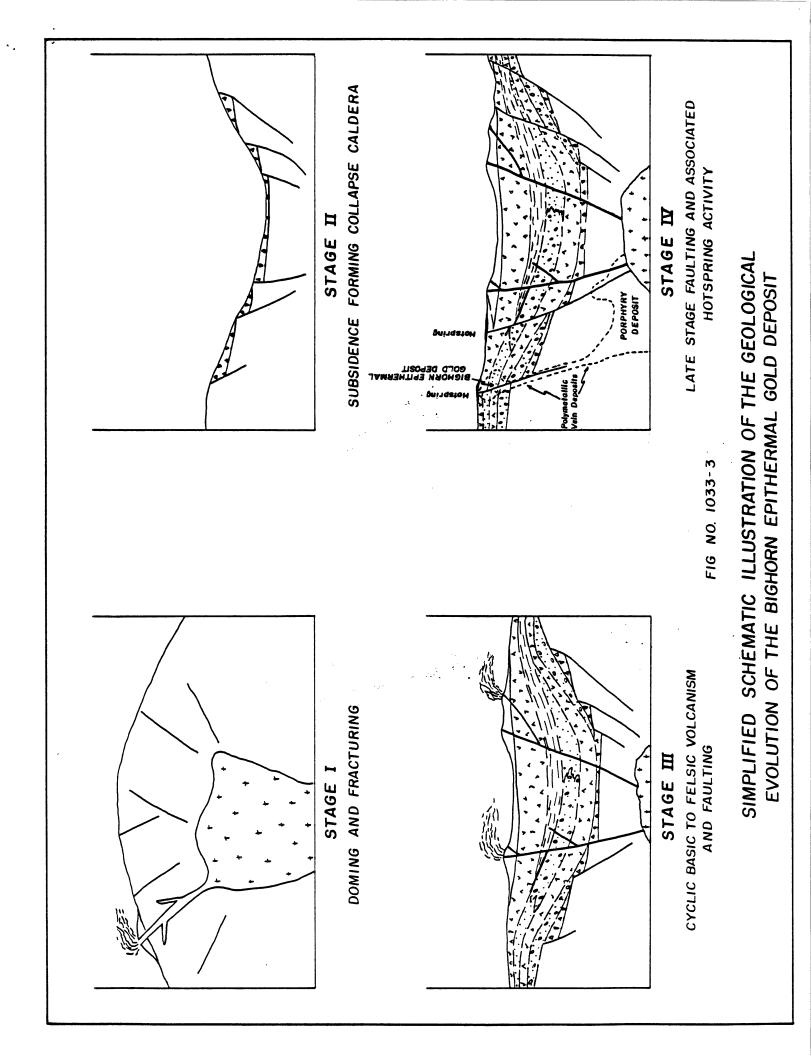
The program outlined above is estimated to cost \$300,000 U.S., which is included in the estimated \$1.3 million capitalization costs to bring the property into production.

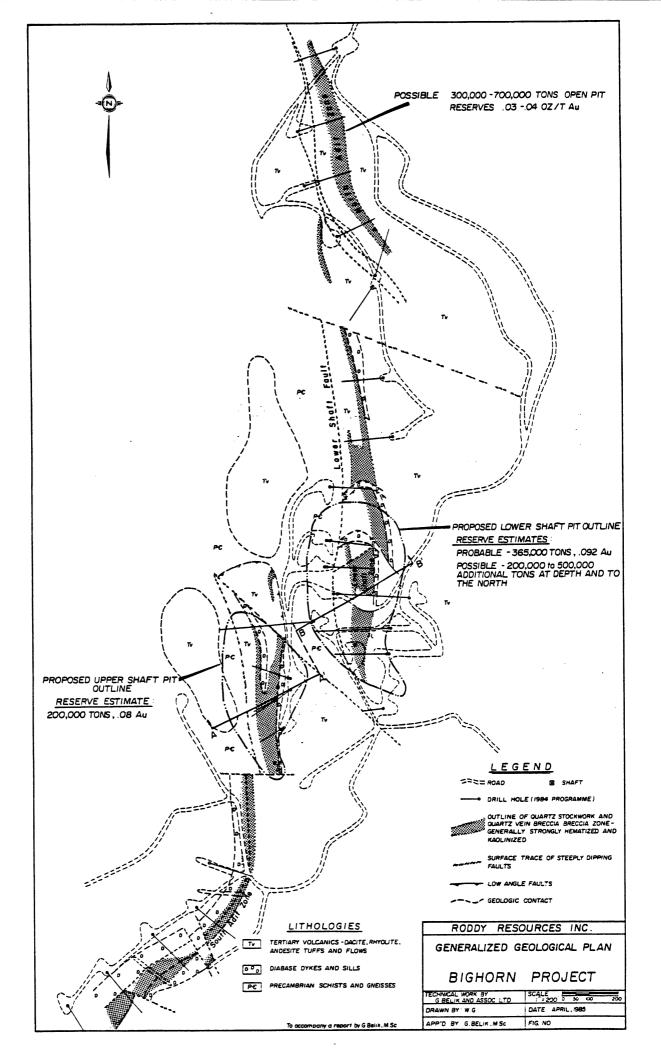
Respectfully Submitted,

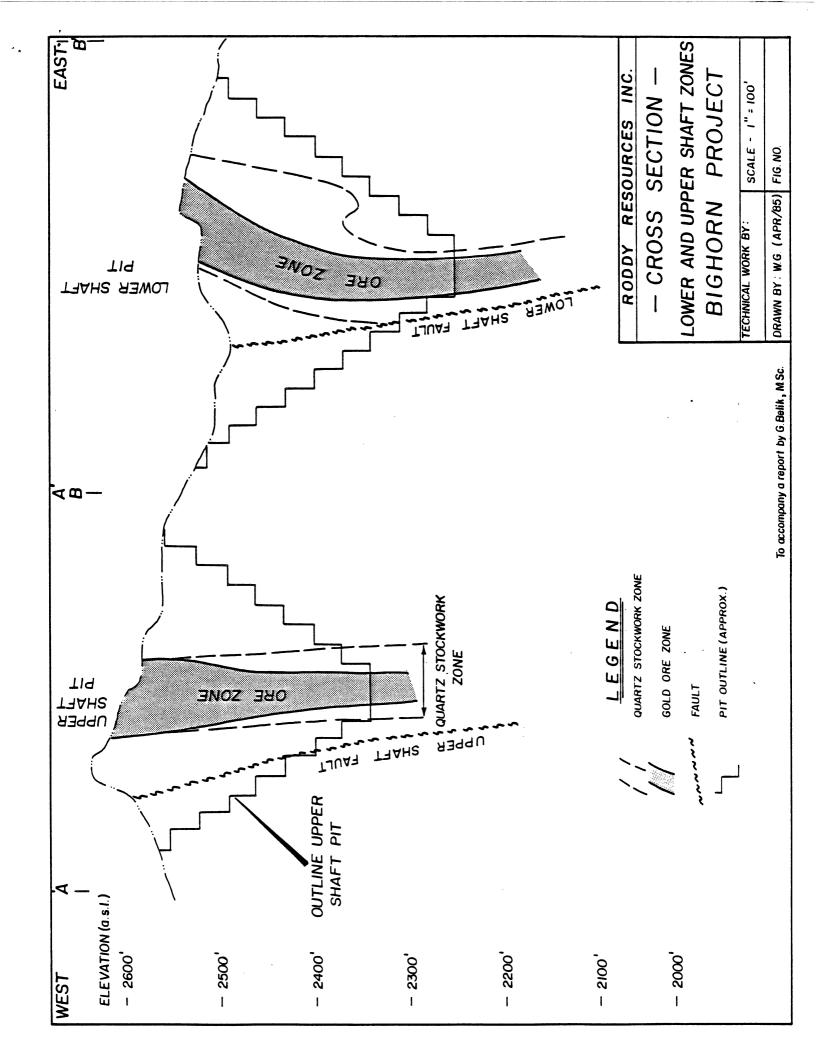
G. D. Belik, M.Sc.

April 30, 1985









Appendix I

Estimated Cost of Recommended Program

Phase I

-pilot heap leach test to verify recoveries \$ 50,000 -using about 1500 tons of material (available in dumps) crushed to minus 1/4"

TOTAL PHASE I \$ 50,000

Phase II- contingent upon results of Phase I

- a) surface, core and reverse circulation drilling 5000 ft. at \$25/ft. all inclusive \$125,000
- b) underground drilling

 percussion holes to provide
 additional info along the 150 &
 250 levels in the Lower Shaft
 Zone and possibly a section of
 holes down the Upper Shaft
 25,000

c) topographic and drill hole surveys 20,000

TOTAL PHASE II \$170,000

Phase III- contingent upon results of Phases I & II -feasibility studies \$ 80,000

TOTAL PHASE III \$ 80,000

TOTAL PROGRAM \$300,000 U.S.

REPORT

- on the -

BIGHORN PROPERTY MARICOPA COUNTY ARIZONA, U.S.A.

- for -

RODDY RESOURCES INC., 2500 THREE BENTALL CENTRE, 595 BURRARD STREET, VANCOUVER, B.C.

Prepared by:

KERR, DAWSON & ASSOCIATES LTD., #206 - 310 NICOLA STREET, KAMLOOPS, B.C. V2C 2P5

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J.M. DAWSON, P. ENG. March 23, 1984.

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Appendix A:	Estimated Cost of Recommended Programme.
Appendix B:	Assay Results
Appendix C:	References
Appendix D:	Writer's Certificate
Appendix E:	Maps

INTRODUCTION:

1.

This report has been requested by the directors of Roddy Resources Inc. It reviews the exploration and development history of the subject property, discusses its geology, mineralization and exploration potential, and recommends a programme of exploration to test the continuity and grades of mineralization at depth.

A series of maps showing location, property, surface geology and mineralization as well as data on recent soil and rock sampling are included in the text of this report.

SUMMARY AND CONCLUSIONS:

1. The Bighorn property consists of 10 contiguous, patented claims aggregating about 200 acres, located in moderate terrain in southwestern Arizona, U.S.A. and is easily accessible by road from either Wickenburg or Phoenix.

2. The property was probably discovered in the late 1800's and was explored by a number of tunnels, pits and shafts all of which were excavated before 1920. The property was leased during the 1940's and about 4500 tons of dump ore was shipped to local smelters. Minor exploration and shipping of dump material took place in the 1950's. The Louisiana Land and Exploration Company acquired the property in 1971 and carried out an exploration programme oriented towards the discovery of a porphyry copper deposit. This work consisted of surface mapping and sampling, geophysics and the drilling of 4 deep holes. Roddy Resources Inc. acquired the property in late 1983 and carried out a detailed evaluation for gold.

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		RODDY RESOURCES INC.
		CLAIM MAP
		BIGHORN PROPERTY
		MARICOPA COUNTY, AR IZONA, U.S.A. Tech. Work By: G.Belik and Assoc. Ltd. Scale: I" = 1,000' (approx.)
	To accompany a report by J.M.Dawson,P.Eng.	

3. The property is underlain by a sequence of Tertiary volcanics which unconformably overlie Precambrian basement. A linear and perhaps arcuate fracture zone is the locus for the intrusion of diabase dikes and an extensive zone of epithermal quartz veining and stockworks. Later faulting has locally disrupted the continuity of the zone of quartz veining.

4. Gold and copper mineralization is associated with the areas of epithermal quartz veining. The mineralized zone is now dislocated by local faulting but is essentially tabular, strikes northerly and stands approximately vertical. It is approximately 4500 feet long, averages about 50 to 60 feet in width and has been tested by old shafts to depths of between 500 and 600 feet. Visible mineralization consists of extensive limonite, hematite and scattered secondary copper minerals in epithermal quartz veins, breccias and stockworks.

5. Extensive surface sampling has confirmed the presence of large areas of significant gold mineralization. There is an excellent potential for developing several million tons of gold bearing material in the 0.05 to 0.10 oz/ton range which might be mined by low cost open pit methods. A detailed programme of drilling to fully test this potential is recommended.

PROPERTY:

The property consists of 10 contiguous patented claims known as the Furlough #1 - #10 inclusive and aggregating about 200 acres. (see figure 325-2) The claims were surveyed in 1916 and brought to patent in 1966. They are registered by Patent No. 772925 recorded on February 15, 1966 and shown on Mineral Survey No. 3286 on file in the Bureau of Land Management, Phoenix, Arizona.

LOCATION AND ACCESS:

The property is located in Maricopa County, southwestern Arizona about 55 miles west-northwest of Phoenix, the county seat. The town of Wickenburg, the nearest major center is located about 25 miles northeast of the claims.

The claim block occupies parts of section 1, T 4N, R 8W; section 6, T 4N, R 7W, and section 31, T 5N, R 7W. The geographic center of the property is located at 33° 43' north and 113° 01.5' west.

The property is reached from Phoenix by driving northwest on U.S. Highway 93 for a distance of about 55 miles to Wickenburg, thence 22 miles southwest along the Vulture Mine road and a further 10 miles west along an unimproved dirt road to the foothills of the Big Horn Mountains. All parts of the property are easily accessible on foot.

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PHYSIOGRAPHY AND VEGETATION:

The claim block covers a north-northwesterly trending ridge in an area of typical badlands topography known as the Big Horn Mountains. Rocky ridges and dry sandy washes predominate in an area which is essentially a desert. Relief is moderate to gentle on the property with elevations ranging from 2300 to 2800 feet (a.s.l.)

Rainfall in this region is minimal, consequently when there are periodic rainstorms in the winter and spring, water does not penetrate the hardpan and flash floods are common. Water for local farming and livestock is generated through deep wells.

Vegetation is typical of the southwestern desert and consists of scattered thorny brush, palo verde trees and various types of cacti.

HISTORY:

The history of exploration work on this property has been summarized in detail by Belik (1984) and his report is quoted extensively here.

Copper mineralization was probably first discovered here in the late 1800's when the Arizona Territory was being opened up. The first recorded work was carried out by the Hauxhurst Copper Company in the early 1900's. Surface exploration and the excavation of shallow pits and shafts was reported by the U.S. Bureau of Mines when the property was known as the U.S. Mine.

A report on the property by W.E. Greenwalt in 1912 mentions work on two parallel veins about 250 feet apart. Two shafts, 456 feet deep and 40 feet deep were sunk on the main vein reported to be as much as 100 feet wide. A 100 foot deep shaft was said to have been sunk on a 4 foot wide copper rich zone within a second vein, reported as 30 feet wide.

In a 1914 report by T.C. Alsorf work is reported on four veins or "bands of silicified rock". Most work was carried out on the No. 1 and No. 2 veins (Lower Shaft Zone and Upper Shaft Zone respectively). The No. 1 vein was developed by a 20 foot shaft, a 106 foot shaft and a 60 foot shaft. The principal development on the No. 2 vein was a 486 foot shaft. A cross cut to the west was reportedly driven for a distance of 48 feet at the 250 foot level in this shaft. According to old reports mineralized material was encountered over the length of this cross cut.

The early development work, all probably carried out before 1920 is summarized in a 1958 U.S. Bureau of Mines report as follows:

"The principal development work was performed shortly after the turn of the century and consists of a vertical shaft said to be 500 feet deep with fairly extensive lateral workings (lower shaft), and another vertical shaft said to be 480 feet deep (upper shaft). The deeper or main shaft (No. 1) is collared near the base of the ridge on its southeastern slope and the other shaft is collared on the same side of the ridge at a point 300 feet southerly from the main shaft and about halfway up the slope of the ridge. Both of these shafts are inaccessible and no clear account is available regarding the workings or mineralization disclosed. However, the substantial dump at the lower shaft is evidence of a substantial deposit of low grade gold ore with a small copper content."

No further work is reported until a local Wickenburg miner acquired a five year lease on the property in 1943. During the term of this lease it is reported that 4500 tons of dump ore was treated and returned an average value of \$4.50 (U.S.) per ton (gold at \$35.00 U.S. per ounce) and from 0.50 to 0.75% copper per ton.

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Between 1952 and 1958 minor exploration was carried out by local miners and in 1961 a total of 133 tons of ore from various dumps was shipped to the Phelps Dodge smelter at Ajo, Arizona. This material reportedly averaged 0.091 oz gold and 2.01% copper per ton. The claimswere surveyed and brought to patent in 1966.

Lousisiana Land and Exploration Company purchased the property in 1971 and during the next two years this company carried out a broadly based prospecting, mapping and sampling programme on the subject claims and surrounding property. This company may have performed geophysical surveys and probably drilled the four deep core (?) holes now found on the claims. (see figure 325-3) No records of this work apparently exist however it is believed that this company was testing the prospect with the hope of developing a large tonnage, porphyry copper deposit.

The property was examined by E.D. Black, P. Eng. in 1976 and 1982 who subsequently acquired an option from Lousiiana Land and Exploration Co.

Roddy Resources Inc. entered into an agreement with Mr. Black in late 1983 and carried out a detailed evaluation of the property during November, 1983 and January and February, 1984. This report is based largely on the results of that work.

GEOLOGY:

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The property is underlain by a mixed succession of Tertiary volcanic flows and fragmental rocks which unconformably overlie Precambrian metamorphic basement. A linear and perhaps arcuate fracture zone is the locus for the intrusion of younger Tertiary diabase dikes and sills, and an extensive zone of epithermal quartz veining and stockworks. Later faulting has locally disrupted the continuity of the zone of quartz veining.

The oldest rocks found are Precambrian mica schists, quartzites and biotite-epidote gneisses which outcrop at and west of the west boundary of the claims. These metamorphic basement rocks are interpreted to dip shallowly east under the Tertiary cover and perhaps to be down dropped by a series of north-trending normal faults.

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Unconformably overlying the Precambrian basement is a mixed sequence of Tertiary volcanic rocks. These consist of pink to white, rhyolitic to dacitic crystal tuffs, green to purple andesitic tuffs and flows, dark green to maroon basaltic tuffs, flows and agglomerate, and dacitic aggromerate, lahar and breccia. These rocks are complexly interfingered as well as folded (?) and faulted, however in general they are thought to dip to the east.

A northerly-trending and possibly arcuate fault and/or fracture zone cuts the Tertiary volcanic package and parallels the Tertiary-Precambrian basement contact. This feature may be part of a much larger circular fracture zone associated with Tertiary caldera development. A number of narrow diabase dikes and sills are spatially related to this fracture zone. They are now largely altered and dislocated by later hydrothermal activity and faulting. Also associated with this zone of weakness is a distinctive zone of epithermal quartz veins and stockworks. This zone of quartz flooding is about 4500 feet long, up to 130 feet wide and has been locally disrupted and offset by later high angle normal faults and high and low angle thrust faults (see figure 325-3).

MINERALIZATION:

Gold and copper mineralization is associated with the arcuate, north-trending band of epithermal quartz flooding. This area of quartz flooding is essentially tabular in form, stands approximately vertical though locally its walls may dip steeply east or west and has been locally displaced as much as 300 feet by later faulting. It varies from a few feet to as much as 130 feet in width. It has been described by Belik (1984) as follows:

....an intensive stockwork of quartz veins and veinlets with intensely silicified vein/breccia-type zones up to 16 feet wide. Less intense stockwork zones locally occur within and peripheral to the main stockwork zones. The host volcanic units typically are strongly kaolinized. The quartz within the stockwork and vein/ breccia zones generally is banded, contains abundant drusy cavities and locally has jasperoid fragments and bands. Black to earthy red hematite, jarosite and specular hematite, in amounts up to 20% occur finely impregnated within quartz and are present as veinlets and blebs cutting quartz and wallrock. Calcite is present as a minor constituent in the south but locally reaches amounts up to 5% near the north end of the North Adit Zone (see figure 325-3).

Copper as secondary oxides, carbonates and silicates generally is abundant within the vein/breccia zones (locally 5 - 10% by volume) and present in minor amounts within the stockwork zones. Gold, ranging from 80 ppb to about 19,000 ppb (0.542 oz/ton) occurs both within the stockwork and vein/breccia zones. There is no apparent correlation between the abundance of quartz vein material and higher gold values. ...a number of shafts, pits and adits have investigated various parts of this mineralized system. Most of this work appears to have been directed towards evaluating copper-rich segments."

Belik (1984) carried out a detailed mapping and sampling programme and subdivided the mineralization into 4 zones:

- (a) South Adit Zone.
- (b) Upper Shaft Zone.
- (c) Lower Shaft Zone and Lower Shaft Extension.
- (d) North Adit Zone.

A programme of geochemical soil sampling (see figure 325-4) shows that significant gold mineralization is confined to the main zones of quartz veining and stockworks. The results of Belik's sampling as well as check samples taken by the writer are summarized on Figure 325-5.

The South Adit Zone can be discontinuously traced for about 1000 feet and varies from about 15 feet to more than 70 feet wide. It has been developed by several pits and an 80 foot long adit. A 45 foot chip sample along the adit wall averaged 0.068 oz Au/ton. Two other chip samples near the north end of this zone assayed 0.090 oz Au/ton over 15 feet and 0.132 oz Au/ton over 25 feet respectively.

The Upper Shaft Zone can be traced for about 600 feet along strike and varies from 15 to 80 feet in width. It has been developed by a number of pits as well as a 60 foot shaft and a 486 foot shaft. Six chip samples were taken across this zone (see figure 325-5) and the results are as follows:

Sample No.	Width	<u>Au (oz/ton)</u>
1	15'	0.110
2	24 '	0.077
3	40 '	0.095
4	50 '	0.050
5	10'	0.045
6	15'	0.060

Two 25 foot check samples were taken by the writer across the 50 foot section at Belik's No. 4 sample location. Results are as follows:

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Sample No.	Width	<u>Au (oz/ton)</u>
JD-5	25'	0.06
JD-6	25'	0.044

Material on the dump of the 486 foot deep shaft is more or less similar to that seen in outcrop on surface. The host rock of some of the material is Precambrian metamorphic rocks, indicating that the mineralization continues below the Precambrian-Tertiary contact. A composite sample collected from this dump by Belik (1984) assayed 0.117 oz Au and 0.13% Cu/ton.

The Lower Shaft Zone and Lower Shaft Extension together can be traced for about 1150 feet and must continue for some distance to the south of the main shaft where it is overburden covered (see figure 325-3). This zone varies from 20 feet to 130 feet wide though it is not possible to sample the widest part because of overburden cover.

It has been developed by a number of pits, a 600 foot shaft, a 20 foot shaft and a 120 foot long adit. The locations of surface chip samples are shown on figure 325-5 and are as follows:

Width	<u>Au (oz/ton)</u>
60'	0.045
75'	0.133
45'	0.108
63'	0.038
20'	0.084
15'	0.015
45'	0.020
45'	0.022
20'	0.034
38'	0.024
	60' 75' 45' 63' 20' 15' 45' 45' 20'

Two 20 foot check samples were taken by the writer across 40 feet of Belik's No. 2 sample location. The results are as follows:

Sample No.	Width	<u>Au (oz/ton)</u>
JD-3	20'	0.23
JD-4	20'	0.093

A 30 foot check sample was taken by the writer over a portion of Belik's No. 3 sample location. This sample assayed 0.03 oz Au/ton.

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The North Adit Zone can be traced for about 800 feet along strike on surface and varies from about 10 feet to approximately 70 feet wide. It has been explored by several pits, a 60 foot long adit and a 90 foot vertical shaft.

Surface chip sampling of this zone produced the following results (see figure 325-5):

Sample N	<u>lo.</u>	Vidth	<u>Au (oz/ton)</u>
1		10'	0.025
2		23'	0.029
3		35'	0.022
<u> </u>		50'	0.040
5		55'	0.037
	including	20'	0.064
6	2	12'	0.050
		•	

A 10 foot check sample taken by the writer over a portion of Belik's No. 3 sample location assayed 0.038 oz Au/ton.

EXPLORATION POTENTIAL:

An extensive, gold-bearing, epithermal system has been outlined on surface by sampling on the Bighorn property. The system is at least 4500 feet long, as much as 130 feet wide and is known to extend at least in some places to at least 600 feet of depth.

There is an excellent possibility for the delineation of several million tons of gold-bearing material in the 0.05 to 0.10 oz/ton range which might be mined by low cost, bulk mining methods. A detailed drilling programme is certainly warranted to fully test this potential.

RECOMMENDATIONS:

1. Carry out a surface programme of bulldozer trenching and sampling to fully delineate the mineralization on surface.

2. Repair the property access road as well as upgrading and extending the present roads on the claim block.

3. Test the various zones with inclined reverse circulation drill holes to about 300 feet at depth on roughly 100 foot centers as follows:

(a)	South Adit Zone	- 6 holes	total 2,000 feet
(b)	Upper Shaft Zone	- 4 set-ups with a	
	fan of 3 holes each	plus a single hole	
	at each end	- 14 holes	total 7,500 feet
(c)	Lower Shaft Zone	– 5 set—ups with a	
	fan of 3 holes each		
	at each end	- 17 holes	total 8,500 feet
(d)	Lower Shaft Ext.	- 5 holes	total 1,500 feet
(e)	North Adit Zone	- 6 holes	total 2,000 feet



TOTAL DRILLING 21,500 FEET

respectfully submitted: KERR, DAWSON & ASSOCIATES LTD.

James M. Dawson, P. Eng. GEOLOGIST.

THIS AGREEMENT made as of the 17th day of January, 1984

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BETWEEN:

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E.D. BLACK CONSULTING, INC., 10247 East Applewood Drive, Parker, Colorado, U.S.A. 80134 (hereinafter called "Black")

OF THE FIRST PART

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AND:

RODDY RESOURCES, INC., c/o Lawrence and Shaw 2500 - 3 Bentall Centre P.O. Box 49200 595 Burrard Street Vancouver, British Columbia, CANADA V7X 1L1

(hereinafter called "Roddy")

OF THE SECOND PART

WHEREAS:

A. Black has the right to purchase certain patented mining claims situated in the Big Horn Mining District, Maricopa County, Arizona, U.S.A.

B. Roddy wishes to acquire an interest therein and to explore, and if warranted, to develop, mine and sell minerals from the said Claims.

NOW THEREFORE, THIS AGREEMENT WITNESSES that in consideration of the payment by Roddy to Black of \$15,000, the receipt of which is hereby acknowledged by Black, and the mutual covenants and agreements hereinafter contained, the parties hereto agree as follows:

1. DEFINITIONS

1.1 In this Agreement:

(a) "Claims" shall mean the ten (10) patented lode mining claims owned by Louisiana Land & Exploration Company, more fully described as: Furlough #1 - 10, Sec. 6, T4N, R6W; Sec. 31, T5N, R7W; and, Sec. 1, T4N, R8W of the Gila and Salt River Base & Meridian, being shown on Mineral Survey 1 :

#3286, on file with the Bureau of Land Management as granted by Patent #772925, recorded February 15, 1966, in Docket #5923, page 366, Maricopa County, Arizona.

And, such after-acquired lode mining claims as may be acquired by either party hereto within one mile of the said patented claim boundaries.

(b) "Commercial Production" shall mean the leaching, milling and sale of ores and concentrates which result from ore extracted from the Claims. The Claims or any part thereof will be deemed, for all purposes of this Agreement to have been placed in Commercial Production when, if there is a concentrator on the Claims or any part thereof, such concentrator has for the first time operated at 60% of its rated concentrating capacity for 30 days out of 40 consecutive days, or if there is no such concentrator, ore from the Claims or any part thereof or doré has been shipped therefrom on a reasonably regular basis for a 30 day period for the purpose of earning revenues, but in any event the Claims will be deemed to have been placed in Commercial Production 90 days after such concentrator has for the first time operated or if there is no such concentrator, 90 days after leaching for other than test purposes has commenced or 90 days after ore has first been shipped from the claims for the purpose of earning revenues.

(c) "Expenditures" shall mean any expenses, obligations and liabilities of whatever nature incurred by the parties hereto directly or indirectly in connection with the exploration and/or development of the Claims including all cash payments made hereunder by Roddy, plus ten percent (10%) thereof to cover administration and head office overhead expenses which need not be specifially accountable.

(d) "Monies" shall mean all references herein to monies, dollars and/or funds which shall be in United States currency.

(e) "Option" shall mean the Option granted to Roddy as described in Section 3.1.

(f) "Option Period" shall mean the period from the date hereof to the day upon which the Option is exercised in accordance with Section 4.2.

(g) "Products" means ores, minerals, concentrates or other products mined or produced from the Claims.

(h) "Royalty Reservation" means the reservation of a Royalty interest more particularly described in the

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Warranty Mining Deed to the Louisiana Land & Exploration Company by Thomas C. King and Lisa D. King, dated May 10, 1971, a copy of which forms part of the Black/Louisiana Land agreement, attached hereto as Exhibit "A", and forms part hereof.

(i) "Work" shall mean any and all activities of the parties hereto carried out on or in behalf of the Claims in connection with the exploration, development and production of ores or minerals from the Claims.

2. REPRESENTATIONS AND WARRANTIES

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2.1 Black represents to Roddy that:

(a) Black has the exclusive right to enter into this agreement and to assign the Claims in accordance with the terms hereof, and according to the terms of the agreement entered into between Louisiana Land & Exploration Company and Black, first dated July 1, 1983, a copy of which is attached hereto as Exhibit "A".

(b) To the best of Black's knowledge and belief, the Claims are free and clear of encumbrances, except for the two percent (2%) Royalty Reservation to Thomas C. King and Lisa D. King, as set out in the Louisiana Land Warranty Mining Deed, a copy of which is attached hereto in the form of Schedule "A".

(c) There is no adverse claim or challenge against or to the ownership of or title to any of the Mineral Claims comprising the Claims, nor to the knowledge of Black is there any basis therefor.

2.2 Each of Black and Roddy represent and warrant to the other that:

(a) it is a company duly incorporated, organized and validly subsisting;

(b) it has full power and authority to carry on its business and to enter into this agreement and any agreement or instrument referred to or contemplated by this agreement;

(c) neither the execution and delivery of this agreement nor any of the agreements contemplated hereby, nor the consummation of the transactions hereby contemplated, conflict with, or result in the breach of, or accelerate the performance required by, any agreement to which it is a party;

(d) the execution and delivery of this agreement and the agreements contemplated hereby will not violate or result in the breach of the laws of any jurisdiction applicable or pertaining thereto or of its constating documents.

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2.3 The representations and warranties hereinbefore set out are conditions upon which the parties have relied in entering into this agreement.

2.4 Each party hereto will indemnify and save the other harmless from all loss, damage, costs, actions and suits arising out of any breach of any representation, warranty, covenant or agreement made by it in this agreement.

3. GRANT OF OPTION BY BLACK

3.1 Black hereby grants to Roddy an exclusive non-revocable option to acquire a 51% working interest in the Claims on the terms and conditions stated herein.

4. THE OPTION

- 4.1 In order to keep the Option in good standing, Roddy shall:
 - (a) make the following cash payments:
 - (i) \$25,000 on or before April 30, 1984;
 - (ii) \$25,000 on or before June 30, 1984;
 - (iii) \$25,000 on or before September 30, 1984;
 - (iv) \$25,000 on or before January 1, 1985;
 - (v) \$25,000 on or before January 1, 1986;
 - (vi) \$25,000 on or before January 1, 1987.
 - (b) Expend \$400,000 on Work on the Claims as follows:

DATE	CUMULATIVE EXPENDITURES
By December 31, 1984	\$ 50,000
By December 31, 1985	\$ 100,000
By December 31, 1986	\$ 250 , 000
By December 31, 1987	\$ 400,000

PROVIDED THAT Roddy may make up any deficiency in Expenditures on any date by paying the amount of any such deficiency to Black, which payments, if made, shall be deemed to be Expenditures.

4.2 Roddy shall have exercised the Option at such time as it has made the cash payments and expended the funds on Work as described in Section 4.1 and delivered a notice thereof to Black. Upon exercise of the Option, Roddy shall have earned a 51% working interest in and to the Claims and Black shall assign to Roddy all of its rights and title to the Claims, subject to a 49% working interest reserved for Black and to be held thereafter by Roddy in trust for Black, subject to the terms and conditions of this agreement.

5. DURING THE OPTION PERIOD

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5.1 During the option period Roddy shall:

(a) permit representatives of Black, appointed by writing, at all reasonable times and at their own expense and risk, such to be acknowledged at the time of appointment, to have access to the Claims, Work and results which Roddy obtains from its exploration and/or development of the Claims; and

(b) will indemnify and save Black harmless from all claims and demands, costs, damages, actions, suits or other proceedings whatsoever, which are in any way attributable to Roddy's activities or Work on or with respect to the Claims.

(c) subject to the terms and conditions herein and the general terms and conditions of the Black/Louisiana Land & Exploration Company agreement, (Exhibit "A"), have the sole and exclusive right to enter upon the Claims, to conduct thereupon such exploration work, including geological and geophysical work, drilling, sampling and removal of such bulk sample material as might be required to fully explore and evaluate the Claims to establish the presence of economically developable mineral deposits. Excepting for sampling and testing purposes, Roddy may not remove or ship ores or minerals from the Claims until it has exercised the Option.

6. NET SMELTER RETURN ELECTION

6.1 Roddy shall have the right for a period of 30 days from the date upon which the Option is exercised to deliver a notice to Black containing Roddy's election to convert Black's 49%

working interest in the Claims to a 5% Net Smelter Return Interest in all Products removed from the Claims including those extracted from tailings or other waste materials.

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6.2 (a) Black's 5% Net Smelter Return Interest shall be computed and paid as follows:

(i) No net smelter returns earned by Roddy from the sale of Products shall be paid to Black during the period from the time of commencement of Commercial Production to the expiration of two years thereafter.

(ii) If Products are removed from the Claims and delivered to a mill or a smelter in a bona fide arms-length sale transaction, the net smelter return received by Roddy therefor shall be the total gross sale proceeds therefore which are received by or credited to Roddy, less only:

(A) all actual costs incurred by Roddy for transportation of the Products to the point or points of sale including insurance;

(B) all sampling, assaying, weighing, treatment or processing, milling, smelter or refining charges, or penalties which are charged by the purchaser to Roddy except those deducted by the purchaser directly from the proceeds of sale; and

(C) all taxes levied upon production or severance of the Products, or upon the sale upon which the net smelter return is computed, but income taxes shall not be deducted. There shall be no deduction for cost of any treatment, processing or beneficiation by or on behalf of Roddy.

