

824725

DATE: October 11, 1988  
 TO: I. Pirie and A. Davidson  
 FROM: K. Curtis  
 SUBJECT: Algo Option Drill Proposal

Successful completion of mapping and trenching on the OK 2 claim has outlined two mineralized stratigraphic horizons which will be tested during the 1988 drilling program.

The Scarlet Zone consists of a series of mineralized bull quartz veins hosted within tuffaceous argillites. The 1988 trenching program has exposed the zone over a forty meter strike length and uncovered an andesitic flow unit approximately thirty meters south of the zone. Two prominent orientations of veins are apparent. The first or "Main set" occurs at parallel to sub-parallel to foliation attitudes while a second crosscuts foliation and is likely associated with a dilation during a period of sinistral faulting. The 1988 drill program is designed not only to test depth extension on the vein system but also to test the stratigraphy for possible remobilized syngenetic massive sulphides as are seen at the Silver Zone.

Four holes are proposed in the immediate vicinity of the Scarlet Zone. P1 is designed to intersect the "Main set" thirty meters down dip from surface and to test stratigraphy until andesite flows are intersected. P2 is a stepback from P1 and is designed to test depth extension of the "Main set" to sixty meters down dip and continue into andesites. P3 is proposed to test the eastern extent of the zone at forty five meters depth down dip and continue into andesites. P4 will test a westerly projected intersection of the two vein systems at forty five meters down dip and will continue into andesites.

#### SCARLET ZONE - SUMMARY OF DRILLING

Hole No.	Line	Station	Az	Dip	T.D.
P1	22+00E	11+50N	<del>210</del> 215	-45	65m
P2	22+00E	11+90N	215	-45	95m
P3	22+25E	11+75N	215	-45	115m
P4	21+70E	11+70N	215	-45	100m

TOTAL = 375m

The Pyritic Zone is an area of disseminated and stringer pyrite, arsenopyrite, and galena exposed along the main road on the OK 2 grid. Mineralization is hosted within a series of quartz feldspar porphyritic intrusions and proximal flows and is enhanced by the strong development of sericite, scorodite, and limonitic alteration. Samples collected during the

1988 mapping project show anomolous trace metals (0.4% Zn,0.2% Pb) possibly associated with coincident soda depletion - potash enrichment nearby.

A sediment contact occurs approximately 100 meters due grid south of the Pyritic Zone. This contact is an attractive horizon for deposition of syngenetic sulphides. Since a drill program conducted in 1987 by Algo resources failed to intersect the felsic - sediment contact it is proposed that this be an objective for this year.

Hole P5 extends Algo 87-2 to the sediment contact. An extra 50 meters to the existing 170 meter hole is a reasonable estimate for completion. This hole will intersect the contact with the hope of determining stratigraphic and structural placing of the units.

Hole P6 will test the same contact approximately 350 meters downslope of P5. P6 is also designed to intersect an I.P. chargeability high and coincident soil anomalies located within the felsic package and its length will be subject to the information gained from P5.

#### PYRITIC ZONE - SUMMARY OF DRILLING

Hole No.	Line	Station	Az	Dip	T.D
P5	23+70E	18+25N	230	-45	50m
P6	20+00E	19+25N	215	-45	175m

Total = 225 m

P6 20+04E

19+16N - 45 175m @ 210°

SUMMARY LOG MOK 87-2B

EXTENSION OF ALGO DDH 87-2

COLLAR: 23+70E, 18+25N

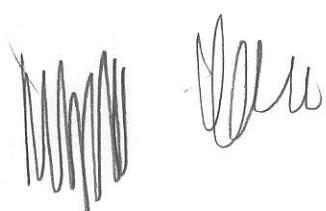
AZIMUTH: 230

DIP: -45

LENGTH: 48.3m

182.4 to 185.7	Dacitic fragmentals. Green porphyritic fragments in a light green porphyritic matrix.
185.7 to 189.1	Fault gouge , clay rich.
189.0 to 204.8	Dacitic fragmentals 2% fg. diss. py. minor fault gouge and broken quartz veins
204.8 to 212.9	fault gouge , clay rich.
212.9 to 224.6	Dacite tuffs and flows fault gouge at 219.7 to 220.7
224.6 to 230.7	Intermediate flows. Green chloritic matrix. Small (0.4m) bands of sericitic, felsic(?) tuffs. py 2% bands and dissem.

