

ZOG 43

Vol. 6 No. 2 October 1970

MARHAMS ELECTIONS

Annual Marhams elections were held on 18 September, 1970. Here are the results:

Zog (President) Paul Connor
 Vice Zog - Bruce Blackistone (Best to be put in charge of vice)
 Secretary - Bill Cleary ? (!)
 Treasurer and Chief Embezzeler - Dave Lewis
 Senior Advisor - Jim Barrowman (who else?)

Committees will be listed next issue.

MARS - 5

MARS-5, the SSB regional will be held at Aberdeen Proving Grounds, Aberdeen, Maryland on 23-24-25 October 1970. The events are:

Sparrow Rocket Glider
 Class 2 Streamer Duration
 Robin Eggloft
 Class 2 Parachute Duration
 Open Spot Landing
 Condor Boost Glide
 Class 1 Drag Efficiency

Cost is 40¢ per event, \$5.00 per night, \$2.75 for dinner. Write Howard Galloway at:

428 Ben Oaks Drive West
 Severna Park, Maryland 21146

or contact Jim Barrowman

FORMER ZOG ED AT M.I.T.

Andy Elliott, former ZOG Editor, is now attending M. I. T. and is living at:

400 Memorial Drive
 Phi Beta Epsilon Fraternity
 Cambridge, Mass. 02139

and will probably be able to pass mail to Bob Singer at Harvard, Guppy and Bob Parks at M.I.T. and other such people until we know their addresses.

Tri-Sec 2 started on 11 September, when the contestants started arriving at the motel near Newcastle, Delaware. At about 8:00 PM a meeting was held in the courtyard in order to explain procedures and hand out flight cards. The contest coordinator, Scott Brown, then explained that for tracking someone would stand at each scope and write down the elevation and azimuth in a notebook, and reduction would be done at the motel, thus not using the phones. After numerous threats of KILL! MAIM! DESTROY!, we talked Scott into using the normal tracking procedures explaining that misaligned scopes or a missed rocket would guarantee no tracks closed.

Saturday morning brought excellent tracking weather as it was clear and hot. The field was right across the road from the motel, so Dave Lewis and the Zog Ed decided to walk, and that was the only time we did so! (You were right Bob, it was a stinking desert.)

Tracking was over 80% in the first event, Class O Altitude, with a few good flights being recorded, the best being the Zog Ed 200 meters. Open payload was the only other event on Saturday, with altitudes ranging from 200 to over 600 meters. The best flight was the Kennedy-Gibbs team's 642 meters with a D-B-D 3 Stager. Even though the models went off slowly, we were still finished for the day during daylight.

The scale judging was done that night and involved much argumentation, which kept the judges up until 3:00 am.

On Sunday the weather was excellent again, as we flew Eagle B/G, Class 1FD, and Scale. In Class 1FD there were some excellent times due to the incredible thermals emitted by the FA system, including one rocket that went only about 20 meters up over the launch area, but got a 30 second flight while (what else?) Uncle Bob was talking on the FA as usual. There were many other excellent times recorded. Eagle B/G brought out everything from Maxi-Nantas (3 - count 'em - 3 of which none worked (what happened, Howard?) to John Pollocks small styrofoam Flop wing. There were also a number of successful Thunderbirds. Scale was high-

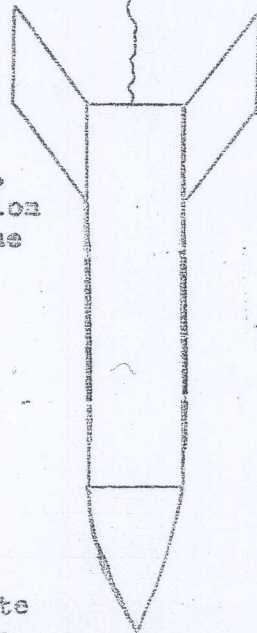
lighted by 2 beautiful flights by Saturn Fives and 2 unstable Perishings. Tag Powell demonstrated his Hen Grenade egg lofter (complete without wadding) and Falcon, while Howard Kuhn showed off his large Spetlander and Mini Banta.

After the awards ceremony, we packed up and left, just glad to get out of the heat. (How what to build for Condor at MARS-5?)