(iii) If products are removed from the Claims for other than a bona fide arms-length sale transaction, the amount payable to Black shall be based upon a value equivalent to net smelter return, which shall be the gross fair market value of the Products at the Claims in the form and condition in which the Products are transported from the Claims, without any deduction for costs of any treatment, processing or beneficiation. In addition to any other removal which is not subject to clause (i), this equivalent value method of computation shall be utilized when Products are removed from the Claims for sale to processing elsewhere by a facility owned or controlled by Roddy, or on a tolling basis. (k

(iv) If Products are lost or destroyed under circumstances in which Roddy receives payment under an insurance policy, such payment shall be deemed to be a net smelter return and Black shall be paid 5% thereof in accordance with the terms hereof.

(b) 5% of net smelter returns from the sale of Products during the third and subsequent years after commencement of Commercial Production shall be paid to Black within 15 days after receipt by Roddy of funds from a purchaser pursuant to transactions described in subsection 6.2(a)(ii), within 15 days of the date of removal of products from the Claims pursuant to subsection 6.2(a)(iii) and within 15 days after receipt by Roddy of funds from an insurance company pursuant to subsection 6.2(a)(iv).

(c) Black may, by delivering notice thereof to Roddy, elect to take its net smelter return in kind in which event Roddy shall deliver to Black refined gold and silver equal to Black's 5% net smelter return interest taking into account the costs described in subsection 6.2(a)(ii). Payment of 5% of net smelter returns in kind shall be made in accordance with the payment schedule described in subsection 6.2(b).

(d) After commencement of Commercial Production, Roddy will, within 30 days after the end of each calendar quarter, furnish to Black quarterly unaudited statements respecting operations on the Claims together with a statement of net smelter returns for the quarter last completed.

(e) Forthwith after completion of the third calendar year following the year in which commencement of Commercial Production occurs, the accounts of Roddy in relation to operations on the Claims shall be audited by the auditors of Roddy and the statement of operations, which will include a statement of net smelter returns for the year last completed, will be furnished to Black not later than March 31 of the next year and for each year thereafter. Black will have 45 days after receipt of such statements to question the accuracy thereof in writing and, failing such objection, the statements will be deemed to be correct and unimpeachable thereafter.

(f) If the audited financial statements furnished pursuant to subsection 6.2(e) disclose any overpayment of net smelter return by Roddy to Black during the year, the amount of the overpayment will be debited against future instalments of net smelter return payable hereunder or will, if requested by Roddy be refunded by Black forthwith.

(g) Roddy's obligation to pay Black 5% of net smelter returns in accordance with this Section 6.2 shall terminate at such time as Black has received \$1,500,000 or the equivalent thereof by taking gold and silver in kind thereunder.

7. JOINT VENTURE

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7.1 If Roddy does not elect to convert Blacks 49% working interest in the Claims into 5% of net smelter returns interest in accordance with the terms of Section 6, both parties will be deemed to have elected to participate in the further development of the Claims. In such event further exploration and development of the Claims shall be made jointly by the parties, each party paying its share of Expenditures in proportion to its working interest in the Claims, which shall initially be 51% for Roddy and 49% for Black. Such exploration and development shall be carried out under the terms of a joint venture agreement which shall be entered into by the parties acting in good faith, such agreement to have the following minimum terms together with such other reasonable terms and conditions as may be required by the parties upon advice from their legal counsel:

Management Committee

(a) The affairs of the joint venture shall be under the direction and control of a management committee which shall consist of one representative of each of Roddy and Black. The representative of the operator shall be chairman of the management committee.

(b) Meetings of the management committee shall be held in Vancouver, British Columbia, unless the management committee otherwise directs. The management committee shall meet no less than once in each calendar year.

(c) A quorum of the management committee shall consist of the representative from each of Roddy and Black. The management committee shall take no action without a quorum being present provided that if a quorum is not present at the time and place set for a meeting then the meeting may be adjourned to the same place at a time no sooner than seven days thereafter. The representatives at the adjourned meeting shall constitute a quorum.

(d) Decisions of the management committee shall be by majority vote with the representatives of each of the parties having a number of votes equal to their respective working interests in the Claims. In the case of a tie in voting, the chairman shall not have a casting vote.

Operator

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(e) The operator shall, subject always to the control and direction of the management committee, be charged with carrying out the exploration and development of the property.

(f) Roddy shall initially be the operator.

Programs

All Expenditures shall be carried out under approved (q) programs. The operator shall present a proposed program and budget for the next year to the management committee no later than October of a year. Members of the management committee shall have 30 days in which to review the proposed program and budget. A management committee meeting shall be convened at the end of such 30 day period to review the proposed program and budget. If members of the management committee request changes to the proposed program and budget, those changes shall be communicated to the operator who shall in good faith consider such proposals and prepare a proposed final program and budget which shall be submitted to the management committee prior to the end of the year. The management committee shall meet no later than January 30th of the next year for the purpose of approving the proposed final program and budget, which upon approval shall be the approved program for the year.

Participation in Programs

The parties to the joint venture shall have 30 days (h) after receipt of the approved program for a year to deliver a notice to the operator of its election whether or not to participate in such program to the full extent of its working interest in the Claims. If a party elects not to participate in the approved program to the extent of its pro-rata share of Expenditures, its working interest in the Claims and in the joint venture shall be reduced and the working interest in the Claims and interest in the joint venture of the other party who has elected to participate, shall be increased, such that the working interest of a party in the Claims and joint venture shall be a percentage share being the percentage equivalent of the fraction the numerator of which is the aggregate amount of Expenditures contributed by the party up to that time and the denominator of which is the aggregate amount of Expenditures contributed by all parties up to that time. For the purposes of the joint venture Black shall be deemed to have incurred \$542,843 of Expenditures at the time of exercise of the Option. A party who declines to participate in an approved program in accordance with the terms hereof shall be entitled to participate in future approved programs in accordance with its reduced working interest.

Operator Declines to Present a Proposed Program

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(i) If the operator defaults in presenting a proposed program and budget to the management committee in any year, as required by subsection (g), the other party may prepare and present a proposed program and budget to the management committee and the terms of subsections (g) and (h) hereof shall apply to such proposed program and budget mutatis mutandis. If the operator elects not to participate in funding its share of Expenditures of the proposed program and budget, the party proposing the program shall have the right, by delivering a notice in writing to the management committee, to become the operator of the joint venture and such proposed program and budget shall be deemed to be an approved program.

Indemnity

(j) Each party, proportionate to its working interest, shall agree to indemnify and hold harmless the operator against any claim of or liability to any third person resulting from any act or omission of the operator or its agents and employees in conducting operations pursuant to the joint venture agreement, provided however that the operator shall not be indemnified nor held harmless by the parties for any loss, damage, claim or liability resulting from the gross negligence of willful misconduct of the operator, its agents or employees.

Fees

(k) The operator shall be paid a fee for its administrative services including an amount in respect of general administrative costs that cannot be specifically allocated to the joint venture, which fee shall be 10% of all direct Expenditures incurred under the joint venture, and shall be reimbursed for all proper direct charges, expenses and other outlays made by it in the performance of its duties thereunder.

Replacement of Operator

(1) If the operator fails to perform in a manner that is consistent with good mining practice or fails to perform in a manner consistent with its duties and responsibilities, the non-operator may give to the operator, written notice setting forth particulars of the operators default. The operator shall either within 30 days dispute the occurrence of such default or within 60 days of receipt of such notice commence to remedy the default. Failure of the operator to do either shall allow the other party to replace the operator by delivering notice thereof to the management committee.

(m) The operator's appointment shall automatically terminate if the operator becomes bankrupt or makes an assignment for the benefit of its creditors.

Right of First Refusal

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(n) Each party will have a right of first refusal to acquire the other party's working interest in the Claims and in the joint venture should a party desire to dispose of its interest therein.

Area of Interest

(o) The joint venture shall have an area of interest of one mile from the external perimeter of the Claims as they exist on the date hereof.

8. TERMINATION

8.1 This agreement and the rights and obligations of Roddy shall terminate, subject to Section 8.2 hereof:

(a) if Roddy gives notice in writing to Black of its decision to terminate this Agreement, provided such notice shall not be given within thirty (30) days preceding any date upon which an installment cash payment or work commitment Expenditure, or payments in lieu, is due to Black and payable hereunder in accordance with the terms of Section 4.1, or,

(b) at the option of Black, if Roddy is in default in making any of the cash payments or minimum work expenditure commitments, or payments in lieu by the date stipulated to be made in Section 4.1, provided that Black shall first give Roddy notice in writing of any such default and Roddy shall have fifteen (15) days upon being so notified, within which to remedy such default by the appropriate payment.

8.2 In the event of termination of this Agreement pursuant to Section 8.1, Roddy shall:

(a) re-assign all rights, title and interest in the Claims to Black, including delivery to Black if necessary of a registerable Quit Claim Deed; and

(b) deliver to Black all reports, technical data and other information with respect to any Work done by Roddy together with available drill cores.

9. ASSIGNMENT

9.1 Each of the parties hereto has full rights of assignment of its interest in the Claims and in this Agreement provided, however, that notice of such assignment is given in writing to the other party thirty (30) days prior to such assignment and provided the assignee is subject to all of the terms and conditions set out in this Agreement and the Black/Louisiana Land & Exploration Company agreement, attached hereto.

10. FURTHER ASSURANCES

10.1 The parties hereto agree to do or cause to be done all acts or things necessary to implement and carry into effect this agreement to the full extent.

10.2 Time is of the essence.

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11. DEFAULT - DAMAGES

11.1 In the event that Roddy is delinquent in any payments or expenditures required herein, and Roddy becomes in default of this agreement and Roddy does not cure such default pursuant to the terms herein, Roddy's interest hereunder and to the Claims shall be immediately forfeited and surrendered without need for further notice, demand or legal action. Roddy hereby waives any statutory relief which might otherwise restrict Black's right to immediate re-possesion and ownership to the Claims upon Roddy's default. Roddy agrees that in the event of such default, Black will retain all amounts previously paid to it by Roddy under this agreement as compensation for Roddy's occupancy and possession of the Claims and as full and complete damages for any such default, in lieu of specific performance, further compensatory damages or other remedies under law or equity.

12. AREA OF INTEREST

12.1 Any mineral claim(s) or other rights to explore, develop or mine, acquired by or on behalf of either Black or Roddy within one mile of the Claims, as constituted at the date of this agreement, shall be subject to the terms and conditions of this Agreement and shall, for all relevant purposes of this Agreement, be deemed Claims.

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13. ENUREMENT

13.1 This agreement shall enure to the benefit of and be binding upon the parties hereto and their respective successors and assigns.

14. HEADINGS

14.1 The headings of the respective Sections hereof shall not be deemed to be part of this agreement but shall be regrded as having been used for convenience only.

15. NOTICES

15.1 Any notice, statement, approval or delivery required or permitted to be given hereunder shall be given or made in writing and any such notice, statement, approval or delivery and any payment required to be made hereunder shall be deemed to be given or made if it is delivered in person at the relevant address set forth below or if it is sent by prepaid registered letter and addressed as follows:

If to Roddy:

RODDY RESOURCES, INC. c/o Lawrence & Shaw 2500 - 3 Bentall Centre 595 Burrard Street P.O. Box 4920 Vancouver, British Columbia CANADA V7X 1L1

Attention: Barry Finlayson

If to Black:

E.D. BLACK CONSULTING, INC. 10247 East Applewood Drive Parker, Colorado U.S.A. 80134

Any such notice given as aforesaid shall be deemed to have been given if delivered, when delivered, or if mailed, on the fifth business day after mailing or on the day of telegraphing thereof. Either party may from time to time by notice in writing, change its address for the purposes of this Section 14.

16. PROPER LAW

16.1 This Agreement shall be construed in accordance with the

IN WITNESS WHEREOF, the parties hereto have executed this agreement as to the day and year first above written.

The Corporate Seal of E.D. BLACK CONSULTING, INC. was hereunto affixed in the presence of:

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C/S

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The Corporate Seal of RODDY RESOURCES, INC. was hereunto affixed in the presence of:

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C/S

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EXHIBIT "A"

AGREEMENT FOR SALE

This Agreement made this <u>day</u> of <u>day</u>, 1983 ("Effective Date") between E. D. Black Consulting, Inc., 10247 East Applewood Drive, Parker, Colorado 80134 (hereinafter referred to as "Black") and The Louisiana Land and Exploration Company, 3900 South Wadsworth Blvd., Suite 660, Lakewood, Colorado 80235 (hereinafter referred to as "LL&E").

WITNESSETH:

WHEREAS, LL&E owns full title and interest in and to ten patented mining claims (hereinafter referred to as "Claims"), as more specifically described and defined in the attached Exhibit A, and,

WHEREAS, LL&E desires to sell, and Black desires to purchase, the Claims under the terms and conditions contained herein, $\mathcal{F}_{i:S}$

NOW THEREFORE, in consideration of the amount of Jen Thousand Dollars (\$10,000:00) paid herewith and the mutual covenants contained herein, the parties agree as follows:

1. Conveyance

LL&E hereby agrees to sell to Black, and Black agrees to purchase, the Claims for the total amount of Seventy Five Thousand Dollars (\$75,000.00) (hereinafter referred to as "Purchase Price").

2. Purchase Price

The Purchase Price shall be paid to LL&E in the following manner:

- (a) The amount of Ten Thousand Dollars (\$10,000:00) has been paid upon execution of this Agreement.
- (b) Within 90 days of the Effective Date of this Agreement, Black will pay to LL&E the amount of Twenty Thousand Dollars (\$20,000.00).

(c) Within 180 days of the Effective Date of this Agreement, Black will pay to LL&E an additional amount of Twenty Thousand Dollars (\$20,000.00).

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- (d) Within 270 days of the Effective Date of this Agreement, Black will pay to LL&E an additional amount of Twenty Thousand Dollars (\$20,000.00).
- (e) Within 360 days of the Effective Date of this Agreement, Black will pay to LL&E an additional amount of Five Thousand Dollars (\$5,000.00).
- (f) Provided, however, that Black may make all or any portion of the above specified payments in advance without penalty.

Payments shall be made to LL&E at the address specified above, to the attention of the Division Land Manager.

3. Title

Within 15 days of satisfaction by Black of the full Purchase Price as stated herein, LL&E will deliver to Black a general warranty deed to the Claims evidencing good and marketable title, excepting only covenants, restrictions, and easements of record on the Effective Date or apparent upon physical inspection of the Claims, as well as any provisions, reservations or limitations contained in the patent of the United States issued for each survey lot. Black shall examine and satisfy itself as to the sufficiency of LL&E's title within 30 days from the Effective Date; in the event that Black shall discover any substantial defect of such title, it will promptly notify LL&E, which will have the option of either (1) promptly curing such defect, (2) contesting such allegation of defect, or (3) returning to Black the consideration paid herewith.

4. Possession

Black shall be entitled to immediate possession of the Claims, provided, however, that upon any termination or default of this Agreement for any reason, Black will immediately relinquish possession of the Claims free and clear of liens or any other

encumbrance caused or suffered by Black and will and does hereby indemnify LL&E for any liabilities arising due to acts or omissions by Black, its employees, or agents while in possession of the Claims.

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5. Taxes

Taxes on the Claims for the current year shall not be allocated, but Black shall be responsible for taxes becoming due after the Effective Date.

6. Default; Damages

In the event that Black is delinquent in any payments required herein for a period of 30 days, Black shall be in default of this Agreement, and Black's interest hereunder and to the Claims shall be immediately forfeited and surrendered without need for further notice, demand, or legal action; Black hereby waives any statutory relief which might otherwise restrict LL&E's right to immediate possession and ownership of the Claims upon Black's default. LL&E, in turn, agrees that, in the event of such default, it will retain all amounts previously paid to it by Black under this Agreement as compensation for Black's occupancy and possession of the Claims and as full and complete damages for any such default, in lieu of specific performance, further compensatory damages or other remedies under law or equity.

7. Black's Duties During Term of Agreement

While this Agreement is in effect, and until Black receives title to the Claims, Black shall,

- (a) pay in full for all labor performed upon or material furnished to the Claims ordered or requested by Black, and shall keep the Claims free and clear of any and all liens resulting from the furnishing of such labor or material; and
- (b) conduct all operations on the Claims in accordance with sound engineering and mining practice and in compliance with applicable laws and regulations; and

- (c) keep the Claims free of liens, outstanding assessments or other encumbrances; and
- (d) indemnify LL&E for any and all liabilities, claims, or damages arising from Black's occupancy of the Claims.
- 8. Assignment

The rights of either party hereunder may be freely assigned to any party, with timely and prompt notice given to the other party hereto; provided, however, that any such assignor shall remain primarily responsible for any obligation under this Agreement until its terms have been fully satisfied.

9. <u>Notices</u>

ATTEST:

By:

Any notice desired or required to be given under this Agreement shall be given to the party at the address stated in the heading above.

IN WITNESS WHEREOF, the parties have executed this Agreement on the day and year first above written.

ATTEST: A. Bus

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E. D. BLACK CONSULTING, INC.

Title:

THE LOUISIANA LAND AND EXPLORATION COMPANY

I. Woo By: PRESident Vice Title:

EXHIBIT A

fre. to Agreement For Sale dated

The Claims to be conveyed by the Agreement For Sale to which this Exhibit is attached are further defined as follows:

Furlough numbers 1 through 10 in Section 6, T4N,R7W, Section 31, T5N, R7W, and Section 1, T4N,R8W of the Gila & Salt River Base & Meridian being shown on Mineral Survey #3286 on file with the Bureau of Land Management as granted by Patent No. 772925 recorded February 15, 1966 in Docket 5923, page 366, Maricopa County, Arizona.

:115695 n.: 142

CL-0000 98528 DEED MINING

For valuable consideration and the Royalty Reservation as described below, THOMAS C. KING AND LISA D. KING, his wife, hereinafter called "Grantors", hereby convey to THE LOUISIANA LAND AND EXPLORATION COMPANY, hereinafter called "Grantee", Suice 1605 Wilco Bldg., Midland, Texas 79701, a Karyland corporation, the following ten patented mining claims situated in the Big Horn Mining District, Maricopa County, Arizona, together with extralateral rights, and all rights and privileges appurtement thereto, to wit:

5, 6, 7, 8, 9, 10, MINING CLADAS ip 4 North, Range 7 West, Section FURLOUGH NO. 1, 2, 3, 4, 5, in the Section 6, Township 11 the section 0, Iownship & North, Range / West, Section 31, Township 5 North, Range 7 West, Section 1, Township 4 North, Range 8 West of the Gila and Salt River Fase and Meridian, being shown on Mineral Survey No. 3235 on file in the Bureau of Land Management as granted by Fatent No. 772925 recorded February 15, 1966 in Docket 5923, page 366, records of Maricopa County, Arizona.

SUBJECT to ad valorem taxes for 1971 and any covenants, conditions, restrictions, and reservations in U. S. Mineral Patent

No. 772925.

RRAHTY

Boyelty Reservation: The Grantee, its successors and assigns, Royalty Reservation: The Grantee, its successors and assigns, shall pay to Grantors, their personal representatives, heirs and assigns, as production royalty, two (2) percent of sales of all minerals, metals, or ores sold from the above described mining claims on or before the 20th day of the month next following receipt of payment for such sales, until a total of two hundred thousand dollars (\$200,000.00) in royalties shall have been paid, at which time this royalty reservation shall cesse and be of no further force and effect; provided, Grantees, its successors and assigns shall have no express or implied cesse and be of no further force and effect; provided, Grantees, its successors and assigns shall have no express or implied obligation by this royalty reservation to conduct exploration, development or mining operations on the above described mining claims at any time or to sell any minerals, metals or ores from said mining claims, it being expressly understood Grantees, their personal representatives, heirs and assigns shall be entitled to a revalue only if and when minerals, metals or cres entitled to a royalty only if and when minerals, metals or cres from the above described mining claims are mined and sold; and from the above described mining claims are mined and sold; and provided, further, that Grantee, its successors and assigns shall have no obligation to pay any royalty to personal repre-sentatives, while and assigns of Grantors until furnished satis-factory evidence of the right of the personal representatives, heirs or assigns to receive repulsy.

Except as otherwise provided above, Grantors warrant the

title against all persons whom ocver.

Dated this 10 Th day of May, 1971.

(, 7 ser \$695 nx 143 Thomas C. King STATE OF ARIZONA) ... On this the for day of the state of the second state of the second secon County of Pinal IN WITNESS WHEREOF, I hereinto set my hand and official · 62 8) Come M Chemelet Commission Expires: 8-21-71 STATE OF ARIZONA County of Maricone I hereby cartily that the wat. 284 18 man and i Will 1571-14 cordet at resurs of witty, Lien ir Docide 695 er pris 742-783 Wirrs By mind and afficiat Ful ch Martin Prod ct comme Constr Resister By <u><u><u>Mary</u></u> (RESULT RESIST.</u> -2-919 Bille & Sucret Bildy . Other 15003

Title Insurance Policy

issued by

A Service of Transamerica Corporation

Transamerica Title Insurance Co

a California corporation, herein called the Company, for a valuable consideration paid for this policy, the number, the effective date, and amount of which are shown in Schedule A, hereby insures the parties named as Insured in Schedule A, the heirs, devisees, personal representatives of such Insured, or if a corporation, its successors by dissolution, merger or consolidation, against loss or damage not exceeding the amount stated in Schedule A, together with costs, attorneys' fees and expenses which the Company may become obligated to pay as provided in the Conditions and Stipulations hereof, which the Insured shall sustain by reason of:

- 1. Any defect in or lien or encumbrance on the title to the estate or interest covered hereby in the land described or referred to in Schedule A. existing at the date hereof, not shown or referred to in Schedule B or excluded from coverage in Schedule B or in the Conditions and Stipulations; or
- 2. Unmarketability of such title; or
- 3. Any defect in the execution of any mortgage shown in Schedule B securing an indebtedness, the owner of which is named as an Insured in Schedule A, but only insofar as such defect affects the lien or charge of said mortgage upon the estate or interest referred to in this policy; or
- 4. Priority over said mortgage, at the date hereof, of any lien or encumbrance not shown or referred to in Schedule B, or excluded from coverage in Schedule B or in the Conditions and Stipulations, said mortgage being shown in Schedule B in the order of its priority;

all subject, however, to the provisions of Schedules A and B and to the Conditions and Stipulations hereto annexed.

In Witness Whereof, the Company has caused its corporate name and seal to be hereunto affixed by its duly authorized officers on the date shown in Schedule A.



Transamerica Title Insurance Company

Attest :

President.

Secretary

POLICY NO. 02018858 AMOUNT \$25,000.00 DATE May 13, 1971 at 1:45 P.M.

INSURED

SCHERING A

THE LOUISIANA LAND AND EXPLORATION COMPANY, a Maryland corporation.

1. Title to the estate or interest covered by this policy at the date hereof is vested in:

THE LOUISIANA LAND AND EXPLORATION COMPANY, a Maryland corporation.

2. The estate or interest in the land described or referred to in this schedule covered by this policy is a fee.

3. The land referred to in this policy is situated in the County of and is described as follows:

Maricopa

, State of Arizona,

FURLOUGH NO. 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, MINING CLAIM in the Section 6, Township 4 North, Range 7 West, Section 31, Township 5 North, Range 7 West, Section 1, Township 4 North, Range 8 West of the Gila and Salt River Base and Meridian, being shown on Mineral Survey No. 3286 on file in the Bureau of Land Management as granted by Patent recorded February 15, 1966 in Docket 5923, page 366, records of Maricopa County, Arizona. This policy does not insure again. $\int_{a} dor damage by reason of the following a$

PART ONE

- 1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
- 2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
- 3. Easements, claims of easement or encumbrances which are not shown by the public records.
- 4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public record.
- 5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.

PART TWO

(All recording data refer to records in the office of the County Recorder of the County in which the land is situated).

A. 1971 taxes not yet due and payable.

CONDITIONS AND STIPULATIONS

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1. SEFINITION OF TERMS

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The following terms when used in this policy mean:

STANDARD COVERAGE FOLICI FORM-1968 (Rev)

(a) "land": the land described, specifically or by ref-erence, in Schedule A and improvements affixed thereto which by law constitute real property;

(b) "public records": those records which impart con-structive notice of matters relating to said land;

(c) "knowledge": actual knowledge, not constructive knowledge or notice which may be imputed to the Insured by reason of any public records;

(d) "date": the effective date;

(e) "mortgage": mortgage, deed of trust, trust deed, or other security instrument; and

or other security instrument; and (f) "insured": the party or parties named as Insured, and if the owner of the indebtedness secured by a mortgage shown in Schedule B is named as an Insured in Schedule A, the Insured shall include (1) each successor in interest in ownership of such indebtedness, (2) any such owner who acquires the estate or interest referred to in this policy by foreclosure, trustee's sale, or other legal manner in satis-faction of said indebtedness, and (3) any federal agency or indebtedness, or guaranty insuring or guaranteeing said indebtedness, or any part thereof, whether named as an Insured herein or not, subject otherwise to the provisions hereof.

2. BENEFITS AFTER ACQUISITION OF TITLE

2. BEREFITS AFIEE ACQUISITION OF TITLE If an insured owner of the indebtedness secured by a mornzage described in Schedule B acquires said estate or interest, or any part thereof, by foreclosure, truster's sale, or other legal manner in satisfaction of said indebtedness, or any part thereof, or if a federal agency or instrumentality acquires said estate or interest, or any part thereof, as a consequence of an insurance contract or guaranty insuring or suaranteeing the indebtedness secured by a mortgage cov-ered by this policy, or any part thereof, this policy shall continue in force in favor of such Insured, agency or instru-mentality, subject to all of the conditions and stipulations hereof. hereof.

3. EXCLUSIONS FROM THE COVERAGE OF THIS POLICY

This policy does not insure against loss or damage by reason of the following:

(a) Any law, ordinance or governmental regulation (including but not limited to building and zoning ordi-nances) restricting or regulating or prohibiting the occu-pancy, use or enjoyment of the land, or regulating the char-acter, dimensions, or location of any improvement now or hereafter erected on said land, or prohibiting a separation in ownership or a reduction in the dimensions or area of any lat or parcel of land.

(b) Governmental rights of police power or eminent domain unless notice of the exercise of such rights appears in the public records at the date hereof.

in the public records at the date hereof. (c) Title to any property beyond the lines of the land supressly described in Schedule A or title to streets, roads, avenues, lancs, ways or waterways on which such land thous, or the right to maintain therein vaults, tunnels, ramps or any other structure or improvement; or any rights or casements therein unless this policy specifically provides hat such property, rights or easements are insured, except hat such land abuts upon one or more physically open treets or highways this policy insures the ordinary rights of butting owners for access to one of such streets or high-ways, unless otherwise excepted or excluded herein. (d) Defects, liens, encumbrance, adverte claims

ways, unless otherwise excepted or excluded herein. (d) Defects, liens, encumbrances, adverse claims gainst the tatle as insured or other matters (1) created, unfered, assumed or arcred to by the Insured claiming loss or damage; or (2) known to the Insured Claimant either t the date of this policy or at the date such Insured Claim-nt acquired an estate or interest insured by this policy and out shown by the public records, unless disclosure thereof a writing by the Insured shall have been made to the company prior to the date of this policy; or (3) resulting or reated subsequent to the date hereof. (e) Loss or damage which would not have been sus-

(e) Loss or damage which would not have been sus-sined if the Insured were a purchaser or encumbrancer for slue withhut knowledge.

(f) Usury or claims of usury not shown by the public cords.

(g) Any consumer credit protection, or truth-in-lead-

DEFENSE AND PROSECUTION OF ACTIONS-NOTICE OF CLAIM TO BE GIVEN BY THE INSULED

CLAIM TO BE GIVEN BY THE INSURED (a) The Company, at its own cost and without undue lay shall provide (1) for the defense of the Insured in litigation consisting of actions or proceedings commenced anast the Insured, or defenses, restraining orders, or in-actions interposed against a foreclosure or sale of the sytgage and indebtedness covered by this policy or a sale the estate or interest in said land; or (2) for such action may be appropriate to establish the title of the estate or erest or the lien of the morgage as insured, which liti-tion or action in any of such events is founded upon an eged defect, lien or encumbrance insured against by this licy, and may pursue any litigation to final determination the court of last resort.

(b) In case any such action or proceeding shall be begun, or defense interposed, or in case knowledge shall come to the Insured of any claim of title or interest which is adverse to the state of the s begun, or defense interposed, or in case knowledge shall come to the Insured of any claim of title or interest which is adverse to the title of the estate or interest which is adverse to the title of the estate or interest or lien of the mortgage as insured, or which might cause loss or damage for which the Company shall or may be liable by virtue of this policy, or if the Insured shall in good faith contract to sell, lease or mortgage the same, or if the successful bidder at a foreclosure sale under a mortgage covered by this pol-icy refuses to purchase and in any such event the title to said estate or interest is rejected as unmarketable, the Insured shall notify the Company thereof in writing. If such notice shall not be given to the Company within ten days of the receipt of process or pleadings or if the Insured shall not, in writing, promptly notify the Company of any defect, lien knowledge of the Insured, or if the Insured shall not, in writing, promptly notify the Company of any such rejection by reason of claimed unmarketability of title, then all lia-bility of the Company in regard to the subject matter of such action, proceeding or matter shall case and terminane; pro-yreided, however, that failure to notify shall in on case prejudice the claim of any Insured unless the Company to the extent of such prejudice. (c) The Company shall have the right at its own cost

(c) The Company shall have the right at its own cost (c) The Company shall have the right at its own cost to institute and prosecute any action or proceeding or do any other act which in its opinion may be necessary or de-sizable to establish the title of the estate or interest or the lien of the morigage as insured; and the Company may take any appropriate action under the terms of this policy whether or not it shall be liable thereunder and shall not thereby concede liability or waive any provision of this policy. policy.

policy. (d) In all cases where this policy permits or requires the Company to prosecute or provide for the defense of any action or proceeding, the Insured shall secure to it the right to so prosecute or provide defense in such action or proceed-ing, and all appeals therein, and permit it to use, at is option, the name of the Insured for such purpose. When-ever requested by the Company the Insured shall give the Company all reasonable aid in any such action or proceed-ing, in effecting settlement, securing evidence, obtaining witnesses, or prosecuting or defending such action or pro-ceeding, and the Company shall reimburse the Insured for any expense so incurred.

S. NOTICE OF LOSS-LIMITATION OF ACTION

5. MOTICE OF LOSS-LIMITATION OF ACTION In addition to the notices required under paragraph 4(b), a statement in writing of any loss or damage for which it is claimed the Company is liable under this policy shall be furnished to the Company within sixty days after such loss or damage shall have been determined and no right of action shall accrue to the Insured under this policy until thirty days after such statement shall have been furnished, and no recovery shall be had by the Insured under this policy unless action shall be commenced thereon within two years after expiration of said thirty day period. Failure to furnish such statement of loss or damage, or to com-mence such action within the time hereinbefore specified, shall be a conclusive bar against maintenance by the In-sured of any action under this policy.

6. OPTION TO PAY, SETTLE OR COMPROMISE CLAIMS

6. OPTION TO PAY, SETTLE OR COMPROMISE CLAIMS The Company shall have the option to pay or settle or compromise for or in the name of the Insured any claim insured against or to pay the full amount of this policy, or, in case loss is claimed under this policy by the owner of the indebtedness; such purchase, payment or tender of policy, the Company shall have the option to purchase said indebtedness; such purchase, payment or tender of payment of the full amount of this policy, together with all costs, attorneys' fees and expenses which the Company is obligated hereunder to pay, shall terminate all liability of the Company hereunder. In the event, after notice of claim has been given to the Company by the Insured, the Company offers to purchase said indebtedness, the owner of such in-debtedness shall transfer and assign said indebtedness and the morigage securing the same to the Company upon pay-ment of the purchase price.

7. PAYMENT OF LOSS

(a) The liability of the Company under this policy shall in no case exceed, in all, the actual loss of the Insured and costs and attorneys' fees which the Company' may be obligated hereunder to pay.
(b) The Company will pay, in addition to any loss insured against by this policy, all costs imposed upon the Insured in litigation carried on by the Insured with the written authorization of the Company. Company.

(c) No claim for damages shall arise or be maintain-able under this policy (1) if the Company, after having

received notice of an alleged defect, lien or encumbrance not excepted or excluded herein removes such defect, lien or encumbrance within a reasonable time after receipt of such notice, or (2) for liability voluntarily assumed by the Innotice, or (2) for liability voluntarily assumed by the in-sourced in settling any claim or suit without written consent of the Company, or (3) in the event the title is rejected as unmarketable because of a defect, lien or encumbrance not excepted or excluded in this policy, until there has been a final determination by a court of competent jurisdiction sustaining such restring sustaining such rejection.

(d) All payments under this policy, except payments made for costs, attorneys' fees and expenses, shall reduce the amount of the insurance pro tanto and no payment shall be made without producing this policy for indorsement of such payment unless the policy be lost or destroyed, in which case proof of such loss or destruction shall be furnished to the satisfaction of the Company; provided, however, if the owner of an indebtedness secured by a mortgage shown in Schedule B is an Insured herein then such payments shall not reduce pro tanto the amount of the insurance afforded hereunder as to such Insured, except to the extent that such payments reduce the amount of the indebtedness by this policy shall terminate all liability of the Company to the insured owner of the indebtedness secured by such mortgage, except as provided in paragraph 2 hereof.

(e) When liability has been definitely fixed in ac-cordance with the conditions of this policy the loss or dam-age shall be payable within thirty days thereafter.

8. LIABILITY NONCUMULATIVE

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It is expressly understood that the amount of this policy is reduced by any amount the Company may pay under any policy insuring the validity or priority of any mortgage shown or referred to in Schedule B hereof or any mortgage hereafter executed by the Insured which is a charge or lien on the estate or interest described or referred to in Schedule A, and the amount so paid shall be deemed a payment to the Insured under this policy. The provisions of this paragraph numbered 8 shall not apply to an Insured owner of an in-debtedness secured by a mortgage shown in Schedule B unless such Insured acquires title to said estate or interest in satisfaction of said indebtedness or any part thereof.

9. SUBROGATION UPON PAYMENT OR SETTLEMENT

Whenever the Company shall have settled a claim under this policy, all right of subrogation shall vest in the Com-pany unaffected by any act of the Insured, and it shall be subrogated to and be entitled to all rights and remedies which the Insured would have had against any person or property in respect to such claim had this policy not been issued. If the payment does not cover the loss of the Insured, the Company shall be subrogated to such rights and reme-dies in the aromation which said payment bears to the the Company shall be subrogated to such rights and reme-dies in the proportion which said payment bears to the amount of said loss. If loss should result from any act of the Insured, such act shall not void this policy; but the Company, in that event, shall be reguired to pay only that part of any losses insured sgainst hereunder which shall exceed the amount, if any, lost to the Company by reason of the impairment of the right of subrogation. The Insured, if requested by the Company, shall transfer to the Company all rights and remedies against any person or grateon, and shall permit the Company to use the name of the Insured in any transaction or litigation involving such rights or remedies. rights or remedies.

