

This topic can be found at:

<https://forums accuratereloading.com/eve/forums/a/tpc/f/4711043/m/2861098911>

Balule

05 July 2014, 12:53

Terminal Bullet Performance

While hunting the other day shortly after full moon, when the locals poach with their dogs at night, I bumped this poachers dog wandering around aimlessly. The closest rifle at hand was the 500NE with the 475gr Raptor at 2200fps, a running shot at 25yds hit the dog very high on the back outside the abdominal cavity(the entrance wound can be seen somewhat to the right of the long blade of grass). The dog was eviscerated by 2 petals which passed through the abdominal cavity and exited.



boom stick

06 July 2014, 03:18

Great to read about your visit Michael. It is a dream come true to see these bullets doing well in Africa. Regarding the highly compressed loads and the solid nose profile of the ESP going in the case causing a bulge on straight cases, perhaps a solution could be a 13 degree ring to act as a gasket to prevent the issue. Imagine a short tube section with an internal 13 degree chamfer tapering from the flat nose 67% diameter to 100% the bore diameter. This should be cheap and easy to manufacture. It would change the useable case capacity a tad if needed but the issue only happens if all three variables are present. If I needed 100% reliability meaning no bulge issue on say a 500 NE on an Elephant hunt a 5 cent ring is not a big deal. The ring should be useful no matter what side is loaded since both sides have the same profile. Just drop in the highly compressed charge(if no filler being used), drop in the ring than stuff with the ESP Raptor.

[577 BME 3"500 KILL ALL 358 GREMLIN 404-375](#)

we band of 45-70ers (Founder)
Single Shot Shooters Society S.S.S.S. (Founder)

boom stick

06 July 2014, 03:50

I never thought about poachers in Africa using dogs before. Perhaps the Game Wardens could use dogs to fight poaching. I am sure some blood hounds could be of good use there.

quote:

Originally posted by Balule:

While hunting the other day shortly after full moon, when the locals poach with their dogs at night, I bumped this poachers dog wandering around aimlessly. The closest rifle at hand was the 500NE with the 475gr Raptor at 2200fps, a running shot at 25yds hit the dog very high on the back outside the abdominal cavity(the entrance wound can be seen somewhat to the right of the long blade of grass). The dog was eviscerated by 2 petals which passed through the abdominal cavity and exited.



577 BME 3"500 KILL ALL 358 GREMLIN 404-375

we band of 45-70ers (Founder)
Single Shot Shooters Society S.S.S.S. (Founder)

LionHunter

06 July 2014, 06:03

Poachers will use dogs throughout Africa and while I am a dog lover - German Shepherd Dogs - I have been asked by PHs to kill any dog I saw in a hunting area. And I would.

Mike

DSC
DRSS (again)
SCI Life
NRA Life
Sables Life
Mzuri
IPHA

"To be a Marine is enough."

Sean Russell

06 July 2014, 10:17

quote:

Our buddy Org, and his 50 B&M Alaskan!

Org would be a better buddy if he would come up with my zebra from 2012--

I refuse to believe that Lifeforms is that far behind---

Just saying-----

"The rule is perfect: in all matters of opinion our adversaries are insane." Mark Twain
TANSTAAFL

www.savannagems.com A unique way to own a piece of Africa.

DSC Life
NRA Life

ledvm

06 July 2014, 19:58

quote:

Originally posted by Michael458

As it ended up, this became my son's Safari with Mark David doing the bulk of the hunting and shooting. I actually only fired 4 rounds on this safari, and two of those were sighters to check the rifle! I personally never recall shooting so little myself. One factor involved was the performance of Mark David himself, he never gave me an opportunity to shoot or do any backup for him, his shooting was superb to say the least, in fact it was 100% perfect.....

Long before this hunt I asked Mark David his choice for rifle, it took about 1/2 a millisecond for him to respond, his own 475 B&M Super Short that he used so successfully in 2012 in Australia.

