## REPORT ON

WORK PROGRAM, CHU PROSPECT

June 15 - September 5, 1982

AA GROUP OF MINERAL CLAIMS
(Chu 25-36, 41-52, Ako, Nech, Nech非1, Nech\#2, AA\#1, AA\#2, AA\#3)

## Located 6.5 km West of West End of Chutanli Lake

OMINECA MINING DIVISION, B.C.


October, 1982

Revised April 21, 1983

## Claims owned by: <br> Asarco Incorporated and <br> Armco Mineral Exploration Ltd.

## CONTENTS

Page
Introduction ..... 1
Location ..... 1
Previous Work ..... 1
Accomodation and Personnel ..... 2
Work Program ..... 2
Diamond Drill Hole $⿰ \sharp 82-1$ - Core Log Summary ..... 3
Diamond Drill Hole \#82-2 - Core Log Summary ..... 5
ILLUSTRATIONS
Figure 1. Location (revised April 21, 1983)
follows p. 2
Figure 2. Geological Section $1+40 \mathrm{~W}$
Figure 3. Geological Section 4+20W
folded in pocket
folded in pocket
Appendix IStatement of Expenditures
Appendix II
Statement of Qualifications
Appendix II(a) (added April 21, 1983)Drill Core Assays, Copper and Molybdenite
Appendix II(b) (added April 21, 1983)
Drill Core Assays, Tungstate, Silver and Gold

## Introduction

The Chu property is a molybdenite prospect that is located at the south end of the Nechako Range in Omineca Mining Division, British Columbia. Discovered in 1969, it is owned jointly by Armco Mineral Exploration Ltd, and Asarco Inc. An exploration program of diamond drilling and geological mapping, followed by reclamation work, was funded and directed by Armco Mineral Exploration Ltd. in the period June 1 to September 5, 1982.

Diamond drilling totalled $798 \mathrm{~m}\left(2617^{\prime}\right)$ in two holes. Camp facilities and boxes of drill core were removed from the property. Expenditures exceeded $\$ 100,000$. This report describes the program of work and provides documentation on expenditures in excess of $\$ 33,200$. A statement of exploration expenditures filed on September 7, 1982, applied the latter sum as assessment work to all Chu property mineral claims.

Geological core log summaries for holes $\# 82-1$ and $\# 82-2$ are included as "part: of this report. Appendix $I$. is a statement of expenditures and Appendix II is a statement of the writer's qualifications.

## Location

The Chu mineral property is located at the south end of the Nechako Range in the Intermontane physiographic province of British Columbia. Approximate geographical co-ordinates are $53021^{\prime} \mathrm{N}, 124^{\circ} 37^{\prime} \mathrm{W}$. It is about 6.5 km west of Chutanli Lake and 100 km southwest of the village of Vanderhoof. With the exception of the Kluscus-Ootsa Forestry Road that passes 3 km south of the Chu area, there are neither nearby facilities nor improvements.

## Previous Work

Immediately following its discovery in 1969 , the Chu property was explored by Asarco and Rio Tinto Canadian Exploration Ltd. Asarco completed additional geochemical surveys in 1977. Armco commenced work by building an access road in 1979 and carried out diamond drilling campaigns in 1980 and 1981. Late in 1981 Armco conducted technical surveys over much of the property. The 1982 program of diamond drilling was directed to the main molybdenite zone revealed by previous work.

A comprehensive description of geological features, as well as logistics, was included in an assessment report submitted to the British Columbia Ministry of Energy, Mines and Petroleum Resources in October 1981. The interested reader will find information in that report that is not repeated in this account of the somewhat smaller 1982 field program.

Accomodations and Personnel
A centrally located five building tent camp that was constructed in 1981 to service drilling and other work at Chu property was re－occupied during sumer 1982．Personnel included four diamond drillers， a cook，a core sampler and a geologist／manager．Following completion of work，four buildings were removed and the site reclaimed．

## Work Program

Two diamond drill holes of NQ－size diameter and aggregate length 798 m （2617＇）were cored in the period June 15 through July 7， 1982. The contractor，G and D Diamond Drilling Co．Ltd．of Surrey and Williams Lake，B．C．，provided a Model Super 38 diamond drill，a small crawler tractor and all necessarytools and ancillary equipment，plus personnel．

The work program was planned and supervised by Philip I．Conley，P．Eng．， manager，and Erik Ostensoe，senior geologist，of Armco＇s staff．Camp maintenance and core sampling duties were ably handled by Pieter Kos who had similar duties during the 1981 field program．