If the Insured is the owner of the indebtedness secured by If the Insured is the owner of the indebtedness secured by a mortgage covered by this policy, such Insured may release or substitute the personal liability of any debtor or guaran-tor, or extend or otherwise modify the terms of payment, or release a portion of the estate or interest from the lien of the mortgage, or release any collateral security for the indebtedness, provided such act does not result in any loss of priority of the lien of the mortgage.

10. POLICY ENTIRE CONTRACT

Any action or actions or rights of action that the Insured may have up may bring against the Company arising out of the status of the lien of the mortgage covered by this policy or the title of the exate or interest insured herein must be based on the provisions of this policy.

No provision or condition of this policy can be waived or changed except by writing indorsed herein or attached hereto signed by the President, a Vice President, the Secre-tary, an Assistant Secretary or other validating officer of the Comparison the Company.

11. NOTICES, WHERE SENT

All notices required to be given the Company and any statement in writing required to be furnished the Company shall be addressed to it at its office, 114 W. Adams Sc., --| Phoeniz, Arizona 85003.

Drill Hole Summary

Bighorn Project

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<u>Hole #</u>	Interval	Core	Leng			n Gold			· <u>A</u> g	
				T.D.	Acme Lat	os kam.	. Rese	arcn "		
SECTI	70 100				0 116	(:	201 0	196)	:	•
84PH-1 -	70-120	•	Ft.			(incl.	20 0	.100)	• ,	2
2 -	140-185	65.627 70	Ft.		0.012	(:	~ 1	410)		
÷ 3r	5-75			100 180		(incl.	5'	.410)		
4-	0-120	60'TW-120				(inci.	30. 0	.179 &	12.	0.220)
5 ∕	70-90		Ft.	240	.031					
	165-205		Ft.		.070					
6~	120-135	-	Ft.	360	.054					
	230-245	-	Ft.		.044					
.7~	130-150		Ft.	235	.030					
8~	•	ineralized		310						
9~	85-190	105	Ft.	225	.020					
10 -	150-220	70	Ft.	355	.055	(incl.	15' 0	.117)		,
or	135-225	90	Ft.	200	.047					
114	120-170	50	Ft.	200	.037					
12 -	195-250	55	Ft.	300	.016	v				
13⁄	60-65	5	Ft.	100	.096					
14 🗸	90-130	40	Ft.	140	.017					•
15~	100-125	25	Ft.	160	.047					
16 🗸	90-175	85	Ft.	245	.020		.019*	÷		
	175-225	50	Ft.		.177		.170*	(incl. & 10'		.246 9
. or	90-225	135	Ft.	1 1	.078					
17	No Miner	alization	,	165						
18⁄	10-50	40	Ft.	500	.058					
	50-110	60	Ft.		.022					
or	10-110	100	Ft.		.037					
19 🗸	105-170	65	Ft.	335	.020		.019*	÷		
,65°	170-220		Ft.			(incl.	20'0	.171)		
	220-310	_	Ft.		.027				:	
3				41.00						

Food 41.90

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5	2 !
~	14 F

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480

355

345'

305'

350

285'

345'

.041 .094

.032 .068

.037

.038

.036 .061

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.033

4690

FWD

	or	105-310	205	Ft.
201		390-410	20	Ft.
		410-425	15	Ft.
	or	390-425	35	Ft.
21		200-245	45	Ft.
22		240-265	25	Ft.
23		230-270	40	Ft.
24		220-235	15	Ft.
	or	190-245	55	Ft.
25		85-115	30	Ft.
		185-210	25	Ft.
32	\checkmark	205-225	20	Ft.
	or	160-230	70) Ft.

.041*

.41

# 26	300'
# 27	3001
# Z8	300'
429	275'
ыЗо	2 45'
H 31	450'
# 33	320'
#34	275'
# 35	220'
	9840'

·.		G. BELIK & ASSOCIATES LTD'' - PERCI	PERCUSSION DRILL RECORD	ILL REC	ORD			
		PROPERTY Bighorn Drill Logs	HOLE	HOLE No. 84P-1	P-1			
DIP AND	DIP AND AZIMUTH TEST Corrected	Core Size	Total Depth 200 Ft.	00 Ft.		Sheet No <u>1</u>		:
F ootage	Angle	zimuth Angle of Hole40 Claim Section Bearing24,0	% Recovery	23 Ft.		Logged by <u>G. Bell</u> Date Begun June 1/ Date Finished June 2 Core Stored At	Logged by G. Belik Date Begun June 1/84 Date Finished June 2/84 Core Stored At	
DEPTH	CORE LOST		SAMPLE No.	WIDTH of SAMPLE	dqq) t	Auloz	ton)	
				2	v			
050		Red to maroon, fractured nematized dacife; fine cuttines light brown to red		5-10	2 20			
				10-15	80			
		20'-25' i minor quartz		15-20	20.			
		25'-30' : fragments of hematitic quartz		20-25	Ś			
		30'-50' , veinlets of hematitic quartz	•	25-30	Ŋ	•		
				30-35	5			
				35-40	5			
				40-45	5			
				45-50	2			
50-55		Hematitic dacite with strong vein sections		50-55	5	.001		
55-65		Dark red to black strongly hematitic zone		55-60	5	• 004		
		with hematitic quartz veining; secondary		60-65	90	+ 700 •		
		copper minerals						
						100		
65-90		Kaolinized (?) and hematized dacite with		07-60	טכד			
		strong stockwork of hematitic quartz veins		52-02	T 300	• 0 30		
		(15%-30% of unit)		75-80	1970	.062		
		70-80 : abundant secondary copper minerals		80-85	6400	.165		
		85-90 i secondary copper		85-90	3400	.083		

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• • •	\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	JRD	:		
	Bighorn			I	SHEET No.	2		
	6	NCITEIOLO	SAMPLE No.	WIDTH	(dae) A	/ 20/11	(uu	
106PTH	LOST				rad nu	1		
						240		
90-95		80% rhyolite/dacite with hairline quartz		90-95	1330	040		
		veinlets						
		20% hematitic quartz fragments						
		20% hematitic quarts		95-100	900	.027		
DOT-CK		1 7		-				
		Jup IIIJUII ver unot ve End hunonisted dishase					-	
		Dow Dreccia ten utabase						
				701-001	3800	.122		
100-105		licified diabase with						
		hematitic quartz						
						+		
2 [[20]		Hematized diabase and dacite with 40%-50%	4	105-110	11,200	.265		
		duartz: secondarv copper	•	110-115	6,400	.205		
				115-120	5,600	.151		
071-611		LON Yuat ve Anni to						
		and silicited maric	2					
		copper minerals						
						5		
120-140	0†	Hard siliceous pink dacite; hematitic envelope	es	120-125	m			
		adjacent to fractures; locally chloritized;		125-130	\rightarrow	+00°		
		2		130-135	5 60	.003		
				135-140	0 50	.003		
			-	-	-	-	-	-

	\bigcirc	G. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION E	RILL RECO	JRD			
PROPERTY_	Bighorn	rn			SHEET No.	6	th 10	
'DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb	Au(oz/	(uo:	
140-145		Light colored felsic (Rhyolite?); pink		140-145	220	200.		
		hematitic envelopes adjacent to fractures:						
		a few hairline quartz veins						
			•					
145-150		First 2' as 140-145		145-150	300	110.		
		Last 3' hematized felsic with some quartz						
		sections; some secondary copper						
		•						
150-155		Dark colored variably hematized felsic with		150-155	680	.020		
		5% quartz; abundant secondary copper; 1' cavi	ty.					
		zone						
		-						
155-165	- 41	Strongly hematized zone with 10%-20% hematiti	-0	155-160	410	110.		
		quartz; secondary copper minerals		160-165	430	.012		
165-170		Variety of fragments; possible fault breccia;		165-170	150	.006		
		+20% hematitic quartz; secondary copper; abun-						
		dant strongly hematized frägments					·	
170-175	2	Most fragments strongly hematized; 20% hemati	tic	170-175	120	.002		
		•						

	•		G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION D	RILL. RECO)RD	-		
PRC	PROPERTY.	Bie	Bighorn HOLE No. 84P-1			SHEET No.	4	-17 Jo	
,°	·/DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Au(oz/	ion)	
17	175-185		Mixed bag of Material (some epidotized frags.		175-180	70	.002		
			some chloritized, most hematized); 5%-10%		180-185	50	100.		
			titic quartz;						
-									i
<u>г</u> 8	185-190		Pink dacite/rhyolite with hematitic envelopes		185-190	2			
			adjacent to fractures and veins; 5%-10% quartz						
<u> </u>			reinlets and small fragments						
<u> </u>			-						
	190-195		As 185-190; 2%-5% quartz		190-195	5			
	195-200		Light to dark pink rhyolite/dacite; minor		175-200	2			
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-			G. BÉLIK & ASSOCIATES LTD', ~ PERCUSSION DRILL RECORD	RCUSSION DRILL	RECORD			
•		РЯ	PROPERTYBighorn_Drill_Logs	HOLE No.	HOLE No. 84P-2	,		M 10
• .	DIP AND	DIP AND AZIMUTH TEST Corrected	Core Size	Total Depth		heet No	Sheet No of	
	Footage	Angle	rimuth Angle of Hole	% Recovery		Logged byG B.e.l.j.k Date Begun June 2/84 Date FinishedJune3/E	Logged byG.aB.e.J.j.k Date Begun June 2/84 Date FinishedJ.Une3/.84	F
			0 ⁴⁰	Departure		ore Stored Al	Core Stored At	
	DEPTH	CORE LOST	DESCRIPTION	SAMPLE No. of SAN	HLE AU (D	of SAMPLE Au (ppb) Au (oz/ton)	ton)	
	0-10	NC	Not sampled					
			Mennon to nod himhly ovidined endeeite(2)		א אר-0ר אר-0ר	-		
	07-0T	7II	NO TEN ITENTA AVENTER		<u> </u>	•		
•								
	20-25	Me	Maroon to green partly oxidized andesite	50	20-25 770			
	25-55	Ve	Variably hematized and oxidized andesite;	25	25-30 690			
		3	30-35 : minor quartz	30	30-35 70			
		140	40-55 : 2%-3% hematitic quartz fragments	35	35-40 70			
				07	40-45 200			
			•	45	45-50 60			
				50	50-55 40			
	55-65	Me	<u>Maroon to dark pink hematized andesite</u>	. 55	55-60 5			
		Ρε	Partl y chloritized dacite; minor quartz	60	60-65 5			
				-				
	65-75	- Pe	Pale green to pink weakly kaolinized and	65	65-70 5			
		S.	silicified felsic with thin quartz seams	20	20-25 5-			
			· · · · · · · · · · · · · · · · · · ·					

· ·	ſ	G. BELIK & ASSOCIATES LTD" - PERCUSSION DRILL RECORD	SCUSSION D	RILL RECO	JRD	~ 	\bigcirc	
PROPERTY		Bighorn HOLE No. 84P	84P-2		SHEET No.	8		
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au (.ppb	Au(oz/to	ton)	
75-80		Kaolinized, silicified and hematized felsic		75-80	5			
		with 2%-5% quartz						
				•			<u>.</u>	
80-90		Hematized, partly chloritized dacite; minor		80-85	5			:
·		quartz		85-90	30			
90-100		Darker, more strongly hematized dacite; some		90-95	011			
		quartz		95-100	70			
			-					
100-105		Red highly hematitic zone with some hematitic		100-105	5.	100.		
		gments	-		i.			
105-165		Bright red and orange/red hematitic zone;		105-110	5	.001		
		fragments consist of highly hematized and		110-115	30	100.		
		kaolinized felsic; abundant fine specular		115-120	60	.002		
		hematite in fines and as fragments;		120-125	30	100.		
		hematitic quartz fragments		125-130	40	.001		
		115-117 : weakly hematized dacite		130-135	60	.002		
		135-150 : 30%-60% of fragments massive fine-		135-140	180	.007		
		grained hematite and quartz/hematite	0	140-145	690	.024		
		145-150 : 30% of fragments crysocolla		145-150	250	.010		
		ocolla and ot		150-155	100	• 004		
		minerals present		155-160	50	.002		
				160-165	110	.005		
				•				

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	\bigcirc	6. BELIK & ASSOCIATES LTD', - PER	- PERCUSSION DRILL RECORD	RILL RECO	DRD	: : : : :	\bigcirc	
PROPERTY	Bię		84P-2		SHEET No.	3	lo	4
, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqq)uA	Au(oz/1	on)	
165-170		Dark green diabase with 10% hematitic quartz:		165-170	670	.022		
		idary Cu minerals						
170-175		Top part diabase then into strong hematitic		170-175	660	.020		i
		one; secondary Cu						
175-195		Red/orange to brown hematized and kaolinized		175-180	270	.010		
		sic; 10%		180-185	300	.012		
		y Cu	-	185-190	130	.003		
		190-195 : mainly vein-type material		190-195	80	.003		
195-200		Dark pink dacite with 5% hematitic quartz:		195-200	40	100.		
		some secondary Cu						
200-300		Maroon to pink dacite with thin, locally		200-205	110		•	
		1 12		205-210	100			
		pyritic		210-215	20			
		220-222 : bright orange hematitic zone with		215-220	2			
		seconda		220-225	70	-		
		280-300 : +5% quartz		225-230	20			
				230-235	2			
		-		235-240	2			
								-

	•		G. BELIK & ASSOCIATES LTD" PERCUSSION DRILL RECORD	ATES LTD', - PERG	CUSSION D	RILL RECO)RD			
PRC	PROPERTY	Bighorn		HOLE No. 84P-2	-5	-	SHEET No	4	-of 4	
Ľ	DEPTH	CORE LOST	DESCRIPTION		SAMPLE No.	WIDTH of SAMPLE	Au(ppb)Au(oz,	「ニー	(uo	
	ŀ					240-245	20			
<u> </u>						245-250	040			
<u> </u>	T					250-255	360			
<u> </u>						255-260	80			
						260-265	40			
						265-270	2			
<u> </u>	T					270-275				
			-			275-280	30			
1				•		280-285	210			
				-		285-290	30			
<u> </u>				e'		290-295	80			
<u> </u>					-	295-300	110			
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-	<u>О</u> .		6. BELIK & ASSOCIATES LTD', ~ PERCU Bighorn Drill Logs	- PERCUSSION DRILL RECORD	N DRILL RECORD HOLE No. 84P-3	0RD P-3		\bigcirc	,
	DIP AND		Core Size	Total Depth 100 Ft.	100 Ft.		` Sheet No ¹	of 2	
•	F ootage	Angle .	zimuth Angle of Hole <u>-300</u> Claim Claim Section 2430 Bearing 2430	% Recovery	583 Ft.		Logged byG. Belik Date Begun June 4/8 Date Finished June 4/1 Core Stored At	Logged byG. Belik Date BegunJune 4/84 Date Finished June 4/84 Core Stored At	
	DEPTH	CORE		SAMPLE No.	WIDTH of SAMPLE	Au (ppb	Au(ppb)Au(oz/ton)	ton)	
!									
1	0-5		Not sampled						
1	5-40		Medium to dark red, hematized and kaolinized		5-10	3600	260.		
			dacite; 20%-70% of fragments hematitic quarts;		10-15	1720.	•064		
<u>I</u>			secondary Cu minerals locally evident		15-20	5600	.101		
1					20-25	1510	.054		
<u> </u>					25-30	1370	.050		
<u> </u>					30-35	1500	.052		
					35-40	830	.026		
	40-45		Siliceous pink dacite with 5% hematitic quart	22	40-45	580	110.		
	45-60		Kaolinized and hematized dacite with intense		45-50	1770	.068		
			atite veining: b	•	50-55	820	.021		
L					55-60	360	.015		
	60-65	-	Siliceous white. hematitic red and maroon		60-65	250	.010		
_ •			felsic fragments;						
			Cu						
_ _				-					
									

•	\bigcirc	G. BELIK & ASSOCIATES LID'' - PER	PERCUSSION DRILL RECORD	RILL RECO	DRD			
PROPERTY	æ		84P-3		SHEET No.	N	of2	
нтаэа,	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)Au(oz	N	on)	
65-70		Fault Zone?		65÷70	4400	180.		
		Mixture of fragments; 50% variable hematitic						
		t green fine-graine					_	
		1						;
-								
70-75		Most fragments dark green diabase; 30% maroor		70-75	10200	.410		
		ed and	IS:					
		some quartz .						
75-80		Pink to pale green dacite	•	75-80	2	.001	•	
80-85		Variable hematized and altered dacite; no		80-85	2			
		guartz						
85-90		Pale green and pale pink altered dacite	•	85-90	2			
		•						
90-100		Variably Hematized and epidotized felsic		90-95	60			
		•		95-100	270			
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· ·		9	G. BELIK & ASSOCIATES LTD'' - PERCUS	PERCUSSION DRILL RECORD	ILL RECC)RD		\bigcirc	
		PROPERTY	PROPERTY	HOLE	HOLE No	P-4	,		
DIP AND	DIP AND AZIMUTH TEST Corrected	H TEST Corrected		Total Depth 180 Ft.	0 Ft.	Sheet	Sheet No <u>1</u>	of3	i
Footage	Angle	Azimuth	Hole -60 ^V 243 ⁰	% Recovery 2583 Ft. Elev. Collar 2583 Ft. Latitude Departure	83 Ft.		Logged by .G. Belik Date Begun June 4/ Date Finished June 4/ Core Stored At	3elik 1e 4/84 1ne 4/84	
DEPTH	CORE			SAMPLE No.	WIDTH Au(ppb Au(oz/ton)	/ qdd) n	Au(oz/ta	(uc	
•									
0-20		Dark red cu	cuttings; strongly hematitic dacite		0-5	2600	.380		
			c quartz		5-10	3600	.110	•	
					10-15	1200	.041		
					15-20	2800	.097		
					·				
20-90		Dark red to	to reddish brown cuttings; strongly		20-25	6200	.286		
		hematized a	and kaolinized felsic with strong		25-30	4000	.160		
		ł	quartz stockwork (20%-50% of unit)		30-35	480	610.		
		1			35-40	019	.028		
		35-40 :	secondary Cu		40-45	340	410.		
			most fragments vein-type material		45-50	760	.032		
					50-55	660	.025		
					55-60	600	.028		
					60-65	600	.026		
					65-70	3400	.103		
					70-75	320	.017		
					75-80	200	.007		
					80-85	630	.024		
					85-90	230	.010		
90-95		30% hema	ititic quartz frags.		90-95	240	. 009		•
		30% pink	30% pink dacite 30% epidotized felsic					_	

·		6. BELIK & ASSOCIATES LTD', - PERC	PERCUSSION DRILL RECORD	RILL RECC)RD			
PROPERTY	Bighorn	· ·	4		SHEET No.	~	-of	
ИТАЭО,	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	-/zo)nY	-,on)	
95-105		Variably hematized dacite with 10%-20%		95-100	9600	.350		
		hematitic quartz		100-105	1300	640.		
105-120		Medium to dark red hematized and kaolinized		105-110	2000	.274		:
		hematitic		110-115	1280	.042		
				115-120	2000	.070		
120-125		Chocolate brown cuttings; variably hematized		120-125	100	• 004		
		th some quartz						
125-130		Maroon, pink, white variably hematized dacite;		125-130	5			
		uartz						
130-140		White intensely crackled dacite flooded with		130-135	20			
		bright red hematite; mingr quartz		135-140	2			
140-145		Purple, pink and pale green dacite		140-145	5			
145-155		White, pink, purple variably hematized dacite		145-150	2			
				150-155	5			
155-160		Chocolaté brown cuttings; rusty variably		155-160	γ			
		hematized dacite; minor quartz						
						_	_	

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		G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	ICUSSION D	RILL RECO	ORD			
PROPERTY.		Bighorn HOLE No. 84P-4	4-	1	SHEET No.	3		
'DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	u (oz/	/ton)	
				שאר חאר	. u			
-0T-00T		c Z' Fusty Fea powder		COT-OOT				
		TTAN 199						
165-175		Pink somewhat altered dacite		165-170	5			
				170-175	5			
175-180	0	Medium green, epidote-rich meta-andesitic;		175-180	5			
		le Preca						
		-						
								•
				•			-	
		•						
				-				
			-					
					•			
			-					

•		G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs HOLE No. ^{84P-5}	USSION DRI	N DRILL RECOR	RD ->-			•
DIP AND	DIP AND AZIMUTH TEST		Total Danth 240 F.	ь. Г	Sheet No	40 J ,	of 5	
Footage	Angle	Corrected Corrected a Azimuth Angle of Hole 3.5 Angle of Hole	% Recovery	35 Ft.		Logged by G. Belik Date Begun June 5/84 Date Finished June 6/84 Core Stored At	elik e 5/84 e 6/84	
DEPTH	CORE	DESCRIPTION	SAMPLE No. of	WIDTH of SAMPLE & u (ppb) Au (oz.	I (ddd) I	u(oz/ton)		
0-15	4	Not sampled						
				00 21				
15-30		<u>Pale pink to white felsic; some strongly</u> hematitic fragments with jarosite		20-25	1 v			
	•	D		25-30	5			
						•		
30-40		20%-40% white to pink felsic fragments		30-35	2			
		blood red hematitic f		35-40	ñ			
		lartz					-	
09-01		Very dark red strongly hematitic zone		40-45	20			
	4	40-45 : 25% hematitic quartz fragments		45-50	2			
				50-55	ۍ			
				55-60	25		•	
						קרט		
60-65				<u> 60-00</u>	CU4	+TO•		
	-	hematitic quartz						
						000		
65-70				חל-כם		C nn		•
		secondary Cu						

		6. BELIK & ASSOCIATES LTD", - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	ORD			
PROPERTY	Bi	Bighorn HOLE No. 84P-5	2-5	1	SHEET No.		ol 5	
нтерти	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH WIDTH a (ppp) Au(oz,	u (ppb) A	u(oz/tøn)		
70-75		Dark red to black color;		70-75	1500	.039		Τ
		30% of fragments hematitic quartz						
		30% diabase						
		40% hematized felsic						;
75-80		Very dark red hematitic felsic; 5% quartz		75-80	65	.003		
80-85		Strong hematitic unit; 20% quartz		80-85	295	.010		
85-90		Very dark red color; most fragments hematitic		85-90	2500	.072		
		quartz; abundant jasper fragments						
90-100		Pink hematitic dacite with strong quartz		<u> 90–95</u>	220	•009		
		stockwork (20%-30%)		95-100	120	.006		
100-105		Red color; hematitic dacite; 2% quartz		100-105	5			
105-110		Pink dacite; some highly hematitic fragments		105-110	Ś			
		-						
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 	\frown	6. BELIK & ASSOCIATES LTD'' - PER	CUSSION I	- PERCUSSION DRILL RECORD	RD			
PROPERTY	Big	Bighorn HOLE No. 84P-5	5		SHEET No	9	-of	
DEPTH C	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLEAU(ppb)Au(oz,	ı (ppb) Au	(oz/tdn)		
110-126		Dark pink dacite; strong hematitic sections		110-115	5			
				115-120	130			
				120-125	5			
								:
125-135		Variably hematized dacite; chloritic fragments	ß	125-130	10			
	ľ	-		130-135	15			
135-140		Pink and vale to medium green dacite		135-140	5			
		4						
140-160		Variably hematized dacite		140-145	145		·	
				145-150	305			
				150-155	5			
				155-160	5			
160-165		Grev powder with few fragments		160-165	20			
		•						
165-220		Dark red strongly hematized zone with intense		165-170	2200	.058		
		ing (hematite and hematitic quartz		170-175	2500	.074		
		sections of massive hematite and quartz/hem-		175-180	2750	<u>م</u> 079 م		
				180-185	3800	.110		
		170-185 : crysocolla fragments		185-190	585	.025		
				190-195	2900	.089		
				195-200	2700	.072		
				200-205	1500	•049		
				205-210	180	.007		
				210-215	260	.008		
				215-220	04 0			

K & ASSOCIATES LTD', ~ PERCUSSION DRILL RECORD

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• ().		G. BELIK & ASSOCIATES LTD'' - PERCUSSION DRILL RECORD	RCUSSION D	RILL RECO	ORD		
PROPERTY	Bigl	Bighorn Hole No. 841	84P-5	1	SHEET No.	4	-of _5
'DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLEA (ppb) A (02,	u (ppb) A	u(oz/ton)	
220-225		Dark red, crackled and brecciated hematitic		220-225	50		
		dacite; 10%-15% hematitic quartz					
				-			
225-230		Maroon hematized dacite; 5% hematitic quartz		225-230	5		
		fragments					
230-235		230-232 : sandy section (fault?)		230-235	5		
		232-235 : medium to dark green dyke				-	
		•					
235-240		235-237.5 : green dyke		235-240	0†I		
		237.5-240 : hematitic felsic with abundant					
		hematitic quartz					
240-245		Dark green diabase; 5% hematitic quartz		240-245	5		
245-255		Strongly hematized diabase; 20%-30% fine		245-250	90		
		specular hematite in fines; 10%-20% hematitic	0	250-255	5		
		quartz					
		-					
255-260		Hematized diabase with 30% hematite and quart	tz/	255-260	5		
		hematite fragments					
		•					
		-					
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•)		G. BELIK & ASSOCIATES LTD' PERCUSSION		DRILL RECORD)RD			
PROP	PROPERTY	Bi	Bighorn HOLE No. 84P-5	<i>z</i> .		SHEET No.	5	lo	5
HTA30'		CORE LOST	DESCRIPTION	SAMPLE No.	width of sampleAu(ppb)Au(oz,	N(dqq) u	u(oz/ton)	(u	
26	260-285		Medium to dark green Precambrian meta-andesite		260-265	.٧			
			with veinlets of hematitic quartz (5%-10%)		265-270	Ŷ			
					270-275	2			
					275-280	Ś			;
					280-285	2			
28	5-295		Bright red intensely hematized Precambrian		285-290	580			
					290-295	2			
29.	295-300	. .	40% hematitic fragments		295-300	2			
			30% meta-andesite						
-				-	•				
300-	0-305		Strongly hematized section; chloritic frags;		300-305	40			
			+20% hematitic quartz		305-310	120			
30	305-330		Strongly hematized Precambrian; 1%-5% hema-		310-315	v			
					315-320	5			
					320-325	2			
					325-330	2			
33	330-335		As 305-330; less intense hematitic alteration	C	330-335	Ś			
			some dark green weakly altered fragments						
33	335-340		Mixture of unaltered (60%) and hematized (40%	20	335-340	2			
			Precambrian andesitic schist; +5% hematitic						
			End hole, due to cave						

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)		6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	U NOISSU	RILL RECO	ORD	~	\geq	
		ł	PROPERTY Bighorn Drill Logs	НОГ	HOLE No. 84P-6	4P-6			
•.	DIP AND	DIP AND AZIMUTH TEST	Ξ.` 	C			 I 		Ň
	Footage	Angle	Corrected Tot Core Size Tot Tot Arginuth Angle of Hole ————————————————————————————————————	al Depth	Total Depth		Sheet No <u>1</u> of Logged by G. Bellil Date Begun June 7/6 Date Finished June 12	Sheet No <u>L</u> ogged by G. Belik Logged by G. Belik Date Begun June 7/8	6 4 /84
			2670	arture	Departure		Core Stored At		
Ŧ	DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH Au(ppb Au(oz/ton)	l dqq) µ	Ju(oz)	ton)	
	0-20	4	Not sampled						
	20-30	5	White to cream colored, rusty dacite	3701	20-25	5			
				3702	25-30	5 .			
	30-40	.5	White to dark pink dacite with 10% dark red	3703	30-35	5			
		5	hematitic siliceous fragments; 1%-3% hematiti	c3704	35-40	60	•		
		5	quartz						
	40-45	5	White to cream felsic; rusty patches and	3705	40-45	017			
		¥1	fragments						
	45-50	3	White to cream felsic with 40% rusty hematitic3706	3706	45-50	5			
		41 	fragments and 30% dark grey hematitic felsic						
							-		
	50-80	<u></u>	Pink hematitic dacite; 1%-5% hematitic quartz	3707	50-55	30			
				3708	55-60	5			
				3709	60-65	2			
				3710	65-70	2			
				3711	70-75	5			
				3712	75-80	5			
				-	·				

· ·	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO)RD	•	5	
PROPERTY	Big	Bighorn HOLE No. 84P-6		ł	SHEET No.	N	-o l 6	
ИТерти	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)A	Au(oz/to	ion)	
80-90		Mainly powder; bright orange hematized and	3713	80-85	2			
		kaolinized felsic; minor quartz	3714	85-90	160			
90-95		Dark red hematitic powder; 10% of fragment	3715	90-95	50			i
-		vein-type material						
95-100		Dark maroon hematitic dacite; 20% hematitic	3716	95-100	40			
100-105		Very dark red hematitic zone; 20% hematite	3717	100-105	15			•
		uartz/hematite frags; some chloritic frag	S.					
105-110		Pink hematitic dacite with stockwork of thin	3718	105-110	40			
		z and quartz/hematite veinlets						
211-0115		Pink hematitic dacite; 2% quartz; 20% light	3719	110-115	20			
		green chloritic dacitic to andesitic tuff						
115-120		Dark red to maroon hematitic dacite; white	3720	115-120	300	.010		
		kaolinized fragments; +20% hematitic quartz						-
								-

•	\bigcirc	G. BELIK & ASSOCIATES CM'' - PER	- PERCUSSION DRILL RECORD	RILL RECO	ORD		\bigcirc	
PROPERTY	Bi	Bighorn HOLE No. 84 P-6	9	ŀ	SHEET No.	9	-ot 6	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)Au(-/zo	on)	
120-125		As 115-120; 10% hematitic quartz; secondary	3721	120-125	096.	.033		
		chlorite						1
			0000	1 .		000		
DET-221		70% greenish chloritic felsic: 20% hematized dacite; 5%-10% quartz	2/66	0CT-C7T	0042	000		
130-135		30% hematitic dacite; 20%-30% diabase; 35%	3723	130-135	1080	040.		
		quartz and hematitic quartz						
135-160		Dark green sheared, soft, diabase	3724	135-140	50	.002		
160-165	•	70% diabase; 30% red to maroon hematitic	3729	160-165		100.		
		diabase; minor quartz						
165-170		90% diabase; 10% strongly hematized felsic	3730	165-170		100.		
170-175		50% diabase; 40% strongly hematized fragments	1676	120-125		100.		
		10% quartz/hematite						1
175-180		Dark red to maroon strong hematitic zone;	3732	175-180		100.		
		15% chloritic fragments; 5% quartz/hematite						
		-						

					DITI. RECO	ßD		
-	-		6. BELIK & ASSULIAIES LID FER					·
PRO	PROPERTY	щ	Bighorn HOLE No. 84P-6	-6		SHEET No.	4 of 6	
Ļ	HT430'	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/ton)		
16	180-185		Hematized dacite; +20% quartz/hematite	3733	180-185	•009		
16	185-190		Light to dark pink hematitic dacite; 5%-10%	3734	185-190	-00T		
			quartz/hematite					:
								4
17	190-195		Brick red cuttings; cream to red hematitic	3735	190-195	100.		
` 			100					·
	195-215		Light purple pink and brown variably hematized3736	d3736	195-200	100.		
			: 5%-10% hematitic quartz	3737	200-205	.001		
				3738	205-210	100.		
				3739	210-215	100.		
2	215-250		Dark red strong hematitic kaolinized zone	3740	215-220	.001		
			ered felsic) with stockwork of he	3741	220-225	100.		
			eins (<i>5%-30%</i>); lqcal	3742	225-230	100.		
L			ary chl	3743	230-235	.016		
L			235-250 : 2%-20% secondary Cu minerals	3744	235-240	.102		
				3745	240-245	.015		
<u> </u>				3746	245-250	.007		
12	250-255		30% diabase; 40% strongly hematized felsic;	3747	250-255	•00		
<u> </u>			20% quartz/hematite; secondary Cu					
L								
	255-265		Bright red, kaolinized, hematized felsic with	3748	255-260	100.		
<u> </u>			stockwork of hematitic quartz veins (15%-20%)	3749	260-265	100.		
<u> </u>			crysocolla; chloritic fragments					
<u> </u>								

· ·	\bigcirc	6. BELIK & ASSOCIATES LTD'' - PER	- PERCUSSION DRILL RECORD	RILL RECO	RD	1	\bigcirc	
PROPERTY		Bighorn HOLE No. 84	84P-6		SHEET No.	2	ol 6	
, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/ta	(uo:		
265-270		25% hematized felsic; 25% medium-grained.	3750	265-270	100.			
		olive green dyke; 25% quartz/hematite						
270-275		30% strongly hematized frags; 50% olive green	3751	270-275	100.			:
		dyke rock with hematitic quartz veinlets;						
		15%-20% quartz/hematite fragments						
275-285		40% white siliceous felsic with hematitic	3752	275-280	.002			
		fractures and envelopes; 50% various green	3753	280-285	100.			
		colored frags; 5%-10% hem/quartz; some jaspery	1					
		type fragments						
285-295		White strongly fracture felsic with intense	3754	285-290	100.			
		hematitic fractures and envelopes; 1%-2% quart	ttz: 3755	290-295	.002			
295-315		Pink hematitic dacite; 2%-5% quartz	3756	295-300	100.			
		295-300 : minor secondary Cu	3757	300-305				
			3758	305-310	100.			
			37:59	310-315	100.			
			-					
315-320		Dark red hematitic zone; +15% quartz/hematite	3760	315-320	100.			

