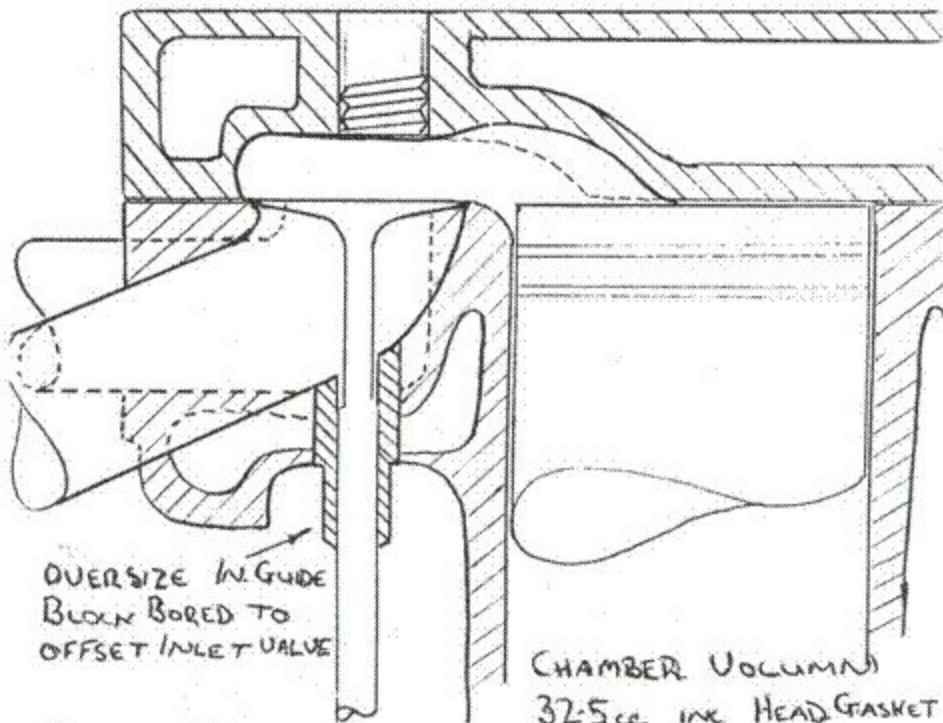
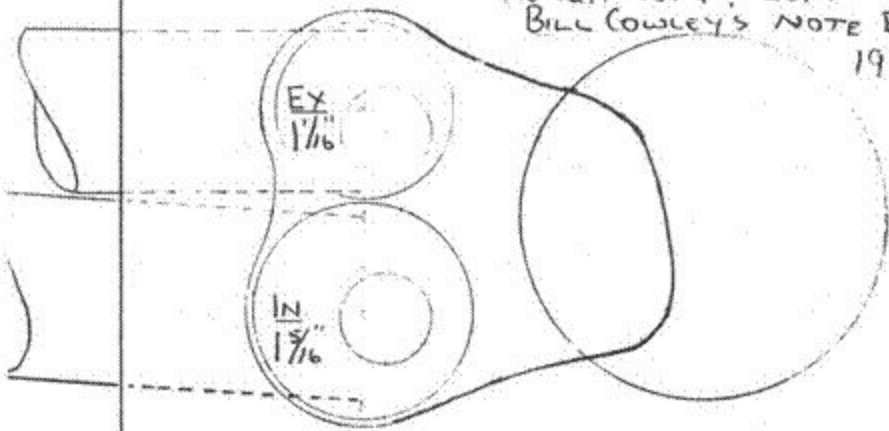


COWLEY HEAD & PORT ARRANGEMENT
 ROUGH COPY FROM
 BILL COWLEY'S NOTE BOOK
 1967



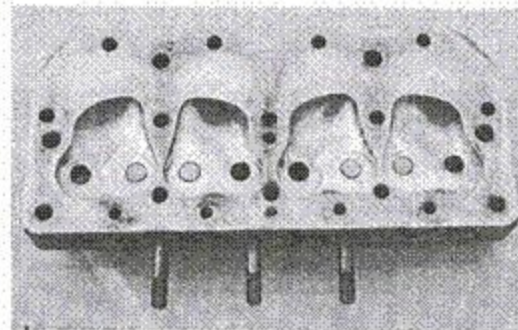
SCALE 1:1

07

Dear Dave

Following David Morgan's article in the excellent year-book please find enclosed a rough drawing of the Cowley head/part arrangement.

As can be seen, the head shape is similar to Bruce McLaren's. However, through experiment it was found to be detrimental to mask the valves as in Dave Morgan's drawing, by relieving the head around the back of the valves an extra 200 rpm were attained thus disproving the folk law that only the area of the valves adjacent to the bores has any significance to breathing.



Also found by trial and error was the position of the spark plugs, if only one plug per cyl. is to be used, over the exhaust valve is the place. The twin plug arrangement again gives some 200 rpm and much improves engine pick up.

All this was developed in conjunction with 4 straight ex pipes length 34" (not the poxy 4 into 1 system now employed for noise reasons) and an inlet tract length of 13.8" (inc. carb).

I hope this is worthy of inclusion in a future bulletin.

Kind regards

Nige Cowley