Erik Ostensoe prepared geological＂logs＂of drill cores and determined sampling procedures．Upon completion of field work he prepared vertical sections to illustrate results obtained and compiled technical reports． In addition he removed all drill core and most of the buildings from the property．Cores were transported to the Vancouver area and placed in safe dry storage．Forage crop seeds were spread on drill sites，campsite and road sides to stabilize soils and encourage regeneration：of natural vegetation．All work was completed by early September．

1982 drilling was confined to the eastern portion of the zone of molybdenite mineralization that was explored during 1980 and 1981. Drill hole $\# 82-1$ was intended to fill a＂data gap＂between Sections $0+00$ and $2+80 \mathrm{~W}$ ．Drill hole $\# 82-2$ ，on Section $4+20 \mathrm{~W}$ ，which under cut drill hole $⿰ ⿰ 三 丨 ⿰ 丨 三 一$ 81－2 by about 80 m ，was planned to test the continuation at depth of an attractive molybdenite zone that was intersected in hole \＃81－2．（Figure 1）．

Reclamation work was necessitated by reclamation guidelines and cores were removed as a precaution against destruction by natural hazards and vandalism and in order to facilitate access in the future． With the exception of one tent frame structure and the stoutly constructed core storage rack，the camp was completely removed or destroyed．


FIGURE 1. Location of Drill Holes \$82-1 and 82-2. Scale: 1:2500.

Diamond Drill Hole 82-1 - Core Log Summary

| Location | $10,092 \mathrm{~N}$ <br>  <br> Elevation <br> $9,883 \mathrm{E}$ <br> $1,380 \mathrm{~m}$ | not surveyed - relative to collar DDH $80-1$ |
| :--- | ---: | :---: |
|  |  | at $10,000 \mathrm{~N}$ |
|  |  |  |
|  |  |  |
|  | elev. $10,000 \mathrm{E}$ |  |
|  |  |  |


| NQ size core <br> Collar bearing $214^{\circ}$ azimuth Collar inclination - $47^{\circ} 30^{\prime}$ |  |
| :---: | :---: |
|  |  |
| $\begin{aligned} & 0-4.3 \mathrm{~m} \\ & \left(0-14^{\prime}\right) \end{aligned}$ | Overburden and broken bedrock not recovered. |
| $\begin{aligned} & 4.3 \mathrm{~m}-82.5 \mathrm{~m} \\ & \left(14^{\prime}-270.5^{\prime}\right) \end{aligned}$ | Andesite with porphyritic texture and variable appearances due to mottled effects of alteration which include biotitization, epidotization, chloritization and varying amounts of iron sulphides. Occasional narrow quartz veins. Foliation is weakly developed at $45^{\circ}$ to core axis. |
| $\begin{aligned} & 82.5 \mathrm{~m}-100.2 \mathrm{~m} \\ & \left(270.5^{\prime}-328.7^{\prime}\right) \end{aligned}$ | Dense, dark, biotitized andesite with alteration (siliceous and chloritic, minor carbonate veinlets); may be a foliated lapilli tuff horizon. From 94.2m (309') rock in increasingly fine grained and more strongly foliated though not sheared. Distinctive disseminated bright green epidote. |
| $\begin{aligned} & 100.2 \mathrm{~m}-117.3 \mathrm{~m} \\ & \left(385^{\prime}-397.3^{\prime}\right) \end{aligned}$ | At 100.2 m (328.7 ${ }^{\circ}$ ) contact with a very siliceous, whitish-green coloured, very fine grained quartzite or rhyolite formation. May be a rhyolite crystal tuff unit. Crushed interval at $106.7 \mathrm{~m}-106.37 \mathrm{~m}$ (348'-349') with gougy calcite and disseminated grains. |
| 117.3m-121.1m | Transitional zone between siliceous formation and reddish biotitized argillite unit. Contains a series of black basalt dykes with widths of 0.14 m to 2 m ( $0.45^{\prime}$ to $6.55^{\prime}$ ) and contacts at $35^{\circ}$ to $45^{\circ}$ to core axis. |
| 121.1m-369.4m | Reddish coloured biotitized argillite with stockwork of quartz veinlets. Small amounts of $\mathrm{MoS}_{2}$. Dominant stockwork veinlets parallel foliation. Rock is monotonous except for occasional narrow crushed/pulverized sections. Molybdenite is fine grained and is obscured by folia. Sections 151.18m - 151.73m (496' - 497.8') is strongly sheared, even schistose, and accompanying biotite is coarse grained, dark brown. From 152.40m - 155.45m ( $500^{\prime}-510^{\prime}$ ) fracturing is at $65^{\circ}$ to $70^{\circ}$ to core axis and quartz veinlets pinch and widen and are ptygmatically crenulated. Quartz veinlet stockwork intensifies from 161.54 m to 167.64 m ( $530^{\prime}$ to $550^{\prime}$ ). |
|  | 175m - 175.73m (574' - 576.55') altered porphyritic quartz monzonite dyke. Contacts $45^{\circ}$ to $50^{\circ}$ to core axis. White feldspar phenocrysts up to 1.5 cm in diameter are sparcely scattered. |