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· .	\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	ICUSSION D	RILL RECO	ORD :		\bigcirc	
PROPERTY	Bi	Bighorn HOLE No. 84P-6			SHEET No	6	-of 6	
DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLEA	u'(oz/ton)			
320-325		Hematized Precambrian gneiss cut by hematitid	3761	320-325	.002			
325-330		Dark green hematitic diabase; 2%-5% quartz	3762	325-330	100.			:
330-340		Dark green/brown partly hematized diabase						
		cia						
		-	-					
340-345		60% dark green diabase					<u>·</u>	
		30% hematized diabase						
		2%-3% quartz/hematite						
345-360	-	Dark green Precambrian andesitic gneiss						
			•					
		-						
			Ţ					
-								
					_			

							-
.	·· .					1	
		•	6. BELIK & ASSUCIALES LID PERCUSSION DRILL RECORD	PERCUSSION D	RILL RECORD	0RU	
•		РВ	PROPERTY Bighorn Drill Logs	HOH	HOLE No. 041		
•• ·	DIP AND	DIP AND AZIMUTH TEST		Total Denth 235 Ft.	235 Ft.		1 of 3
	Footage	Angle	a Azimuth Angle of Hole	% Recovery			Logged by G. Belik
•			Section	Elev. Collar2460. Ft.	2460 Ft.		June 14/84
			Bearing	Departure			Core Stored At
	DÉPTH	CORE LOST	DESCRIPTION	SAMPLE No.		wiDTH u (oz/ton)	
	0-20		Not sampled				
					F 4		-
: :	20-65		Light to dark pink and light purple dacite	te	74		
•						•	
	6575	Ň	Mixture of dark pink dacite and light gr	green 3779	70-75	.002	
-			andesitic to dacitic tuff		·		
					;		
••	75-80		Dark red strong hematitic zone; 60% hematite	tite 3780	75-80	.009	
			quartz/hemat	nized			
			hematized fragments; secondary Cu	(cryso-	. v .		
•	*		a)				
•							
-	80-110		Pink, crackled, variably hematized dacite	e 3781	80-85	.010	
-			with thin quartz veins (2%-10%)	3782	85-90	.007	
				3783	90-95	.001	
	-			3784	95-100	.006	
				3785	100-105	100.	
••• :				3786	105-110	100.	
•							
	511-014		Dark red hematitic dacite; 40% greenish	colored 3787	110-115	.015	
			condary chlorite?) 5%-10% hemati	tic quartz			

	· .	\bigcirc	G, BELIK & ASSOCIATES LTD', 2 PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	RD		\bigcirc	
PR(PROPERTY	Ē	Bighorn HOLE No. 84P-7			SHEET No.	2	to	3
E	, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(oz/ton)	on)		
<u> </u>									
	5-130		Dark pink hematitic dacite; 2%-10% hematitic	3788.	115-120	.005			
<u> .</u>			tz	3789	120-125	.006			
:.				3790	125-130	.004			
<u>1</u>]	30-135		Pink dacite; +30% quartz and vein-type frags.	3791	130-135	.027			
				-					
	35-140		As 130-135; 70% quartz and vein-type fragments	3792	135-140	.038			
	140-150		Very dark red strongly hematized zone; abun-	3793	140-145	.040			
	•		dant hematitic quartz frags; secondary Cu	3794	145-150	.016			
<u> </u>	150-175		Dark red strongly hematized and kaolinized	3795	150-155	100.			
			zone with stockwork of hematitic quartz veins	3796	155-160	010.			
<u>;</u>			.30%)	3797	160-165	.010			
L				3798	165-170	.012			
<u> </u>				3799.	170-175	† 00°			
L									
	175-180		Poor recovery (water injected in zone); 50%	3800	175-180	100.			
			fresh diabase; 50% felsic; +10% hematitic						
			quartz						
<u>ل</u> ٹی	180-185		As 150-175	380·1	180-185	100.			
	185-190		30% as 150-175; 30% white siliceous rhyolite;	3802	185-190	.002			
L			30% diahase; 5%-10% hematitic quartz						
I			•		•				
<u> </u>						_		_	

	SHEET No. 3 of 3	HE Au(oz/ton)		95 .003														
CUSSION DRILL	2	SAMPLE No. WIDTH of SAMPLE		e; 3803 190-195														
6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	Bighorn HOLE No. 84P-7	DESCRIPTION		70% medium green gneissic andesite; 30% diabas	tz	Mainly diabase; locally moderate to strong	hematitic sections	•						•		-		
	B	CORE	1001															
	PROPERTY	' DEPTH		190-200		200-235												

									\bigcirc	
• •		, H	0. BELIK & ASSUCIAIES LID PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs HOLE No. 84P-8	• PERCUSS	HOLE	N DRILL RECORD HOLE No. 84P-8	ORD P-8		•	
	DIP AND	DIP AND AZIMUTH TEST			C			, r	-	
••••••		Corre		:	epth	Total Depth		Sheet No <u>1</u>		-
	Footage	Angle	Azimuth Angle of Hole		very	% Recovery		Logged by G. BELIK Date Begun June 14	une 14/84	
-			Section 2700 Bearing			Latitude		Date Finished June 2 Core Stored At	Date Finished June 20/84 Core Stored At	<u>**</u>
	DEPTH	CORE	DESCRIPTION	SAM	SAMPLE No.	WIDTH of SAMPLE	Au(oz/ton)	on)		
	0+7-0	Z	Not sampled							
	40-100	5	White to pink limonitic dacite							
							•			
:	100-105		Dark pink variably hematized dacite; j	jarosi te:						
		E	minor quartz					•		
-	105-110		50% as 100-105	Ĩ	3901	105-110	100.			
		+	45% chloritic fragments							
:			5% hematitic quartz							
		M	Moderate hematite alteration							
			•							
	110-120	H	Hematized diabase; 10% hematitic quartz		3902	211-011	100.			
					6066	115-120	• 002	•		
• •	120-125	H	Hematized dacite; 10% dark green diabase;		3904	120-125	100			
		. 5	5%-10% hematitic quartz						,	
	125-130	3	White to dark pink dacite; 20% hematitic quar	5	3905	125-130	•00			-

			G. RFI IK & ASSOCIATES LTD' PE	- PERCUSSION DRILL RECORD	RILL RECO	RD			
- Ā	PROPERTY	Bi	Bighorn Bighorn		ى ا	SHEET No.	8	4 Jo-	
- 4	DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH				
		LOST				101 020 1NH	110		
. •	130-135		Mainly soft red powder; kaolinized and hema-	3906	130-135	.046			
<u>'1</u>			dacite; 20						
<u>.</u>			1						
·	135-155		Light to dark pink dacite with veinlets of	3907	135-140	100.			
<u></u>			itic	3908	140-145	100.			
				3909	145-150	100.			
				3910	150-155	.001			
<u></u>	09ר-25 ר		Moderate to strongly hematized dacite; 5%	3911	155-160	+ 00			
	11 100		o a u		•				
			3						
	160-175		White to pink dacite with stockwork of thin	3912	160-165	100.			
			z veinlets (5%)	3913	165-170	.002	•		
			1	3914	170-175	•004			
	175-180		White to pink kaolinized dacite; 30% quartz	3915	175-180	t700°			
			ematiti.c						
					·				
	180-185		As 175-180; 5%-10% hematitic quartz	3916	180-185	.010			
			1						
	185-190		Kaolinized and moderately hematized dacite;	3917	185-190	100.			
			+20% hematitic quartz						
			-						
•	190-195	2	as 185-190 with 20% diabase fragments; 20%	3918	190-195	100.			
			quartz .i						

	\bigcirc	6. BELIK & ASSOCIATES TD', - PERCUSSION DRILL	CUSSION	RILL RECORD	ORD	\bigcirc
PROPERTY		Bighorn HOLE No. 84P-8	æ	1	SHEET No. 3	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	u(oz/tdn)	
195-200		Dark green hematized diabase; 2% quartz	3919	195-200	100.	
		· · · · · · · · · · · · · · · · · · ·				
(07-007		5% hematitic quartz		CUX-UUX	- T00	
						:
205-210		Mainly strongly hematized diabase; abundant	3921	205-210	.036	
		secondary Cu; 5% hematitic quartz				
		•				- -
210-245		Dark red strongly hematized and kaolinized	3922	210-215	.008	
		felsic with stockwork of hematitic quartz	3923	215-220	.020	
		veins (15%-40%)	3924	220-225	.006	-
		240-245 : 30% diabase fragments	3925	225-230	tio0.	•
			3926	230-235	.005	
			3927	235-240	•004	
			3928	240-245	tio0*	
245-250		Intensely hematized diabase with 2%-5% hema-	3929	245-250	.001	
		titic quartz				
		-				
250-255		As 210-245; 30% diabase; 10% hematitic quartz	3930	250-255	.001	
255-275		Mainly hematized diabase; 2%-5% hematitic	3931	255-260	.001	
		quartz	3932	260-265		
			3933	265-270		
			3934	270-275		
			:			

	<u> </u>	6. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION E	RILL REC	ORD	:	\bigcirc	
PROPERTY_		Bighorn HOLE No. 84P-8		1	SHEET No.	4		
'DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/t	/ton)		
275-280		Dark red intensely hematized and kaolinized	3935	275-280	100.			
		felsic; 20% chloritic fragments; 10% hematitic						
		quartz						
								;
280-300	0	Locally hematized dark green diabase; some	3936	280-285	.001			
		sections; 2%-5%	3937	285-290	.001			
300-310	0	Precambrian basement; Mainly green andesitic						
		gneiss						
-								
			,					
				-				
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				÷				
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•		. 4	G, BELIK & ASSOCIATES LTD', ~ PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs HOLE No. 84PH-9	ION DRI	LL RECO No. 84P	N DRILL RECORD HOLE No. 84PH-9	\bigcirc	
8 •	DIP AND	DIP AND AZIMUTH TEST	Core Size	lepth 22,	Total Depth225 Ft.		10f	3
	Footage	Angle	zimuth Angle of Hole40 ⁰ Claim	% Recovery	% Recovery	_	22 22	84 /84
.	DEPTH	CORE		SAMPLE No.	WIDTH AU (0Z/	u(oz/zon)		Au* oz/toi
	0-10	4	Not sampled					
	10-20	H	Light green Precambrian andesitic gneiss and					
•			schist			•		
-								
ar 11.	20-30		Hematized gneiss and schist with diabase			-		
		ŗ	intervals					
	30-60		White to dark pink dacite; minor quartz					
	60-70		Hematized diabase; 5%-10% hematitic quartz 38	3848	60-65	.012		
			36	3849	65-70	.018		
	70-75		Strongly veined, hematized diabase; 80% quartz 38	3850	70-75	.008		
			1+					
	75-90		Strongly hematized felsic with stockwork of 38	3851	75-80	.010		
			c quartz veins (30%-60%)	3852	80-85	.006		
				3853	85-90	.014		.800
								•
				T	*Kamloops	s Research Assay	Assay Check	ck

•	\bigcirc	G. BELIK & ASSOCIATES LTD'' - PERC	PERCUSSION DI	DRILL RECORD	RD :	\bigcirc		
PROPERTY_			84PH-9		SHEET No.	2 0	6	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH A	Au(oz/ton		<u>)</u>	Au [*] oz/tor
90-100		Hematized diabase with strong hematitic	3854	90-95	.022		•	.021*
		guartz veining (30%-40%)	3855	95-100	.020			015*
-								
041-001		Dark red strongly hematized and kaolinized	3856	100-105	.018		-	.019*
		felsic with strong stockwork of hematitic	3857	105-110	.012			.011*
		quartz veins (20%-30%)	3858	110-115	.014		•	.015*
		120-125 ; 30% diabase	3859	115-120	.014		•	.011*
			3860	120-125	.012		•	012*
			3861	125-130	.010		•	.008*
			3862	130-135	.026		•	.019*
		•	3863	135-140	.030		-	.037*
140-150		Hematized diabase with 15%-20% hematitic	3864	140-145	.018		•	.013*
		quartz; abundant secondary Cu	3865	145-150	.090		•	078*
		•	•					
150-155	10	Fault zone? poor recovery; mainly diabase and	3866	150-155	.016		•	015*
		strongly hematized fragments; minor secondary					·.	
				-				
155-160		Poor recovery; dark pink hematitic dacite;	3867	155-160	.006			011*
		5% quartz						
		•						
160-165	2	Variably hematized dacite; 10% quartz and	3868	160-165	.012			.013
		hematitic quartz						

	•	(
		$\left(\right)$	6. BELIK & ASSOCIATES LTD'' - PER	PERCUSSION D	DRILL RECORD	ORD			
·	PROPERTY		Bighorn HOLE No. 84PH-9	1-9	1	SHEET No.	3	-01	
	DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/to	/ton)	<u> </u>	Au* oz/toi
	165-170		Moderate to strongly hematized felsic; 20% hematitic quarts; abundant secondary Cu	3869	165-170	.018			019*
			funt out and an and a second and						
	170-180		Strongly hematized felsic; 30% hematitic quart	z 3870	170-175	.022			.013*
		2.	secondary Cu	3871	175-180	.016			.001*
	180-195		Variably hematized dacite with stockwork of	3872	180-185	.004		-	.025*
			hematitic quartz veinlets (10%-30%)	3873	185-190	.026			• 000
				3874	190-195	.006			
				14. 1					
•	195-200		Light to dark pink dacite; +5% hematitic quart	3875	<u>195-200</u>	.008			
	200-205		Dark pink dacite with abundant hematitic quart	3876	200-205	.008			
			veinlets (20%)		-				
	205-225		White, pink, and maroon variable hematized	3877	205-210	+00 .			
			dacite; 2%-5% quartz	. •					
			220-225 : Secondary Cu						
				3878	220-225	+00.			
				-	•				

N DRILL RECORD HOLE No. <u>84PH-10</u>	5 Ft. Sheet No 1 of 4 5 Ft. Sheet No 1 of 4 6 Logged by G. Belik 1 5 Ft. Date Begun June 22/84 Date Finished June 23/84 Core Stored At Core Stored At	width of SAMPLE Au (oz/ton)								
USSION DR	Total Depth <u>355 F</u> t. % Recovery <u>2564 Ft.</u> Latitude <u>2564 Ft.</u> Departure	SAMPLE No.								
G. BELIK & ASSOCIATES LTD" PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs HOLE No. 84PH-	d Argimuth Core SizeAngle of Hole Claim	DESCRIPTION	Not sampled	Dark green diabase; 1%-2% quartz	Cream to pink partly kaolinized and hematized dacite; 30% diabase fragments; 5% quartz	Dark green to maroon (hematized) mafic schist	Hematized diabase; minor quartz	Mainly light to dark pink dacite; locally partly chloritized; 1%-2% quartz	60% dacite 40% diabase Minor quartz	
	DIP AND AZIMUTH TEST Correcter Footage Angle /	CORE LOST								
	DIP ANC Footage	DEPTH	0-30	30-35	35-45	45-55	55-65	65-120	120-125	

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-		\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL	CUSSION DF	ILL RECORD	RD	:	\supset	
- E	PROPERTY_		Bighorn HOLE No. 84PI	84PH-10	5	SHEET No.	2	₩ 10	
لن	'DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(oz/ton) (u		
	125-130		Hematized diabase; 1%-2% quartz	3879 1	25-130	.006			
	130-135		70% medium to dark pink dacite; 20% diabase;	3880	30-135	008			:
			0/7_0/T						
•	135-140		Diabase and hematized diabase; +20% hematitic	3881	135-140	.014			
·ł			quartz; secondary Cu						
			-						
	140-145	2	Diabase and hematized felsic; +50% quartz and	3882	40-145	.018			
			ic quartz; secondary Cu						
			• •						
	145-155	5	Strongly hematized felsic with 40%-70% hema-	3883	145-150	.016			
			bundant secondary Cu	3884	150-155	.042			
-	155-160	C	Intensely hematized diabase with 20% hematiti	<u>3885</u>	155-160	040.			
			quartz; secondary Cu						
	160-190	C	Intensely hematized zone; mixture of diabase	and 3886	160-165	940.			
			felsic with strong hematitic quartz stockwork	3887	165-170	.056			
			(30%-20%)	3888	170-175	.078			
				3889	175-180	.026			
			•	3890	180-185	.022			
				3891	185-190	.020			

-		\supset	G. BELIK & ASSOCIATES LTD' PERC	PERCUSSION DRILL	RILL RECORD	DRD	:)	
ā	PROPERTY		Bighorn HOLE No. 84PH-10	-10		SHEET No.	ر		
	DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/t	on)		
	190-200		Kaolinized and hematized felsic with 10%-30%	3892	190-195	.024			T
- -	22			3893	195-200	•044	ŀ		
	010-000		Variably hematized diabase; 5%-10% hematitic	3894	200-205	.018			
	17-002		ŧ	3895	205-210	471.			
			nod 800 auguts and vein-type material host	3896	210-215	.096			
	h77-017		fill recondent (1)	3897	215-220	.080			
			mainly diabase! lair secondary of						
				3808	220-225	.026			
	220-225		andesitic	020C					
			with 30% quartz and vein-type fragments;						
			secondary Cu						
			1						
			wivthe of odd vein-type fragments (10%).	3899	225-230	100.			
	0(2-(22		182						
						_			ŀ
	220-026	. .	Dark pink dacite with chlorite/hematite alter-	- 3900	230-235	5.016			
			- 000						
			100100						
	076-250		Pink dacite crackled with hematite and hema-	3951	235-240	100.0			
	1-3-((3								
			4 nat 14 veritter						
	ľ		•					•	
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				_	-	-	-		

	\bigcirc	G. BELIK & ASSOCIATES C.D PERCUSSION DRILL RECORD	D NOISSUD	RILL RECO	RD	O.	
PROPERTY	I	Bighorn HOLE No. 84P	84PH-10		SHEET No.	jo	th
/DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(oz/ton)		
240-265		Pale green to pink dacite; minor quartz					
265-270		Partly kaolinized and hematized felsic; minor					
		quartz			-		
270-275		Orange powder; cream partly hematized and					
		kaolinized dacite cut by hematitic quartz					
		veinlets (+5%)					
	-						
275-305		Pale green to dark pink dacite; 1%-3% quartz	-				
305-310		Red hematitic dacite; 5%-10% hematitic quartz	3952	305-310	.008		
310-335		Hematized and kaolinized felsic with stockwork	s 3953	310-315	.009		
		of quartz and hematitic quartz veins (10%-30%)	3954	315-320	• 004		
			3955	320-325	100.		
			3956	325-330	.001		
			3957	330-335	100.		
335-350		Pink dacite; 2%-5% quartz	3958	335-340	100.	_	
		335-340 : secondary Cu					
350-355		Banded dacitic tuff; minor quartz					

·	. ē	PROPERTY.	G. BELIK & ASSOCIATES LTD' PERC Bighorn Drill Logs	PERCUSSION DRILL RECORD HOLE No	N DRILL RECORD Hole No84PH-11.	JRD LPH_LL_		•	
DIP AN	DIP AND AZIMUTH TEST Corrected	TH TEST Corrected	1	Total Depth 200 Ft.	00 Ft.		No	of 2	:
Footage	Angle	Azimuth	Angle of Hole	% Recovery	2590 Ft.		Logged by <u>G. Bell ik</u> Date Begun June 24/84 Date Finished June 25/84 Core Stored At	Logged byG	
DEPTH	CORE LOST		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE Au (02,	Au(oz/t	/ton)		:
0-20		Not sampled	ed						
20-40		Bright red	d strongly hematized, Precambrian	3959	30-35	100.		_	
		greenschi	t; minor quartz	3960	35-40	. 200.			
		0 20-40	with KO% hematitic duarts	LÀOF	40-45	400.	·.		
		-50 -	10% diabase	3962	45-50	.008			
50-70		Silicified	d and weakly chloritized dacite with	3963	50-55	.007		·	
		10%-30% qu	quartz (locally amethyst) and	3964	55-60	100.			
		hematitic	quartz	3965	60-65	100.			
				3966	65-70	100.			
	•	•							
70-75		2	to	3967	70-75	100.			
		dacite; 1	15% quartz						
75-105		Hard. white.	te, pink and maroon dacite with thin	n 3968	75-80	100.			
		1.4	quartz veinl	3969	80-85	.001			
				3970	85-90	100.			
				3971	90-95	100.			
				3972	95-100	100.			

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•))	G. BELIK & ASSOCIATES LTD' PER	PERCUSSION DRILL RECORD	RILL REC	ORD	•)	
PROPERTY	ERTY		Bighorn HOLE No. 841	84PH-11		SHEET No	~	01 2	
HT430'		CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/o	on)		
				3973	100-105	100.			
105-	105-120		Mainly dark maroon, siliceous dacite; 2%-10%	3974	105-110	.013			
			hematitic quartz	3975	110-115	.017			;
•				3976	115-120	.003	·		
						•			
120-	20-140		Moderately hematized dacite with stockwork of	3977	120-125	.031		-	
			small hematitic quartz veins (5%-15%)	3978	125-130	.085			
			120-130 : secondary Cu	3979	130-135	.096			
				3980	135-140	.010			
			·						
14C	140-155		Kaolinized and hematized felsic; stockwork of	3981	140-145	110.			
			hematitic quartz veins (10%-30%)	3982	145-150	.010			
				3983	150-155	.002			
155	155-170		Hematized diąbase; 10%-15% hematitic quartz;	3984	155-160	t00.			
			secondary Cu	3985	160-165	.084			
				3986	165-170	.037			
				·			1		
170-)-185	-	Moderately hematized diabase; 1%-5% quartz;	3987	170-175	100.			
			minor secondary Cu						
			•						
185	5-200		Siliceous pink dacite; minor quartz						
							-		

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		G. BELIK & ASSOCIATES LTD', ~ PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs HOLE No. 84PH	JSSION DRILL RECORD HOLE No. 84PH-12	RD PH-12	
DIP AND	DIP AND AZIMUTH TEST Corrected		Total Depth		elik elik
Footage	Angle		% Recovery	Logged by June 26/84 Date Begun June 26/84 Date Finished June 27/84 Core Stored At	26/84 e 27/84
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No. WIDTH A	Au(oz/ton)	
- 71 C		Whidote-rich greenschist			
			•		
45-70		Hematized greenschist; 1%-3% quartz veins			
70-115		Siliceous pink and pale green dacite; general	x	•	
		4		•	
		101			
115-125		Medium to dark pink dacite; 10% diabase frags.			
125-130		Dark pink dacite; chloritic fractures; minor			
		quartz .			
130-135		Dark pink moderately hematized and kaolinized	3938 130-135	100.	
		dacite; 10% diabase; 5% hematitic quartz veins			
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		6. BELIK & ASSUCIALES LID PER	IN NOTECOD					
PROPERTY	Bi	Bighorn HOLE No. 84PF	84PH-12		SHEET No.	5	-of3	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(oz/ton)			
135-230		Moderate to strongly hematized felsic; diabase	3939	135-140	100.			
		fragments generally present throughout section	; 3940	140-145	.003			
		strong hematitic quartz stockwork (av. 30%	3941	145-150	100.			
		artz locally chloritic	3942	150-155	100.			:
			3943	155-160	100.			
			3944	160-165	100.			
			3945	165-170	100.			
			3946	170-175	100.	_		
			3947	175-180	100.			
			3948	180-185	100.			
			3949	185-190	.006			
			3950	190-195	.007			
			3989	195-200	.032			
			3990	200-205	.038			
		•	3991	205-210	100.			
			399ż	210-215	100.			
			3993	215-220	.009			
			3994	220-225	.021			
			3995	225-230	• 008			
			т					
230-238		Siliceous white to dark pink dacite, minor	3996	230-235	.006			
		quartz '	3997	235-240	.015			
238-278		Hematitic diabase and kaolinized and hematized	d 3998	240-245	.036			
		felsic; generally good quartz stockwork with	3999	245-250	.012			
					_		-	

•	·	G. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION I	RILL RECO	:		\bigcirc	
PROPERTY.		Bighorn HOLE No. 84P	84PH-12		SHEET No	3	-01	
, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLEA	WIDTH WIOZ/tdn)			
		-						
		strong vein sections	4000	250-255	.006			
			5001	255-260	.002			
			5002	260-265	100.			
			-					;
278-290		Dark green diabase	5003	265-270	. 100.			
		-287 :	5004	270-275	.022			
		secondary Cu	5005	275-280	.001	 		
			5006	280-285	• 000		•	
		•	5007	285-290	+ 00.			
290-300	0(Laminated, grey to light purple tuff; minor						
		•						
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		-						
				•				
				· ·				

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-		Ē	 Ореяту ^В і	G. BELIK & ASSUCIAIES LID PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs	CUSSTON DI	NN DRILL RECORD HOLE No. 84PH-13	0 RD - PH - 1 3			
	IP AND	DIP AND AZIMUTH TEST Corrected	ST		Total Denth 100 Ft.	00 Ft.		No L	j	2
Foc	Footage	Angle	Azimuth	Angle of Hole <u>-35</u> Claim	% Recovery Elev. Collar2550 F.t. Latitude Departure	50 Ft.		Logged by G• Belik Date Begun JUNA.27 Date Finished JUNE 2 Core Stored At		/84 //84
DEPTH	┨┝╾╾┽	CORE LOST			SAMPLE No.	WIDTH of SAMPLE	720)1	(uo:		i
	. v		Not sampled							
<u> </u>			1							
10-15	15	H	Hematitic d	diabase; minor quartz						
15-2	20	ŭ	Pale green	to pink dacite; minor quartz			•			
					-			•		
20-25	25	H	Hematitic d	diabase 5%-10% quartz						
05-20			Nark rad at	strongly homstitio sono. 1300 homo	RUUR RUUR	0 E 2 D	0.0 K			
			t qua			0/-/3	(70 •			
30-3	35	H	Hematized a	and kaolinized dacite; 5% quartz	5009	30-40	.006			
35-40	01	N.	Siliceous w	white to pink dacite; 1%-2% quartz						
40-45	t5	W	Moderately	hematized dacite; 5% quartz	5010	40-45	.002			
45-55	55	He	Hematized a	and kaolinized felsic; 10% hematiti	ic 5011	45-50	100.			
		ıb	quartz							
										•

•.	\bigcirc	G. BELIK & ASSOCIATES LD', - PERCUSSION DRILL RECORD	I NOISSION E	RILL REC	•	1	\bigcirc	
PROPERTY_		Bighorn HOLE No. 84PH-13	I-13		ET No	5	- 10-	2
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE Au (07.	u(oz/tan)			
55-60		red hematized felsic with 20% diabase; 5%-10%	5012	50-55	.008			
		hematitic quartz; minor secondary Cu	5013	55-60	.016			
02-09		Moderate to strongly hematized felsic with	5014	60-65	.096			
		diabase sections; 5%-10% hematitic quartz;	5015	65-70	•006			
		jarosite	-					
			-					
70-75		Siliceous pink dacite; 5%-10% hematitic quart	: 5016	70-75	100.			
		•		-				
75-90		Siliceous pink dacite; minor quartz						
90-100		Hematized Precambrian schist and diabase						
				-				
				•				
		•						

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	•	• • •						
	4	PROPERTY	Bighorn Drill Logs	HOLE No.		84PH-14		
DIP AND	DIP AND AZIMUTH TEST	Corrected		Total Depth 180 Ft.	180 Ft.	Sheet P	Sheet No	of 2
Footage	Angle	Azimuth	-119-	K Recovery	H H C L		Logged by G. Bell Date Begun June	Belik Tune 27/84 Tune 28/84
			Section	Latitude	20 F U.		Date Finished	
DEPTH	CORE LOST		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(oz/ton)	5)	
0-20		Not sampled	pe					
20-25		Dacite; mi	minor quartz					
						•		
25-30		60% diabase	36		·			
		40% dacite					•	
30-35		Dacite; mi	minor quartz					
35-40		30% diabase	se					-+
		70% dacite	0					
		minor quartz	rtz					
40-45		Mainly dia	diabase; minor quartz					
		1 1						
45-50		Mainly dag	dacite; 3%-5% quartz					
	1 							
50-60		Siliceous	pink dacite; 1%-2% quartz					
60-75		Moderate ⁻	to strongly hematized diabase; 5%-10%	10% 5017	60-70	- 009		
		hematitic	nb	5018	70-80	.003		_

			6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	ORD :		\bigcirc	
····· · · ·	PROPERTY			14		SHEET No.	5	- 10	2
	, рертн	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/1	(101)		
	75-85		Moderately hematized and kaolinized felsic;	5019	80-90	.002			-
			stockwork of hemațitic quartz veins (10%-20%)						
_								•	
	85-100		White to dark pink siliceous dacite; generally	5020	90-100	.015			;
			minor quartz						
	100-125		Siliceous pink dacite; 5%-25% quartz veins	5021 .	100-110	.012			
				5022	110-120	•014		•	
			-	•				_	
	125-145		Moderate to strongly hematized dacite with	5023	120-130	.022			
			5%-15% hematitic quartz; diabase intervals'	5024	130-140	100.			
••									
	145-760		Weak to moderately hematized dacite; minor	5025	140-150	.001			
•			1	5026	150-160	100.			
	160-175		Mainly hematized diabase with some hematized	5027	160-170	100.			
			1						
			1						
	175-180	0	Moderately hematized Precambrian						
	-		-						
•									
						_	-		

• • •	•	5 .	6. BELIK & ASSOCIATES LTD' PERCUSSION DRILL RECORD		- P(- 04	JTH-LU			
		OPERTY	PROPERTY Bighorn Drill Logs	НОГІ	HULE No.		,		•
DIP AND	AZIMUTH TEST	cted		Total Depth 160 Ft.	O Ft.		Sheet No1	6 Jo	
Footage	Angle	Azimuth	Angle of Hole% % Claim Ele	% Recovery	63 Ft.		Logged by G. Bel Date Begun June 28	ik 8	
-			2880	Latitude			Date Finished July	10	/84
-									
DEPTH	CORE LOST		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/ton)	(u		
				-					
01-0	N	Not sampled							
10-35	Ď	Dark green	diabase; minor quartz						
	<u> </u>	30-35 : hem	hematitic veinlets and fractures			•			
				-	•				
35-40	As	10-35;	40% of section hematitic				•		
					•				
40-50	H	Hematized d	diabase; 1%-2% quartz						
ŗ									
50-55	Ď	Dark brown hematitic	hematitic diabase and chloritized	5028	50-60	.002			·
	· ·	felsic; 30%	30% hematitic quartz						
		•							
55-60	M	Mixture of	diabase and felsic fragments; most						
	ί.	frags jaros	jarositic; 5%-10% quartz						
4		•				100			
60-65	¢	65% diabase,	e, 30% jarositic, 5% quartz	6205	n/-no	+nn•			
65-70	+	45% diabase.	e, 30% felsic, 20% jarositic, 5%						-
	प	hematitic q	quartz						
									-

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			CT-UJ&O	1				
DEPTH	CORE' LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)Au(oz		(ton)	
70-80		Dark pink hematitic dacite; 1%-5% quartz	5030	70-80		100.		
80-85		Dark pink hematitic dacite; 20% quartz (some	5031	80-90		.010		
		Amethyst)						:
85-90		Pink chloritic dacite with thin veinlets of						
		quartz						
90-100		Pink dacite with chloritic fractures, minor						
		quartz						
100-110	0	Maroon dacite cut by veinlets of quartz		100-105	590	.019		
		(5%-10%)		105-110	340	110.		
110-115	5	Strongly hematized zone; 70% diabase, 20%		110-115	1500	.055		
	•	felsic, 10%,quartz						
					-			
115-120	0	Strongly hematized diabasé; 15% hematitic		115-120	1260	.060		
		quartz						
				•				
120-125	5	Mainly dark red hematitic powder; fragments		120-125	2860	160.		
		consist of hematized diabase (major), felsic	-			-		
		(10%) and hematitic quartz (10%-15%)						

G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD

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•	<u> </u>	G. BELIK & ASSOCIATES LTD" PERCUSSION DRILL RECORD	ICUSSION D	RLLL REC	0 RD			
PROPERTY_		Bighorn HOLE No. 84PH-15	15	1	SHEET No.			3
HIGO,	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLEAL	u (ppb)	Au(oz/t	on)	
NCT-C2T	•	mixture of variety of hematized felsic frag- ments (90%) and chloritic quartz (10%)		125-130	140			
130-135		Soft hematitic powder; mixture of felsic,		130-135	30			
		chloritic and hematitic fragments; 10%						
		hematitic quartz						
135-145		Pink variably hematized dacite; 5%-10% quartz		135-140	Ś			
				140-145	2			
145-150		<u>Dacite (greenish hue); minor quartz</u>						
150-160		Pink dacite; minor quartz						
		-						
				•				
-								

. .) .		G. PROPERTY	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD Bighorn Drill Logs	CUSSION DI	N DRILL RECORD HOLF No ^{84PH-16}	0RD PH-16)	
	UIP AND	DIP AND AZIMUTH TEST						· ,		_
		Corrected	cted		Total Depth 245 Ft.	45 Ft.		No I	•	t
	Footage	Angle	Azimuth		% Recovery	560 Ft.		Logged by G. Belik Date Begun July 10 Date Server July 11		84 84
				Bearing 2880 D	Laurude			Core Stored At		
	[†] DEPTH	CORE LOST		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)Au(oz,		ton) (o	$\left(\frac{Au^{*}}{oz/ton} \right)$
	0-70	Q	Dark green	diabase; sections with minor quart	tz					
	70-80	B	Brown, mode	moderately hematized diabase; 2%-5%						
		6	quartz			75-80	5			
						·				
	80-90	M	Moderately	hematized diabase; 5%-10% quartz		80-85	5	•		
•						85-90	5			
	90-95	H	Hematized d	diabase; 10%-15% quartz and hemati	1	90-95	340	.019		.021
<i>4</i>			tic quartz							
			•							
• •	95-100		Strongly he	hematized diabase; 20%-30% quartz	-	95-100	830	.031		.016
										ETTE U
• *	100-105	<u>н</u>	ely	d diabase;		COT-OOT	790	CTN.		
		5	quartz and	quartz; secondary cu						
	105-110	0	Strongly he	hematized diabase; 20%-30% quartz;		105-110	1390	.059		. 056⁺
			>							
						*Kam	sdoo	Research	Check	Assay
			•							
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•	\bigcirc	6. BELIK & ASSOCIATES LTD'' - PEI	PERCUSSION DRILL RECORD	RILL RECO	ORD		\frown	
PROPERTY	Ι	Bighorn HOLE No. 84P	84PH-16		SHEET No.	2	-01	
, DEPTH	CORE LOST.	DESCRIPTION	SAMPLE No.	WIDTH Au (ppp) A	n (ppb)	.u(oz/tþn)		Au* oz/ton
110-115		40% diabase, 40% hematized felsic, 20%		110-115	390	.013		.018*
4.		hematitic quartz; jarositic fragments						
۹.								
115-120		Dark pink dacite; 15%-20% diabase; 20%-30%		115-120	560	.016		•014*
		hematitic quartz, jarositic fragments		·				
				•				
120-130		Pink to maroon hematized and partly chloritiz	ed	120-125	410	.013	-	.012*
		20%-30% quartz; jaros		125-130	610	.016		.017*
130-155		Moderately hematized dacite; secondary chlori	ce	130-135	220	• 006		.005*
		locally evident; vein quartz ranges from 10%-		135-140	300	200.		• 006*
		30%; amethyst locally present	•	140-145	1960	.078		.059*
				145-150	550	.019		.013*
				150-155	01 4	.016		.012*
155-160		Medium to dark pink dacite; 40% quartz and		155-160	590	.017		.015*
A		hematitic quartz						
160-170		Pink dacite cut by thin quartz, quartz/hema-		160-165	330	• 009		.007*
		tite veinlets (5%-10%)		165-170	210	.006		•008*
. 170-175		Variable pink dacite; chloritic fragments;		170-175	320	.009		.008*
		minor quartz; jarosite						
		•						