COX HONEST JOHN

THE Cox Honest John used for this review was purchased at the Kresges at Wheaton Plaza for the ridiculously high price of \$4.00. It came in a multicolored box with a cellophane covering, so you could see the rocket inside. The box explains (crudely) how the rocket works, and shows the various parts of a rocket flight. One of these photos showed a hand-held tracking scope that looked more like a cartoon show laser gun. When the box is opened, one finds instructions, the parachute, chute wadding, shock cord, engine clips and a NAR application in the bottom part of it. The instructions are very poor, but do explain how to tie the shock cord between the nose cone and body and how to attach the pre-assembled parachute. The engine is held in place by a plastic clip which either falls out or is melted. (If this happens, the engine falls out.) That's all it takes, because the rocket comes completely assembled, with molded in launch lugs and nose cone placement notch to insure lining them up. The entire rocket is made of rejection molded plastic of red and white. The ridges and ribs used to join the fuselage parts make it next to impossible for the chute to eject, thus causing "indestuctable" sample to destroy itself.

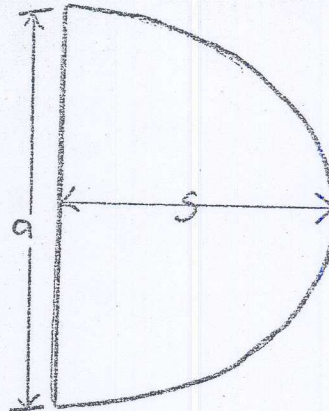
The nose cone be opened and Cox suggests putting insects in here to conduct useful research. Flight Characteristics are not too good, although stable, it is heavy and doesn't go very high. When the chute doesn't eject, the impact on someone



or something could be disastrous. Although this sounds as if I am just cutting down the rocket in this review, I am quite serious. However, it does have a good point -- you can get it from the box to the pad in less than a minute

Elliptical FIN Equations
For Barrow-man CP

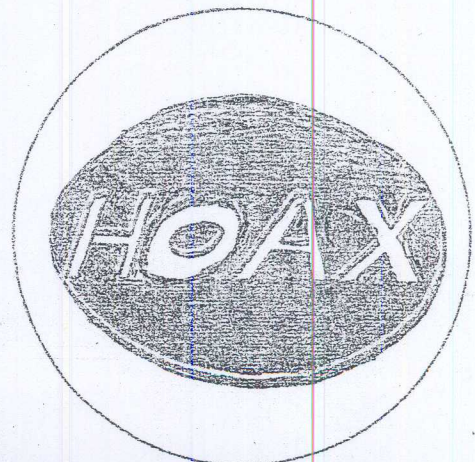
The Following Equations are to be used to replace the normal fin equations when using regular elliptical fins



n = Number of Fins
d = diameter at base of nose cone

$$(C_{NA})_F = \frac{4n \left(\frac{s}{a}\right)^2}{1 + \sqrt{1 + 1.623 \left(\frac{s}{a}\right)^2}}$$

$$\bar{X}_F = X_F + 0.288a$$



* KAP: LMI: FNM: F: YHM: KIB: NIM: MAR:
KIX: PIT: F: XAB: NIM: NIN: F



UNGLIE TOM

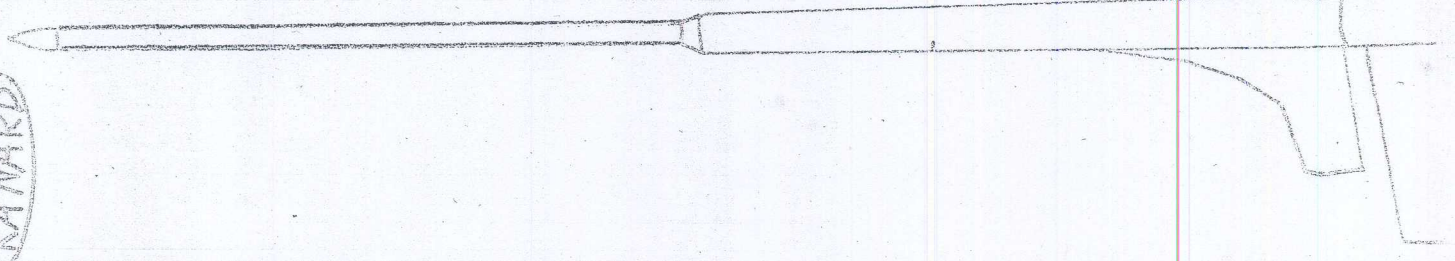
Baffling Rejection System
Requires Large Wad
Parakeet Discovery
Pass Port Stagnation
Over 35 dollars

\$35.00

The wrong black lines
of this missfit is sure to
attract interest at your
next cross burning. If
you want a bugger
impressed racket for

a low altitude - you got
it!

wreckamended injines
1st STAGE 2nd STAGE
F-100-10
4A-6-5
0-42



BITS AND PIECES

Did you ever notice that the initials for Rocket Glider (R/G) correspond to Rube Goldberg? (You have to have some kind of Gadgetry on those things.)