181.66m - 182.09m (596' - 597.4') mud seam of crushed argillite and vein quartz with $\mathrm{MoS}_{2}$ flakes. Followed 182m - 182.9m (597' - 600') by very pale green chloritic alteration of argillite formation - likely retrograde alteration from biotite. This type of chloritic alteration occurs sporadically over narrow widths, commonly with flame textures where chlorite and biotite types meet. QM dykes at 198m - 198.3m (649.5' - 650.5'), 202.45m 206.47m (664.2' - 677.4'), 212.75m - 213.21m (698' - 699.5').

At about 222.5 m (730') rock becomes much darker brown in contrast to reddish brown, and texture becomes more dense and featureless than the foliated texture encountered above. Molybdenite is more obvious in the denser formation, forms seams, occurs with pyrite and epidote in quartz veins. Continues to 234.7 m (770') then reverts to foliated formation. At 241.46 m to 241.52 m (792.2' to $792.4^{\prime}$ ) quartz occurs with much pyrite and strongly magnetic pyrrhotite plus molybdenite. Quartz veinlet stockwork is variable in intensity (ie. number) and "strength" (ie. widths of individual veinlets). From 305.2m to 305.5 m (1001.3' to 1002.35') a mixed zone of pegmatite-like vein quartz and porphyritic fine grained grey dyke material followed at 305.52 m ( $1002.35^{\prime}$ ) by feldspar porphyritic quartz monzonite dyke that continues to 307.1m (1007.6'). From $307.1 m$ ( $1007.6^{\prime}$ ) biotite altered argillite continues monotonously with occasional narrow QM dykes, "crackle" altered sections and mixed chlorite/biotite alteration. Crushed but not strongly sheared section occurs from 326.9 m to 327.6 m ( $1072.5^{\prime}$ to $1074.8^{\prime}$ ) - $\mathrm{MoS}_{2}$ is sheared along with the silicate rock. From 336.8 m to 338.7 m (1105' to 1111.3') quartz monzonite dyke with large, partially resorbed, feldspar phenocrysts. From 360m to 360.4 m ( $1181^{\prime}$ to $1182.5^{\prime}$ ) quartz breccia with fine grained pyrite, possibly a case of complete silicification that approaches quartz monzonization. 369.4m (1212')- end of hole.

Diamond Drill Hole \#82-2 - Core Log Summary

| Location | 10,373.35N |  |
| :---: | :---: | :---: |
|  | 9,726.74E | not surveyed - relative to collar DDH 80-1 |
| Elevation | 1,399.45m | at $10,000 \mathrm{~N}$ |
|  |  | 10,000E |
|  |  | elev. 1384.2m |

NQ size core
Collar bearing $210^{\circ}$ azimuth Collar inclination - $52^{\circ} 30^{\prime}$
Reference: Geological Section $4+20 \mathrm{~W}$, folded in pocket of this report
$0-3.66 \mathrm{~m} \quad$ Overburden and broken bedrock not recovered.
(0-12')
$3.66 m-133.2 m$ (12' - 437.2')
133.2m-428.2m
(437.2' - 1405')

Dark green/dark purple coloured feldspar porphyry with tiny fractures filled by chlorite and very fine grained pyrite. Cut by occasional quartz veins and pale green bleaching-type alteration. Feldspar phenocrysts are 2 mm in diameter and very pale green to ivory white coloured. Narrow portions are strongly altered to granitic texture. Quartz-pyrite sections also contain few sphalerite grains, pyrrhotite and chalcopyrite. At $30.48 \mathrm{~m}-33.53 \mathrm{~m}$ ( $100^{\prime}$ - $110^{\prime}$ ) similar to above but has coarse fragmental texture and may be a lapilli tuff unit.

47m-49m (154.3' - 160.8') basalt dyke with narrow chilled contacts at $45^{\circ}$ to core axis.