ACID TESTS: 1



MOK 88-2

6 39.6  
CASING 20' TO 130'

INTERBEDDED BLACK SHALES  
AND F.G WACKES  
WELL LAMINATED PY STRING. + DISS.

39.6 TO 41.5  
130 TO 136' BLACK SHALES  
PYRITIC BUBBS 4%

41.5 TO 47.2  
136 TO 155' FAULT GOUGE IN BLACK SHALES  
MINOR QV

47.2 TO 48.7  
155 TO 160 GREY, PORPHYRITIC ANDESITE  
MINOR SULPHIDE CLASTS.  
3% DISS PY

48.7 TO 54.2  
160 TO 178' GREEN, ANDESITE PORPHYRY  
FRAGMENTAL

54.2 TO 55.7  
178' TO 183' GREY, ALTERED ANDESITE  
MINOR QV VEINS  
PY STRINGERS.

MOK 88-1 QUICK LOG

Location: Line 22+00E, 11+50N  
Azimuth: 210 Dip: -45  
T.D. 74.4m

0-3.05	Casing
3.05-19.8	Black shales; pyritic stringers and blebs
19.8-21.3	Grey altered shales. Minor qtz stringers.
21.3-23.8	Bull qtz veins in grey altered shales - gn pods and stringers - 2%; py selvage, sphal trace blebs.
23.8-26.8	Grey altered shales; py 2-7%, f.g. diss.
26.8-33.2	Black shales - coarse gr. py and stringers
33.2-34.4	Grey altered shales. Bedding at 50 to C.A.
34.4-34.7	Chert pebble conglomerate; white + grey angular-sub angular clasts. Grey altered shale matrix.
34.7-36.3	Intermediate lapilli crystal tuff. FP porphyritic lapilli; Sulphide clasts.
36.3-68.0	Intermediate feldspar porphyry. Flower like porphyry 1mm-6mm. Grey siliceous matrix. Minor qtz veins. py stringers.
68.0-74.4 E.O.H.	Intermediate FP porphyry. FP 2-4mm; green chloritic matrix.

CASING DEPTH : 10 FEET, 1 CASING SHOE  
ACID TESTS : 1  
CAT TIME : 8 HOURS

SUMMARY LOG MOK 88-2

COLLAR: 22+00E, 11+90 N  
AZIMUTH: 210  
DIP: -45  
DEPTH: 110 m

6 to 39.6	Interbedded black shales and fine grained wackes well laminated pyritic bands - 1mm + diss. py.
39.6 to 41.5	Black shales py. blebs and diss. 4%
41.5 to 47.2	Fault gouge in black shales minor qtz. veins
47.2 to 48.7	Grey, porphyritic andesites minor py. rich clasts 3% diss. py. in matrix
48.7 to 54.2	Green, porphyritic andesite - fragmental
54.2 to 55.7	Grey, altered andesite minor qtz.veins py. stringers
55.7 to 69.1	Green, andesite fragmental lesser flows minor py. stringers
69.1 to 75.2	Grey, altered andesites strong "flower" porphyry minor qtz. veins and py. stringers
75.2 to 78.3	Qtz chlorite veins in grey, altered andesites. py.veins and stringers.
78.3 to 90.8	Grey, altered andesites minor qtz. veins and stringers
90.8 to 109.7	Green, andesite fragmental

E.O.H.

CASING DEPTH: 2 10' LENGTHS, 1 2' LENGTH, 1 SHOE  
ACID TESTS: 1  
CAT TIME: 4 HRS

SUMMARY LOG MOK 88 - 3

COLLAR: 22+25E , 11+75N  
AZIMUTH: 210  
DIP: -45  
DEPTH: 114.9 m

6 to 26.2	Interbedded shales and wackes
26.2 to 36.9	Grey altered shales Qtz. veins at 27.2 m and 31.6 m (.3m wide), tr. gn.
36.9 to 38.1	Grey, altered andesite (porphyritic) py. rich clasts
38.1 to 87.7	Green porphyritic andesite - fragmental
87.7 to 91.7	fault gouge, tan colour, clay rich, sandy.
91.7 to 94.1	Green porphyritic andesite.
94.1 to 96	fault gouge, tan colour, clay rich and sandy.
96 to 108	Green porphyritic andesite - fragmental
100.8 to 106.3	fault gouge, tan colour, clay rich and sandy.
106.3 to 114.9	Green andesite fragmental.

