 SUBJECT:Dusty Mac Drill Proposal

Will test 1988 targets in the grid area. 33000 m at $\$ 70 / \mathrm{m}$ all in costs $=\$ 231,000$

| Hole \# Azimuth | $\underline{\text { Hip }}$ | Line | Station | Depth |  |
| :--- | :---: | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{P}_{1}$ | $225^{\circ}$ | $-45^{\circ}$ | $0+40 \mathrm{~S}$ | $0+40 \mathrm{E}$ | 150 m |


| $\mathrm{P}_{2}$ | $225^{\circ}$ | $-75^{\circ}$ | $0+50 \mathrm{~N}$ | $1+00 \mathrm{E}$ | 400 m |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{P}_{3}$ | $225^{\circ}$ | $-75^{\circ}$ | $1+50 \mathrm{~N}$ | $1+30 \mathrm{E}$ | 400 m |
| $\mathrm{P}_{4}$ | $225^{\circ}$ | $-45^{\circ}$ | $3+00 \mathrm{~N}$ | $1+00 \mathrm{E}$ | 200 m |
| $\mathrm{P}_{5}$ | $225^{\circ}$ | $-60^{\circ}$ | $5+50 \mathrm{~N}$ | $1+00 \mathrm{E}$ | 300 m |

$\mathrm{P}_{6} \quad 225^{\circ} \quad-45^{\circ} \quad 10+00 \mathrm{~N} \quad 2+00 \mathrm{~W} \quad 180 \mathrm{~m}$

| $\mathrm{P}_{7}$ | $225^{\circ}$ | $-45^{\circ}$ | $11+00 \mathrm{~N}$ | $2+10 \mathrm{~W}$ |
| :--- | :--- | :--- | :--- | :--- |$\quad 170 \mathrm{~m}$


| $\mathrm{P}_{8}$ | $225^{\circ}$ | $-45^{\circ}$ | $8+50 \mathrm{~N}$ | $3+50 \mathrm{~W}$ | 200 m |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{P}_{9}$ | $225^{\circ}$ | $-45^{\circ}$ | $7+00 \mathrm{~N}$ | $1+80 \mathrm{~W}$ | 200 m |


| $\mathrm{P}_{10}$ | $180^{\circ}$ | $-60^{\circ}$ | $4+50 \mathrm{~N}$ | $3+00 \mathrm{~W}$ | 200 m |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathrm{P}_{11}$ | $270^{\circ}$ | $-60^{\circ}$ | $0+20 \mathrm{~N}$ | $3+80 \mathrm{~W}$ | 200 m |
| $\mathrm{P}_{12}$ | $225^{\circ}$ | $-45^{\circ}$ | $1+50 \mathrm{~N}$ | $0+50 \mathrm{~W}$ | 300 m |

200 m reserved for drilling A zone showing - contingent on results.
$\mathrm{P}_{13} \quad 225^{\circ} \quad-45^{\circ} \quad 2+00 \mathrm{~S} \quad 1+70 \mathrm{~W} \quad 200 \mathrm{~m}$.

## DUSTY MAC TREND

$P_{1} \quad$-will test the remaining ore to the south of the pit and its relationship with the major faults to the west of the pit area. This hole will also allow us to refine the location of $P_{2}$ and $P_{3}$.
$P_{2} \quad$-is a deep hole that will test the Dusty Mac structure under the pit as well as the base of the Marama near the vertical structures, for Vault type mineralization.
$P_{3}$-is contingent on results of $P_{2}$ and is designed to test the same structures at the north end of the pit.
$P_{4} \quad$-tests the Dusty Mac structure in an area of overburden to the north of the pit.
$\mathrm{P}_{5} \quad$-tests the Dusty Mac structures along strike from DM-2, 3 as well as PE 11, 18 which all had significant alteration and mineralization.