Carbonate alteration is present though weakly developed from 49m (160.8'). At 55.3m (181.5') rock becomes strongly biotitized and very dark, almost black, in colour. Irregular sections with fragmental textures may reflect a volcanic breccia origin.
From 68.3m ( $224^{\prime}$ ) rock colour changes from mainly greenish-grey to mainly purplish-grey. 91.65m to 94.95 m ( $300.7^{\prime}$ to $311.5^{\prime}$ ) strongly porphyritic texture with crowded feldspar phenocrysts up to 3 mm in diameter. Carbonate alteration is moderately strong from 96.9 m to 103.6 m ( $318^{\prime}$ to $340^{\prime}$ ). 104.4 m (342.6') marks the start of a section of oxidized broken core with much gouge, clay alteration, bleaching, iron staining and faulting that persists to 133.2m (437.2').

At 133.2 m (437.2') contact between broken andesite formation and black strongly sheared/foliated shale formation, including broken sections with rust coatings on fractures.
At 143.2 m (470') prominent foliation (possible bedding) at $42^{\circ}$ to core axis. Core becomes more solid below 145.5m (477.5') and is crosscut by narrow carbonate veinlets. Weak traces of biotitization appear at 161.5m (530'). Trace of $\mathrm{MoS}_{2}$ at 165.9 m (544.2'). Mixed black and brown colour patterned argillite occurs from 173.7 m to 183 m ( $570^{\prime}$ to $60-$ ). Quartz veinlets
increase in number and width also. $\mathrm{MoS}_{2}$ becomes noticeable at about 189m (620') and strengthens along with increase in biotitization and silicification to 219.5 m (720') where quartz veins are up to 4 cm wide. Basalt dyke 223.3m - 223.9m (732.6' - 734.6'). Exact transition from shale to hornfels is difficult to determine; similarly re quartz veinlet stockwork. "Crackle"-type alteration occurs over narrow widths from 250.15 m (820.7') and narrow ( 0.5 m ) quartz monzonite dykes are irregularly present. The section 274.5 m to 278 m ( $900.5^{\prime}$ to $911.9^{\prime}$ ) exhibits much crushing and gouge though rock is reasonably competent.
290.5m - 294m (953' - 964.5') - quartz monzonite dyke.
308.6m - 309.5m (1012.5' - 1015.4') - quartz monzonite dyke.
311.9m - 312.2m (1023.2' - 1024.2') - quartz monzonite dyke.

Stronger $\mathrm{MoS}_{2}$ mineralization from 317m (1040') occurs in brown stockworked hornfelsed argillite. Wide quartz veins are present though irregular in occurrence and over printed on a persistent fine quartz veinlet stockwork. Dominant alteration is biotitization but chloritization is also prominent. Occasional narrow sections contain $>0.2 \% \mathrm{MoS}_{2}$.
The above formation with $\mathrm{MoS}_{2}$ mineralization continues to 428.2 m ( 1405 ') which is end of hole.


Total Expenditures incurred in excess of \$79,557.39

Erik A. Ostensoe, B.Sc., Geologist

| Education: | Completed B.Sc. (Honours) course at University of British Columiba, Vancouver, B.C. in May, 1960. <br> Completed course requirements for M.Sc. degree at Queen's University, Kingston, Ontario in 1966. Thesis incomplete. |
| :---: | :---: |
| Professional Associations: | ```Member: Canadian Institute of Mining and Metallurgy; Association of Exploration Geochemists; Geological Association of Canada.``` |
| Work History: | May 1960 through August 1964 - employed by Newmont Mining Corporation of Canada Ltd, as geologist in Granduc Mine area, Stewart, B.C. under direction of D.M. Cannon, P.Eng., and G.W.H. Norman, Ph.D., P.Eng. <br> Summer 1965 - employed as geologist by Mount Billings Venture, a southern Yukon prospecting syndicate. <br> Summer 1966 - employed as geologist by Scud Venture, a northwestern British Columbia prospecting syndicate. <br> October 1966 to June 1978 - employed by Hecla Mining Company of Canada Ltd. and Granduc Mines, Limited (N.P.L.) as exploration supervisor and chief geologist, respectively, under the direction of P.I. Conley, P. Eng. <br> August to November, 1978 - employed on contract basis by Union Oil Company of Canada,Ltd. as geologist in charge of field program at Beaverdell, B.C. <br> April 1979 to September 1982 - employed by Armco Mineral Exploration Limited as geologist, assigned to projects in north-central British Columbia and Yukon under the direction of P.I. Conley, P.Eng. |

## APPENDIX II(a)

## Drill Core Assays Copper and Molyboenite ( $\mathrm{HOS}_{2}$ )

## CES PROJECT - MECRARO RANGE, B.C. <br> DLAYONI DRILI TOLE 82-1

Siat: June 20, 1982
Finish: June 27, 1982
Core size: NQ
Core Fecovery: +98\%
SEFFie: Split Core
Directioned Survey:
Collar
$61 \mathrm{~m}(200 \mathrm{ft}$.
$146 \mathrm{~m}(480 \mathrm{ft})$
$235 \mathrm{~m}(785 \mathrm{ft}$.
$309 \mathrm{~m}(1015 \mathrm{ft})$.

