The Los Angeles Silhouette Club

The .44 Special Revisited By Glen E. Fryxell

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The .44 Special is renowned for being the source of Elmer Keith's inspiration, for giving rise to the .44 Magnum, and for serving as the vehicle for Skeeter Skelton's pragmatic law enforcement loads. Historically, all of these loads have centered around the use of 250 grain cast bullets. With the ubiquitous nature of the .44 Magnum ammo, components, guns, etc. there's little need to run the .44 Special at the Keith level, and for law enforcement applications, it seems that most all departments have gone over to semi-autos (mostly .40 caliber). So, while the Keith and Skelton loads are just as good as they have always been, the original needs that they were designed to address have been entirely satisfied by new guns and cartridges.

Life moves on.

Does this mean that the nearly century-old .44 Special is on its death-bed? Hardly! In recent years there has been a surge of interest in .44 Special belly guns, starting first with the Charter Arms Bulldog, and then later with the Taurus 445 and Rossi 720, followed by the S&W 696 and 396. I suggest that the short barrels (generally 2 1/2" to 3") and lighter frames of these guns require that we reconsider how we think of the .44 Special cartridge. These little guns cannot handle the pressures of the Keith loads; even Skeeter's load is a bit too stout (pressure-wise) for these light guns, and only delivers modest velocities at best from these short barrels. The solution to these shortcomings is a lighter bullet. There is absolutely no need for a 250 grain bullet in these little guns for trail use or personal protection from cougars, wolves, skunks, etc. (if you're in big bear country, you need a bigger gun). This article is intended to draw attention to the excellent level of performance of the .44 Special from these belly guns using cast bullets in the 200 grain range at 950-1000 fps. Now before anybody scoffs at shooting "itty-bitty panty-waist bullets in a He-Man's cartridge", let me remind you that the respected .45 ACP has been praised for precisely these ballistics (200 grain bullets at 950 fps) for decades. This approach basically turns the .44 Special belly gun into a .45 ACP with the safety, reliability and accuracy of a revolver. And does it at pressures that won't turn that little belly-gun into an alloy pretzel.

In general, the efficacy of moderate velocity cast bullets is a function of meplat surface area, so lightweight wadcutters might be ideally suited for this application (in stark contrast to the semi-auto world, where this blunt profile would lead to feeding problems). There are two such wadcutters that readily come to mind -- the Lyman 429348 (a 183 grain wadcutter), and the H&G #239



The S&W 696 .44 Special.

(a 193 grain WC). One can also induce bullet expansion from cast HP's at these speeds if the bullets are cast soft enough. When working at this velocity level, I prefer to cast HP's from 20-to-1 alloy (or softer). The 429215 GC-HP weighs 201 grains as it drops for the blocks when cast of 20-to-1 alloy. As an all-round practice,

plinking and field bullet for the .44 Special belly guns, it's hard to think of a better one than the fine Saeco #428, a 200 grain plain-based truncated cone (TC). One might also consider the various 205 grain .44-40 bullets in this category. With the exception of the 429215 HP (which was cast of 21-to-1) these bullets were all cast with WW alloy, sweetened with 1-2% added tin. All bullets were sized .430" and lubed with my homemade Moly lube (equal parts by weight Moly grease and beeswax).

For low pressure applications in the .44 Special, there are a number of good powders available, but no powder outshines Unique. On top of this, Unique has burning characteristics that make it very easy to light and provide top velocities and excellent accuracy from the short barrels of these little guns. The Lyman loading manual reports that 8.2 grains of Unique with 205 grain cast bullets (Lyman 42798) generates 870 fps at a peak pressure of 14,000 CUP, and the Hodgdon manual reports that 9.2 grains of Unique underneath a 180 grain JHP generates 1000 fps with a peak pressure of 13,400 CUP. Therefore it was decided to start these tests with 9.0 grain of Unique for the 183 grain Lyman 429348, 8.5 grain of Unique with the H&G #239 (193 grains), and 8.0 grains of Unique for the 200-205 grain cast bullets to stay within these pressure guidelines.

The Lyman 429348 183 grain wadcutter loaded over 9.0 grains of Unique left the little S&W 696 at an impressive 1085 fps, but delivered very poor accuracy (8-12" at 25 yards). The H&G #239 193 grain WC loaded over 8.5 grain of Unique generated a respectable 1068 fps, but also produced poor accuracy. Reducing these powder charges to 7.8 grains of Unique for both of these bullets improved accuracy to where 5-shot groups at 25 yards were now around 4"; better, but not good enough. I believe that these two bullets just don't have enough bearing surface to shoot well in the polygonal rifling of the 696 at these speeds (they do just fine in normal "cut" rifling at typical mid-range levels). Time to move on to other bullets.

Next up in these tests was the SAECO 200 grain truncated cone. Loaded on top of 8.0 grains of Unique, the SAECO 200 TC delivered 981 fps and very good accuracy, routinely turning in 5-shot 25 yard groups of 1 1/2"-2" (not bad for a snubby!).