CASING LENGTH: 2- 10' LENGTHS  
ACID TESTS: 2  
CAT TIME: 2 HRS

Q - LOG MOK 88 - 4

COLLAR: 21+70E, 11+70N  
AZIMUTH: 210  
DIP: -45  
DEPTH: 102.7 m

6.0 to 38.7m	Interbedded shales and fine grained wackes. py. 2 - 5%, stingers and disseminations.
38.7 to 55.1	Black shales. py stringers and diss. 2%.
55.1 to 58.8	Intermediate lapilli tuff. minor py. rich clasts. py. stringers.
58.8 to 61.6	Quartz veins in porphyritic andesite. trace gn. py 5% in vein.
61.6 to 64	Andesite fragmental. minor quartz veins.
64 to 64.6	Quartz veins in andesite fragmental. py in selvage.
64.6 to 67	Andesite fragmental. py stingers.
67 to 67.9	Quartz veins, vuggy, 10% py.
67.9 to 72.8	Porphyritic andesite. py stingers minor quartz veins.
72.8 to 73.7	Quartz veins. tr gn. 2 - 3% py.
73.7 to 114.9	Green, porphyritic andesite fragmental. minor quartz veins and py stringers.

CASING LENGTH: 2 - 10' LENGTHS, 1 SHOE  
ACID TESTS: 2



SUMMARY LOG MOK 88-5

COLLAR: 22+25E, 11+38N  
AZIMUTH: 210  
DIP: -45  
DEPTH: 60m

Casing (10.1) to 16.5	Black shales py 2-5%
16.5 to 21.7	Grey altered shales minor qtz. veins with gn, sph selvage.
21.7 to 29	Grey altered andesite fragmental. py stringers minor qtz veins.
29 to 31.4	Grey altered shales qtz veins at 31.0, gn, sph pods
31.4 to 34	Black shales
34 to 50.8	Grey altered andesite fragmental minor qtz veins, trace gn
50.8 to 53.6	faulted tertiary dike, clay altered tan colour.
53.6 to 60	Green andesite fragmental.

CASING DEPTH: 3 - 10 ' LENGTHS , 1 SHOE  
ACID TESTS: 1

SUMMARY LOG MOK 88-6

COLLAR : 21+70E, 11+37N  
AZIMUTH: 210  
DIP: -45  
LENGTH: 50.9 m

Casing (4.1) to 26.5	Black shales minor qtz. veins
26.5 to 29.7	Grey altered shales. minor qtz. veins. trace gn.
29.7 to 36.3	Black shales minor py.
36.3 to 50.9	Grey altered andesite fragmental minor qtz. veins.

SUMMARY LOG MOK 88-8

COLLAR: 20+04E 19+16N

AZIMUTH: 215

DIP: -45

LENGTH: 151.4m

- 4.57 to 102.1 QFP fragmentals  
Grey - green mottled colour  
porphyritic fragments and matrix  
Qtz eyes 1-5 mm, minor py blebs .5 - 1cm  
Fault gouge at 87.7 to 90.5
- 102.1 to 104.2 Felsic tuffs.  
pale green, moderate sericite  
Qtz vein at 103.9, 10 cm wide with 2cm selvage  
of sphal.(20%) and py.(80%)
- 104.2 to 115.5 Grey dacitic flows  
weakly feldsparpheric  
2cm py band at 115.5
- 115.5 to 151.4 Interbedded dacitic tuffs and lesser flows  
moderate sericite background, weak feldsparpheric.  
moderate chlorite.  
minor py blebs.

CAT TIME : 4 HOURS, ACCESS AND SITE PREP.  
ACID TESTS:3

SUMMARY LOG MOK 88-9

COLLAR: 23+10 E, 18+10 N  
AZIMUTH: 070  
DIP: -45  
LENGTH: 44.8m

4.3 to 28.7 Interbedded argillites, wackes and  
sericitic tuffs.  
minor py. frags.