IDCization:
Eearigg: 2140 (compess)
Letgth: 369.4 ( 1212 feet
$\frac{\operatorname{sear} \sin 8}{2140^{\circ}}$
-
-
-

$$
\begin{aligned}
& \frac{\text { Incianation }}{-47^{6} 30^{\prime}} \\
& \begin{array}{cccccc}
-500 & \text { (by acid bottle } & \text { Etch) } \\
-480 & " 1 & " & " & " " & " 1 \\
-450 & " 1 & " & " 1 & " 1 & " 1 \\
-440 & 30^{\prime} & " & " & " & " 1
\end{array}
\end{aligned}
$$

| $\begin{aligned} & \text { Skyple } \\ & \text { Nimber } \end{aligned}$ | Heie interval |  |  | Copper | Muyberife |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | (feer) | (Dfters) |  | Sper cedt) | Cper (eor) |
| 45001 | 14-20 | 4.3 - | - 6.1 | 0.03 | 0.003 |
| 45002 | 20-30 | 6.1 - | - 9.1 | 0.02 | <0.001 |
| 45003 | $30-40$ | 9.1 - | - 12.2 | 0.01 | 0.004 |
| 45004 | 40-50 | 12.2 - | - 15.2 | 0.02 | c 0.001 |
| 45005 | $50-60$ | 15.2 ${ }^{\text {2 }}$ - | - 18.3 | 0.02 | < 0.001 |
| 45006 | 60-70 | 18.3- | - 21.3 | 0.04 | < 0.001 |
| 45007 | 70-80 | 21.3- | - 24.4 | 0.04 | 0.007 |
| 45008 | 80-90 | $24.4=$ | - 27.4 | 0.03 | 0.007 |
| 45009 | 90-100 | 27.4 | 30.5 | 0.04 | 0.003 |
| 45010 | 100-110 | $30.5=$ | - 33.5 | 0.02 | < 0.001 |
| 45011 | 110-120 | 33.5 | 36.6 | 0.02 | 0.018 |
| 45012 | 120-130 | $36.6=$ | - $\quad 39.6$ | 0.04 | 0.049 |
| 45013 | 130-140 | 39.6 - | - 42.7 | 0.02 | 0.005 |
| 45014 | 140-250 | 42.7 | - 45.7 | 0.02 | 0.006 |
| 45015 | 150-160 | 45.7 | - 48.8 | 0.02 | 0.009 |
| 45016 | 160-170 | 48.8 | 51.8 | 0.03 | 0.003 |
| 45017 | 170-180 | 51.8 | - 54.9 | 0.04 | 0.005 |
| 45018 | 180-190 | 54.9 | - 57.9 | 0.03 | 0.003 |
| 45019 | 190-200 | 57.9 | - 61.0 | 0.03 | 0.025 |
| 45020 | 200-210 | 61.0 | - 64.0 | 0.02 | 0.008 |
| 45021 | 210-220 | 64.0 | - 67.0 | 0.03 | 0.029 |
| 45022 | 220-230 | 67.0 | - 70.1 | 0.02 | 0.008 |
| 45023 | 230-240 | 70.1 | - 73.1 | 0.03 | 0.031 |
| 45024 | 240-250 | 73.1 | - 76.2 | 0.03 | 0.034 |
| 45025 | 250-260 | 76.2 | - 79.2 | 0.03 | 0.048 |
| 45026 | 260-270 | 79.2 | - 82.3 | 0.03 | 0.016 |
| 45027 | 270-280 | 82.3 | - 85.3 | 0.05 | 0.011 |
| 45028 | 280-290 | 85.3 | - 88.4 | 0.06 | 0.013 |
| 45029 | 290-300 | 88.4 | - 91.4 | 0.03 | 0.003 |
| 45030 | $300-310$ | 91.4 | - 96.5 | 0.03 | 0.005 |
| 45031 | $310-320$ | 94.5 | - 97.5 | 0.06 | 0.003 |
| 45032 | $320-330$ | 97.5 | - 100.6 | 0.05 | 0.012 |
| 45033 | $330-340$ | 100.6 | - 103.6 | 0.05 | 0.013 |


