CLASSIC AFRICAN CARTRIDGES

Mini Compendium of Big Bore Cartridges Part One of a Three Part Series

by Daniel McCarthy

Introduction

Not for more than 100 years has there been such a surge in interest in big bore cartridges as there is today. This interest is fuelled at least in part by the relative affordability of hunting game for which big bore cartridges are suitable. Such game is generally limited to bitche skinned dangerous game, namely Cape buffalo, elphant, hippo on land, and white rhino. For half the cost of a typical new car, we can hunt Cape buffalo and plants game. Trophy bull elephant can be hunted in south Afries are the same budget.

It is not necessary to be wealthy or even a high income earner in order to afford dangerous game hunting in Africa. By scrupulously setting money aside and making a few personal sacrifices to cut expenses, such as giving up eating at restaurants, nor buying tickets to professional sporting events, avoiding new or expensive cars and trucks, and by turning some of part of a gun collection into cash, almost every American wage earner will be able to afford a dangerous game hunt in Africa.

With the relative financial accessibility of thick skinned dangerous game hunting comes a natural interest on the part of the sportsman in rifles and cartridges appropriate for that sport. Although none of us would saffer if our thick skinned dangerous game hunting were to be done exclusively with the .416 Rigby, .458 Lott and .470 Nitro Express, there is added excitement to shooting the largest and heaviest of bullets. But there is even more good news for the big bore fan. Prices for newly-produced double rifles are at an all-time tow with several fine offerings from Searcy, Heym, Merkel, Krieghoff and Sig coming in at around USS1,000. For a similar amount, a very nice big bore bolt rifle from several master craftsmen may also be acquired. Alternatively, there are some low-budget options for the big bore fan which will result in a very functional big bore dangerous game rifle for about USS3000.

wildcat cartridges .50 calibre and larger that are suitable for use on thick skinned dangerous game. As a beginning proposition, cartridges that use bullets with a sectional density of less than ,300 or which cannot achieve a velocity of close to 2000 f.n.s. have been omitted due to the inadequate penetration that results from those ballistics. These criteria require me to rule out any discussion of production lever action cartridges and any discussion of 2 bore, 4 bore, 8 bore, 10 bore and 12 bore rifles Although such guns may be fun projects, their poor penetration precludes them from serious consideration in a practical dangerous game rifle. Also, energy figures are not provided in this article because they are misleading. Thick skinned dangerous game do not seem to be much affected by the energy of the cartridge they are shot with, so it would be error to conclude that one cartridge would be more effective. than another based solely on energy figures. Rest assured that all of the cartridges discussed in this article have plenty of power for dispatching elephant, buffalo or whatever else is on license

Just about any cartridge can be used to kill a Cape buffalo with a properly placed broadside lung shot, as the tens of thousands of buffalo fallen to AK-47 rifles have proven. But stopping an enraged bull or penetrating to his vitals from a poor angle can test the limits of any cartridge. Elephant provide an even more difficult penetration challenge since a frontal brain shot on an elephant will require puncturing several feet of trunk and skull bone before the brain is reached. Likewise, buffalo shoulders and jawbones, and buffalo and elephant skulls are notorious for runing bullets, so only quality monolithic solids or other premium non-expanding bullets should be considered by those with an inclination toward self-preservation.

Each cartridge summarized is discussed primarily from the point of view of building an affordable bolt action rifle to use for thick skinned dangerous game hunting. Example loads and ballistics are shown. The nitro express cartridges are discussed for comparison purposes, even though they are twically available only in more expensive double rifles

African Perspectives

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500 Jeffery rifle built by Rvan Breeding.



505 Gibbs by riflemaker Rsan Breading using Granite Mountain Arms action. This rifle combines toestful beouty with deadly efficient performance at a reasonable price. The magazine loss, fullwier, front and year sights, stock and other parts are all mode by Ryan in his workshop to achieve flowiess function and impaccable quality.