Michael

Good stuff Michael!

~~~~~  
J. Lane Easter, DVM

Socialism is slavery to government regulation. To be pro socialist is to be pro slavery. You can't have Freedom if you have socialism.

**Balule**

06 July 2014, 21:57

quote:

Originally posted by LionHunter:

Poachers will use dogs throughout Africa and while I am a dog lover - German Shepherd Dogs - I have been asked by PHs to kill any dog I saw in a hunting area. And I would.

Yes, Lionhunter, we are also dog lovers of note but then a gentleman has a civic responsibility to maintain law and order!

Rigby, our blood tracking basset hound had to witness the foul deed happening in front of his eyes!

The other ruction was the 5 year old sitting next to Rigby on the back of the truck, just the previous week he and his mother had a long discussion about why we don't shoot our dogs. He is still broadcasting aloud about the bad and nasty dog that used to steal impala. He was also upset that we left it in the bush and didn't skin it.

**416Tanzan**

**06 July 2014, 23:49**

Have a restful flight home, Michael and family.



+++++

"A well-rounded hunting battery might include:  
500 AccRel Nyati, 416 Rigby or 416 Ruger, 375Ruger or 338WM, 308 or 270, 243, 223" --  
Conserving creation, hunting the harvest.

**michael458**

**09 July 2014, 14:37**

Good Morning Guys!!!!!!!

HOME AT LAST.....

Have been busy in the extreme, trying to catch up REAL work, and making progress, put in a 14 hour day yesterday... Somehow, not sure how exactly, but getting there. Another long day today looks like as well.....

After this trip I will be taking a bit of a break from the field. While it was a great trip and much was done with Mark David at the helm of this one, it is time for me to take a break from it for awhile, enough is enough. Personally, I must find something that will peak my interest before going to the field again. With the B&Ms well tested as cartridges, rifles and calibers there is not much new discovery there. Bullets? Well, where does one go from the current CEB #13s and descendants, and North Fork? Been there, done it..... I will be doing my time here on the range/lab and other areas of study.....

I still have some terminals left to do with some solids in the very near future, still looking at some of the .500s that I have talked about for some months now, but just can't get to it. Balule gave me some solids from a manufacturer in South Africa we will be looking at, in 416 and .510 caliber. Damn my dumbass, while visiting Dawid, he gave me a 458 caliber.... #13 Knockoff.... Yes, it is very similar to a #13 Solid, smaller meplat size, but nice radius, multiple bands, and is probably a decent bullet.... But I ONLY HAVE ONE!!!!!! Damn, should have bought 20 of them or so from Dawid to test! Just slipped my mind at the time..... I think I might test the one bullet I have, a few times, just reload it..... LOL.....

Got a call from Lonnie yesterday from Superior Ammunition. Superior Ammunition is right here in Summerville SC, about 1.5 hours from me. Lonnie and I have been talking since he bought out Superior Ammo and he is dropping in for a visit this Saturday. We look forward to the visit. He is troubleshooting a 600 Nitro Bolt gun so reckon we will play around with that some, and he has some loaded rounds with of course the big .620 #13s..... Will report on our visit.....

Superior is the designated custom ammo for the B&M cartridges, should anyone that does not hand load need that service. Lonnie gets his info direct from B&M headquarters..... HEH.....

You know some of the boys upstairs just do not have any ears! While I try, its almost a waste of time, like my damn kids, can't figure why they even have ears, don't know what they are for..... Possibly way over their heads as well..... Hmmmm? I see what I mean..... I won't elaborate, just a pet peeve I suppose....

Well, back to work..... Much work to be done before I sleep again.....