Bob Singer pranged another plane with his Heathkit Radio System.

NARHAMS does have a library, but someone will have to get it from Carl Kratzer for us to use it.

It is a proven scientific fact that Bumble Bees cannot fly.

The Royal Order of Buzzards eat Carrion.

MPC is now producing fly out of the box Rockets (?).

What will Guppy call himself when he gets older? Frog, maybe?

ZOG 43 is an official publication of the NARHAMS section of the NAR

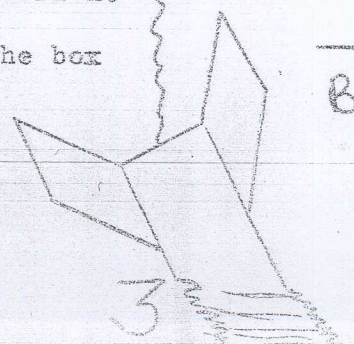
Editor: Steve Kranish
Typist: A. Kranish
Cartoonist: Bruce Blackistone

Please send all correspondence to:
3611 Taylor Street
Chevy Chase, Maryland 20015

Super Zinger Lives!

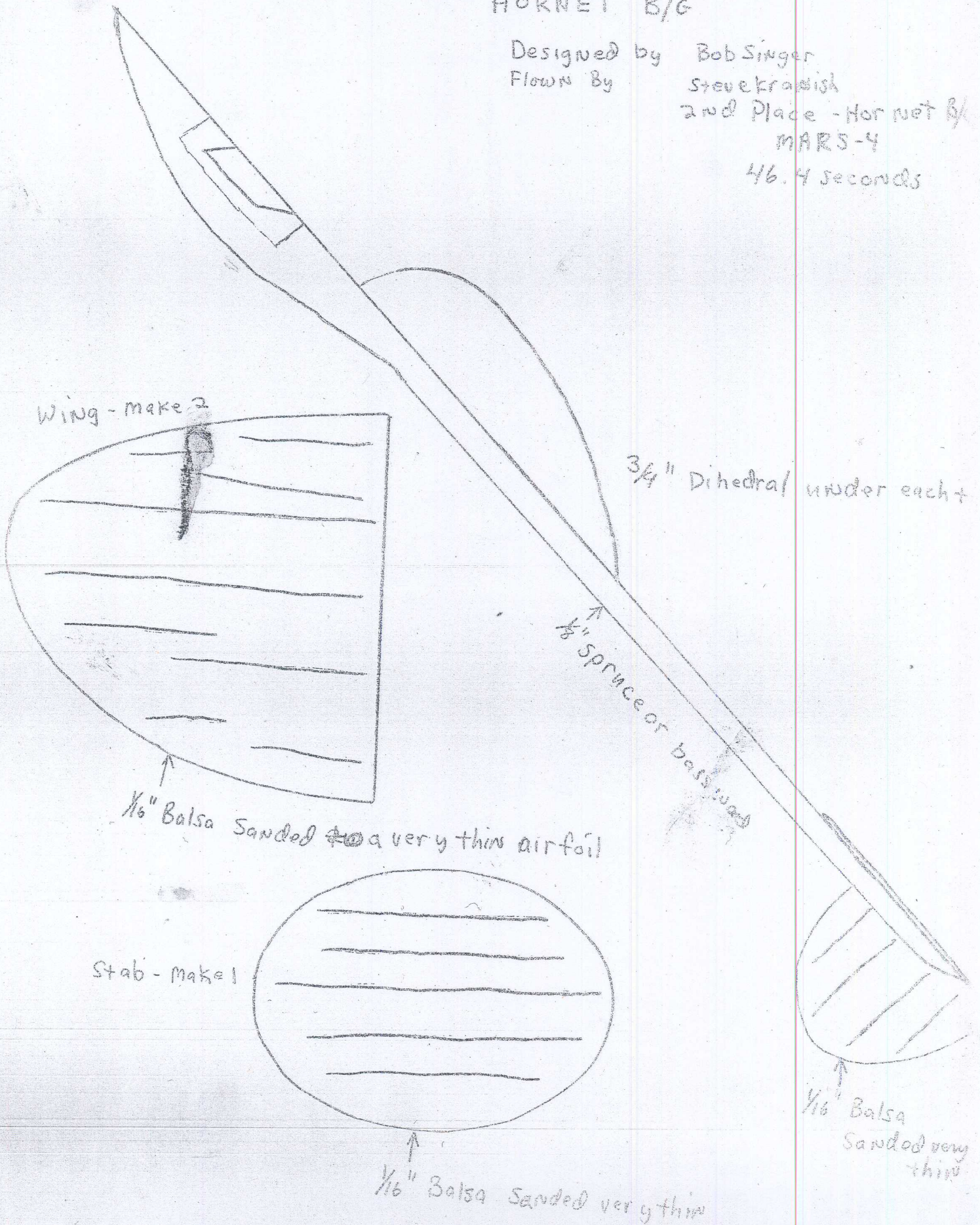


Bruce Blackistone
is a NORSE GOD
IN DISGUISE