This has been my preferred field load for the 696 for a couple of years now. It's an excellent grouse/bunny load, as the somewhat smaller meplat of the SAECO TC kills well but doesn't tear up a lot of meat. When sighted in for the Cor-Bon 180s, this load shoots pretty much to the sights.

I have long had a fondness for cast HP's due to the superb performance that I have gotten over the years from the Keith and Thompson HP designs. Therefore, I was very excited when I found a 429215 HP mould (the 215 grain Thompson GC-SWC) since I felt that this might be just the ticket for the S&W 696. The GC would allow it to be cast guite soft, and the weight was in the right range for the loads that I was exploring. A batch was cast from 20-1 and loaded over 8.0 grains of Unique; velocities averaged 978 fps, but accuracy was disappointing. A second batch was cast with recovered range scrap (BHN of about 7.5-8), and these bullets were loaded over 7.8 grains of Unique. This combination produced 944 fps and groups ran about 3 1/2" at 25 yards, an improvement, but not good enough. Once again, I think this is the result of not enough bearing surface for the polygonal rifling at this velocity, as this bullet shoots just fine in other guns. It may also be a little too soft; I might be able to get it to shoot well if cast of WW alloy, but then it would be too hard to expand at 950 fps. This bullet is going to be saved for my longer barreled .44 Specials, with standard "cut" rifling, where it should make a dandy varmint load.

Cramer produced a line of very well thought out and very well made moulds back in the 1930s and 40s (they were bought out by Saeco in 1951, and SAECO continues to produce a number of the old Cramer designs). Relevant to this project is the Cramer 8A, a 220 grain plain-based RNFP that they made for the .44-40. The Cramer 8A has a larger meplat than the typical RNFP of this period, giving a .44 snubby the ability to deliver a hearty thump. The Cramer 8A was cast with WW alloy (220 grains) and loaded on to of 7.5 grains of Unique. This load produced 935 fps and exceptional accuracy, along with the best single group of this series of tests (4 shots into just under 1" at 25 yards, with a called flyer low, that opened the group up to 1 5/8"). This load printed about 5" above point of aim when sighted in for the Cor-Bon 180s. While it will require adjusting the sights to go from one load to the other, this load is now my preferred field load for the 696 as a result of its broad meplat. SAECO still produces this fine mould design.

When the discussion turns to meplat diameter, the name of LBT is bound to come up. Pertinent to this discussion is their .44 230 WFN (wide, flat nose) bullet design. Once again, these were cast of WW alloy (237 grains), sized .430" and lubed with home-made Moly lube. They were loaded on top of 7.0 grains of Unique and test-fired, producing 905 fps and good accuracy (1 3/4" groups at 25 yards). This load also shot high (relative to the Cor-Bon 180s the gun was sighted in for). Once again, excellent thump for an L-frame .44 Special snubby.

The key to getting good accuracy out of a cast bullet load from the S&W 696 seems to be choosing a bullet with sufficient bearing surface to minimize slippage when the bullet gets engraved onto the polygonal rifling. Lighter bullets tend to have less bearing surface, and hence are more prone to slippage. The lighter bullets that were found to be accurate in these tests were those that had



Bullets that were found to shoot well out of the S&W 696 .44 Special (I-r: the Saeco 200 grain TC, the Cramer 8A 220 grain RNFP and the LBT 237 grain WFN). longer than normal (for their weight) bearing surface, and included the SAECO 200 grain TC, the Cramer 8A and the LBT 230 WFN. With the sharper "edge" of standard "cut" rifling (found in other revolvers), this slippage is less pronounced.

S&W recommends that their "Mountain Lite" (the 3" S&W 396 aluminum-

framed, titanium cylinder .44 Special revolver) should be loaded with lightweight bullets to eliminate bullet slippage under the sharper recoil impulse that this featherweight revolver generates. While I haven't worked with a 396 yet, I suspect that the loads containing the Saeco 200 TC and the Cramer 8A would be just the ticket. The LBT 237 grain WFN may be a little too heavy for the 396 (no problem at all though for the steel-framed S&W 696).

While the performance of the large-framed .44 Special revolvers was optimized years ago with Elmer's and Skeeter's loads built around 250 grain bullets, the smaller, lighter .44 Special revolvers popular today are better served with smaller, lighter bullets. While the 180-190 grain wadcutters delivered poor accuracy in the polygonal rifling of the S&W 696, the 200-230 grain flat-pointed bullets at about 950 fps are an excellent fit for the dainty little S&W 696, and make dandy field loads. With bullets of sufficient bearing surface, this little gun delivers superb accuracy. This is .45 ACP level of performance, with revolver accuracy, safety, and reliability, and Cramer 8A and the LBT 230 WFN provide all the meplat you could ever want (with no worries about feeding reliability!). The .44 Special is a cartridge deserving of being revisited, and it rewards those that do so.

- Glen E. Fryxell

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