(the Heym and Hambrush bolt rifles being notable exceptions). I hope that all readers will have the chance to build or purchase a big bore rifle and hunt dangerous game with it, or at least be deterred by the mistakes of those of us who have.

The .505 Gibbs

The .505 Gibbs was designed by George Gibbs of London to provide by bore stopping power in a Masser style bol sector rifle, it considered the king of the classic big bore cattridges and is gigantic in its dimensions. The actions that will properly handle the cartridge agigantic as well, and the price tag for a rifle in this calibre has a Texas-sized price tag.

The 550 Gibbs has an overall length of 3.85 inches, making it mustitable for all but a few magnim actions. These considering a 505 Gibbs would do well to use an action that has a bolt body diameter of more than 0.700° (which is standard in the modal 70model 98° CZ550) because after the bolt fine is topened up for the Gibbs 0.640° (mit, there is just a very thin silver of metal left on the bolt opposite the extractors is just a very thin silver of metal left on the bolt opposite the extractors. Starting with a larger diameter bolt at the usted, such as the 0.750° bolt found in Grantie Mountain Arms magnum Mauser actions, adds to the durability of the rifle. Another alternative is a P14 Enfield action since the P14 bolt has a fell fuglish et extends beyond the bolt fice, providing extra metal opposite the extractor which can accommodate the Gibbs very larger fin.

Af first glance, the -505 Glöbs original factory ballistics of a 325 grain bullet at 2300 Ips do not appear to offer much more power than a .458 Winchester Magnam. After all, it is just 25 more grains of bullet weight and 150 feet per second more velocity. However, the ballistics can be improved by stepping up to a 600 grain bullet at -2400 feet per second. Of course the Colbbs also has the advantage of greater bullet diameter than the .458.

At present, factory .505 Gibbs rifles are available from Reimer Johannsen

(www.johannsen-jagd.do), Hartmann & Weiss and Heyri (www.heyriweiffenfahrik.do). C' atmounced its introduction of a .505 (67bb r tile at the shot Show in 2005. Alternatively, muster gunsutil Ryan Breeding. of Palmdale. California (www.bribjebors.com) offers a beantiful five shot .505 Gibbs bolt rifle, and custom gunmaker loe Smithson of Provo. Utals turns out perfection in a .505 Gibbs on a Granite Mountain Arms action. Karl-Heinz Ritterbusch (www.jngd.gow.bre.com/eng/) offers top quality.505 Tilles as well:

Most 505 Gibbs rifles made today are custom built by individual gunsmiths with about a 1-2 year lead time. It is a magnificent classic cartridge with wonderful stopping power. For those who wish to maximize the punch of a hunting rifle, even more potent combinations are discussed further below. Recoil from the 505 Gibbs is significant due to the heavy powder charges it uses. To control recoil, 505 Gibbs rifles should weight 11 pounds or more.

On Cape buffalo, the 505 Gibbs has been observed to have significantly more shock effect than anything in the 458 class, due to its greater bulled diameter. Performance on game of the 500 Jeffery, 500 A118, and 500 A-Square will be essentially the same as the 505 Gibbs. The advantage of the 505 Gibbs is the classic design and standard dimensions without a rebated rim. The disadvantages include need for a very expensive magnum Mauser action, periodic shortages of brass, sometimes inconsistent brass quality, and a relatively narrow selection of bullets for the 505° dibmest brove. If you want a 505 Gibbs, there is no inexpensive route, other than CZ's new offering. But a well-made 505 Gibbs a rifle is a centuin treasure.

Example loads:

artridge	Powder	Primer	Bullet	Velocity
505 Gibbs 505 Gibbs lotes	120.0 grains Reloader 15* 136.0 grains Reloader 22	F215	600 grain FMJ 525 grain A-Square	2325 fps. 2328 fps.

Use of a slower burning powder such as IMR7828 or RL22 permits fillers to be avoided.