ORIGINAL BUMBLE BEE HORNET B/G

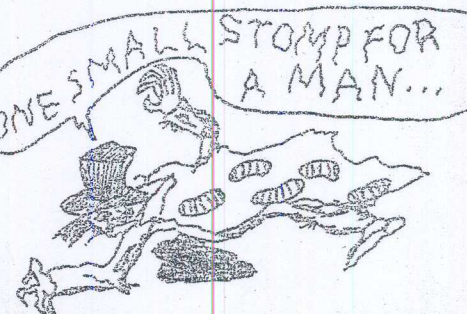
Designed by Bob Singer
Flown By Steve Krawish
and Place - Hor net B/
MARS-4
46.4 seconds



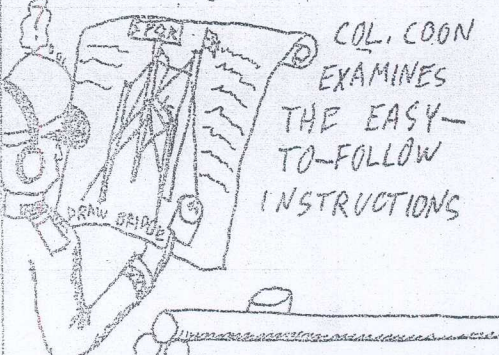
XXX
 Attila *19
 OF S.P.O.R.
 NAR HAMS NAR 10/14/1066
 BY BRUCE EDWARD BLACKSTONE
 P.F. P.M. 4:14 P.M. NAR. 6413

When our last exiting (C)
 CHAPTER CONCLUDED
 COLONEL RA COON (SON OF
 THE SUN GOD) DECIDED HE
 NEEDED GUPPY (THE GREAT)'S
 LAUNCH SYSTEM FOR HIS
 MAXI MENACE (SURNAMED
 THE _____) P.M. 4:14 P.M. 1066
 P.M. 4:14 P.M. 1066

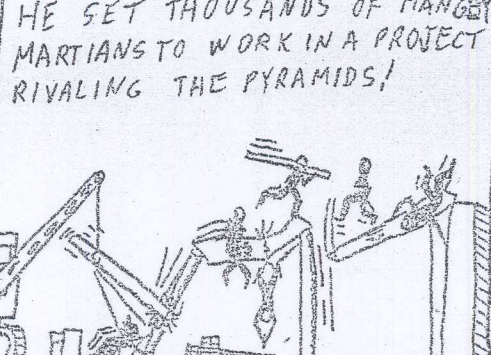
GUPPY READILY COOPERATES
 ONE SMALL STOMP FOR
 A MAN...



COL. COON
 EXAMINES
 THE EASY-
 TO-FOLLOW
 INSTRUCTIONS



HE SET THOUSANDS OF MANGY
 MARTIANS TO WORK IN A PROJECT
 RIVALING THE PYRAMIDS!