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	\bigcirc	G. BELIK & ASSOCIATES LTD'' - PERC	PERCUSSION DRILL RECORD	RILL RECO)RD		\bigcirc	
PROPERTY_		HOLE No.	84PH-16		SHEET No.	<u> </u>	*	
⁷ DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	• WIDTH Au (ppb) Au (oz	ı (ppb) Au	(oz/ton)	<u> </u>	Au* (oz/ton)
175-180		Moderately hematized and kaolinized felsic;		175-180	2460	.106	+	• 097
		5%-10% quartz						Τ
180-185	- 4-4	Strongly hematized and kaolinized zone; 20%-		180-185	5920	.210	-	221*
		tz (chloritic and hematitic varietie	s)					
185-190	6	Very dark red moist hematitic zone; abundant		185-190	8400	• 336 .	•	339*
		hematitic quartz						
190-200		Dark red/brown strongly hematized/kaolinized		190-195	5920	.204	•	179*
		10%-20% g		195-200	1830	.087	-	065*
200-205	2	White, kaolinized, limonitic felsic; 20%		200-205	1820	.080	•	076*
		hematitic quartz						
			•					
205-210	0	Mixture of white, green and maroon felsic		205-210	950	.037	-	039*
		fragments; +10% quartz						
1								
210-220	0	Diabase and hematized diabase; +20% hematitic		210-215	13860	.440		.397*
		quartz						
		210-215 : abundant secondary Cu		215-220	7020	.206		.220*
220-225	5	Mixture of diabase and felsic; 10% quartz		220-225	1720	.060		•063*
								-

	4					 	 	 ·										
\bigcirc	Jo															 		
:	4																	
DRD	SHEET No.	(dqd) u A	90		 5													
RILL RECO		WIDTH of SAMPLE	225-230		230-235									-			•	
- PERCUSSION DRILL RECORD	-16	SAMPLE No.							-								-	-
6. BELIK & ASSOCIATES C.D.' - PER		DESCRIPTION	Mixture of dacite, chloritic dacite and	diabase; minor quartz	Moderately hematized dacite; minor quartz	Green diabase; minor quartz			-									
\bigcirc		CORE			5	5												
• •	PROPERTY_	, DEPTH	225-230		230-235	235-245												

	\supset			G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	D NOISSU	RILL REC	ORD	\supset	
		jq	PROPERTY	Bighorn Drill Logs	НОН	HOLE No. 84PH-17	84PH-17	;	
	DIP AND	DIP AND AZIMUTH TEST Corrected	H TEST Corrected		Total Depth165 Ft.	65 Ft.		Sheet No <u>1</u>	(
	Footage	Angle	Azimuth	Angle of Hole 60 ^{°°} K Claim Ele Section265 ^{°°} De	% Recovery	450 Ft.		Logged by G. Belik Date Begun July 11/8 Date Finished July 12 Core Stored At	ik 1/84 12/84
	DEPTH	CORE LOST		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au (ppb)		
	0-25		Not sampled	đ					
				and wint doof to active					
	<u> </u>		rale green al minor quartz	<u>green anu pink uaci te; sections wi tn</u> . quartz veining			.		
:			1						
	95-100		Moderately	hematized chloritic dacite; +10%		95-100	2	•	
			hematitic	quartz					
•									
	100-105		Moderately	hematized chloritic dacite; minor		100-105	5		
			quartz						
	105-115		Dark green,	, locally hematized diabase; minor		105-110	5		
			quartz véi	véining (2%-5%)		110-115	30		
	115-165		Medium to	dark green Precambrian greenschist		115-120	2		
					•				
					-				

).			6. BELIK & ASSOCIATES LTD", - PERCUSSION DRILL RECORD	USSION DF	ULL REC	ORD			
		.	PROPERTY	Bighorn Drill Logs	HOLE	HOLE No. 84PH-18	34PH-18			
	DIP AND	DIP AND AZIMUTH TEST	TH TEST Corrected		Total Depth	00 Ft.	Sheet No	NoJ.	Д. оf 4.	Ł
	Footage	Angle	Azimuth	Hole20 ⁰	% Recovery Elev. Collar 2480 Ft	80 Ft.		d byG.	Logged byG. Belik Date BegunJuly13/	/84
4				· ·	Latitude Departure		Date Core	Date Finished Core Stored At	Date Finished July 16/ Core Stored At	/84
	DEPTH	CORE LOST		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLEAU (ppb) Au (oz,	A(dqq)u		ton)Ag(ppm)	. (mo
c			1	-						
•	0T-0		Snart dump-	- not sampled						
	10-20		Dark red he	red hematized diabase; strong hematitic		10-20	2420	.076	2.6	
~			quartz veir	Сu			•			
						·				
	20-30		Strong hema	hematitic zone; +40% hematitic quartz;		20-30	1300	.042	2.3	
			abundant s€	secondary Cu	·					
.,		·							•	
• •	30-40	H	Hematized d	diabase; 30% quartz; secondary Cu		30-40	1960	.059	1.9	
×										
	40-50	N	Mainly orar	orange powder; fragments consist of		40-50	024L	- 840 -	8	
		~)	50% diabaśe,	e, 40% kaolinized/hematized felsic.						
		- 1	5%-10% quar	quartz; minor secondary Cu						
	50-60		Diabase and	and moderately hematized felsic;		50-60	530	210.	-2	
			generally m	minor quartz						
									 	•

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		\bigcirc	6. BELIK & ASSOCIATES LID", - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	JRD	1 - - - -	\bigcirc	
_	PROPERTY	Bi	Bighorn HOLE No. 84PI	84PH-18		SHEET No.	1	Jo	4
	VDEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A) (qdd)n	Au oz/ton)	ton)Ag(ppm)	
	60-70		Pink dacite with thin quartz veinlets (2%)		60-70	210	.009	c.	
i	70-80		Dark pink dacite with 2%-5% hematitic quartz		70-80	340	.013	4.	
£	80-90		Dark pink and pale green dacite; 2% quartz		80-90	320	.011	<i>ħ</i> .	
t	90-100		Dark pink dacite; 35% quartz/hematitic quartz		90-100	066	.032	6•.	
•			minor secondary Cu						
	061-001		Hematitic dacite: 20%-30% quartz		100-110	880	.029	1.4	
·					110-120	220		.8	
	120-140		Hematitic dacite; 5%-10% quartz		120-130	90		•4	
	-				130-140	20		.8	
	140-150		Hematized dacite and diabase, 10% hematitic		140-150	20		8.	
			quartz	<u>-</u>					
			• • •						
	150-170		Dark green, locally hematized diabase; 5%		150-160	60		د.	
			quartz		160-170	50		.8	
	170-180		70% diabàse, 30% felsic, 2% quartz		170-180	5		•7.	

			C RELIK & ACCATES TAN'I ~ PER	PERCUSSION DRILL RECORD	RILL RECO	ORD		, 	
	PROPERTY		HOLE No.	84Ph-18		SHEET No	3	Jo	4
	нтерти	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(qaa)n		(mdd)g	
	180-190		Hematized diabase; 5%-10% quartz		180-190	2		2.	
	190-200		Hematized diabase; minor quartz		190-200	2		1.1	
	200-210		Diabase and hematized dacite; 5% quartz		200-210	2		1.3	:
⊥L								c	
	210-220		Mainly hematized diabase; +5% quartz		022-012	<u> </u>		<u>،</u>	
	220-260		Dark green diabase; 5%-10% hematitic quartz		220-230	5		.8	
 					230-240	210		.6	
<u> </u>					240-250	5		.7	
1					250-260	550		8.	
1 <u>.</u>									
· ·	260-300		Hematized diabase; 5% hematitic quartz		260-270	780		1.0	
<u>1:</u>			290-300 : poor recovery		270-280	380		1.8	
L					280-290	860		3.7	
Ľ					290-300	1530		2.3	
L									
L	300-320		Hematized diabase with abundant secondary Cu;		300-310	160		1.9	
1			minor quartz		310-320	135		4.	
<u></u>									
1	320-330		Brick red hematized felsic; abundant secondary	2	320-330	20		•1	
			Cu; minor quartz						
	330-340	ò	Hematized dacite; minor quartz		330-340	5		.1	
<u></u>									

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	•	$\left(\right)$	G. BELIK & ASSOCIATES LTD'' - PER	PERCUSSION DRILL	RILL RECORD	ORD	•	>	
	PROPERTY_		Bighorn HOLE No. 84PH-18	-18		SHEET No.	4	t	
	HI430,	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqq)u		Ag(ppm)	
									
<u></u>	340-360		Variable hematized dacite; minor quartz		340-350	10			
6					350-360	5			
	360-370		Hematized dacite; 5% quartz		360-370	40		.1	
									i
	370-380		White and pink daçite; 20% dark fragments		370-380	5		. ۲	
								•	
	380-390		Dark red/brown and white to maroon felsic		380-390	15		۰٦	
			v hema¹	te;					
			Z	•					
	390-400		White to pale pink dacite; 30% strongly hem-		390-400	Ś		.1	
			atized fragments						
	044-004		Strongly hematized dacite cut by numerous		014-004	5		.1	
			hematitic (fine specularite) veinlets; some		410-420	10		.1	
					420-430	5		.1.	
					430-440	5		-1	
	-								
	440-500		Dark brown strongly hematized felsic; 15%-20%	20	440-450	15		-1	
			of fragments specular hematite and quartz/		450-460	5		.1	
				•	460-470	5		-1	
					470-480	o 5			
					480-490			.1	
					490-500	0 5		.1	

				·						
	-	. H	PROPERTY	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD Bighorn Drill Logs HOIF No. 84PH-1	CUSSION D	N DRILL RECORD HOLF No. ⁸⁴ PH-19	ORD 2H-19	/		
* * :		TID AND ATIMITH TEST								
		Corrected	cted		Total Depth	335 Ft.		Sheet No <u>1</u>	of 5	
	Footage	Angle	Azimuth	Angle of Hole	% Recovery 2623 Ft.	2623 Ft.		Logged byGB.e.Li.K. Date BegunJ.YJ.Q.		
				040	Latitude			Date Finished July 16, Core Stored At	Date Finished July 16/84. Core Stored At	/84
-	DEPTH	CORE		DESCRIPTION	SAMPLE No.	WIDTH OI SAMPLE AU (DDD)AU (OZ/	A(dqq)u	u(oz/ton)	u)	
	0-35	N	Not sampled	d						
•										
	35-80	F	Fresh, green,	en, well-foliated chlorite-hornblende-	nde-					
		ŭ	sericite-epidote	pidote schist (Precambrian basement	t)		•			
-						·				
•;	80-105	As	35-80	with moderate to strongly hematized				•		
:		ŭ	sections							
	105-120	M	Mixture of diabase	diabase and kaolinized/hematized		105-110	800	.029		
		Ţ.	felsic; st	strong hematitic quartz veining;		110-115	1460	.049		
1		ũ	secondary Cu	Cu generally evident throughout		115-120	1145	.062		
1		ũ	section ^	•		·				
1		1	105-110 :	30% hematitic quartz						
		1	110-115 :	40% hematitic quartz						
		-	115-120 :	60%-70% quartz, quartz/hematite						
	120-130		Light green	n dacite; 40%-70% of unit dark red		120-125	205	.009		
		a 1	and strong	/ hematized; thin quartz strir	ũ	125-130	90	.003		
			(2%-5%)			•				
					•					
	·									

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		G. BELIK & ASSOCIATES LTD' PER	PERCUSSION D	DRILL RECORD	RD	•	>	
PROPERTY.		Bighorn HOLE No. 841	84PH-19		SHEÈT No.	2	of	5
C DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqq)u	Au (oz/	ton)	
·								
130-135		Hematized and kaolinized felsic; 20% dark		130-135	160	.010		
		green chloritic (secondary ?) fragments; +5%						
		quartz	•					
135-160	0	White (kaolinized) and maroon (hematized) fel	sic					
· · · ·		cut by hematitic quartz veins and veinlets						
				135-140	155	.002		
• .				140-145	350	.013		
		: 40% qua		145-150	1675	140.		
		150-155 : 15% quartz		150-155	460	.013		
				155-160	405	.010		
160-165	2	Variable pink dacite, minor quartz		160-165	011	.005		
165-170		Pink, green and maroon dacite; minor quartz		165-170	560	.015		
170-175	2	Dark green diabase; +30% hematitic quartz		170-175	6900	.276		
175-185	35	White to maroon hematized and kaolinized dacit	te					
		175-180 : 30% hematitic quartz		175-180	4200	.145		
		180-185 : 15% hematitic quartz		180-185	45 <u>1</u> 0	.165		
			•					
185-190	06	Variable pink dacite; 5%-10% hematitic quartz		185-190	3180	.098		

•	-	\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	RCUSSION DI	RILL RECO	RD			
. PA	PROPERTY		Bighorn HOLE No. 84PF	84PH-19	2	SHEET No	6	-ol	
Ċ	DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE Al	۱۹(dqq) u	Au(oz/ton)		
	190-200		Dark pink dacite; minor quartz		190-195	042	.030		
<u> ;</u>]					195-200	550	.024		
	200-205		Dark pink to maroon dacite; 5% hematitic quar	tz.	200-205	1020	.042		
	205-210		ngly hematized dacite; 5		205-210	1700	.051		
							•		
	210-225		Dark pink qacite 210-215 : 10% hematitic quartz		210-215	460	.017		
			215-220 : 15% hematitic quartz; secondary Cu		215-220	1280	. 069		
<u> </u>			: 5% quartz		220-225	570	.028		
	225-230		White, maroon and red dacite; minor quartz		225-230	225	.018		
	230-235		Hematized felsic and diabase; minor quartz		230-235	210	.012		
	235-240		Pink to maroon dacite; 2%-4% quartz		235-240	110	.010		
	240-245		Grey to pink dacite; minor quartz		240-245	240	.017		
	245-250		Dark pink and green dacite; 5%-10% quartz		245-250	370	• 009		
	250-25	- 27	Dark pink to maroon dacite: 15% hematitic quart	ırtz	250-255	130	• 006		
•I									
					·				
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	$\overline{)}$	6. BELIK & ASSOCIATES LTD'' - PER	- PERCUSSION DRILL RECORD	RILL RECO	ORD			
PROPERTY		Bighorn HOLE No. 84PH-19	-19	1	SHEET No.	4		
HT430'	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLEAu(ppb)	(dqq) u	Au(oz/	con)	
				070 220	070	Inco		
255-260		White to pink dacite; +30% hematitic quartz		002-662	00%	+C0.		
		and quartz						
260-265		Variably hematized dacite; +15% hematitic quar	tz	260-265	330	.018		;
-								
265-270		Hematized diabase and felsic; 20% hematitic		265-270	540	.029		
		vquartz						
		-						
270-275		White to maroon (hematized) felsic; +10% hem-	·	270-275	200	.037		
		hematitic quartz						
275-280		White (bleached) to pink dacite; 35% hematitic		275-280	270	.015		
		quartz						
280-285		White and maroon dacite; chloritic frags; 5%-1	0%	280-285	590	.026		
		hematitic quartz						
285-295	- 10	White to maroon hematized and kaolinized felsi	1	285-290	1270	640.		
		fair stockwork of quartz veins		290-295	1210	610.		
. 295-300		Strong hematitic quartz vein zone (+60%)		295-300	1160	.048		
		strongly hematized felsic host unit; secondary						
		Cu						
				•				
·					_			

				an a				
)	G. BELIK & ASSOCIATES LTD' PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	DRD) ·	
PROPERTY.	×	Bighorn HOLE No. 84PH-19	-19		SHEET No.	2		
'DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Au(oz/t	on)	
				1				
300-305	50	atitic shear/ve		300-305	820	<i>1</i> €0.	•	
		hematitic quartz; 20% secondary Cu						
				010 200	ויסב	600		
302-310	01	Hematized diabase; minor quartz and secondary		NTC-CNC	C04	(20.	+	
		Cu						
310-335	35	Hematized and brecciated diabase; minor vein		310-315	210			
!	N N	-		315-320	280			
				320-325	140			
				325-330	50			
				330-335	01			
-								
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-								
		-						
				•				

			6. B	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	IG NOISSU	RILL REC	0RD		
		. A	OPERTY Big	PROPERTY Bighorn Drill Logs	НОГІ	HOLE No. 84PH-20	·PH-20		
	DIP AND	DIP AND AZIMUTH TEST Corrected	EST cted		Total Depth 480 Ft.	180 Ft.		Sheet No <u>1</u> of	4
	Footage	Angle	Azimuth	Hole <u>-60°</u>	% Recovery 2486 Ft.	186 Ft.		щ γ	MO
				273°	Latitude Departure			Date Finished July 18/84 Core Stored At	18/84
	DEPTH	CORE		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqd)uA		
• • •									
	0-160	N	Not sampled						
_	160-215	Ä	Dark green dial	diabase; sections locally contain		180-185	10		
		1,		ematite stringers with dark red		185-190	ح .		
•	-	ĥ	hematitic envelopes			190-195	5		
		5	213-215 : +10%	+10% hematitic quartz		195-200	10	•	
						200-205	10		
						205-210	2		
						210-215	10		
	215-220	D	Diabase and mod	and moderately hematized welded tuff;	•	215-220	25		
		<u>رم</u>	5% quartz; trace	ce secondary Cu					
				·					
	220-225	0	, yellow	and purple (hematization)felsic		220-225	15		
		∃ 	milling quarts					-	
	225-230	M	Mixture of white	te and purple. hematized felsic		225-230	5		
•				-					
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	\bigcirc	G. BELIK & ASSOCIATES LID", - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO)RD	\bigcirc	
PROPERTY		Bighorn HOLE No. 84PH-20	20		SHEET No. 2	Jo	4
'DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	WIDTH of SAMPLEAu (ppb)	(dqd) u		
			-				
230-245		Orange cuttings; mixture of white, purple and		230-235	5		
		red fragments; specular hematite along frac-		235-240	120		
	-	tures, minor quartz		240-245	100		
							i
245-265		White and purple (hematized) felsic; black		245-250	30		
		hematite along fractures		250-255	50		
				255-260	35		
				260-265	45		
		•					
265-275		Pink dacite; black hematite along fractures		265-270 .	10		
				270-275	15		
275-280		Dark pink dacite with 1%-2% thin quartz/hematit	te	275-280	10		
		veins; black hematite along fractures					
280-315		Light green and pink dacite; locally a few thin	C	280-285	5		
		quartz veins and hematitic fractures		285-290	5		
				290-295	2		
				295-300	5		
				300-305	50		
				305-310	40		
		-		310-315	35		
315-330		Green and dark pink dacite; minor quartz		315-320	15		
				320-325	20		
				325-330	5		

·	\bigcirc	G. BELIK & ASSOCIATES L'D' PERC	- PERCUSSION DRILL RECORD	RILL RECO	•		•	
PROPERTY		Bighorn HOLE No. 84PH-20	H-20		SHEET No.	ε	-of 4	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	hu(ppb)hu	Au(oz/ton)) (u	
330-365		Green and pink dacite; locally minor vein	•	330-335	2			
		quartz		335-340	5			
			-	340-345	5			
				345-350	5			;
				350-355	25			
				355-360	10			
				360-365	2			
365-370		365-369 : dark pink dacite with 2%-5% quartz		365-370	10		.	
		n diabase with 10% hematit	[c					
		quart						
370-375		370-373 : diabase; 5% quartz		370-375	145			
		373-375 : red & white felsic; 2%-5% quartz						
375-385		Variably hematized, white, red and maroon		375-380	20			
		dacite; generally minor vein quartz		380-385	60			
385-390		Chocolate brown hematized tuff; 2%-4% specular	- 21	385-390	85			
		hematite and quartz						
390-427		Strong vein section; section averages 80%-90%		390-395	4280	.124		
		quartz (mainly banded hematitic varieties with		395-400	2940	.088		
		amethyst varietie	es);	400-405	5 2360	• 096		
		sections with abundant secondary Cu		405-410	-1	.069		
				410-415	5 535	.018		

•	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	RCUSSION E	RILL RECO	DRD	1	\bigcirc	
PROPERTY	£Ω,	Bighorn HOLE No. 84E	84PH-20		SHEET No.	4		4
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqq) u	u(oz/tbi	bn)	
				415-420	925	.029		
				420-425	1290	.049		
				425-430	240			
								:
427-430		Strongly hematized diabase (?); 5%-10%						
		hematitic quartz						
430-435		White to maroon dacite; +10% hematitic quartz	2	430-435	55			
435-445		Moderate to strongly hematized, white to purp.	ote	435-440	. 40			
		felsic crackled with hematitic fractures, 20%		9440-445	270			
	•	hematite + hematitic quartz						
445-455	-	Green diabase and brown hematized diabase;		445-450	80			
				450-455	85			
455-465		Crackled white and maroon dacite; 5%-10%		455-460	30			
		hematitic quartz		460-465	45			
465-480		Strongly hematized Precambrian greenschist		465-470	30			
				470-475	15			
				475-480	50			
	•							

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<u> </u>		5	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	RCUSSION D	RILL RECO	0RD		\bigcirc	
		PROPERTY B	PROPERTY Bighorn Drill Logs	HOL	HOLE No. 84PH-21	PH-21			
DIP AND	DIP AND AZIMUTH TEST	TEST			лес Bit		 г 		
Footage	Angle	Corrected Azimuth	Core Size	Total Depth	435 Ft.		Sheet NoL		5 LK /84 24/84
DEPTH	CORE			SAMPLE No. WIDTH	WIDTH				
									i
0-20		Not sampled							
20-28		Hematized P	Precambrian <i>e</i> reenschist						
		1				•			
28-50		Leucocratic	feldspar augen gneiss						
							•		
50-55		Granite gneiss	iss						
55-65		Various Pred	Precambrian gneisses and schists	-					
65-70		Mixture of a	schist, tertiary volcanics and				•		
		diabase; 'pos	'possible fault zone						
	•								
70-75		Soft Precambrian	brian schist						
75-80		Wixture of £	granite gneiss and diabase						
80-90		Mainly sheared	red green gneiss						
									-

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	\bigcirc	6. BELIK & ASSOCIATES LTD" PERCUSSION DRILL RECORD	CUSSION D	RILL REC	ORD			
PROPERTY		Bighorn HOLE No. 84PH-21	-21		SHEET No.	2 0	2	
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(daa) n A	(oz/ton)		Au* oz/tor
90-100		Precambrian granite gneiss; locally hematized						
		2%-3% vein quartz						•
				•				
100-105		Moderately hematized Precambrian schigt; 1%-2	%					:
		vein quartz						
				•				
105-115		Moderately hematized schist and diabase				•		
					•			
115-150		Light pink to maroon dacite; sections with						
		minor vein quartz						
			:					
150-155		Light pink and green dacite						
155-195		Monotonous pink dacite with minor vein quartz		190-195	5			
		•						
195-200		Pink dacite with 30% fracture controlled						
		chloritic alteration; 5% quartz and hematitic		195-200	30			
		quartz						
	٠		-					
200-205		Pink dacite and red hematitic dacite, 20%-30%		200-205	1510	.038		• 044
		quartz and hematitic quartz; secondary Cu						
				•				
				*Kamloop	ps Research	rch Check	Assay	

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	\supset	6. BELIK & ASSOCIATES LTD'' - PER	- PERCUSSION DRILL RECORD	RILL RECO	ORD		\supset	
PROPERTY		Bighorn HOLE No. 841	84PH-21	1	SHEET No.	6	-of	
ИСЕРТН	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(daa) n	(oz/ton)	4)	Au * (oz/tor
•								
205-225		Pink dacite with stockwork of hematitic quart	Z					
٤	•	veins; greenish hue to unit (possible chloritization	ization)					
		tz		205-210	2100	.052		•059*
		1		210-215	2430	.068		•063*
		* +60%		215-220	2110	•044		.053*
		220-225 : +30% quartz		220-225	835	.024		.031*
				- ·				
225-230		Hematized dacite with strong hematitic quartz		225-230	725	.020	-	021*
		stockwork (60%)		•				
		•						
230-235		Strongly hematized felsic with +50% hematitic		230-235	1250	•036		* 140
		quartz; secondary Cu						
235-245		Strongly hematized and kaolinized felsic with		235-240	800	.028		.031*
		+30% hematitic quartz; secondary Cu in fair		240-245	630	.024		.024*
		abundance .						
245-250		Light pink to maroon felsic; +10% hematitic		245-250	290	.006		010*
		quartz .						
250-255		White to maroon, moderate to strongly hematize	ed	250-255	2			
		felsic with *15% hematitic quartz; secondary (du					

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MOPERTY Bighorn HOLE No. BHPH-21 AFFER No. 'orrink CORT CORT ANULE No. ANULE No. AL(pp) 'orrink CORT CORT ANULE No. ANULE No. ANULE No. ANULE No. 255-265 Strongly kaolinised and hematised felsici.+20 % 255-266 5 260-265 5 1 Tragments Tragments Z60-265 5 260-265 5 263-270 Pink dacite S69-270: strong hematitie guarts veining 265-270 5 269-270 Pink and maroon dacite with stockwork 270-275 90 5 270-275 Mhite pink and maroon dacite minc (10%-15%) 270-275 90 5 275-298 Of hematite and guarts/hematite veins (10%-15%) 270-275 90 100 275-298 Of hematite and guarts/hematite veins (10%-15%) 270-275 90 100 275-298 Of hematite quarts vein with secondary Cu 275-280 5 290-295 5 299-300 Homatite quarts vein with secondary Cu	•	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	RCUSSION I	RILL RECO	ORD	\bigcirc	
CONF CONF CONF Fire Specular hematite; some hematitic quartz FragmentsCAMPLE No.ANDULL AStrongly kaolinized and hematized felsic; +20% Fire specular hematite; some hematitic quartz255-260Fire specular hematite; some hematitic quartz260-265Fragments269-270; strong hematitic quartz265-270Pink dacite269-270; strong hematitic quartz265-270R hite pink and maroon dacite with stockwork265-270S fragments269-270; strong hematite veins (10%-15%)265-270C fematite and quartz/hematite veins (10%-15%)280-285S for hematite and quartz/hematite veins (10%-15%)280-285R hite pink and maroon dacite infor quartz280-285R hematite quartz vein with secondary Cu295-300R dedium to dark pink dacite brecciai 15% vein295-300R hematitic quartz vein with secondary Cu305-310R dedium to dark pink dacite brecciai 15% vein305-310R hematitic quartz vein with secondary Cu10%-10%R dark pink dacite brecciai 15% vein295-300R dartz10% the green and maroon dacite305-310R hematitic quartz vein with secondary Cu10% the green and maroon dacite10% the greenR hematitic quartz vein with secondary Cu10% the green10% the greenR hematitic quartz vein with secondary Cu10% the green10% the greenR hematitic quartz vein with secondary Cu10% the green10% the greenR hematitic quartz vein with secondary Cu10% the green10% the greenR hematitic quartz vein wit	PROPERTY		HOLE Nº.	H-21		SHEET No. 4		5
Strongly kaolinized and hematized felsic; +20%255-260frue specular hematite; some hematitic quartz260-265fragments260-205Pink dacite269-270269-270 i strong hematitic quartz veining265-270269-270 i strong nematitic quartz veining265-270269-270 i strong hematitic quartz veining265-270269-270 i strong nematitic quartz veining265-270269-270 i strong nematitic quartz veining265-270269-270 i strong nematitic quartz veining267-280269-290 i +20% quartz/hematite veins (10%-15%)280-285285-290 i +20% quartz vein with stockwork280-285285-290 i +20% quartz vein with secondary Cu290-300285-290 i vein285-290285-290 i +20% quartz vein with secondary Cu295-300285-290 i vein295-290285-290 i +20% quartz vein with secondary Cu295-300285-290 i vein295-290285-290 i +20% quartz vein with secondary Cu295-300285-290 i +20% quartz vein with secondary Cu295-300905-300 i white green and maroon dacite305-310905-310 i Hematitic quartz vein with secondary Cu905-310905-310 i Hematitic quartz vein with secondary Cu905-310905-310 i Hematitic quartz vein with secondary Cu905-310905-310 i Hematitic quartz vein with secondary Cu905-310	DEPTH	CORE LOST	DESCRIPTION			Au(ppb)		
Strongly kaolinized and hematized felsici +20%255-260fine specular hematite, some hematitic quartz260-265fragments260-267Pink dacite269-270269-270: strong hematitic quartz veining267-270269-270: strong neatite with stockwork270-275white pink and maroon dacite with stockwork270-2750 f hematite and quartz/hematite veins (10%-156)270-2750 f hematite and pink dacite; minor quartz285-280285-290: +20% quartz + hematitic quartz285-280285-290: +20% quartz + nematitic quartz290-29510 f hematite quartz vein with secondary Cu295-30011 f hematitic quartz vein with secondary Cu295-30012 f hematitic quartz vein with secondary Cu295-30014 f hematitic quartz vein with secondary Cu295-30015 f hematitic quartz vein with secondary Cu295-30016 f hematitic quartz vein with secondary Cu295-30017 f hematitic quartz vein with secondary Cu205-30018 f hematitic quartz vein with secondary Cu205-30019 f hematitic quartz vein with secondary Cu205-30010 f hematitic quartz vein with secondary Cu205-30011 f hematitic quartz vein with secondary Cu205-30011 f hematitic quartz vein with secondary Cu205-30011 f hema					•			
Fine specular hematite; some hematitic quartz260-265fragments269-270265-270Pink dacite269-270265-270269-270 : strong hematitic quartz veining265-270Mhite pink and maroon dacite with stockwork265-270of hematite and quartz/hematite veins (10%-15%)270-275of hematite and quartz/hematite veins (10%-15%)285-290285-290 : +20% quartz + hematitic quartz285-290285-290 : +20% quartz + hematitic quartz285-290Benatite quartz vein with secondary Cu295-290Hematitic quartz vein with secondary Cu295-290Molum to dark pink dacite breccia; 15% vein300-305QuartzQuartz vein with secondary Cu205-310Hematitic quartz vein with secondary Cu205-300Hematitic quartz vein with secondary Cu205-310Hematitic quartz vein with secondary Cu <td< td=""><td>255-263</td><td></td><td>and hematized felsic;</td><td>%</td><td>255-260</td><td>5</td><td></td><td></td></td<>	255-263		and hematized felsic;	%	255-260	5		
fragmentsfragmentsPink dacite269-270 : strong hematitic quartz veining265-270269-270 : strong hematitic quartz veining265-270Mhite pink and maroon dacite with stockwork270-275of hematite and quartz/hematite veins (10%-15%)270-275of hematite and quartz/hematite veins (10%-15%)285-290285-290 : +20% quartz + hematitic quartz285-290285-290 : +20% quartz + hematitic quartz285-2906 fematitic quartz vein with secondary Cu295-2909 duartz295-2909 duartz9 duartz9 duartz9 duartz9 fematitic quartz vein with secondary Cu295-3009 duartz9 duartz9 hite green and maroon dacite305-3109 hematitic quartz vein with secondary Cu9 dof-3109 hematitic quartz vein with secondary Cu1 dof-3059 hematitic quartz vein with secondary Cu1 dof-3059 hematitic quartz vein with secondary Cu<			specular hematite; some hematitic		260-265	5		
Pink daciteE269-270 : strong hematitic quartz veining265-270269-270 : strong hematitic quartz veining265-270269-270 : strong hematitic quartz veining270-2750f hematite and quartz/hematite veins (10%-15%)270-2750f hematite and quartz/hematite veins (10%-15%)270-2750f hematite and quartz/hematite veins (10%-15%)270-2750f hematite and pink dacite; minor quartz285-2901285-290 : +20% quartz + hematitic quartz280-285285-290 : +20% quartz vein with secondary Cu295-30011295-30			fragments					
Pink dacitePink dacite269-270 : strong hematitic quartz velning265-270269-270 : strong hematitic quartz velning265-270White pink and maroon dacite with stockwork270-275of hematite and quartz/hematite velns (10%-15%)270-275crackled white and pink dacite; minor quartz275-280Crackled white and pink dacite; minor quartz285-2901285-290 : +20% quartz + hematitic quartz285-2902285-290 : +20% quartz reminor quartz285-2901285-290 : 10%-15%285-29011295-300								i
269-270 : strong hematitic quartz veining265-270White pink and maroon dacite with stockwork270-275of hematite and quartz/hematite veins (10%-15%)270-275of hematite and quartz/hematite veins (10%-15%)275-280Crackled white and pink dacite; minor quartz285-290 : +20% quartz + hematitic quartz285-290 : +20% quartz + hematitic quartz285-290 : 290-2951285-290 : +20% quartz + hematitic quartz285-290 : 290-2951285-290 : +20% quartz + hematitic quartz285-290 : 290-29511290-295290-29511290-295290-29511290-295290-29511290-295290-295111290-295111290-29511290-295290-295111290-29511290-295290-295111290-295111290-295111290-295111290-295111290-295111290-305111290-305111290-305111290-305111290-305111111111111111111111<	263-270							
White pink and maroon dacite with stockwork $270-275$ of hematite and quartz/hematite veins ($10\%-15\%$) $275-280$ of hematite and pink dacite; minor quartz $275-280$ $285-290$: $+20\%$ quartz + hematitic quartz $280-285$ $285-290$: $+20\%$ quartz + hematitic quartz $280-285$ $285-290$: $+20\%$ quartz vein with secondary Cu $290-295$ Medium to dark pink dacite breccia; 15% vein $300-305$ Mute green and maroon dacite $305-310$ Mhite green and maroon dacite $305-310$ Hematitic quartz vein with secondary Cu $305-310$ $100-305$ 15% vein $305-310$ $100-305$ 15% vein 15% vein $100-305$ 15% vein 15% vein $100-305$ 15% vein 15% vein $100-305$ 15% vein $100-305$ $100-305$ 15% vein $100-305$ $100-305$ 15% vein $100-305$ $1000-305$ $100-305$ $100-305$ $1000-305$ $100-305$ $100-305$ $1000-305$ $100-305$ $100-305$ $1000-305$ $100-305$ $100-305$ $1000-305$ $1000-305$ $1000-305$: strong hematitic quartz		265-270	2		
White pink and maroon dacite with stockwork270-275of hematite and quartz/hematite veins (10%-15%)275-280crackled white and pink dacite; minor quartz275-280Crackled white and pink dacite; minor quartz285-290285-290 : +20% quartz + hematitic quartz280-285285-290 : +20% quartz rematitic quartz285-290285-290 : +20% quartz thematitic quartz280-28588285-29098295-30099295-30099295-30099295-30099295-300999 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
of hematite and quartz/hematite veins (10%-15%)z?5-280Crackled white and pink dacite; minor quartz275-280285-290 : +20% quartz + hematitic quartz280-285285-290 : +20% quartz vein with secondary Cu285-290Hematitic quartz vein with secondary Cu295-300Medium to dark pink dacité breccia; 15% vein300-305quartzquartz305-310Mhite green and maroon dacitebreccia; 15% vein305-310Hematitic quartz vein with secondary Cu10%-10%Mhite green and maroon dacite10%-10%Hematitic quartz vein with secondary Cu10%-10%Nhite green and maroon dacite10%-10%Hematitic quartz vein with secondary Cu10%-10%Hematitic quartz vein with secondary Cu10%Hematitic quartz vein with secondary Cu10%Hematitic quartz vein with secondary Cu10%	270-275		and maroon dacite with		270-275	30		
Crackled white and pink dacite; minor quartz275-280285-290 : +20% quartz + hematitic quartz280-285285-290 : +20% quartz + hematitic quartz280-285860 : 100			hematite and quartz/hematite veins	(%)				
Crackled white and pink dacite; minor quartz275-280285-290 : +20% quartz + hematitic quartz280-285285-290 : +20% quartz + hematitic quartz280-285Hematitic quartz vein with secondary Cu285-300Medium to dark pink dacite breccia; 15% vein295-300quartzwhite green and maroon dacite300-305Hematitic quartz vein with secondary Cu10Hematitic quartz vein with secondary Cu295-300Hematitic quartz vein with secondary Cu10White green and maroon dacite300-305Hematitic quartz vein with secondary Cu10Hematitic quartz vein with secondary Cu10Imatitic quartz vein with								
285-290 : +20% quartz + hematitic quartz 280-285 Rematitic quartz vein with secondary Cu 290-295 Medum to dark pink dacité breccia; 15% vein 295-300 Wedum to dark pink dacité breccia; 15% vein 200-305 White green and maroon dacité 300-305 White green and maroon dacite 305-310 Mematitic quartz vein with secondary Cu 10 Noite green and maroon dacite 305-310 Mematitic quartz vein with secondary Cu 10 Noite green and maroon dacite 105-310 Mematitic quartz vein with secondary Cu 10 Yematitic quartz vein with secondary Cu 10	275-298		white and pink dacite;		275-280	2		
285-290Hematitic quartz vein with secondary Cu290-295Medium to dark pink dacité breccia; 15% vein295-300Medium to dark pink dacité breccia; 15% vein300-305quartzWhite green and maroon dacité305-310White green and maroon daciteNu305-310Hematitic quartz vein with secondary CuNu305-310Hematitic quartz vein with secondary CuNu105-310			: +20% quartz + hematitic	·	280-285	5		
290-295Hematitic quartz vein with secondary Cu295-300Medium to dark pink dacite breccia; 15% vein295-300Quartz900-305White green and maroon dacite905-310Medium to quartz vein with secondary Cu905-310Hematitic quartz vein with secondary Cu905-310Hematitic quartz vein with secondary Cu905-310					285-290	100		
Hematitic quartz vein with secondary Gu295-300Hematitic quartz vein with secondary Gu295-300Medium to dark pink dacite breccia; 15% vein300-305quartz905-300White green and maroon dacite305-310Hematitic quartz vein with secondary Cu10N1					290-295	5		
Hematitic quartz vein with secondary Cu295-300Nedium to dark pink dacite breccia; 15% vein300-305Quartz900-305Nhite green and maroon dacite905-310Hematitic quartz vein with secondary Cu905-310Hematitic quartz vein with secondary Cu905-310Yend <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
-305Medium to dark pink dacite breccia; 15% vein300-305-309quartz300-305-309White green and maroon dacite305-310-310Hematitic quartz vein with secondary Cui	298-300		qyartz vein with secondary		295-300	100		
-305Medium to dark pink dacite breccia; 15% vein300-305900-305quartz900-305909White green and maroon dacite905-310910Hematitic quartz vein with secondary Cu905-310911								
-309 White green and maroon dacite 305-310 -310 Hematitic quartz vein with secondary Cu 505 Hematitic quartz v	300-305		to dark pink dacité breccia; 15%		300-305	5		
-309 White green and maroon dacite 305-310 -310 Hematitic quartz vein with secondary Cu i i i i i i i i i i i i i i i i i i			quartz					
-309 White green and maroon dacite 305-310 -310 Hematitic quartz vein with secondary Cu in								
Hematitic quartz vein with secondary	305-309		green and maroon		305-310	40		
Hematitic quartz vein with secondary			-					
	309-310		quartz vein with secondary					
				•				