| $\begin{aligned} & \text { Serifie } \\ & \text { Eurber } \end{aligned}$ | (feet) | Crval (meters) | Copper (per cent) | Molybsenite (per ceor) |
| :---: | :---: | :---: | :---: | :---: |
| 45034 | 340-350 | 103.6-106.7 | 0.06 | 0.006 |
| 45035 | 350-360 | 106.7-109.7 | 0.07 | 0.013 |
| 45036 | 360-370 | 109.7-112.8 | 0.06 | 0.022 |
| 45037 | 370-380 | 112.8-115.8 | 0.04 | 0.007 |
| 45038 | 380-390 | 115.8-118.9 | 0.03 | 0.023 |
| 45039 | 390-400 | 118.9-121.9 | 0.01 | 0.008 |
| 45040 | 400-410 | $121.9-125.0$ | 0.02 | 0.030 |
| 45041 | 410-420 | 125.0-128.0 | 0.03 | 0.042 |
| 45042 | 420-430 | $128.0-131.0$ | 0.03 | 0.048 |
| 45043 | 430-440 | 132.0-134.1 | 0.02 | 0.056 |
| 45044 | 440-450 | 134.1-137.1 | 0.02 | 0.022 |
| 45045 | 450-460 | 137.1-140.2 | 0.01 | 0.016 |
| 45046 | $460-470$ | $140.2-143.2$ | 0.01 | 0.024 |
| 45047 | 470-480 | 243.2-146.2 | 0.02 | 0.056 |
| 45048 | 480-490 | 146.2-149.3 | 0.02 | 0.032 |
| 45049 | 490-500 | 149.3-152.4 | 0.02 | 0.033 |
| 45050 | 500-510 | $152.4=155.4$ | 0.02 | 0.035 |
| 45051 | 510-520 | 155.4-158.5 | 0.01 | 0.024 |
| 45052 | $520-530$ | 158.5-161.5 | 0.01 | 0.038 |
| 45053 | 530-540 | 161.5-164.6 | 0.01 | 0.040 |
| 45054 | 540-550 | 164.6-167.6 | 0.01 | 0.051 |
| 45055 | 550-560 | 167.6-170.7 | 0.01 | 0.033 |
| 45056 | 560-570 | 170.7-173.7 | 0.02 | 0.066 |
| 45057 | $570-580$ | 173.7-176.8 | $<0.01$ | 0.063 |
| 45058 | 580-590 | 176.8-179.8 | 0.03 | 0.075 |
| 45059 | 590-600 | 179.8-182.9 | 0.03 | 0.100 |
| 45060 | 600-610 | 182.9-185.9 | 0.01 | 0.082 |
| 45061 | 610-620 | 185.9-189.0 | 0.01 | 0.020 |
| 45062 | 620-630 | 189.0-192.0 | 0.02 | 0.167 |
| 45063 | 630-640 | $192.0=195.0$ | 0.02 | 0.100 |
| 45064 | 640-650 | 195.0-198.1 | 0.04 | 0.076 |
| 45065 | $650-660$ | 198.1-201.2 | 0.01 | 0.031 |
| 45066 | 660-670 | 201.2-204.2 | $<0.01$ | 0.013 |
| 45067 | 670-680 | 204.2-207.3 | $<0.01$ | 0.007 |
| 45068 | 680-690 | 207.3-210.3 | 0.02 | 0.047 |
| 45069 | 690-700 | $210.3-213.3$ | 0.02 | 0.048 |
| 45070 | 700-710 | 213.3-216.4 | 0.02 | 0.042 |
| 45071 | 710-720 | 216.4-219.4 | 0.03 | 0.038 |
| 45072 | 720-730 | 219.4-222.5 | 0.02 | 0.064 |
| 45073 | $730-740$ | 222.5-225.5 | 0.03 | 0.063 |
| 45074 | 740-750 | 225.5-228.6 | 0.04 | 0.117 |
| 45075 | 750-760 | 228.6-231.6 | 0.03 | 0.058 |
| 45076 | 760-770 | 231.6-234.7 | 0.03 | 0.040 |
| 45077 | 770-780 | 234.7-237.7 | 0.03 | 0.046 |
| 45078 | 780-790 | 237.7-240.8 | 0.03 | 0.030 |
| 45079 | 790-800 | 240.8-243.8 | 0.03 | 0.038 |
| 45080 | $800-810$ | 243.8-246.9 | 0.02 | 0.083 |
| 45081 | 820-820 | 246.9-249.9 | 0.03 | 0.050 |