M

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**michael458**

**09 July 2014, 20:23**

OK, I am not going to lie to you, I am goofing off!!!!!!! The reason I am here making another post, is because I don't want to be working and doing something else.....



I feel like that little guy beating his head off on the computer..... LOL.....

OK, goofing off in the office, I ran across something that I think is worth US taking a look at. I hate Facebook..... and never go there, don't even check my own and tried to delete it.... But I linked over to the CEB Facebook page, and found some rather interesting things there, that answers some questions that some of US, Not me of course, but some of you might have had. One thing the .375 235 ER Raptor..... See Below.....

quote:

"I have been a long time Barnes X bullet user, however my rifles shoot the Raptor faster, more accurately and with less fouling. This caribou, taken along the edge of the Alaskan Range, fell with a single 235 grain Raptor. Shot distance was 230 yards broadside. The impact was tight behind the shoulder, and about the 1/3 mark up. At impact the bull lurched and ran about 8 jumps, doing a nose dive into the tundra. I would estimate 3 seconds elapsed time from bullet impact to nose dive. The entrance was very impressive though, and the Blunt Trauma Base™ gave straight line penetration. Exit hole was about 1" in diameter, while the entry hole through the near side rib cage was very large- about the size of a tennis ball. By the way, muzzle velocity was 3,000 fps. The Raptor's quick/massive expansion, combined with complete penetration, leaves nothing more to be desired.

No longer do you have to trade shock/expansion for penetration. The Raptor is my big game bullet. Not only is the bullet great on game, Cutting Edge Bullet's customer service is A+."

-Mack H.



Cutting Edge Bullets William Stofferahn - Mack was using a 235 ER Raptor in his .375 H&H, because there are also grizzly bear where he was hunting. The ER Raptor- which shoots fast and flat for long

shots on caribou- would also be great if he had to stop a determined bear.

Found this photo of that bullet.....



Now I found this rather interesting... comes from Phil Shoemaker, but never heard of him saying much about these bullets. But I also don't follow that close.....

quote:

Successful Performance- October 2013: "This brown bear was wounded and would have been lost, had it not been for the performance of the 235 gr .375 CEB bullets that my guide Mike Fairbanks was using (in a .375 H&H). Phil Shoemaker- licensed Alaskan Master Guide"



I think that is enough to answer the question of the .375 caliber 235 ER Raptor.....

Now back to doing something productive.....



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**Hog Killer**

09 July 2014, 21:22

That is one big "rat", in the second picture. Glad he had a "rat gun"! 😊

Keith

IGNORE YOUR RIGHTS AND THEY'LL GO AWAY!!!

-----  
We Band of Bubbas & STC Hunting Club, The Whomper Club

**capoward**

09 July 2014, 22:12

Yep definitely puts that to rest...



Jim  
"Life's hard; it's harder if you're stupid"  
John Wayne

**TrademarkTexan**

11 July 2014, 00:54

I'm loading some of the .375 235 gr ER Raptors for a buddy to take to Namibia in August. I called CEB and Trapper gave me that 75 gr of RL 15 load.

Seeing that picture, he has it seated to the second band...I had to seat to the top band to fit magazine and chamber. That means that I will get higher pressure and presumably velocity with the same load, but seated deeper, or am I off there? I started at 71 gr and worked up so should see signs of excessive pressure as I work up but I'm guessing if 75 was his max it will be too much with the bullet seated one band deeper?

Use enough gun...  
Shoot 'till it's dead, especially if it bites.

**RIP**

11 July 2014, 07:46