-	\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	RCUSSION D	RILL RECO				
PROPERTY_		Bighorn HOLE No. 84PH-21	I-21		SHEET No.	Ś	lo	5
И рертн	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqq)uA			
310-320		Red to maroon strongly hematized and kaoliniz	ed	310-315	380			
		felsic; quartz stockwork present but weak		315-320	280			
320-328		Hematitic zone with strong hematitic quartz		320-325	1270			:
		stockwork (50%-70%); abundant secondary Cu		325-330				
328-330		Grey cherty felsic	-					
		•						
330-335		Dark grey/green (45%) and maroon (45%) feisic		330-335	250			
		hematitic quartz						
335-355		Purple, grey and green dacitic tuff, minor		335-340	50			
		quartz	-	340-345	5			
				345-350	5			
		•		350-355	5			
		•						
		-						

	· ·	\bigcirc	6. BELIK & ASSOCIATES LTD'' - PER	- PERCUSSION DRILL RECORD	RILL RECO	ORD			
	PROPERTY.		Bighorn HOLE No. 84PH-22	-22		SHEET No.	N	of4	
	UDEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(daa) u	(oz/tor)		
	185-220		Light to medium pink dacite; minor quartz		210-215	2			
			A DIA TA MILLING A/2 .		077-(77	6			
	220-225		Dark pink to maroon and green dacite, 2% vein quartz		220-225	5			i
	225-229		As 220-225 with distinct blood red hematite a	10	225-230	25			
	ĩ		halos adjacent to fractures						
	229-240		Diabase with stockwork of hematitic quartz		230-235	105			
· · ·			veins (15%-40%)		235-240	270	.012		
	240-245		Siliceous felsic with 40% vein quartz; 1 Ft.		240-245	1100	•034		
			red hematitic zone with 60% quartz						
	245-250		Dark maroon strongly hematized felsic; abundan	١t	245-250	1260	.042		
			fine specularite; 20% hematitic quartz; abun-						
			dant malachite						
			-						
	250-255		Strongly hematized felsic; abundant fine		2.50-255	3160	.072		
			specularite; 10% hematitic quartz						
			-						
	_								

	\bigcirc	;	DEDAUGETON DDTLT	DII. RECORD	URU	\bigcirc	
		13. BELIK & ASSULIAIES LID FENC				•	•
PROPERTY		Bighorn HOLE No. 84PH-22	H-22		SHEET No.	3	-01
ULPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH	(duu) u V	(oz/ton)	
	LOST				1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
244-274		Intenselv hematized felsic with abundant fine		255-260	850	.022	
17-00-		te; 10% vein quartz; numerous wh		260-265	200	.020	
		ra gmante		265-270	690	.016	
				270-275	250	• 006	;
274-285		Strongly hematized and kaolinized felsic with		275-280	170	t00.	
		uartz vei		280-285	100	. 400.	
				_			
285-290		Pink dacite; 20%-30% hematitic quartz		285-290	140	+00	
290-295		Strongly hematized vein/shear zone; 50%		290-295	350	110.	
		c quartz					
295-300		Strongly hematized diabase (?); 2%-5% vein		295-300	30		
		quartz .					
300-303		Dark pink dacite with 60% vein quartz (most		300-305	60		
		hematitic)					
303-329	6	Variable pink, green and maroon (hematitic)		305-310	0 160		
		dacite, generally minor vein quartz		310-315	150		
		310-320 : minor secondary Cu		315-320	09 00		
				320-325	2		
				325-330	100		
			_	_	_	_	_

•	•	\bigcirc	G. BELIK & ASSOCIATES LTD", - PERCUSSION DRILL RECORD	CUSSION D	RILL REC	ORD		\bigcirc	
PROPU	PROPERTY			84PH-22		SHEET No	4	- 10	4
нтертн	PTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqq)uA			
329	329-333		White and dark maroon (hematitic) felsic:		330-335	2			
			+20% hematitic quartz; abundant secondary Cu						
			(mainly malachite)						
									:
333	333-345		Dark pink dacite; minor quartz		335-340	5			
					340-345	5			
			•						
<u> </u>				•					
									•
			•						
ŀ									
				-		<u> </u>			

	\bigcirc		6. BELI	6, BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	JC NOISSI	ALL RECO	DRD		\bigcirc	-
•.	•	. id	PROPERTY Bighor	Bighorn Drill Logs	HOLE	HOLE No. 84PH-23	4PH-23			
• · ·	DIP AND	DIP AND AZIMUTH TEST			Total Denth 305 Ft.	05 Ft.		No 1	Sheet No <u>1</u> 01 3.	3
	Footage	Angle	zimuth	if Hole	% Recovery	・ 100 日 日		by G.	Logged by G. Belik	Tr Tr
				Claim Elev Section	Elev. Collar	• 7 + 23		Finished	Date Begun	/84
	DEPTH	CORE		DESCRIPTION	SAMPLE No.	WIDTH (ppb)	(dqq)u			
	0.4;-0	2	Not sampled							
	110-50		Drocomhrist reinden	graenachiat with diahaga dyka.					_	
	0(-0+		1 77	veining			•			
			0	1						
	50-85	>	Variable pink, pa	pale green and maroon dacite;				•		
		E C	minor vein quartz							
	. 85-103	H	Hematized diabase;	e; 5% vein quartz		85-90	Ŷ			
•						90-95	5			
		•				95-100	50			
			•							
	103-107	02	Sheared, green, c	chloritized dacite; minor vei		100-105	2			
		Ъ	quartz			105-110	5			
	107-114	<u>н</u>	<u>Pink dacite; minor quartz</u>	or quartz	_	110-115	2	1		
	061-411		Dark green, sheared.	red. chloritized dacite		115-120	150			
	> ~ + + + + + + + + + + + + + + + + + +	1	Br coul							
				-						•

	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION DI	RECO	RD	\bigcirc
PROPERTY.		Bighorn HOLE No. 84PH-23	-23		SHEET No.	of <u>3</u>
HT430'	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(ppb)	
120-15		Pink dacite; a few sections with quartz		120-125	5	
				125-130	5	
				130-135	20	
				135-140	5	;
				140-145	5	
				145-150	5	
				150-155	20	
155-160	0	Pink to maroon and light green dacite; 20%-		155-160	30	
		vein quartz	-			
			-			
160-165	2	Dark maroon, locally chloritic dacite; 10%		160-165	50	
1		ש				
		4				
165-185	2	Pink, pale green and maroon dacite; generally		165-170	30	
		quartz		170-175	5	
				175-180	5	
				180-185	15	
185-200		Strong vein section; 30%-70% quartz (trans-		185-190	90	
		lucent, hematitic, amethyst); host unit dark		190-195	290	
		maroon (hem		195-200	170	
200-210	0	Mixture pf white siliceous felsic crackled wi	i th	200-205	01	
		thin quartz veinlets and maroon, hematitic		205-210	20	
		c; some large frags (2%) of hematitic	quartz		_	_

- 2007 2	\bigcirc	G. BELIK & ASSOCIATES LTD'' - PER	- PERCUSSION DRILL	RILL RECORD	RD :	: : : :	·	
PROPERTY		Bighorn HOLE No. 84PH-23	-23		SHEET No.	6	-of _3	
HT90'	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	u (ppb)	AU (oz/tor) (oz/tdn)	
210-240		Dark maroon, hematized dacite; stockwork of						
		hematitic quartz veins						
		210-215 : 10% quartz		210-215	15			
		215-220 : +5% quartz		215-220	2			
		220-225 : 5%-10% quartz		220-225	У			
		: 15% qua		225-230	50			
		: 15%	•	230-235	740	.025	. 08	
		: +309			4940	.126	.14	
240-265		Strong vein zone; 80%-90% quartz (mainly Hema-		240-245	0178	.029	.28	
		arieties)		245-250	990	.032	.23	
		250-265 : abundant jarosite		250-255	335	.014	.78	
				255-260	420	.018	-74	
				260-265	049	.020	.68	
265-270		Pale green, maroon and red (hematized) felsic		265-270	610	.022	•35	
		lant jarosite; 30% quartz						
270-285		Pink to maroon felsic; minor quartz		270-275	80			
				275-280	120			
				280-285	. بر			
		-						
285-305	2	Pink dacite; minor quartz		285-290	2			
				290-295	2			
				295-300	5			
				300-305	5		-	

	\bigcirc			•			\bigcirc	7
	- - -	. đ	PROPERTY	HOL HOL	N DKILL KECURD HOLE No	UKU 14PH-24		
	DIP AND	DIP AND AZIMUTH TEST Corrected	Core Size	Total Depth 350 Ft.	350 Ft.	Sheet No	, 1 of 4	
	Footage	Angle	zimuth	% Recovery	498 Ft.	Logge Date Date	G. Belik July 30/84 July 30/	84
•				ueparture		Core	slored Al	
÷	DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(ddd)n		
ŗ								
•	0-80		Not sampled					
	80-90		Precambrian mafic diorite and greenschist					
•	90-95		Greenschist; locally hematized; +10% hematit	itic	90-95	. 06		
1	1							
Ĩ								
	95-100		Hematized greenschist and diabase; 10% hema-	a –				
			titic quartz		95-100	100		
	100-105		Hematized greenschist; 10% hematitic quartz	2	100-105	20		
·	105-160		Dark green diabase and hematized diabase;		105-110	10		ŀ
			weak to moderate quartz veining		110-115	20		
			105-125 : 10%-15% hematitic quartz		115-120	06		
			some	amethyst)	120-125	80		
			: 15% quartz (hematitic + ameth	(125-130	Ŋ		
•	8				130-135	5		
b 1					135-140	140		
•					140-145	30		
					145-150	210		
					אאר האר	U c		

•	- *	\bigcirc	G. BELIK & ASSOCIATES LTD', - PER	- PERCUSSION DRILL RECORD	RILL RECC	RD		\bigcirc
	PROPERTY_		Bighorn Bulle No. 84PH-24	[-24		SHEET No	~~~	of 4
Ľ	DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	(ozytoh)	
1					-			
•								
	160-165		Strongly hematized zone; +20% quartz		<u>160-165</u>	01		
				-				
لط	65-175		Strong vein zone (+70% quartz); host strongly		165-170	230		•
			hematized and chloritized		170-175	150		
لي <mark>سا</mark>	75-190		Diabase and hematized diabase;				•	
			175-180 : 20% quartz (amethyst present)		175-180	30		
L			180-185 : 5%-10% quartz; minor secondary Cu	•	180-185	5		
<u> </u>			185-190 : 15% quartz; minor secondary Cu	ې	185-190	280	.007	-
I				•				
	190-220		Strong vein/breccia zone averaging 60%-70%	٩	190-195	410	410.	
r			quartz; host unit strongly hematized and		195-200	660	.016	
<u>.</u>			chloritized diabase (?)		200-205	500	.014	
			200-220 ; interval with fair amount of secon-		205-210	830	.026	
L			dạry Cu		210-215	500	.012	
L				•	215-220	660	.018	
	220-225		Sheared diabase and dacite, some quartz	-	220-225	1210	•034	
	225-230	0	Vein/breccia zone; 70% quartz, hematitic quart	- 67	225-230	4200	.106	
			and vein-type fragments; dark maroon host;					
•			secondary Cu					
<u> </u>	230-240		Very dark red hematitic zone; mainly mud from		230-235	1540	.042	
				ђТе	235-240	650	.018	

•		G, BELIK & ASSOCIATES LID PER	PERCUSSION DRILL RECORD	RILL RECO		:		
PROPERTY_		Bighorn HOLE No. 84PH	84PH-24		SHEE No.	9	-01 4	
TOEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH A	Au(ppb)	$(o_{z}^{A}y_{tor})$		
÷		sheared, highly hematized diabase						
240-245	51	Dark green and maroon, fine-grained volcanic,		240-245	390	.012		
		30% quartz and hematitic quartz						:
245-250	50	Sheared diabase; hematitic; minor quartz;		245-250	270	.008		
		abundant secondary Cu					-	
		1						
250-255	55	Similar to 245-250; mainly clay balls of gough	19	250-255	190	+00.		
		+15% fragments of hematitic quartz; secondary	Cu					
255-265	55	Mainly fault gouge with fragments of diabase.		255-260	20			
		zed diabase and hematitic quartz (5%-10)	٤)	260-265	80			
				·				
265-275	75	Clay rich fault zone; sheared hematized felsi	¢s(?)	265-270	2			
		and diabase; minor quartz		270-275	2			
275-292	92	Blue/green porphyrytic dyke		275-280	5			
				280-285	5			
				285 , 290	5			
292-29	297	White dense siliceous rhyolite		290-295	110			
		-						
297-305	05	Variety of red hematitic and yellow jarositic		295-300	180			
		fragmenţ\$		300-305	140			

G REI IX & ASSACIATES ITD', - PERCUSSION DRILL RECORD

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	\bigcirc	E DEI IV . ACCATEC LTD' - PERCUSSION DRILL RECORD	RCUSSTON D	RILL RECO)RD	\bigcirc	\bigcirc	
PROPERTY		Bighorn HOLE No. HOLE No.	84PH-24		ET No	4	-ol 44	
, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dq)uA			ŀ
305-315		Pink and pale green dacite		305-310	30			
				310-315	110			
315-325		Dark green diabase; minor quartz		315-320	20			;
				320-325	2			
		-					•	
325-330		Diabase and felsic		325-330	2			
330-335		Felsic tuff		330-335	у.			
335-350		Diabase	•	335-340	5			
				340-345	5			
				345-350	5			-
					-			
		-	-					

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		. id	PROPERTY.	Bighorn Drill Logs	HOLE	HOLE No84PH-25	PH-25	,		
	DIP AND	DIP AND AZIMUTH TEST Corrected	H TEST Corrected		Total Depth 285 Ft.	285 Ft.	Sheet No	No1	of3	
·	Footage	Angle	Azimuth	Hole60 	% Recovery	400 Ft.		Logged byG. Belik Date Begun July 31 Date Finished July 3 Core Stored At	Logged byG. Belik Date Begun July 31/84 Date Finished July 31/84 Core Stored At	17 17 18 17
1 7	DEPTH	CORE		DESCRIPTION	SAMPLE No.	WIDTHLE Au (ppb) (ozyton) (gz/ton)) (dqq)uA	ozyton)	Ååz/ton)
•	0-20	Z	Not sampled							
				-						
	20-38	<u>н</u>	Pink and pale	e green dacite; minor quartz			•			
	38-48		Green andesitic	tic tuff						
								•		
•• ••	48-50	н	Pink to maroon	on felsic						
:	50-90	5	Weak to moder	moderately hematized diabase; general	Ly					
*		U	minor quartz							
#										
	90-95		Hematitic diabase	abase and felsic; #10% hematitic		85-90	510	.023	.01	
		6	quartz			90-95	120	.006	•03	
•				•				-		
:	95-125		Hematized and	and kaolinized felsic; strong stock-		95-100	1670	.048	•05	
?			שו	veins (2		100-105	360	.013	.06	
						105-110	550	.019	.06	
i						110-115	044	.018	.07	
						115-120	20			
						120-125	60			•
				•						
										,

	\bigcirc	G. BELIK & ASSOCIATES LTD' PERCUSSION DRILL RECORD	ICUSSION D	RILL REC	ORD			
PROPERTY_		Bighorn HOLE No. 84P	84Ph-25	I	SHEET No	2	-ol	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	(oz/ton) (oz	Ag (oz/ton)	
125-135		Moderate to strongly hematized felsic; 10%-15%		125-130	5			
		hematitic quartz		130-135	2			
		-						
135-140		Maroon hematized felsic; +20% hematitic quartz		135-140	5			;
140-145	- <u>U</u> X	Moderately hematized and kaolinized felsic;	•	140-145	120			
		+20% quartz and hematitic quartz						
			·					
145-150		Mixture of maroon, white, brown and green felsic	ic	145-150	300			
		fragments; 10% quartz						
150-155	2	Mixture of kaolinized, hematitic felsic and		150-155	100			
1		ized felsic(?);						
155-165	5	White to maroon, variably hematized and kaolin	ized	155-160	90			
		felsic; 20% hematitic quartz		160-165	5			
165-173	34	Variably hematized dacite with strong quartz		165-170	190			
. •		stockwork (30%-40%)		170-175	. 90			
173-185	5	Dark green and maroon (hematized) diabase;		175-180	300	.014	+10.	
		strong quårtz stockwork (15%-20%)		180-185	140	.006	• 03	
								.

•).).	G. BELIK & ASSOCIATES LTD', - PER	- PERCUSSION DRILL RECORD	RILL RECO	RD	1	>	
PROPERTY		Bighorn HOLE No. 84PH-25	-25		SHEET No.	3		
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Au (oz/toh)	Ag (oz/ton	
185-225		Strongly hematized, intense stockwork vein/		185-190	580	.018	•06	
		breccia zone; zone averages 80%-90% quartz and		190-195	250	.015	•03	
ţ		vein-type material; most quartz, banded hema-		195-200	420	.024	.02	
		titic varieties with translucent, white and		200-205	550	.019	•04	i
		amethyst varieties		205-210	780	.032	•04	
				210-215	380	• 009	.02	
				215-220	180	.010	. 03	
		-	•	220-225	320	.012	.01	
225-230		Pink to maroon hematized felsic; strong quartz	2	225-230	250	.009	.03	
4		•.• ·						
230-235		Intensely crackled (micro breccia) pink and		230-235	5			
		maroon felsic; 5%-10% quartz		-				
		•						
235-247		Hematized Pręcambrian greenschist		235-240	5			
				240-245	5			
247-285		Light to dark pink dacite; minor quartz		245-250	68			
				250-255	85			
				255-260	45			
				260-265	435			
		-		265-270	290			
				270-275	95			
				275-280	120			
				280-285	80			1

G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD

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· ·		, c	PROPERTY	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD Bighorn Drill Logs HOLE No. 84PH-	USSION DRILL RECORD HOLE No. 84PH-26	D -26	
	DIP AND			0	Total Depth 300 Ft.	Sheet No 1	
•	Footage	Angle	Azimuth		% Recovery	Logged by	ug. 1/84 Aug. 2/84
	DEPTH	CORE		DESCRIPTION	SAMPLE No. WIDTH		
• .	0-20		Not sampled				
	20 Jt.R		Nark groon	diahase. locally hematized: minor			
	04-07		4				
						•	
	48-95		Medium to d	dark green mafic Precambrian schist	· ·		
			locally hem	hematized		•	
							-
	95-125		Purple, epi	epidote-rich greenschist; metavolcanie			
			Phenocryst	preserved			
		·					
	125-145		Mixture of	greenschist and diabase; locally			
			hematized′				
•			*				
	145-165		Possible fa	fault zone; mixture of sheared, altered	red		
			Precambrian	n schist and Tertiary volcs.(?);			
			2%-5% quartz	tz			
	165-170		Green and I	pink porphyritic unit with epidote;			
			possible te	tertiary dyke			
	-						
				-			

, t ,	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	ICUSSION D	RILL [®] REC	:		\bigcirc	
PROPERTY_		Bighorn HOLE No. 84PH-26	26	1	ET No		of 2	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		-		
170-195		Altered and sheared(?) Precambrian greenschist						
195-200		Moderate to strongly hematized tertiary dacite						
		5%-10% quartz						
								:
200-205		<u>Diabase, hematized diabase and hematized,</u>						
		epidote-rich greenschist						
						•		
205-210		Greenstone .						
		•					•	
210-230		Mainly diabase		•				
230-250		Dark green mafic schist						
250-280		Green, mafic gneiss; abundant epidote; section	70-					
		hematized						
		•						
280-300		Precambrian metadiorite						
		•						
			-					
·	_				_			

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-		. 2	G. BELIK & ASSO(PROPERTY Bighorn Drill	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD Bighorn Drill Logs HOLE No. 84P	USSTON DF	N DRILL RECORD HOLE No. 84PH-27	0 4PH-27	<u> </u>	
	DIP AND	NMIZA	Core Size		Total Depth 300 Ft.	300 Ft.	. Sheet No	of	4
	Footage	Angle	zimuth	-50 ⁰ 40 ⁰	% Recovery 2604 Ft. Elev. Collar 2604 Ft. Latitude Departure	04 Ft.	Logged by <u>J</u> . <u>M</u> . Date Begun <u>AUG</u> . Date Finished <u>AUG</u> Core Stored At	J. M. Aug. 1 Aug. 7	Dawson /84 /84
- L	DEPTH	CORE	DESCRIPTION		SAMPLE No.	WIDTH of SAMPLE			
!	0-20		No samples						
LL									
·	20-25	<u>Р</u>	Precambrian(?) dark gree	green-grey hornfelsed					
		ڡ	basic volcanic						
				•			•		
	25-30	S	Similar to last; minor h	hematite staining					
					·			•	
L	30-35	Ğ	Green-grey, chloritic gr	greenstone					
1	35-40	S.	Similar to last						
L									
	40-45	E.	Fine grained hornfelsed	basic volcanic					
1			•						
L	45-50	<u>v</u>	Similar to last						
<u>.</u>	50-55	=	-						
L			-			-			
<u> </u>	55-60	=	· " I trace	quartz					
±									
	60-65	N N	Similar to last; no quartz	ctz					
<u> </u>				-					
<u>+</u>	65-70	=	" " no quartz	tz					
٦	T								

)	6. BELIK & ASSUCIAIES LID FERCUSSION DATAL				1	
PROPERTY		Bighorn HOLE No. 84PF	84PH-27		SHEET No. 2	Jo	4
/DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH A	Au(ppb)		
	LOST	Biss ansissa hounfolced emphiholite					
C - N							
75-80		Fine grained hornfelsed basic volcanics					
80-85		Similar to last					-
85-90				85-90	2		
90-95		Similar hornfels: chloritic in part		90-95	2		
95-100		much more he		95-100	· 5		
		olour .					
100-105		Similar- blood red colour to material		100-105	2		
0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		hornfe		105-110	5		
211-011		Similar to last section		110-115	ý	-	
115-120		ained. grey hornfelsed volcanics; possi	i þ 1 y	115-120	790		
		mple(?) (90-95?)					
120-125		Fine grained, hornfelsed basic volcanic extensive	n ëiv e	120-125	2		
	•	hematite; blood red colour					
125-130		Similar to last section		125-130	5		•
						-	
130-135		Similar hornfels; weakening of hematite conter	ent;	130-135	5		
		minor quártz					

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•	\frown	6. BELIK & ASSOCIATES LTD', - PER	- PERCUSSION DRILL RECORD	RILL RECC)RD	\bigcirc	
PROPERTY	Bi€		84PH-27		SHEET No.	lo	4
DEPTH CC	CORE	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Au(ppb)		
135-140	Dark	ck grey, fine grained, hornfelsed basic		135-140	5		
	[ov]	volcanics; trace hematite; no prominent red					
	[00]	colour					
140-145	Sin	Similar to last section		140-145	30		:
145-150	=			145-150	5		
150-155	=			150-155	Ś		
155-160	:			155-160	5		
160-165	=			160-165	ۍ		
165-170	=		•	165-170	5		
170-175	=			170-175	بر		
175-180	=			175-180	5		
180-185	· Fine	ne grained, grey chloritized & hornfelsed		180-185	ر ک		
	bai	basic volcanics; hematite prominent blood red					
	co						
			•				
185-190	Sir	Similar to last section		185-190	5		
190-195	Grey	ey to buff and pink rhyolitic volcanics;		190-195	5		
	he	heavy hematite; prominent red colour; minor					
	<u>1</u>	quartz					
195-200	N N	Similar to last section		195-200	5		
200-205	=			200-205	5		
205-210	Ω.	Similar rhyolite; hematite on fractures; no	·	205-210	5		
	N	visible puartz		· .			
						·	

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	\bigcirc	G. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION D	RILL REC	:	\bigcirc	
PROPERTY		Bighorn HOLE No. 841	84PH-27		ET No	10-	
HI430,	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(ddd)nW		
210-215		Similar to last section		210-215	5		
215-220		Pink to buff and light grey rhyolite and some		215-220	5		
		dark grey basic (Precambrian?) volcanics					
220-225		Dark grey, hornfelsed basic volcanics; no					
		hematite; minor quartz					:
225-230		Similar to last; no quartz; no hematite					
230-235		Similar to last section					
235-240							
240-245							
245-250							
250-255							
255-260							
260-265						 	
265-270		н и и					
270-275							
275-280		Similar hornfelsed basic volcanic; traces of					
		quartz					
280-285		Similar Precambrian? volcanics, no quartz					
285-290		Purplish grey, fine grained basic volcanics-					
		hornfelsed					
290-295		Similar to last section					
295-300							
		End pf hole					