28.7 to 44.8 Qtz. feldspar porphyry  
moderate sericite, 3mm Qtz eyes  
general green colour.  
Fault gouge at 31.6 to 32.6

ACID TESTS:1

ALGO OPTION - PROPOSED TRENCHING PROGRAM 1988

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TRENCH	FROM	TO	LENGTH	PURPOSE
OKTR 88-1	22+00, 11+35N	22+00E, 10+00N	135m <i>80m</i>	TEST OF OK VEIN AND ASSOCIATED STATIGRAPHY
OKTR 88-2	21+00E, 11+50N	21+00, 9+20N	130m ✓	TEST OF STRONG AG, PB, CU, ZN SOIL ANOMALY PLUS STATIGRAPHY
OKTR 88-3	ROADS NEAR DDH 87-8, 9, 10		<del>400m</del>	TEST OF STRONG AG, PB, ZN, CU SOIL ANOMALY
OKTR 88-4	21+50E, 9+00N <i>2+20 9+00</i>	21+50E, 7+60N <i>8+25</i>	<del>140m</del> <i>75m</i>	TEST OF PB, AG, ZN QTZ VEIN AND STRATIGRAPHY
OKTR 88-5	ON ROAD BESIDE PYRITIC ZONE		500m ✓	TEST OF TRACE AND SOIL PB, AG, ZN ANOMALIES AND FELSIC SEDIMENT CONTACT
OKTR 88-6	ON ROAD APPROX. L19E, 18+30N		90m	TEST OF STRONG ZN, CU, PB SOIL ANOMALIES
OKTR 88-7	24+00E, 15+60N	24+00E, 14+00N	160m <i>ABANDONED</i>	TEST OF STRONG SOIL ANOMALIES NEAR FELSIC SEDIMENT CONTACT

M OK

88-7

Q - LOG.

LOC'n ; L 21 + 95 E 10 + 99 N

AZ ; 094°

DIP : -45

CASING (3.6) TO 6.2

BLACK SHALES

Py BLEBS AND STRINGERS 2%

6.2 TO 7.8

GREY ALTERED SHALES, TR DISS

GN

QTZ VEINS AT 6.2 AND 6.8

(10 cm WIDE) PODS OF GN + DISS

Py.

7.8 TO 12

BLACK SHALES

Py BLEBS AND DISS.

12 - 31.5

GREY ALTERED ANDESITE FRAGMENTAL

QTZ VEINS AT 12.4, 22.3

AND 28m

TR 6IN

PY STRINGERS,

SUMMARY LOG MOK 88-8

COLLAR: 20+04E 19+16N

AZIMUTH: 215

DIP: -45

LENGTH: 151.4m

- 4.57 to 102.1 QFP fragmentals  
Grey - green mottled colour  
porphyritic fragments and matrix  
Qtz eyes 1-5 mm, minor py blebs .5 - 1cm  
Fault gouge at 87.7 to 90.5
- 102.1 to 104.2 Felsic tuffs.  
pale green, moderate sericite  
Qtz vein at 103.9, 10 cm wide with 2cm selvage  
of sphal. (20%) and py. (80%)
- 104.2 to 115.5 Grey dacitic flows  
weakly feldsparpheric  
2cm py band at 115.5
- 115.5 to 151.4 Interbedded dacitic tuffs and lesser flows  
moderate sericite background, weak feldsparpheric.  
moderate chlorite.  
minor py blebs.

CAT TIME : 4 HOURS, ACCESS AND SITE PREP.  
ACID TESTS: 3



SUMMARY LOG MOK 88-9

COLLAR: 23+10 E, 18+10 N  
AZIMUTH: 070  
DIP: -45  
LENGTH: 44.8m

4.3 to 28.7 Interbedded argillites, wackes and  
sericitic tuffs.  
minor py. frags.

28.7 to 44.8 Qtz. feldspar porphyry  
moderate sericite, 3mm Qtz eyes  
general green colour.  
Fault gouge at 31.6 to 32.6

ACID TESTS:1

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OKTR 88-1	22+00, 11+35N	22+00E, 10+00N	135m <i>80m</i>	TEST OF OK VEIN AND ASSOCIATED STATIGRAPHY
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OKTR 88-4	21+50E, 9+00N <i>2+20 9+00</i>	21+50E, 7+60N <i>8+25</i>	<del>140m</del> <i>75m</i>	TEST OF PB, AG, ZN QTZ VEIN AND STRATIGRAPHY
OKTR 88-5	ON ROAD BESIDE PYRITIC ZONE		500m ✓	TEST OF TRACE AND SOIL PB, AG, ZN ANOMALIES AND FELSIC SEDIMENT CONTACT
OKTR 88-6	ON ROAD APPROX. L19E, 18+30N		90m	TEST OF STRONG ZN, CU, PB SOIL ANOMALIES
OKTR 88-7	24+00E, 15+60N	24+00E, 14+00N	160m <i>ABANDONED</i>	TEST OF STRONG SOIL ANOMALIES NEAR FELSIC SEDIMENT CONTACT