I used to use 72 grains of RL-15 with the old Barnes XFB .375/300-grain bullet and got excellent results for that heavier bullet with large bearing surface and length.

I am taking note of the 75-grain charge of RL-15 for use with the .375/235-grain CEB in my Ruger No. 1 .375 H&H.  
No problem with that C.O.L. in a Ruger No. 1, or CZ 550 Magnum with 3.8" box, though maybe with a 3.6" magazine box:

Just work up to a velocity of 3000 fps.  
Yes it may take less powder when seated deeper, maybe not much difference.  
Maybe you will just get 3000 fps or slightly higher velocities at slightly higher, though safe, pressure.  
Maybe you will get 2950 fps with slightly less powder and same pressure.  
Try it and see ... Your plan does not sound dangerous at all. 😊

Loading long may be the accuracy trick with this bullet in the standard .375 H&H throat. 😊

**michael458**

11 July 2014, 15:10

Texan.....

quote:

Seeing that picture, he has it seated to the second band...I had to seat to the top band to fit magazine and chamber.

I believe Trap loaded that round for Ruger#1.....

Not sure if that 75/RL 15 would have been max or not. Correct, you MIGHT raise pressures slightly by seating down another band, but I would not get too concerned over that, in the end, I don't think you will see much issue... HOWEVER-- With that being said, you are doing it proper by working up to the 75 grains, and not going straight to it! HEH HEH... ME, I'd go to 76... LOL... KIDDING--Well, maybe not!

Do what you are doing, work up. I think you will be ok..... Weight Equal Pressure, I am not familiar with any loads in 375HH, but Weight regardless of caliber/cartridge, rifle, powder anything, equals pressure. Next in line is bearing surface.... if weight is equal.....

Just this second I made time to look in one of the Barnes Manuals, and they list up to 79/RL 15 Max with their 235. The Barnes has way more bearing surface, and copper with is sticky.... Now with this in mind, I would not be the least bit concerned at 75+... But, continue to work up.....as every rifle, brass, and other components are not the same as what was used in the manual anyway, and especially RL 15.....

RIP..... I concur.....

#### HOW ABOUT SOME CARNAGE?

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**michael458**

11 July 2014, 16:02

Before I left on our adventure in Zimbabwe, our very good friend 450NE just returned from his Buffalo + trip. 450NE is a very good friend to both Sam and myself, and we enjoy visits from 450NE on occasion. He is a big supporter of the B&Ms and has at least 3 rifles that I remember. However, he is also somewhat attached to those glued together poop pipe things like Sam is... 😊

And this trip he took was about the poop pipe gun! At least it is in a real proper caliber, 500 Nitro.....

450NE used on this trip the 475 #13 Raptor.... And with Talon Tip. I am not sure what the velocity was, maybe he can tell us.... But this has proven to be an absolutely devastating bullet in the 500 NE. Many of you have been getting some really incredible results in 500 NE with the 510#13 Solid/475 #13 Raptor, I know several elephants now taken with the 510 Solid, and lots of buffalo +++ taken with the matching 475 Raptor.....

On this trip 450 NE took 2 buffalo (DAMN GOOD ONES TOO), 4 Wildebeast, 1 Impala, 1 warhog.....

Buffalo #1.....

Running from right to left the 475 Raptor hit above the heart taking out ALL major blood vessels, and went through the lungs. Buffalo made it 20 yards after impact before biting the dust.....






ENTRANCE WOUND THROUGH THE RIB CAGE..... As you can see, typical fashion, large massive entrance wound blowing chunks of bone fragments through the lungs, heart, other vitals. Of course the bullet exited far side.....



Buffalo #2.....

Damn I love the way this buffalo looks!!!!!! This should have been a B&M BUFFALO!!!!!! LOL..... I know how to work PHOTOSHOP..... HEH..... Take that poop pipe out and put a real gun in! 