| Snyid | $(f+e t)^{\text {mode }}$ | (seiera) | $\begin{aligned} & \text { Copper } \\ & \text { Ser cemi) } \end{aligned}$ | Wiybsens: fper cot |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | CHEMEX | General Testis |
| 45082 | E20-E30 | 249.9-253.0 | 0.05 | 0.030 |  |
| 45083 | $830-10$ | $253.0=256.0$ | 0.03 | 0.043 |  |
| 45084 | E40-E50 | 256.0-259.0 | 0.03 | 0.112 |  |
| 45085 | 150-660 | $259.0=262.1$ | 0.03 | 0.018 |  |
| 45086 | E60-E70 | $262.1-265.2$ | 0.02 | 0.037 |  |
| 45087 | E70-E80. | 263.2-268.2 | 0.03 | 0.029 |  |
| 45088 | 880-890 | $268.2=271.3$ | 0.02 | 0.042 |  |
| 45089 | 190-900 | $271.3=274.3$ | 0.03 | 0.048 |  |
| 45090 | 900-910 | $274.3-277.4$ | 0.02 | 0.037 |  |
| 45091 | 910-920 | $277.4-280.4$ | 0.03 | 0.060 |  |
| 45092 | 920-930 | 280.4-283.4 | 0.04 | 0,120 |  |
| 45093 | $930-540$ | $283.4-286.5$ | 0.06 | 0.038 |  |
| 45094 | 960-950 | 286.5-289.3 | 0.02 | 0.038 |  |
| 45095 | $950-960$ | 289.5-292.6 | 0.02 | 0.038 |  |
| 45096 | 960-970 | $292.6-295.6$ | 0.02 | 0.054 | 0.050 |
| 45097 | 970-980 | 295.6-238.7 | 0.02 | 0.087 | 0.098 |
| 45098 | 980-990 | 258.7-301.8 | 0.02 | 0.050 | 0.038 |
| 45099 | 990-2000 | 301.8-304.8 | 0.02 | 0.060 | 0.053 |
| 45100 | 2000-2010 | 304.8-307.8 | 0.03 | 0.038 | 0.048 |
| 45101 | 1020-2020 | $307.8-310.9$ | 0.03 | 0.054 | 0.048 |
| 45102 | 1020-1030 | $310.9-323.9$ | 0.05 | 0.072 | 0.085 |
| 45103 | 1030-1040 | $313.8-317.0$ | 0.02 | 0.051 | 0.060 |
| 45204 | 1040-1030 | 317.0-320.0 | 0.01 | 0.078 | 0.082 |
| 45105 | 2050-2060 | $320.0-323.1$ | 0.03 | 0.038 | 0.043 |
| 45106 | 1060-1070 | $323.1-326.1$ | 0.03 | 0.050 |  |
| 45107 | 2070-3080 | $326.1-329.2$ | 0.02 | 0.071 |  |
| 45108 | 1080-1090 | 329.2-332.2 | 0.02 | 0.048 |  |
| 45109 | 2090-1100 | $332.2-335.3$ | $<0.01$ | 0.013 |  |
| 45110 | 1100-1110 | $335.3-338.3$ | 0.02 | 0.051 |  |
| 45111 | 1110-1120 | $338.3-341.4$ | 0.02 | 0.069 |  |
| 45112 | 1120-1130 | 341.4-344.4 | 0.02 | 0.064 |  |
| 45113 | $1130-1140$ | 344.4-347.5 | 0.03 | 0.180 |  |
| 45114 | 1140-1150 | 347.5-350.5 | 0.02 | 0.117 |  |
| 45115 | $1150-1160$ | $350.5-353.6$ | 0.02 | 0.125 |  |
| 45116 | $1160-1170$ | 353.6-356.6 | 0.01 | 0.062 |  |
| 45117 | 1170-1180 | $356.6-359.7$ | 0.03 | 0.054 |  |
| 45118 | 1180-1190 | $359.7-362.7$ | 0.03 | 0.112 |  |
| 45119 | $3190-1200$ | 362.7-365.8 | 0.02 | 0.062 |  |
| 45120 | 1200-1210 | $365.8-368.8$ | 0.02 | 0.064 |  |
| 45121 | 1210-1212 | 368.8-371.9 | 0.02 | 0.057 |  |

## CES PROJECT - MECHARO RANGE, B.C. <br> DLAMOND DRILI BDLE 82-2

Start: June 28, 1982
Finich: July 8, 1982
Core Size:NQ
Core kecovery: $+98 \%$
Semple: Split Core

Co-ordinetes: $10,373.35 \mathrm{~N}$ (Not surveyed) 9.726.74 E. " " "

Elevation: $1,399.45 \mathrm{~m}$ " "
Inclination:
Sear1ng:210 (compass)
Length: 428.2 w (1405 feet)
Searing
$210^{\circ}$ compass
-