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Solution Total Dept 500 % Recovery % Recovery % Recovery Elev. Colla Latitude Inter Departure Inter [samPL] Inter Colla Inter SamPL Inter Inter Inter Collour Inter SamPL Inter Inter r quartz olcanics; no quartz olcant inent red colour inent red inent red colour scattered quartz		\bigcirc	G. BELIK & ASSOCIA PROPERTY Bighorn Drill Logs	ASSOCIATES LTD', - PERCUSSION DRILL RECORD	IG NOISSI	N DRILL RECORD Hole No. 84PH-28	0 RD 1 PH - 28		<u> </u>	
Footage Angle Annuth Annut Annut Annut <th>DIP AI</th> <th></th> <th></th> <th></th> <th></th> <th>+#_00</th> <th></th> <th>,</th> <th></th> <th></th>	DIP AI					+#_00		,		
DeferitCORF LOSTDescnirtionSAMPLE No.0-20No samplesNo samples0-22Fine grained, dark grey volcanics; Pre6 (?)No20-25Similar to last sectionNo20-25Similar grey, hornfelsed volcanic; minorNo20-25Similar to last section; hematite stringersNo30-35Similar to last section; hematite stringersNo40-445Similar to last section; hematite stringersNo40-45Similar to last section; hematite stringersNo45-50Similar to last section; prominent red colourSimilar to last section45-50Similar to last section; prominent red colourSimilar to last section60-65Similar to last section; prominent red colourSimilar to last section60-65Similar to last section; prominent red colourSimilar to last section60-65Similar to last section; prominent red colourSimilar to last section; prominent red colour60-65Similar to last section; prominent red colourSimilar to last section; prominent red colour60-65Similar to last section; prominent red colourSimilar to last section; prominent red colour65-70Similar to last section; prominent red colourSimilar to last60-65Similar to last section; prominent red colourSimilar to last75-80Similar to lastSimilar to last75-80Similar to lastSimilar to last75-80Similar to lastSimilar to last75-80Similar to lastSimilar to last <th>Footage</th> <th>Angle</th> <th>Azimuth</th> <th></th> <th>al Depth</th> <th>580 Ft.</th> <th></th> <th>No <u> </u></th> <th>of 0 M. Dawso ug. 7/84 ug. 8/84</br></th> <th></th>	Footage	Angle	Azimuth		al Depth	580 Ft.		No <u> </u>	of 0 M. Dawso ug. 7/84 	
0-200No samplesIntervent20-25Fine grained, dark grey volcanics; Pred (?)Intervent20-25Similar to last sectionSimilar to last section27-30Similar grey, hornfelsed volcanic; minorIntervent30-35Similar to last sectionIntervent30-35Similar to last sectionIntervent40-45Similar to last section; hematite stringersIntervent40-45Similar to last section; prominent red colour50-557045-50Similar to last sectionSimilar to last section50-557060-65Similar to last section; prominent red colour60-6557050-56Fine grained, purplish grey volcanics; no quartz50-55707060-65Similar to last section; prominent red colour65-7057060-65Similar to last section; prominent red colour65-7057070-75Similar to last section; prominent red colour65-7057070-75Similar to last section; scattered quartz70-7557070-75Similar to lastScattered quartz75-8057075-80Similar to lastScattered quartz75-80570	DEPTH	CORE	DESCR		SAMPLE No.	WIDTH _	15			
20-25Fine grained, dark grey volcanice; Pre6 (?) $ $	0-20					01 SAMPLE	ladd			
20-25Fine grained, dark grey volcanics, PreG (?) $$ $25-30$ Similar to last section $$ $$ $25-30$ Similar to last section; hematite stringers $$ $$ $30-35$ Similar to last section; hematite stringers $$ $$ $30-35$ Similar to last section; hematite stringers $$			•							
25-30Similar to last section $<$ $<$ $<$ $30-35$ Similar to last section $<$ $<$ $<$ $<$ $30-35$ Similar to last section; hematite stringers $<$ $<$ $<$ $35-40$ Similar to last section; hematite stringers $<$ $<$ $<$ $35-40$ Similar to last section; hematite stringers $<$ $<$ $<$ $40-45$ Similar to last section; prominent red colour $<$ $<$ $<$ $40-45$ Similar to last section $<$ $<$ $<$ $60-56$ Similar to last section $<$ $<$ $<$ $60-65$ Similar to last $<$ $<$ $<$ $60-65$ Similar to last $<$ $<$ $<$ $60-65$ Similar to last $<$ $<$ $<$ $60-75$ Similar to last $<$ $<$ $<$ $60-75$ <t< td=""><td>20-25</td><td></td><td>dark</td><td>volcanics;</td><td></td><td></td><td></td><td></td><td>•</td><td></td></t<>	20-25		dark	volcanics;					•	
25-30Similar to last section $<$ $<$ $<$ $30-35$ Similar grey, hornfelsed volcanic, minor $<$ $<$ $<$ $<$ $30-35$ Similar to last section; hematite stringers $<$ $<$ $<$ $<$ $35-40$ Similar to last section; hematite stringers $<$ $<$ $<$ $<$ $<$ $35-40$ Similar to last section; prominent red colour $<$ $<$ $<$ $<$ $<$ $40-45$ Similar to last section $<$ $<$ $<$ $<$ $<$ $<$ $<$ $49-45$ Similar to last section $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $40-45$ Similar to last section $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$										
$30-35$ Similar gray, hornfelsed volcanic, minor $<$ $<$ $<$ $30-35$ hematite on fractureshematite on fractures $<$ $<$ $<$ $35-40$ Similar to last section, hematite stringers $<$ $<$ $<$ $<$ $35-40$ Similar to last section, hematite stringers $<$ $<$ $<$ $<$ $<$ $40-4f_2$ Similar to last section, prominent red colour $<$ $<$ $<$ $<$ $<$ $40-4f_2$ Similar to last sectionpominent red colour $<$ $<$ $<$ $<$ $<$ $45-50$ Similar to last section $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $50-55$ Similar to last section $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$ $<$	25-30		Similar to last section				. •			
35-40hematite on fractures $<$ $<$ $<$ $35-40$ Similar to last section; hematite stringers $<$ $<$ $<$ $35-40$ Similar to last section; prominent red colour $<$ $<$ $<$ $40-45$ Similar to last section; prominent red colour $<$ $<$ $<$ $45-50$ Similar to last section $<$ $<$ $<$ $45-50$ Fine grained, purplish grey volcanics; no quartz $<$ $<$ $<$ $55-60$ Fine grained, purplish grey volcanics; no quartz $<$ $<$ $<$ $55-60$ Similar to last section; minor quartz $<$ $<$ $<$ $<$ $55-60$ Similar to last section; minor quartz $<$ $<$ $<$ $<$ $55-60$ Similar to last section; minor quartz $<$ $<$ $<$ $<$ $55-60$ Similar to last section; minor quartz $<$ $<$ $<$ $<$ $55-60$ Similar to last section; minor quartz $<$ $<$ $<$ $<$ $55-60$ Similar to last section; minor quartz $<$ $<$ $<$ $<$ $55-70$ Similar to last section; minor quartz $<$ $<$ $<$ $<$ $<$ $57-80$ Similar to last section; prominent red colour $<$ $<$ $<$ $<$ $<$ $57-80$ Similar to last $<$ $<$ $<$ $<$ $<$ $<$ $<$ $57-80$ Similar hematized volcanics; scattered quartz $<$ $<$ $<$ $<$ $<$ $57-80$ <td>30-35</td> <td></td> <td>grey,</td> <td>volcanic;</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	30-35		grey,	volcanic;						
$35-40$ Similar to last section; hematite stringers \cdot \cdot $40-45$ more prevalentmore prevalent \cdot \cdot $40-45$ Similar to last section; prominent red colour \cdot \cdot $45-50$ Similar to last section \cdot \cdot \cdot $60-55$ \cdot \cdot \cdot \cdot \cdot $55-60$ \cdot \cdot \cdot \cdot \cdot $50-55$ \cdot \cdot \cdot \cdot \cdot $50-56$ \cdot \cdot \cdot \cdot \cdot $50-76$ \cdot \cdot \cdot \cdot \cdot $50-76$ \cdot <td></td> <td></td> <td>uo</td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td>			uo					·		
$40-4f_{0}$ more prevalentmore prevalent $40-4f_{0}$ Similar to last section; prominent red colour 1 $4f_{0}-f_{0}$ Similar to last section 1 $4f_{0}-f_{0}$ Similar to last section 1 $50-55$ 1 1 $50-56$ 1 1 $5f_{0}-60$ 1 1 $5f_{0}-60$ 1 1 $5f_{0}-60$ 1 1 $60-65$ 1 1 $60-65$ 1 1 $6f_{0}-67$ 1 1 $6f_{0}-70$ 1	35-40		to last	hematite	-					
40-4/5Similar to last section; prominent red colour $ $			more prevalent							
45-50Similar to last sectioninfor quartz50-5550-55" " " " " " i minor quartz50-5555-60Fine grained, purplish grey volcanics; no quartz55-6060-65Similar to last section; minor quartz60-6560-50Similar to last section; prominent red colour65-7065-70Similar to last section; prominent red colour65-7070-75Similar to lastScattor65-7075-80Similar to lastScattered quartz70-75	40-45		to last	prominent red						
45-50Similar to last section 1 $50-55$ "" $50-55$ $57-60$ "" $50-55$ $55-60$ Fine grained, purplish grey volcanics; no quartz $55-60$ $60-65$ Similar to last section; minor quartz $60-65$ $60-65$ Similar to last section; prominent red colour $60-65$ $65-70$ Similar to last section; prominent red colour $65-70$ $70-75$ Similar to last $50-60$ $75-80$ Similar to last $70-75$ $75-80$ Similar hematized volcanics; scattered quartz $70-75$				· · · · · · · · · · · · · · · · · · ·						
50-55" " " " " " " " " " " 50-5555-60Fine grained, purplish grey volcanics; no quartz55-6050-65Similar to last section; minor quartz60-6560-65Similar to last section; prominent red colour65-7065-70Similar to last section; prominent red colour65-7070-75Similar to last section; prominent red colour70-7570-75Similar to lastSimilar to last75-80Similar hematized volcanics; scattered quartz75-80	45-50		to last							
55-60Fine grained, purplish grey volcanics; no quartz55-6060-65Similar to last section; minor quartz60-6565-70Similar to last section; prominent red colour65-7065-70Similar to last section; prominent red colour65-7070-75Similar to last70-7570-75Similar to last70-7575-80Similar hematized volcanics; scattered quartz75-80	50-55		=	i m		50-55	20			
60-65Similar to last section; minor quartz60-6567-70Similar to last section; prominent red colour65-7067-75To fines65-7070-75Similar to last70-7570-75Similar to last70-7575-80Similar hematized volcanics; scattered quartz75-80	55-60		grained,	volcanics; no qua	tz	55-60	80			
60-65Similar to last section; minor quartz60-6565-70Similar to last section; prominent red colour65-7065-70Similar to last70-7570-75Similar to last70-7575-80Similar hematized volcanics; scattered quartz75-80										
Similar to last section; prominent red colour65-70to fines70-75Similar to last70-75Similar hematized volcanics; scattered quartz75-80			to last	minor		60-65	5			
Similar to last section; prominent red colour65-70to fines70-75Similar to last70-75Similar hematized volcanics; scattered quartz75-80										
to fines70-75Similar to last70-75Similar hematized volcanics; scattered quartz75-80	65-70		to last	prominent red		65-70	2			
Similar to last Similar hematized volcanics; scattered quartz 75-80										
Similar hematized volcanics; scattered quartz 75-80	70-75		to			70-75	5			
	75-80		Similar hematized volc			75-80	5			

•	\bigcirc	G. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	D NOISSU	RILL RECC	RD 	\bigcirc	
PROPERTY_		HOLE No.	84PH-28 .		SHEET No. 2		
, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)		·
80-85		Similar fine grained, basic volcanics; scattere	ed	80-85	2		
		with s					
85-90		r to l		85-90	5		
90-95				90-95.	5		
		fines					
95-100		Similar to last section		95-100	5		
201-001	4	Mixed f. g. dark grey volcanics and pink to buf	ff	100-105	5		
		rhyolite; minor quartz stringers					
105-110	0	Pink to buff and grey rhyolite with hematite		105-110	5		
		coated fractures					
2 [[]]]]]]]]]]]]]]]]]	Y	Similar to last section; minor quartz stringers	Ω.	110-115	2		
115-120	10	to last; quartz stringers with specula	rite	115-120	5		
120-125		rhyolite- less h		120-125	<i>5</i>		
125-130	0	Similar to last- hematite stringers; no visible	D	125-130	Ŋ		
		quartz					
130-135	15	Mixed buff to pink rhyolite and chloritic basi		130-135	5		
		meta volcanics; heavy red colour to fine					
135-140	Q	Pink to red, heavily hematite stained rhyolit		135-140	5		
		-		- 1	-		
140-145	5	Similar to last section; 5% quartz		140-145	5		
145-150	05	" " " ; no quartz	-	145-150	5		

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•	\supset	G. BELIK & ASSOCIATES LTD" PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	RD		
PROPERTY		Bighorn HOLE No. 84PH-28	-28		SHEET No.		
, ОЕРТН	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqd) u A		T
150-155		Similar to last section; specularite on fractur	res	150-155	5		
		2%-3% quartz					
155-160		Similar to last section; 5% quartz		155-160	2		
160-165				160-165	5		
165-170		Pink to buff brecciated rhyolite; trace quartz		165-170	2		;
-							T
170-175		Grey to buff and pink rhyolite; hematite on		170-175	5		
		fractures; 5% quartz					
175-180		Similar to last section; 1%-2% quartz		175-180	5		
. 180-185	,	" " " 10% quartz as stringer	រន	180-185	5		
		with specularite grains					
185-190				185-190	5		
190-195		=		190-195	5		
195-200		Dark green grey metavolcanics ; 2%-3% quartz		195-200	5		
200-205		Similar to last section; 3% quartz		200-205	2		
205-210		Mixed grey metavolcanics and buff rhyolite;		205-210	2		
		3%-5% quartz					
210-215		Fine grained, purplish grey metavolcanics;		210-215	5		
		trace quartz					
215-220		Similar to last section; red colour to fines;	-	215-220	5		
		trace quartz					
220-225	10	Grey to pinkish buff rhyolite, hematite on		220-225	2		
		fractures; trace quartz		·			
225-230		Similar to last section; 1%-2% quartz		225-230	5		
230-235	35	" " " ; 1%-2% quartz		230-235	5		
						_	

			NUTSSIIN	PERCUSSION DRILL RECORD	JRD).	
•)	G. BELIK & ASSOCIATES LID' PER	NATECON)				
PROPERTY.	TV	Bighorn HOLE No. B4	84PH-28		SHEET No. 4		4
H1430,	4 CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(ppb)		
235-240		Similar to last section; 2%-3% quartz		235-240	2		
540-046	- मट	" " " " " "			5		
245-250	250	Similar rhyolite; heavy hematite in fractures-		245-250	5		
		uartz					;
250-255	255			250-255	5		
255-260	260	Similar buff rhyolite; 5% quartz with clots of		255-260	5		
		specularite .					
260-265	265	Similar to last section; 3%-5% quartz		260-265	5		
265-270	270	Dark grey, metavolcanics- greenstone; 10%-15%		265-270	5		
270-275	275	Similar to last section; 3%-5% quartz					
275-280	280	" " " ; no hematite; trace					
		quartz					
280-285	285	Dark grey hornfelsed basic volcanics; no hema-					
		no quartz					
285-290	290	section;					
		quartz					
290-295	295	Similar to last section; no hematite; no quart	tz				
295-300	300	Similar to last section					
		-					
		End of hole	·				
		•		- -			
						_	

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• .)	,	•	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	ID NOISSU	RILL RECO	ORD)	
		-	ркоректу	Bighorn Drill Logs	НОН	HOLE No.	84рн-29			
•.	DIP AND	DIP AND AZIMUTH TEST Corrected	Corrected		Total Depth275 Ft.	75 Ft.		No 1		2
	Footage	Angle	Azimuth	Hole 50°	% Recovery	2567 Ft.		Logged by <u>J. M. D</u> ; Date Begun <u>Ay&</u> . <u>8</u>	Logged by J. M. Dawson. Date Begun Aug. 8/84	t
•				130 ⁰	LatitudeDeparture		Date Core	Finished [.] Stored At .	Finished Aug. 9/84 Stored At	9/84
	DEPTH	CORE LOST		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(ddd) n			
	0-20		No samples							
	20-25		Precambrian	n grey metavolcanics; hematitic-						
			fines are							
							•			
	25-30		Similar to	last section; trace quartz	•					
		•	-					•		
	30-35		=	" " ; no quartz	•					ł
	35-40		=	" " ; fragments with specu	lar					
			hematite c							
	40-45		Similar to	last section					-	
									-	
	45-50		=	-						
	50-55		Dark grey,	metavolcanics; chloritic in part;		50-55	20			
			no quartz							
	55-60		Similar to	last section; trace quartz		55-60	80			
	10 65		D 55 + 42 500			60-65	۲ ۲			
	<u>ر٥-٥٥</u>		brignt reu	Le lurit Stintat to tas book in the	<mark>r quartz-</mark>					

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)	7	G. BELIK & ASSOCIATES LTD' PER	- PERCUSSION DRILL RECORD	RILL RECO	:)	
PROPERTY_	RTY		Bighorn HOLE No. 8	84PH-29	I	SHEET No	8		2
, DEPTH	\vdash	CORE	· DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqd)uA			
65-70	+		Similar to last section; 2% quartz		65-70	5			
	-								
70-75	75		" " " ; 2%-3% quartz		70-75	2			
75-80	80		" " " ; 5%-7% quartz with	•	75-80	5			:
			included blebs of specularite						
80-85	.85		Similar to last section; 1%-2% quartz		80-85	5			
	 		-						
85 <u>0</u> 0	00		Mixed green grev Precambrian volcanics and pal	e	85-90	5			
5	2		to pink rhyolite(?); 3% quartz						
-06	90-95		Similar to last section; 3%-5% quartz		90-95	5			
95-	95-100		Dark grev volcanics: fine grained hematite		95-100	2			
			lant: 5%-7% quartz						
			1						
	201-001		Mixed buff rhyolite and dark grey Precambrian		100-105	5			
			3%-5% quartz with						
								•	
10,	105-110		Dark grey, chloritic; hornfelsed basalt(?)-		105-110	5			
				4					
						-		_	

	\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	d Noissu	RILL RECO	RD	\bigcirc
PROPERTY	I .	Bighorn HOLE No. 84P	84PH-29		SHEET No	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	
110-115		Epidote rich amphibolite and hornfelsed basalt;		211-011	2	
		trace quartz				
115-120		Similar to last section; no quartz		115-120	5	v
		= = = = =		291-091	۲ ۲	
C7T-07T		11400				
125-130				125-130	2	
130-135		-		130-135	5	
135-140				135-140	5	
140-145		" " " ; no quartz but hematite	•	140-145	5	
		common				
145-150		Similar metayolcanics; purplish grey in colour;		145-150	5	-
		heavy hematite but no quartz				
150-155		Similar to last section; no quartz		150-155	2	
155-160		Mixture of dark grey Precambrian volcanics and		155-160	5	
		buff to pink rhyolite; 1% quartz				
				_	_	_

•	\bigcirc	6. BELIK & ASSOCIATES LID', 2 PERCUSSION DRILL RECORD	RCUSSION D	RILL RECO	RD	\bigcirc	
PROPERTY		Bighorn HOLE No. 84	84PH-29		SHEET No. 4	10	5
UCEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(ppb)		
160-165		Similar to last section; 5%-7% quartz		160-165	70		
165-170		Primarily grey, basic metavolcanics; 10%-15%		165-170	80		
170-175		Similar to last section; 5% quartz		170-175	2		
175-180		Chloritic greenstone; 3% quartz		175-180	2		
180-185		Similar to last section; 1%-2% quartz		180-185	5		
185-190		" " " ; 5% quartz		185-190	ž		
			:				
190-195		" " " ; 3% quartz		190-195	Ņ		
195-200		" " " ; 3% quartz		195-200	5	•	
						-	
200-205		" " " ; 2% quartz		200-205	5		
205-210		· · · · · · · · · · · · · · · · · · ·		205-210	20		
210-215		'" " " ; 10% quartz		210-215	80		
215-220		" " " ; 1% quartz		215-220	120		
-							
220-225		Dark grey metavolcanics; 1% quartz		220-225	60		
			•		_	_	

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•	\bigcirc	G. BELIK & ASSOCIATES LID", - PERCUSSION DRILL RECORD	d NOISSUDY	RILL RECO)RD		
PROPERTY		·	84PH-29		ET No	- 10 - <u>-</u> 01 -	2
HTP20'	CORE	DESCRIPTION	SAMPLE No.	WIDTH OI SAMPLE	dqq)u		
225-230		Similar grey metavolcanic; no quartz		225-230	140		
		1		250-050	¥		
262-062				112012			
235-240		" " " ; trace quartz		235-240	5		
240-245		Return bright red; hematitic grey to purplish		240-245	100		
		grey basalt; trace quartz				•	
סויב סבט		Similar to last section: no duartz		245-250	50		
0(3-(13							
250-255		" " " ; no quartz		250-255	5		
255-260		" " " i no quartz		255-260	~		
260-265		" " " trace quartz		260-265	2		
045-270		" " " " no quartz		265-270	· 20		
		. : :					
270-275		" " " ; no quartz					
		End of hole					
		•					

	•.		6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	USSION DR	ILL RECOR		
	đ	ROPERTY	PROPERTY Bighorn Drill Logs	HOLE	HOLE No. 84PH-30	Н-30	
DIP AND	DIP AND AZIMUTH TEST Correcter	Corrected	i	Total Depth 245 Ft.	45 Ft.	Sheet No of 4	of 4
Footage	Angle	Azimuth	Hole	% Recovery	30 Ft.	Logged byJ. MDawson Date Begun Aug. 9/84 Date Finished Aug. 10/84 Core Stored At	Dawson 9/84 • 10/84
DEPTH	CORE		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		
0-20	t t	No samples					
20-25		Dark grev.	Precambrian metavolcanic and enidote	e			
(ne ne					
						•	
25-30		Similar to	last section		· ·		
30-35	=	=	=				
35-40		Dark purplish	ish grey metavolcanics				
ויס ויב		Cimilar hav	hornfalaad wolcanica & amnhiholita				
	4						
45-50		=					
			· · ·				
50-55		Similar to	last section; 2%-3% quartz				
55-60	-	=	" " ; 1% quartz				
EN EE		=					-
Co-00							
65-70		Epidote bes	bearing amphibolite; 1% quartz				
		1					-

	\supset	G. BELIK & ASSOCIATES LTD'' - PER	- PERCUSSION DRILL RECORD	RILL RECO	JRD	1		
PROPERTY_			84PH-30		SHEET No	2	-01 <u>4</u>	
, DЕРТН	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
70-75		Chloritic, epidote bearing amphibolite: trace						
								•
75-80		Hematitic, fine grained, dark grey metavolcan	ics;					
		trace quartz						:
80-85		Similar to last section; no quartz		-				
85-90		" " " ; no quartz						
-		•						
90-95		" " " ; no quartz					-	
95-100		Similar; hematite more abundant; no quartz						
100-105		Mixed dark grey volcanics and buff to pink						
			•					
105-110		Blood red return; buff and red brown rhyolite						
		no quartz						
110-115		similar to last section; 1% quartz						
115-120	0	" "'" " 1% quartz						
120-125	2	" "; " ; 1% quartz						
				_	_			

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· · ·	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	RCUSSION D	RILL REC	ORD	\bigcirc	
PROPERTY		Bighorn HOLE No. 841	84PH-30		SHEET No3	₩ 10	
DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	WIDTH of SAMPLE			
125-130		Similar to last section; 1% quartz					
130-135		Mixed buff to pink rhyolite and dark grey					
		ıbrian metavolcanics; 1% quartz					
							:
135-140		Dark green grey, very chloritic greenstone;			-		
		trace quartz					
140-145		Similar; no quartz					
		•					
145-150		Similar; trace quartz					
150-155		Much chlorite; similar greenstone; fault secti	tion??;				
155-160		Similar to last; no quartz					
			,				
160-165		Green-grey metavolcanics; no quartz					
165-170		" " " ; no quartz					
170-175		Purplish grey volcanics; trace quartz					
		-					
175-180		Similar to last section; no quartz					
180-185		" " " ; trace quartz		•			
			<u> </u>				

	()	6. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION D	RILL REC)RD	\bigcirc	
PROPERTY		Bighorn HOLE No. 84	84PH-30		SHEET No.		4
UEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			
185-190		Return changes to blood red colour, dark grey					
		hematized volcanics; trace quartz					-
190-195		Similar to last section, no quartz					
							;
195-200		" " " ; no quartz					•
200-205		" " " ; no quartz		-			
				-			
205-210		Green grey to purplish grey; hematized meta-					
		volcanics; minor stringers of epidote; no quar	b tz				
210-215		Similar to last section; no quartz	-				
215-220		" " " ; no quartz					
220-225		" " " ; no quartz					
-					,		
225-230		Return changed to green grey, similar volcanic	cs;				
		<pre>trace quarts; not epithermal-older(?)</pre>	·				
230-235		Hematitic greenstone; no quartz					
		-					
235-240		" " i no quartz					
240-245		Chloritic, hematized volcanics; no quartz					
		End of hole					

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31	Sheet No <u>1</u> of <u>8</u> Logged by <u>J. M. Dawson</u> Date Begun <u>Aug. 10/84</u> Date Finished <u>Aug. 11/84</u> Core Stored Al													
N DRILL RECORD Holf No ⁸⁴ PH-31		. WIDTH of SAMPLE												
I NOISSU	Total Depth 450 F % Recovery 2508 F Latitude Departure	SAMPLE No.				ß								
6. BELIK & ASSC Bighorn Drill	Core Size400 Angle of Hole400 ClaimSection Bearing2650	DESCRIPTION	samples	Chloritic, quartz-feldspathic gneiss	Similar with hematite on fractures	l gneiss and hornfelsed dark grey volcani	ar to last section	Chloritic, quartz-feldspathic gneiss	Hematitic and chloritic gneiss as before	o last section				
,	e Az		No s:	Chloi	Simi	Mixed	Similar	Chlo	Hema	Similar	=		=	=
\bigcirc	DiP AND AZIMUTH TEST Correcter Footage Angle /	CORE												
· · .	DIP AN Footage	DEPTH	0-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60 55-60		60-65	65-70
		·	I					ŗ				•		

	\bigcirc	6. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO)RD	\bigcirc	
PROPERTY		HOLE Nº.	84Ph-31		SHEET No. 2	6	
· / DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			
70-75		Greenish, chloritic, quartz-felspathic gneiss					
		on fractures					
75-80		Similar to last section					:
80-85							
85-90							
							ĺ
00 06		= =					
70-71			-				
00L-20		Mixed gneiss and fine grained, dark grey volca	anics				
100-105		Fine grained, purplish grey metavolcanics					
105-110		Return blood, red in colour; rock is similar to	0			·	
		ection					
		1					
110-115		Primarily chloritic, feldspathic gneiss					
115-120		Similar to last section					
120-125		-					

	6. BELIK & ASSOCIATES C.D.' - PERCUSSION DRILL RECORD	CUSSION DRII	L RECORD	:	Ċ	
PROPERTY	Bighorn Bude No. 84PH	84PH-31	- SHEET No		of 8	
DEPTH CC	CORE DESCRIPTION LOST	SAMPLE No. of	WIDTH of SAMPLE			
125-130	Similar to last section					
. 130-135						
135-140						;
140-145	Fault zone(?); much chloritic mud; rock is					
	chloritic; quartz-feldspathic gneiss					
145-150	Similar to last section					
150-155						
155-160						
160-165						
165-170						
170-175						
175-180	Water return changes to blood red colour;					
	similar chloritic feldspathic gneiss, trace					
	quartz					
					•	
180-185	Similar to last section; no quartz					

•	· · ·	\bigcirc	6. BELIK & ASSOCIATES LID", - PERCUSSION DRILL RECORD	RCUSSION D	RILL REC	ORD	1	\bigcirc	
PROPI	PROPERTY		Bighorn HOLE No. 84PH-31	.31	Ĩ	SHEET No	4		
, DEPTH	\vdash	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
185	185-190		Similar to last section						
190	190-195								
-	 								
195	195-200		Precambrian, green-grey volcanics						
200	200-205								
205	010-		Wired dark erev volcanics and the greenish-					•	
<u>}</u>			gneiss						•
210	-215		Chloritic, feldspathic gneiss						
	 N		•						
215	215-220								
220-	-225								
. 225	225-230								
				-					
23	230-235								
23	235-240		" "; trace quartz						
			-			-			
54	240-245		" "; no quartz						
24	245-250				•				
		•							

	\bigcirc	C RELIV & ACCUCIATES ITD' - PER	- PERCUSSION DRILL RECORD	RILL RECC	IRD	· C	
• •			R/LDH_31			ŭ	8
PROPERTY		BIGNOTH HOLE No. 0411	т <i>С</i> -и.	 .	SHEET No.	0	
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			
250-255		Similar chloritic, feldspathic gneiss					
255-260			·				
260-265		Biotite-feldspar gneiss; no quartz			-		:
265-270		Similar to last section; very hematitic;					
		trace quartz					
270-275		Mixed gneiss and purplish grey volcanics;					
		trace quartz					
275-280		Chloritic, feldspathic gneiss; no quartz					
280-285							
			-				
285-290							
290-295							
295-300		Purplish grey metavolcanics: no quartz					
300-305							
305-310		Mixed purplish grey volcanics and chloritic,					
		quartz-feldspathic gneiss					

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· ·	\bigcirc	G. BELIK & ASSOCIATES LID'' - PERC	- PERCUSSION DRILL RECORD	RILL RECO	ORD	\bigcirc	
PROPERTY.	Bi€	HOLE No.	-31	1	SHEET No. 6	Jo	8
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			
310-315		Fine grained, purplish grev volcanics					
315-320	=						
320-325	=						;
325-330	01	Similar to last but more hematitic					
						-	
330-335		Green grey to purplish grey volcanics				•	
335-340		Similar to last section					
340-345							
345-350	5	Water return is dark green; dark green grey	·				
		volcanics					
350-355		Similar to last section					
355-360		Purplish grey volcanics; water return red brown	Nn.				
360-365		<u>Similar to last section: trace quartz</u>					
		•					
365-370		" " " ; trace quartz					

	\bigcirc	G. BELIK & ASSOCIATES LTD' PERCUSSION	CUSSION D	DRILL RECORD	ORD	\bigcirc		
PROPERTY		Bighorn HOLE No. 84PH-31	- 31	1	SHEET No.	2 0	8. 10	
UEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
370-375		Chloritic, feldspathic gneiss						
375-380		" "; minor epidote						
380-385								:
<u> 385-390</u>		Purpiish grey. I.g. voicanics and minor gneis	ν. ·					
390-395		Similar to last; trace epidote						
395-400		Dark green, chloritic volcanics; minor epidot						
400-405		Similar to last section						
		da i Lanua						
OTT-CO-		BIALITEU, PULPITELL BIEY VOLCALL					-	
410-415		" " " " trace qua:	rtz					
415-420		Dark grey volcanics and chloritic gneiss; tra-	ee					
		quartz						
420-425		Purplish grey volcanics; minor epidote						
		-						
_							_	-

	8						-			•								
\bigcirc	10									-								
:	8							·										
RD	SHEET No																-	
NILL RECO		WIDTH of SAMPLE																
- PERCUSSION DRILL RECORD	te-1	SAMPLE No.																
	84PH-31							•	•									
G. BELIK & ASSOCIATES L.D.	Bighorn HOLE No.	DESCRIPTION	Similar dark, purplish grey volcanics	Similar to last section			•		End of Hole				•		•			
\bigcirc		CORE LOST																
•	PROPERTY	, DEPTH	425-430	430-435	435-440	440-445		445-450										

\bigcirc	\sim						\bigcirc	
- -		G. BE ркоректү ^{Bigh}	6. BELIK & ASSOCIATES LTD' PERCUSSION DRILL RECORD Bighorn Drill Logs HOLE No. 841	ILOH CUSSION D	N DRILL RECORD HOLE No. 84PH-32	RD 44 PH - 32		
Footage	DIP AND AZIMUTH TEST Corrected Corrected Corrected	H TEST Corrected e Azimuth	Core Size <u> </u>	Total Depth	45 Ft. 2560 Ft.	Sheet No <u>1</u> of 7 Logged by <u>J. M. Dawson</u> Date Begun <u>Aug. 11/84</u> Date Finished <u>Aug. 12/84</u> Core Stored At	L of 7 I. M. Dawson Nug. 11/84 Aug. 12/81	2 sen /84
DEPTH	CORE		DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			÷
0-20		No samples						
		1						
20-25		Purplish grey a	andesite(?) Tertiary					
25-30		Fine grained, g	greenish, chloritized volcanics	Ø		-	•	
					·			
30-35		Similar to last	t section			·		
35-40		-	" ; trace quartz with					
		specularite						
					-			
40-45		Similar chloritized	tized volcanics; hematite on					
		fractures'						
45-50		Similar to last	t section					
50-55		Mixed greenish	to purplish grey volcanics and					
· ·		to buff	hvolite					
55-60		Grey to buff ar	and reddish rhyolite; trace quartz	rtz				

		\bigcirc	G, BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	:		\bigcirc	
A	PROPERTY		Bighorn HOLE No. 841	84PH-32	1	ET No		0 2	
	DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqd)uA			
	60-65	rua I	Similar to last section			5			
	65-70		" " " ; 1% quartz	·	65-70	2			
						-			
	70-75		" " " ; 1% quartz		70-75	5			
	75-80		" " " " ; 1%-2% quartz with		75-80	2			
			associated specularite				•		
			1						
	80-85		Fines very red; mixed rhyolitic and green grey		80-85	<i>i</i>			
· · ·			andesite; trace quartz						
	85-90		Similar to last section, trace quartz		85-90	5			
	1								
	90-95		Mostly grey to pink rhyolite; 1% quartz	-	90-95	5			
3									
	95-100		Similar to jast section; trace quartz		95-100	2		<u>.</u>	
	100-105		" " " " ; 1%-2% quartz with		100-105	2			
			associated specular hematite	· .					
			•						
	105-110		Similar to last section; 3%-5% quartz		105-110	5			
	110-115		Similar to last section; 10%-15% quartz with		211-011	5			
			abundanti speculari te						
									-

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	\bigcirc	6. BELIK & ASSOCIATES LID" PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	RD).	
PROPERTY		Bighorn HOLE No. 84PH-32	1 -32		SHEET No.	<u> </u>	7
'DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE A	Au(ppb)		
115-120		Similar light coloured rhvolite- 10% quartz		115-120	011		
120-125		Similar to last section; 15%-20% quartz- abund	dant	120-125	750		
		specularite and minor malachite and chrysocolla	la.				
125-130		Similar to last section; 20% quartz minor		125-130	60		
		carbonate					
130-135		last section; 20% quartz- scattere	q	130-135	20		
		chrysocolla					
135-140		Similar to last section; 10% quartz		135-140	320		
				-			
140-145		" " " ; 10% quartz + scatter	þą	140-145	270		
		copper carbonates					
145-150		Similar to last section; 5% quartz		145-150	90		
150-155		Mixed grey volcanics and light coloured rhyol	te;	150-155	30		
		10% quartz- minor copper carbonates					
				1	, ,		
155-160		Pink to red-grey rhyolite; 5% quartz		155-160	2		

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	\bigcirc	G. BELIK & ASSOCIATES LID', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	ORD		\bigcirc	
PROPERTY_		Bighorn HOLE No. 841	84PH-32		SHEET No.	4	ol _ 7	
HTA30'	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	$a_{\rm z}/ton$		
160-165		ter return blood red; similar pinkish rhvoli	te:	<u>160-165</u>	1920	•040		
		5% quartz					_	
165-170	0	Mixed grey andesite(?) and buff rhyolite; quar	tz	165-170	1010	.010		
-		stockwork with specularite; 5% quartz						
120-175	2	Predominently pale pink rhyolite; 5%-8% quarts		170-175	160	• 000		
		in stockworks				•		
		•						
175-180	80	Similar to last section; 5%-8% quartz		175-180	230	.008		
180-185	85	" " " ; 1% quartz		180-185	370	.016		
			•		•			
185-190	-90	" " " ; 2%-3% quartz		185-190	650	.026		
			•					
190-195	-95	" " " ; 7%-10% quartz		190-195	580	.018		
195-200	00	" " " ; 5%-7% quartz		195-200	870	.027		
			-					
200-205	205	" " " ; 7%-10% quartz		200-205	1450	.029		
205-210	10	" " " ; 7%-10% quartz as blue		205-210	890	• 048		
		grey fragments with contained specularite(?)						
		1						
								-

	\bigcirc	G. RFIIK & ASSOCIATES LTD'	PERCUSSION DRILL RECORD	RILL RECO)RD		•
		Bishorn 84PH-32	32		SHEET No	<u> </u>	7
PROPERTY				MINTU		Au	
VDEPTH	CORE	DESCRIPTION	SAMPLE No.	of SAMPLE	Au(ppb)	(oz/ton)	
210-215	LUSI	Fine grained purplish grey volcanics: no		210-215	5020	.084	
		tz					
		1					
215-220		Similar to last section; heavily hematized;		215-220	5260	CUL.	
		no quartz					
						032	
220-225		White to buff bleached rhyolite; 3% quartz		220-225	1030	200	
		4		225-230	750	.016	
225-230		2/2					
				230-235	230	.009	
230-235							
046-250		" " " ; heavy hematite strin	lgers;	235-240	240	.007	
		5% quartz: trace malachite					
240-245		Similar to last section; 5% quartz		240-245	Lost s	ample	
						000	
245-250		" " " ; 5% quartz- minor cop	copter	245-250	620	000.	
		carbonates				•	
8		PC		250-255	130		
250-255	5	Similar rhyolite; 2% quartz					
1		1		255-260	09 0		
72-562	002						
260-26	65	Mixed green grey andesite and pale buff to re	red .	260-265	5 5		
	 	rhyolite; 1% quartz					
		1		_	-	-	-

and the second second

· · ·	\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO)RD	\bigcirc
PROPERTY		Bighorn HOLE No. 84P	84PH-32		SHEET No. 6	of 7
, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au (ppb)	
265-270		Primarily white to pale grey rhyolite- 5% quar	rtz	265-270	2	
270-275		Purplish grey volcanics; 2% quartz		270-275	5	
1						
275-280		" " ; 2%-4% quartz		275-280	5	
280-285		Mixed grey andesite and rhyolite; 1%-2% quart	2	280-285	2	
					(
285-290		Grey green; foliated greenstone; no quartz		285-290	041	
200-205		Similar to last section: no quartz		290-295	2	
			-			
295-300		" " " ; trace quartz		295-300	650	
300-305		" " " ; trace quartz				
		•				
305-310		Purplish grey volcanics; abundant hematite; no				
		quartz				
·						
310-315		Similar to last section; no quartz				
1						
315-320						
		-				
320-325						
325-330						
					_	_

•	2					÷														
	. jo							•												
1																				
RD :	SHEET No.																-			
RILL RECO		WIDTH of SAMPLE		·							-					-			•	
CUSSION D	I-32	SAMPLE No.											•							
6. BELIK & ASSOCIATES LID", - PERCUSSION DRILL RECORD	Bighorn HOLE No. 84PH-32	DESCRIPTION	Similar to last section; no quartz	Similar f. g. purplish to dark green grey	Precambrian(?) volcanics; no quartz	-	Similar to last section	End of hole									•			
·		CORE LOST		9			- U					-								
	PROPÉRTY_	, DEPTH	330-335	335-340		•	340-345			-										