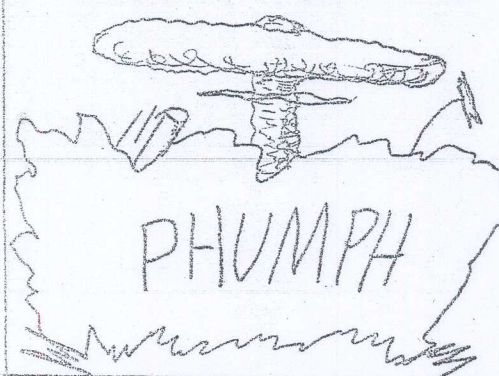


FINALLY IT IS READY FOR
 INSPECTION

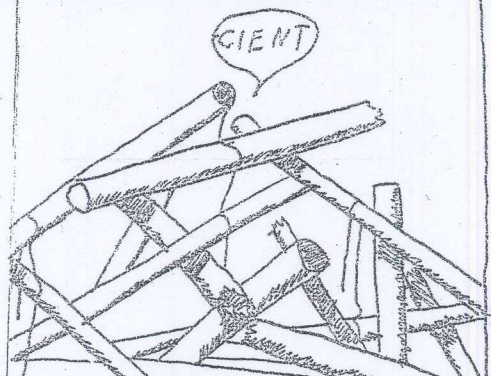
MAGNIF
 I++



PHUMPH

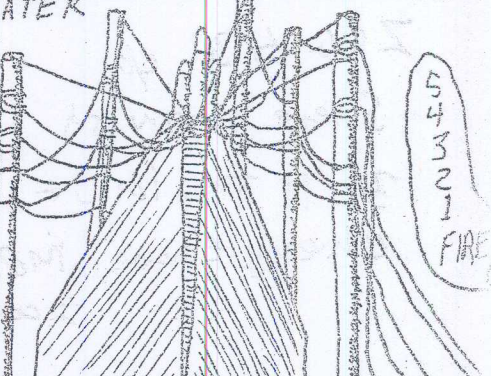


CIENT



LATER

54321
 FIRE



SPONGRIPP



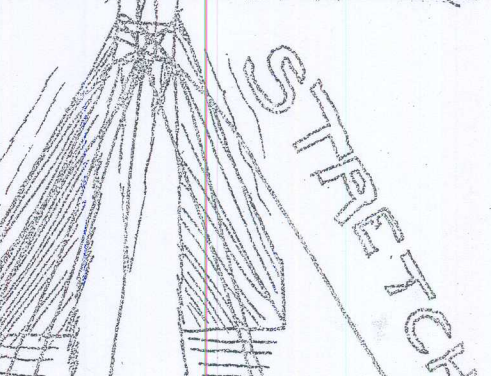
STILL LATER

FLAM

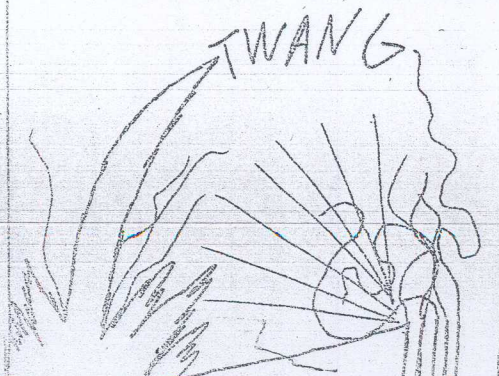
FIRE!



STRETCH

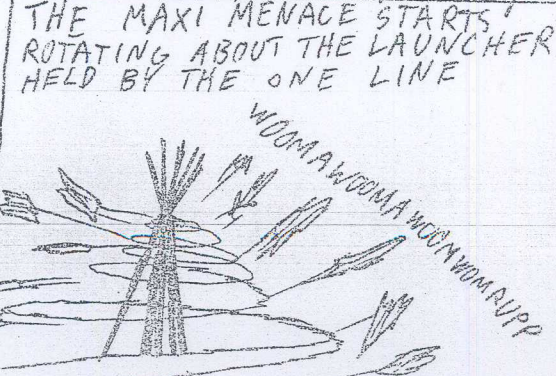


TWANG



THE MAXI MENACE STARTS
 ROTATING ABOUT THE LAUNCHER
 HELD BY THE ONE LINE

WOOMAWOOMAWOOMAWOOP



IS THIS THE END OF THE
 MAXI MANTA?
 IS RA COON RUINED?
 WILL GUPPY RECOVER HIS
 LAUNCHER AND WINELAIN?
 WHO WAS THE MAN THAT
 SHOT LIBERTY VALENCE?
 WHERE IS ATTILA?
 WHO'S GOT THE TAIL TO MY
 DRAGON?