CHALCEDONY ZONE
$P_{6} \& P_{7} \quad$-provide cross sections through the chalcedony zone which has $A u$ values of 1.1 g on the surface and values of up to $5+g$ in previous drilling. If holes find limit of mineralization before anticipated, the extra footage will be used for infill drilling.

## ADIT ZONE

$\mathrm{P}_{8} \quad$-this hole will test a quartz breccia zone with shallow dipping quartz veins and will test potential boiling traps below these.
$\mathrm{P}_{9} \quad$-will allow us a complete cross section along line 7 N and will test under the $A$ zone at depth within the Marama dacite.
$P_{10}$-set at $45^{\circ}$ to the section, this hole will test two intersecting structures with mineralization and alteration as well as the base of the Marama near these structures.
$\mathrm{P}_{11}$-another hole at $45^{\circ}$ to the section, this hole will test the junction of two mineralized structures and the base of the Marama.
$P_{12}$-will complete our section west of the pit in an altered and mineralized zone known as the Sawmill zone. The hole will also intersect the A Zone between DM-6 and DM-11 within the Marama dacite.
$P_{2} \quad-200 \mathrm{~m}$ of drilling will be allotted to drilling the $A$ Zone showing but will be located after trenching and possibly blasting of the zone as well as results of $P_{9}$.
$P_{13}$-tests the junction of the $A$ Zone and the Dusty Mac structure in an area anomalous $A u$ and $F$ anomalies. A strong coincident I.P. anomaly (chargeability high) makes this a promising buried structure.


| DATE: | 22 June 1988 |
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| TO: | A.J. Davidson |
| COPIES A <br> COPIES TO: | D.H. Watkins |
| DE <br> FROM: | I.D. Pirie, G. Evans |
| SUIET <br> SUBECT: | Dusty Mac Drill Proposal |

The following is a proposal to drill 1440 m on the Dusty Mac Option at Okanagan Falls, BC. It is based on analysis of extensive past work, particularly geology and drilling, combined with our own IP and CSAMP results and property examination with a structural emphasis.

SUMMARY

| P1 | Location |  | Angle | Azimith | Depth (m) | Target |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L2+00N | $0+75 \mathrm{E}$ | $-45^{\circ}$ | $225^{\circ}$ | 200 | CSAMP |
|  |  |  |  |  |  | high/low |
| P2 | L7+00N | $1+28 \mathrm{E}$ | $-45^{\circ}$ | $225^{\circ}$ | 200 | CSAMP high |
| P3 | L7+00N | O+10W | -45 ${ }^{\circ}$ | $225^{\circ}$ | 200 | CSAMP low |
| P4 | LIO+00N | O+40E | $-45^{\circ}$ | $225^{\circ}$ | 200 | CSAMP high |
| P5 | LO+10N | $1+65 \mathrm{~W}$ | $-45^{\circ}$ | $225^{\circ}$ | 120 |  |
|  |  |  |  |  |  | alteration |
| P6 | L2+00N | 1+90W | $-45^{\circ}$ | $225^{\circ}$ | 100 | IP |
| P7 | L3+00N | 2+10W | $-45^{\circ}$ | $225^{\circ}$ | 120 | IP/ |
|  |  |  |  |  |  | structure |
| P8 | L4+40N | 2+80W | $-45^{\circ}$ | $225^{\circ}$ | 100 | IP/ |
|  |  |  |  |  |  | alteration |
|  |  |  |  |  |  | /structure |
| P9 | L5+80N | $3+00 \mathrm{~W}$ | $-45^{\circ}$ | $225^{\circ}$ | 100 | IP/ |
|  |  |  |  |  |  | alteration |
| P10 | L7+00N | $2+70 \mathrm{~W}$ | $-45^{\circ}$ | $225^{\circ}$ | 100 | IP/known |
|  |  |  |  |  |  | mineral- |
|  |  |  |  |  |  | ization |
|  |  |  |  | TOIAL = | 1440m |  |

Holes P1 - P4 will test Controlled Source Audio-Magneto Telluric anomalies. Theory predicts that the high resistivity anomalies will be silicification associated with mineralization. The low resistivity anomalies are predicted to be the fault structures which provide a channelway for mineralizing fluids. A high-low pair, therefore, may indicate silicified (mineralized) zones adjacent to channelways.