Ipcilination


| $\begin{aligned} & \text { Samflo } \\ & \text { Nurber } \end{aligned}$ | Foit interval |  | corper Sper cent) | Molybjeni (per cen |
| :---: | :---: | :---: | :---: | :---: |
|  | (feet) | (meters) |  |  |
|  | 12-550 | 3.66-167.64 | Not | pled |
| 45122 | 550-560 | 167.64-170.7 | 0.01 | 0.005 |
| 45123 | $5.10-570$ | 170.7-173.7 | 0.01 | 0.002 |
| 45124 | 570-580 | 173.7-176.8 | <0.01 | 0.006 |
| 45125 | 5E0-590 | 176.8-179.8 | $<0.01$ | 0.005 |
| 45126 | $590-600$ | $179.8-382.9$ | 0.01 | 0.008 |
| 45127 | 600-610 | 182.9- 585.9 | 0.01 | 0.008 |
| 45128 | 610-620 | 185.8-389.0 | 0.01 | 0.005 |
| 45129 | $620-630$ | 189.0-192.0 | 0.02 | 0.011 |
| 45130 | 630-640 | 152.0.- 295.0 | 0.02 | 0.013 |
| 45131 | 660-630 | 195.0-198.1 | 0.03 | 0.024 |
| 45132 | 650-660 | 198.1-201.2 | 0.04 | 0.019 |
| 45133 | $660-670$ | 201.2-204.2 | 0.01 | 0.018 |
| 45134 | 670-680 | 204.2-207.3 | 0.02 | 0.037 |
| 45135 | 680-690 | $207.3-210.3$ | 0.02 | 0.044 |
| 45136 | 690-700 | $220.3-213.3$ | 0.03 | 0.040 |
| 45137 | 700-710 | 213.3-216.4 | 0.02 | 0.017 |
| 45138 | 720-720 | 216.4-219.4 | 0.03 | 0.048 |
| 45139 | 720-730 | 219.4-222.5 | 0.05 | 0.069 |
| 45140 | 730-740 | 222.5-225.5 | 0.16 | 0.030 |
| 45141 | $760-750$ | 225.5-228.6 | 0.05 | 0.025 |
| 45142 | 730-760 | 228.6-231.6 | 0.02 | 0.033 |
| 45143 | 760-790 | 231.6-234.7 | 0.03 | 0.050 |
| 45144 | 770-780 | 234.7-237.7 | 0.02 | 0.020 |
| 45145 | 780-790 | 237.7-260.8 | 0.03 | 0.027 |
| 45146 | 790-800 | 260.8-243.8 | 0.02 | 0.034 |
| 45147 | 100-810 | 243.8-246.9 | 0.03 | 0.042 |
| 45148 | 120-820 | 266.9-269.9 | 0.03 | 0.045 |



| $\begin{aligned} & \text { Fanje } \\ & \text { Finer } \end{aligned}$ | sfeet) | Lerval (mects) | $\begin{aligned} & \text { Copper } \\ & \text { (per }(\operatorname{cop}) \end{aligned}$ | Malybseate (per cest) |
| :---: | :---: | :---: | :---: | :---: |
| 45198 | 1310-1320 | 396.2-402.3 | 0.04 | 0.170 |
| 45199 | 1320-1330 | 402.3-405.4 | 0.03 | 0.055 |
| 45200 | 1330-1340 | 405.4-408.4 | 0.01 | 0.057 |
| 45201 | $1360-1350$ | 408.4-411.5 | 0.01 | 0.065 |
| 45202 | 1350-1360 | $411.5=414.5$ | 0.02 | 0.064 |
| 45203 | $1360-1370$ | $414.5-417.6$ | 0.01 | 0.070 |
| 45204 | 1370-1380 | 417.t-420.6 | 0.02 | 0.157 |
| 45205 | 1380-1390 | 420.6-423.7 | 0.01 | 0.066 |
| 45206 | 1390-1400 | 423.7-426.7 | 0.02 | 0.075 |
| 45207 | 1400-1405 | 62t.7-429.8 | 0.02 | 0.167 |

## APPENDIX II(b)

## Drill Core Assays

Tungstate $\left(\mathrm{HO}_{3}\right)$, Silver and Gold

Note: Added to the report April 21, 1983 per request of Chief Gold Commissioner

212 OROOKSBANK AVE NODTM VANCOUVER. B.C CANADA
v7J 2C9
TELFPHONE (EOK) De4-0221 TELEX: 0.3.52597

## CERTIFICATE DF ASSAY

TC: ARMCD FINERAL EXPLORATION LTD..
$1780-1055$ W. HASTINCS STREET VANCOUVER. B.C. VGE $2 E 9$

CERT : AE212972-001-1
INVOICE : 18212972
DATE : 2-SEP-BZ
P.C. : NONE