· ·	. E	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs HOLE No. 84PH-	JSSION DRILL RECORD HOLE No. 84PH-33	
DIP AND	DIP AND AZIMUTH TEST Corrected cootage Angle A	Core Size	Total Depth	Sheet No <u>1</u> of <u>6</u> Logged by <u>Ja M. Dawson</u>
		Claim	Elev. Collar	Date Begun ALE. 12/94 Date Finished ALE. 13/84 Core Stored At
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No. WIDTH	
0-20		No samples		
20-25		Pale buff to pink, thinly laminated tuff		
25-30		Similar to last section		•
30-35		Green to purplish grey andesite		
35-40		Grey green, fine grained andesite		
40-45		Similar to last section		
45-50		" " " ; traces of hematite on fractures		
50-55		Green to purplish grey andesite		
55-60		Similar to last section		
60-65		Mixed green grey andesite and pale buff to grey rhyolite		

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•		G. BELIK & ASSOCIATES LID PERCUSSION DRILL RECORD	CUSSION DR	ILL RECO	ß	\bigcirc	
PROPERTY	RTY	Bighorn HOLE No. 84P	84PH-33		SHEET No. 2	ol 6	
, DEPTH	TH CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			
65-70	-70	Pinkish buff to grey rhyolite or dacite					
70-75	75	Similar to last section; thinly flow banded					
. 75-80	80	Similar to last section; trace quartz					÷
80-	-85	Buff and grey to yellowish rhyolite; 1% quart					
		and some specularite					
		•					
85-	5-90	Similar to last section; trace quartz					
90-95	-95	Mixed buff to red rhyolite and grey green					
		andesite; no quartz					
95-	95-100	Grey green, chloritic andesite; no quartz					
100-	105	Similar to last section					
105-	05-110	Purplish grey andesite or dacite					
110-	10-115	Similar to last section					
115-	15-120						
				•			
L							

	\bigcirc	G. BELIK & ASSOCIATES LID', - PER	- PERCUSSION DRILL RECORD	RILL REC	ORD	:	\bigcirc	
PROPERTY		Bighorn HOLE No. 84	84PH-33	1	SHEET No.		10	6
,DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqq)uA			
120-125		Similar to last section; trace quartz						
125-130		Green grey, chloritized andesite, trace quart	N					
130-135		Green grev to purplish grev andesite: no quartz		130-135	~		ł	
135-140		Similar to last section		135-140	2			
140-145		" " " " ; specularite on fract	uresi	140-145	2			
1	,		•					
145-150		Blood-red return; buff to red brown dacite;		145-150	2			
		15%-20% quartz; trace malachite						
150-155		Green andesite or dacite; weak hematization;		150-155	2			
		10% quartz						
155-160		Green chloritized andesite, much chloritic		155-160	. 2			
		<pre>mud-fault(?); 10% quartz; minor hematite</pre>						
160-165		Purplish grey andesite; 10% quartz		160-165	2			
		-						
		•					_	

		G. RELIK & ASSOCIATES LTD.' - PERC	PERCUSSION DRILL RECORD	L RECOR	9	
-PROPERTY		HOLE No.	84PH-33		SHEET No. 4	ol 6
'DEPTH	CORE	DESCRIPTION	SAMPLE No. of S	WIDTH of SAMPLE AI	Au(ppb	
165-170		Similar to last section; 5% quartz	165	165-170	.20	
201-001		" " " ; 5%-8% quartz	170-	-175	150	
175-180		Heavy hematite; return brick red; purplish.	175	-180	570	
		grey andesite or dacite; 5% quartz				
אאר_חאר		Wired nurnlish grev andesite and orange brown	. 180	180-185	230	
COT-OOT		ite(?);.3% quartz				
185-190		Red to brown dacite or rhyolite; 3% quartz	18	185-190	01	
190-195		" " " " " " ; 5%-8% quartz	19	90-195	80	
			•			
195-200		Similar to last section; 3% quartz	. 19	195-200	180	
200-205		Green grey and buff red dacite(?); 5% quartz	20	200-205	190	
			20	5-210	260	
012-502						
210-215		" " " ; 8% quartz	210	0-215	230	
215-220		Purplish'grey andesite; trace quartz	12	-5-220	170	
220-225		" .i" : trace quartz	22	220-225	180	
		-				
						-

•	\bigcirc	G. BELIK & ASSOCIATES C.J.' – PER	- PERCUSSION DRILL RECORD	RILL RECO	JRD	\bigcirc	
PROPERTY.		Bighorn HOLE No. 84	84PH-33		SHEET No. 5) 10	6
, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	(dqd) u f		
225-230		Similar to last section; trace quartz		225-230	50		
230-235		" " " 15% quartz		230-235	130		
				-			
235-240	0	Return changes to red brown; similar purplish grey andesite; 20% quartz		235-240	580		
240-245		Similar to last section; 25%-30% quartz with		240-245	290		
		much specularite					
245-250	0	Grey to buff rhyolite; 5% quartz		245-250	160		
250-255	5	Similar to last section; 10% quartz with		250-255	70		
		abundant specularite					
				·			
255-260	0	Mixed light grey rhyolite and dark grey green		255-260	180		
		andesite; 3% quartz					
260-265	27	Mostly grey to buff and red rhyolite; 2% quar	tz	260-265	60		
265-270	0	Green grev to purplish red andesite: 3%-5%		265-270	250		
270-275	,5	Purplish grey andesite; 3%-5% quartz		270-275	180		
				•			
-	_				_		

	\bigcirc		-			•		
٠	$\left(\right)$	G. BELIK & ASSOCIATES LID' PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	ORD)		
PROPERTY		Bighorn HOLE No. 841	84PH-33		SHEET No	6 01	6	
HT430'	CORE	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)			
275-280		Similar to last section; 5%-8% quartz		275-280	680			
		. maithen wether for		280-285	Ugot			
C07-007		3			20/1			
								:
285-290		Similar to last section; 15%-20% quartz		285-290	220			
290-295		Return is olive green; grey green andesite;		290-295	190			
		3% quartz .						
		•						
295-300		Similar to last section; trace quartz		295-300	. 06			
			• •					
300-305		" " " ; no quartz						
305-310	0							
			-					
310-315	5	Chloritic green grey andesite						
		1	·					
315-320	0							
		Fnd of hole						
		1						
				•				
								-

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	PR(G	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD PROPERTY Bighorn Drill Logs HOLE No. 84PH-	KCUSSION DRILL RECORD HOLE No. 84PH-34	RECORI 84PH) - 34		
DIP AND	DIP AND AZIMUTH TEST	ST		274	+		v ,	
Footage	Corrected Angle A.	Azimuth	Core Size	l otal Depth <u>2562</u> Ft. % Recovery <u>2562</u> Ft. Elev. Collar <u>2562</u> Ft. Latitude <u>Departure</u>	• +- 	Sheet No <u>t</u> of De Logged by J. M. De Date Begun Aug. 14/ Date Finished Aug. 1	J. M. Dawson Aug. 14/84 Aug. 15/84	.¤
DEPTH	CORE			SAMPLE No. WIDTH	H E			
0-20		No samples						
20-25	Grey	green	andesi te					
25-30	=	=						
30-35	=	=				•		
35-40	CiM	Mixed grey g	green andesite and pink to buff					
	rhj	rhyolite						
40-45	Pir	nkish buff	Pinkish buff rhyolite			,		
		•						
45-50		=	=					
50-55	=	=	=					
55-60	=	=	2					
60-65	:	Ξ	-					
								Τ
65-70		=	=					

	-	\bigcirc	6. BELIK & ASSOCIATES LID" PER	CUSSION E	- PERCUSSION DRILL RECORD)RD		
۵. i	PROPERTY		Bighorn HOLE No. 8	84PH-34		SHEET No.	2 ol	2
	DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)		
	70-75		Mixed buff to pink rhyolite and grey-green					
1			andesite; minor specularite					
_1	75-80		Predominently purplish grev andesite: much		75-80	20		
			te quartz					i
	80-85		Similar to last section; trace quartz		80-85	40		
	85-90		" " " ; 1% quartz		85-90	2		
ž	90-95		" " " ; trace quartz		90-95	5		
`								
	95-100		Red to buff and grey hematized rhyolite; trace		95-100	2		
			ensive hematite					
	100-105		Similar to last section; 1% quartz		100-105	2		
	105-110		" " " ; 1%-2% quartz		105-110	ر ب		
		-						
	110-115		Buff to pinkish, highly altered; kaolinized		110-115	5		
			rhyolite; trace quartz					
•								
	115-120		Similar to last section; trace quartz		115-120	5		
• .		•						
	120-125		Mixed buff to pink rhyolite and purplish grey		120-125	40		
			andesite; trace quartz					

	\bigcirc	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION D	RILL RECO	JRD -	\bigcirc	
PROPERTY_		Bighorn HOLE No. 841	84PH-34		ET No	Jo	5
UEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)		
125-130		Similar to last section; 1%-2% quartz		125-130	30		
130-135		Primarily buff-white altered rhyolite; 10%		130-135	017		
		quartz; trace crysocolla					
							:
135-140		Mixed purplish grey andesite and white to buff		135-140	620		T
		bleached rhyolite; 5% quartz					
140-145	5	Dark brown water return; dark purplish grey		140-145	750		
		andesite; 20% quartz with blebs of specularite					
145-150	0	Similar to last section; 15% quartz; minor	÷	145-150	180		
		malachite					
150-155	5	Similar to last section; 15% quartz		150-155	30		
		•					
155-160	0	" " " ; 5% quartz		155-160	25		
160-165	5	" " " " ; 3%-5% quartz		160-165	5		
			•				
165-170	0	Green grey to purplish grey andesite; 2%-3%		165-170	75		
		quartz					
		-					
170-175	5	Similar to last section; 3% quartz		170-175	250		
					_		

		\bigcirc	G. BFLIK & ASSOCIATES LTD' PERC	PERCUSSION DRILL RECORD	RILL RECO	RD		\bigcirc	
ā	PROPERTY			84PH-34		SHEET No.	4	10	5
· L_	, DEPTH	CORE	DESCRIPTION	SAMPLE No.	WIDTH OI SAMPLE	(dqq)uA			
_1	175-180		Red grey to purplish grey andesite; 5% quartz		175-180	275			
	28L 08L		Dark red dacite or rhvolite: 8%-10% quartz		180-185	0†			
<u>-11</u>	Cot-001								
	185-190		Similar to last section; 8%-10% quartz		185-190	15			:
	190-195		" " " " ; 10%-15% quartz		190-195	35			
								-	
	195-200		brown (002-66T	0 4 T			
-	200-205		Similar to last section; 40%-50% quartz		200-205	140			
	205-210		Grey green to purplish grey andesite; 20%-25%		205-210	100			
			quartz						
	210-215		Similar to last section; 60%-70% quartz; trace	, w	210-215	800			
			lla						
			· · · · · · · · · · · · · · · · · · ·						
	215-220		Purplish grey andesite; trace quartz		215-220	150			
	220-225		Dark purplish grey to yellow brown altered		220-225	Lost a	ample		
			site;'1% quartz						
•						_			

	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION D	RILL REC	ORD		
PROPERTY_		Bighorn HOLE No. 841	46-H448		ET No	10	5
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)		
225-230		Greenish brown to altered yellowish brown ande	si te:	225-230	80		
		3% quartz					
230-235		Greenish brown andesite; trace quartz					
235-240		Green grev to red brown andesite. 1% quarts					:
240-245		Similar to last section; trace quartz					
245-250		" " " ; no quartz .					
250-255		Purplish grey andesite; no quartz					
255-260		-		-			
260-265		Grey green andesite; no quartz					
265-270		Precambrian chloritic greenstone and amphiboli	te :				
		no quartz					
270-275		Similar to last section		•			
		End of hole	-				
		Note: 245-250 bag was not used so all samples					
		are advanced 5 feet from that section					
		thus 270-275 is in bag marked 275-280					

		. •	ВРВОРЕВТУ	6. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD Bighorn Drill Logs HOLE No. 84PH	IDOH IG NOISSION DI	N DRILL RECORD HOLE No. 84PH-35	D H-35		
•	DIP AND	DIP AND AZIMUTH TEST Correcte	rh TEST Corrected		Total Depth220	20 Ft.	Sheet NoJ	of t	-
•	Footage	Angle	Azimuth	Angle of Hole4.5° Claim	% Recovery 2498 Ft. Elev. Collar 2498 Ft. Latitude Departure	ry 2498 Ft.	Logged by J. M. Dawson Date Begun Aug. 15/84 Date Finished Aug. 16/84 Core Stored At	M. Dawson ug. 15/84 Aug. 16/84	1800 /84 /84
	DEPTH	CORE	-0-115 Ft.	logged Description	SAMPLE No.	WIDTH of SAMPLE			
	0-20		samples	taken					
								-	
	62-02		rale grey to	o buil and pink hematitic rhyolite	te				
•	25-30		Similar to	last section			•		
						· ·			
	30-35		Mixed chalk	chalk white altered rhyolite and purplish	ish		•		
			grey andesite	te - or bleached andesite					
	35-40		Similar to]	last section.					
	40-45.	-	-						
			•						
11	45-50	1	Predominently	ly pinkish to purplish grey andesi	ite				
<i>*</i> .			bleached in	part to chalky white kaolir	rock				
	50-55		Green grey t	to purplish grey andesite; trace					
			quartz						
•			•						
	55-60	01	Similar purp	purplish grey andesite and hard red	- 4				
		O	dacite or rh	te; trace quar					•

- :	\bigcirc	G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	CUSSION DR	ILL RECO	JRD			
PROPERTY_		Bighorn HOLE No. 84PH-35	35	1	SHEET No	~	ol 4	
HLGERTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				
60-65		Pinkish buff to pale red hematized rhyolite-						
		trace quartz						
65-70		Hematitic pink and buff rhyolite						l
								:
70-75		Very hematitic pinkish buff to red rhyblite						
75-80		Similar to last section				•		
		•			•			
80-85								
85-90		Buff to pinkish grey and red rhyolite						
90-95		Similar to last section; very hematitic						
95-100		Similar to last section; trace quartz			•			
			-					
100-105		Similar rock- sampling problem- blockage-						
		fault??? very little return						
	•							
105-110		Similar problem- sampler broken; very hard lar	ge					
		pieces of rhyolite						
		•						
				•				

	\bigcirc	C DCI IV . ACCACIATEC ITM' - PERCUISSTON DRILL RECORD	U NOISSID	RTLL RECO)RD	\bigcirc	
		Bighorn Willing Abovenie 195 - 84PH-35	-35		CHEFT No 3	ja Ja	4
PHOPERIY_							
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)		
5TT-0TT.		No sample return- ?? problem with sampler					
		115' - 220' Logged by G. Belik					
115-130		Pink dacitic tuff, minor vein quartz					
130-155		Medium to dark pink dacitic tuff; 1%-2% vein		150-155	5		i
		quartz					
155-160		70% green diabase		155-160	270		
		25% red hematitic dacite					
		1%-2% quartz					
7							
160-170		Hard, siliceous, purple (hematized) felsic;		160-165	500		
				165-170	20		
170-175		Maroon (hematized) and dark green (chloritized	1)	170-175	330		
		unit; 5%-10% hematitic quartz					
175-180		Variably hematized dacite (pink to maroon);		175-180	011		
		chloritic sections; 15% quartz and hematitic q	uartz				
		•					
180-190		Dark maroon volcanic; chloritic fractures		180-185	60		
	·	5% quartz		185-190	40		

		G. BELIK & ASSOCIATES LTD', - PERCUSSION DRILL RECORD	RCUSSION D	RILL RECO	ORD :			
PROPERTY_		Bighorn HOLE No. 84	84PH-35		ET No	t+0	4	
, DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb			
		44 j (0)			offe			
002-067		(purple color) intervals; 5% quartz		195-200	110			
-			•					
200-205		Clay-rich gouge zone; most fragments altered		200-205	100		_	;
		diabase						
			·					
205-220		Precambrian greenschist						
		-						
				-				
		•						
				·				
		•						
		•••						
				•				



Roddy Resources

2805-44TH AVENUE • VERNON, BRITISH COLUMBIA VIT 7P4 • (604) 542-1534

November 16, 1984

FOR IMMEDIATE RELEASE

GOLD MINERALIZATION REPORTED IN 28 OF 35 ROTARY DRILL HOLES

Gold mineralization ranging to 0.410 ounces per ton over extensive widths has been reported in 28 of 35 rotary drill holes testing Roddy Resources Inc. (ROD-V) Bighorn gold property located in Maricopa County, Arizona.

The company reported today that indicated commercial grade intersections were encountered in widths up to 205 feet with a tested strike zone extending approximately 4,500 feet in length. All assaying was undertaken at a Vancouver laboratory with several samples independently re-checked, the company reported.

Underground sampling is to be carried out in the next phase of exploration of the property and is to commence immediately, the company said.

The recently completed drill program appears to confirm the presence of a large, gold-bearing epithermal system that originally had been outlined by surface sampling, Roddy president, Walter Cullum reported.

The zone extends 4,500 feet in length and is indicated to be as much as 200 feet wide. Mineralization is known to extend to at least 600 feet in depth in some places, he said.

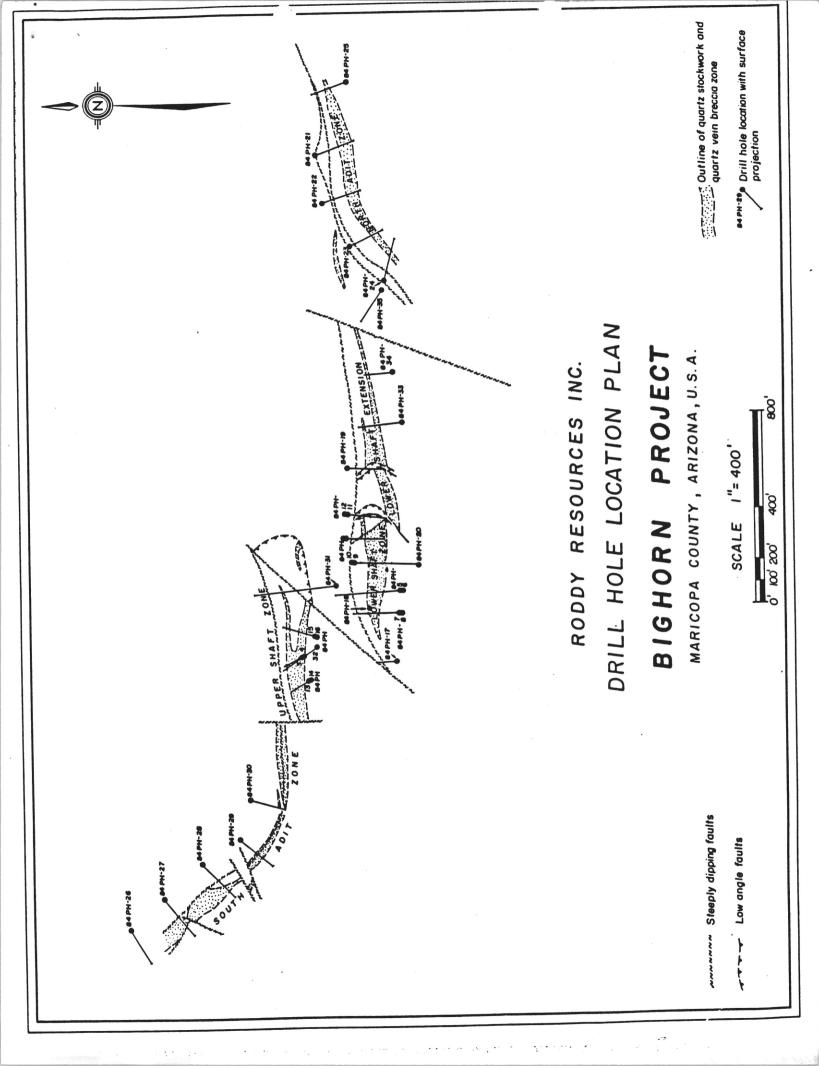
The property originally was developed for its possible potential as a copper producer in the early 1900's with sporadic further minor copper exploration attempts in the mid 1940's and 1950's and again in 1971.

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RODDY RESOURCES INC. 1984 DRILL HOLE SUMMARY BIGHORN PROJECT MARICOPA COUNTY, ARIZONA

Hole #	Interval	Core Length	Oz/ton Gold (uncut)
84PH-1	70-120	50 Ft.	0.116 (incl. 20' 0.186)
2	140-185	45 Ft.	0.012
3	5-75	70 Ft.	.075 (incl. 5' .410)
4	0-120	120 Ft.	.092 (incl. 30' 0.179 & 15' 0.226)
5	70-90	20 Ft.	.031
	165-205	40 Ft.	.070
6	120-135	15 Ft.	.054
	230-245	15 Ft.	.044
7	130-150	20 Ft.	.030
8	Weakly Mineralized		
9	85-190	105 Ft.	.020
10	150-220	70 Ft.	.055 (incl. 15' 0.117)
	or 135-225	90 Ft.	.047
11	120-170	50 Ft.	.037
12	195-250	55 Ft.	.016
13	60-65	5 Ft.	.096
14	90-130	40 Ft.	.017
15	100-125	25 Ft.	.047
16	90-175	85 Ft.	.020 .019*
	175-225	50 Ft.	.177 .170* (incl. 15' .246 & 10' .309)
	or 90-225	135 Ft.	.078
17	No Mineralization		
18	10-50	40 Ft.	.058
	50-110	60 Ft.	.022
	or 10-110	100 Ft.	.037
19	105-170	65 Ft.	.020 .019*
	170-220	50 Ft.	.092. (incl. 20' 0.171)
	220-310	90 Ft.	.027
	or 105-310	205 Ft.	.041
20	390-410	20 Ft.	.094
	410-425	15 Ft.	.032
	or 390-425	35 Ft.	.068
21	200-245	45 Ft.	.037 .041*
22	240-265	25 Ft.	.038
23	230-270	40 Ft.	.036
24	220-235	15 Ft.	.061
	or 19 0- 245	55 Ft.	.028
25	85-115	30 Ft.	.021
	185-210	25 Ft.	.022
26-31	Missed zone, faulted of		
32	205-225	20 Ft.	.067
	or 160-230	70 Ft.	.033
33-35	Weakly mineralized over		

* Check assays at a different laboratory.



The current gold-oriented program follows an extensive surface exploration project. Results prompted an independent engineer to report that the property had "an excellent possibility for the delineation of several million tons of gold-bearing material in the 0.05-0.10 ounces per ton range which might be mined by low-cost, bulk mining methods."

Under terms of an acquisition agreement, Roddy can earn up to a 100 percent working interest, subject to a five percent net smelter return that commences two years after the start of commercial production and is limited to \$1.5 million.

The company also has reported that a recently completed exploration program on its 50 percent owned Kusk property in east central British Columbia has confirmed the property has potential for hosting large zones of stratabound gold mineralization.

The prospect is adjacent to the south east of the "Frasergold" gold discovery being developed jointly by Amoco Canada and Eureka Resources Inc.

In a November 2 report to the company, an independent consulting geologist states "the host unit for the gold mineralization on the Frasergold property has been extended into the Kusk claim area and a large zone of anomalous gold values in soils, associated with the unit, has been identified."

Cullum said the anomalous zone extends for approximately one mile in length and one-half mile in width.

An aggressive exploration program, including preliminary diamond drill testing of the property, is planned for the 1985 field season.

- 30 -

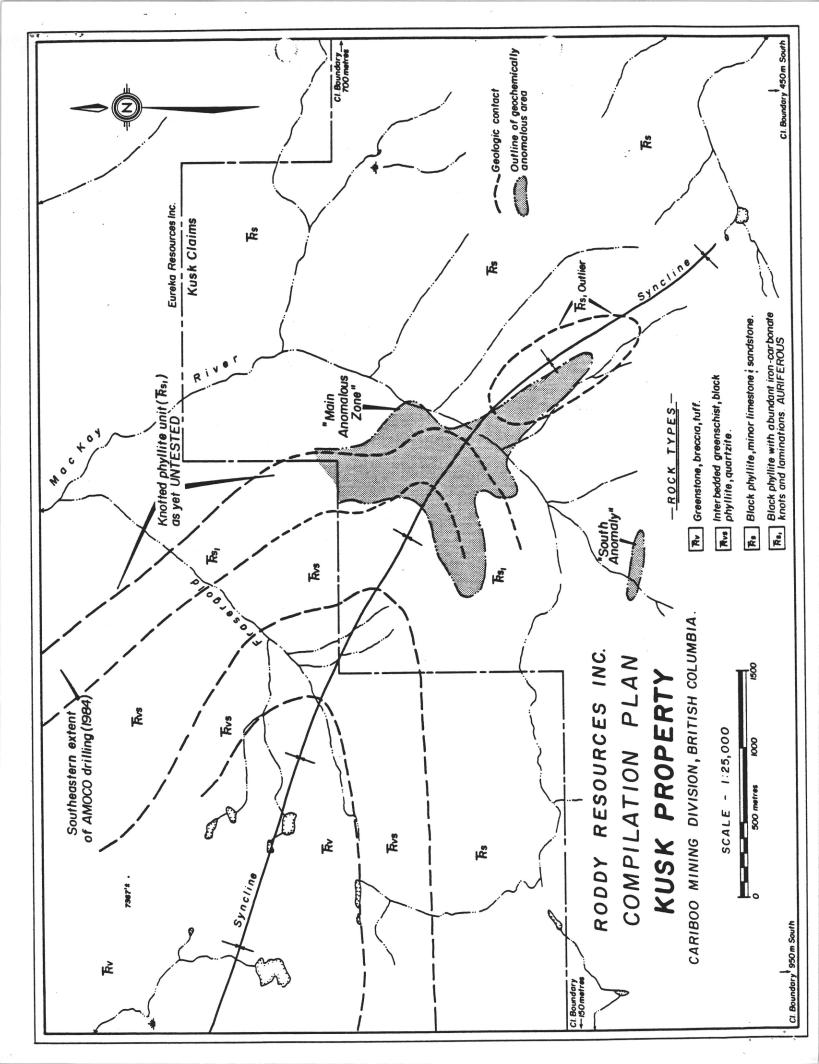
Contact: Walter Cullum (604) 271-5413 or (604) 542-1534

On Behalf of the Board

The Vancouver Stock Exchange has neither approved nor disapproved the information fained herein.

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copy: Barry Finlayson Lawrence & aw

NIRVANA OIL & GAS LTD. & RODDY RESOURCES INC.

1020-475 Howe Street, Vancouver, B.C. V6C 2B3

Symbol: NVN (VSE) ROD (VSE)

September 17, 1984

JOINT PRESS RELEASE

Nirvana and Roddy confirm extension of the Frasergold anomaly on their Kusk Property

Preliminary results of a geochemical program on the Kusk claims held jointly by Nirvana Oil & Gas Ltd. and Roddy Resources Inc. confirm a gold anomaly which extends from the boundary of the Eureka/Amoco property for approximately one and one-half (1½) kilometres into the Nirvana/Roddy Kusk claims. This anomaly is on strike with the Eureka/Amoco Frasergold mineralization and is open to the south.

Nirvana/Roddy will commence immediately to do an additional 30 kilometre sampling program over a 4 kilometre length to extend the sampling to the south and west. It is expected that additional results will be available in approximately 2 weeks.

The Directors of Nirvana and Roddy are extremely pleased to learn that their Kusk claims are not only adjoining the Eureka/Amoco property, but show a definite anomaly on strike with the Frasergold anomaly. With this information, the results of the Eureka/ Amoco drilling program are anxiously awaited.

Elden Schorn.

Director, Nirvana Oil & Gas Ltd.

Mr. Schorn has prepared this news release on behalf of the Company and accepts full responsibility for its contents. The Vancouver Stock Exchange has neither approved nor disapproved the information contained herein. REPORT

- on the -

BIGHORN PROPERTY MARICOPA COUNTY ARIZONA, U.S.A.

- for -

RODDY RESOURCES INC., 2500 THREE BENTALL CENTRE, 595 BURRARD STREET,

VANCOUVER, B.C.

Prepared by:

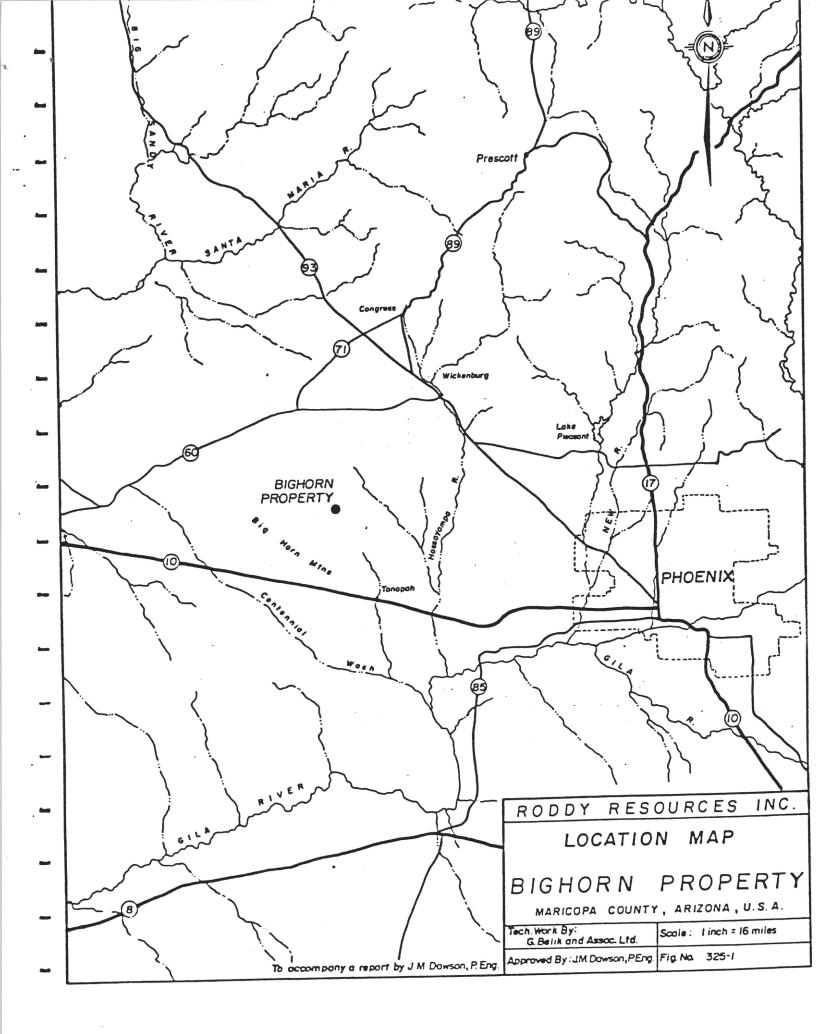
KERR, DAWSÓN & ASSOCIATES LTD.,

#206 - 310 NICOLA STREET,

KAMLOOPS, B.C. V2C 2P5

.

J.M. DAWSON, P. ENG. March 23, 1984.



INTRODUCTION:

This report has been requested by the directors of Roddy Resources Inc. It reviews the exploration and development history of the subject property, discusses its geology, mineralization and exploration potential, and recommends a programme of exploration to test the continuity and grades of mineralization at depth.

A series of maps showing location, property, surface geology and mineralization as well as data on recent soil and rock sampling are included in the text of this report.

SUMMARY AND CONCLUSIONS:

1. The Bighorn property consists of 10 contiguous, patented claims aggregating about 200 acres, located in moderate terrain in southwestern Arizona, U.S.A. and is easily accessible by road from either Wickenburg or Phoenix.

2. The property was probably discovered in the late 1800's and was explored by a number of tunnels, pits and shafts all of which were excavated before 1920. The property was leased during the 1940's and about 4500 tons of dump ore was shipped to local smelters. Minor exploration and shipping of dump material took place in the 1950's. The Louisiana Land and Exploration Company acquired the property in 1971 and carried out an exploration programme oriented towards the discovery of a porphyry copper deposit. This work consisted of surface mapping and sampling, geophysics and the drilling of 4 deep holes. Roddy Resources Inc. acquired the property in late 1983 and carried out a detailed evaluation for gold.

3. The property is underlain by a sequence of Tertiary volcanics which unconformably overlie Precambrian basement. A linear and perhaps arcuate fracture zone is the locus for the intrusion of diabase dikes and an extensive zone of epithermal quartz veining and stockworks. Later faulting has locally disrupted the continuity of the zone of quartz veining.

4. Gold and copper mineralization is associated with the areas of epithermal quartz veining. The mineralized zone is now dislocated by local faulting but is essentially tabular, strikes northerly and stands approximately vertical. It is approximately 4500 feet long, averages about 50 to 60 feet in width and has been tested by old shafts to depths of between 500 and 600 feet. Visible mineralization consists of extensive limonite, hematite and scattered secondary copper minerals in epithermal quartz veins, breccias and stockworks.

5. Extensive surface sampling has confirmed the presence of large areas of significant gold mineralization. There is an excellent potential for developing several million tons of gold bearing material in the 0.05 to 0.10 oz/ton range which might be mined by low cost open pit methods. A detailed programme of drilling to fully test this potential is recommended.

PROPERTY:

The property consists of 10 contiguous patented claims known as the Furlough #1 - #10 inclusive and aggregating about 200 acres. (see figure 325-2) The claims were surveyed in 1916 and brought to patent in 1966. They are registered by Patent No. 772925 recorded on February 15, 1966 and shown on Mineral Survey No. 3286 on file in the Bureau of Land Management, Phoenix, Arizona.

LOCATION AND ACCESS:

The property is located in Maricopa County, southwestern Arizona about 55 miles west-northwest of Phoenix, the county seat. The town of Wickenburg, the nearest major center is located about 25 miles northeast of the claims.

The claim block occupies parts of section 1, T 4N, R 8W; section 6, T 4N, R 7W, and section 31, T 5N, R 7W. The geographic center of the property is located at 33° 43' north and 113° 01.5' west.

The property is reached from Phoenix by driving northwest on U.S. Highway 93 for a distance of about 55 miles to Wickenburg, thence 22 miles southwest along the Vulture Mine road and a further 10 miles west along an unimproved dirt road to the foothills of the Big Horn Mountains. All parts of the property are easily accessible on foot.

PHYSIOGRAPHY AND VEGETATION:

The claim block covers a north-northwesterly trending ridge in an area of typical badlands topography known as the Big Horn Mountains. Rocky ridges and dry sandy washes predominate in an area which is essentially a desert. Relief is moderate to gentle on the property with elevations ranging from 2300 to 2800 feet (a.s.l.)

Rainfall in this region is minimal, consequently when there are periodic rainstorms in the winter and spring, water does not penetrate the hardpan and flash floods are common. Water for local farming and livestock is generated through deep wells.

Vegetation is typical of the southwestern desert and consists of scattered thorny brush, palo verde trees and various types of cacti.