P1 will intercept a high-low pair immediately north of the pit area. Previous drilling to shallow depths has indicated noisey gold values in this area. The hole will intersect below any known holes.

P2 and P3 will, together, intersect another high-low pair some 600 m northwest of the pit. This is an area of $20 \mathrm{~m}+$ overburden cover with no known drilling other than a couple of shallow percussion holes.

P4 will test a high resistivity anomaly associated with known silicification at the 'Northwest Zone.' Anomalous gold values have been obtained in the past from this zone but it has never been tested to any depth.

Holes P5 - P10 will test what is known as the 'A Zone.' This structure has returned gold values for over 700 m including grabs of 2 opt+ (Minnova sampling) and drill holes of $0.460 \mathrm{pt} / 5^{\prime}$ and $0.360 p \mathrm{/} / 17^{\prime}$; however, it has generally taken a back seat to the Pit area in terms of exploration. Specific drill targets are based on IP chargeability highs/resistivity lows along with an interpretation of cross structures which may play a part in focusing mineralization.

## DUSIY MAC 1988 DIAMOND DRUU - SPECIFIC PROPOSALS

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P1- L2+OON STNO+75E Brng 225 Dip -45
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To test the NW extension of the DM pit area over a CSAMF anomaly with a strong resistivity high and resistivity low. Also an area with previous drilling e.g.DM 248-252 with high Au and Ag values.

Prop. Depth 200 m
P2- L7+00N STN1+28E Brng $225 \quad$ Dip -45
To test a strong CSAMT resistivity high in an area of overburden
near Esso's PDH-13 which had alteration near the bottom of the
hole.

Prop. Depth 200 m

P3- L7+00N STNO+10W Brng $225 \quad$ Dip -45
To test a strong CSAMT resistivity low in an area of overburden, and giving a complete cross section of the valley with P2. Esso's hole PH-12 encountered near surface alteration with Au and Ag values in this area.

Prop. Depth 200 m

P4- LLO+OON STNO+4OE Brng $225 \quad$ Dip -45
To test a strong CSAMP resistivity high near the Northwest Zone which is a Qtz. Vein Bx. with known Au. and Ag. values.

Prop. Depth 200 m

P5- LO+10N STN1+65W Brng $225 \quad$ Dip -45
To test an alteration zone near the junction of two structures near PDH-466 which ran 5.2 m of $.356 \mathrm{oz} . /$ ton Au.

Prop. Depth 120 m
P6- L2+00N STN1+90W Brng 225 ..... Dip -45
Test IP.
Prop. Depth 100m
P7- L3+00N STN2+10W Brng 225 Dip -45
To test an intersection of a N trending structure with the " A " Zone. The area has a wide zone of alteration which will be trenched before the drilling to confirm the structure.Prop. Depth 120 m
P8- LA+40N STN2+8OW Brng 225 Dip -45To test the intersection of a fault with the "A" Zone. Previoustrenching has uncovered a large alteration zone in this recessivearea.
Prop. Depth 100 m
P9- L5+80N STN3+00W Brng 225 Dip -45
To test an alteration zone that is on strike with the main " A " Zone showing. This area will be trenched before being drilled.
Prop. Depth 100 m
P10- L7+00N STN2+70W Brng225 Dip -45To test the main "A" Zone showing where previous drilling e.g.DDH473 hit 1.5m of.460z./tAu and .62oz./t Ag.

Prop. Depth 100 m


Vole. Cong.

- Diamond drill hole location (DDH -ESSO Hole)
(DM -MINNOVA Hole)
(P -Proposed Hole)
DUSTY MAC PROPERTY

IDP/sg