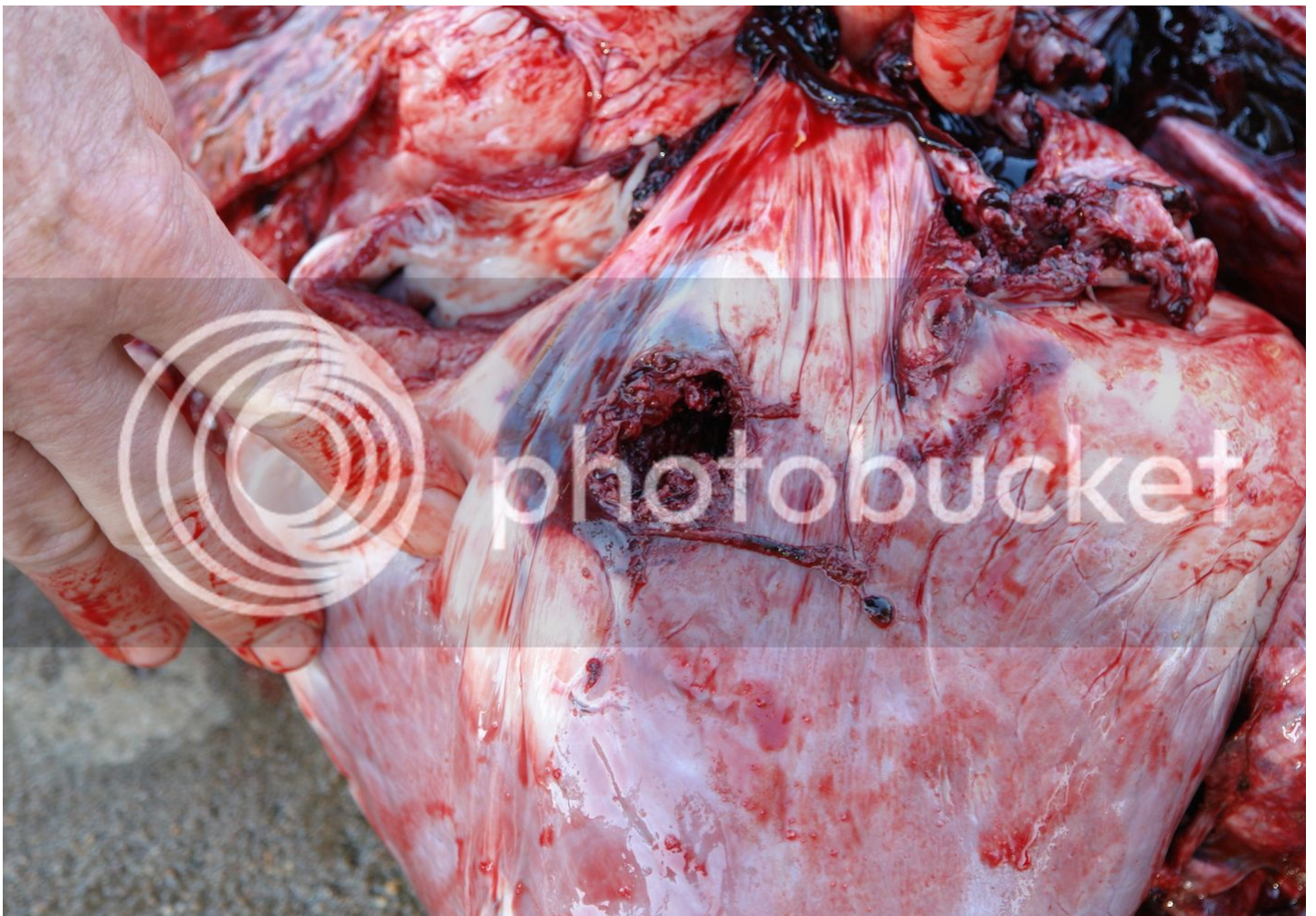
This buffalo was shot frontal at long range.... 80 yards. 450NE can shoot very well, I know, have seen him do some really incredible things that I personally would not... No, that's not the right choice of words, more like I Personally COULD not do..... Bullet went through the top of the heart, hit the liver along the way, and found in the back of a very full stomach!!!! Want Penetration? Do you know of any SOFT POINT CONVENTIONAL BULLETS that can do that? Remember, the BACK OF A FULL STOMACH... Not making to the stomach..... the back of..... And, this is a 475 gr .510 caliber bullet.. Not a 570 gr .510.....

Fact is, this was one of TWO bullets recovered on the trip... Will tell you about the other shortly.....



Frontal Entrance.....





Massive damage inflicted.....



Typical recovered #13 Raptor.....



450NE took 4 Wildebeest on this trip..... I love putting bullet to wildebeest, just kinda looks like a buffalo to me, many call it the "poor mans buffalo". I have shot a load of the buggers, and I can tell you they are tough as can be, not quite zebra tough, but just under that in my opinion. Shoot them with rat guns 338-358 conventionals, they are going to run. I shot 4 with 9.3 and 210 Raptors... 2 dropped DRT, and two Ran. When shooting them proper with 458-500 caliber all but two of those ran, all the rest were DRT, and all this was with various #13 Raptors. The two that ran, well one was a 500 MDM and I gut shot him proper, after 250-300 yards we found him DEAD from a gut shot!!!! Another last year with 458 B&M and 250 Socom GUT SHOT.... in 100 yards we found him so sick he could only walk, I finished it..

450NE 3 of his 4 were DRT with the 475 Raptor in 500 NE. The on that ran was a brisket shot and it did not go far, that bullet was recovered in the left ham of the animal..... Again, that is a lot of penetration.....



And last, and perhaps LEAST..... LOL..... a really good warthog taken with 250 Socom and 458 B&M..... DRT on the spot.

As expected from a real proper B&M Rifle..... 



Thanks 450NE for the photos, descriptions you provided, and more than that, your friendship..... Can't wait until your next visit..... Congratulations on a very very successful hunt, with proper CALIBERS, Proper Bullets, and at least ONE PROPER B&M RIFLE..... 🍷

Naturally I am just "fooling about with the poop pipe boys" HEH.....

Now I simply must get back to work and continue to catch up..... This working stuff really ain't a lot of fun, but it does pay for the bullets.....

Enjoy your day, whatever it may bring.....

Michael

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**capoward**

11 July 2014, 21:50

450NE, Congratulations on the hunt and hunt results.

It's really to bad the Weewee identified that the Raptor petals don't do any damage after they shear... 😞 ... otherwise there might have been more trauma to the innards. 😞

Jim 🍷  
"Life's hard; it's harder if you're stupid"  
John Wayne

**michael458**

11 July 2014, 22:39

quote:

petals

Blades, Jim... Blades.....

Flowers have Petals..... These ain't no flowers.....

HEH.....

M

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**capoward**

11 July 2014, 23:02

quote:

Originally posted by michael458:


quote:

petals

Blades, Jim... Blades.....  
Flowers have Petals..... These ain't no flowers.....  
HEH.....  
M

Oh ok...

You best let Dan know though so he can change the descriptions on all the Raptors...

Jim   
"Life's hard; it's harder if you're stupid"  
John Wayne

**michael458**

11 July 2014, 23:53

quote:

You best let Dan know though so he can change the descriptions on all the Raptors...

Damn hard to get good help these days!



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**450NE**

12 July 2014, 00:24

Michael,  
I used 109 grains R15 with the 475.  
Have never checked velocity, I have 26 in. barrels, your data with 24 in. barrels shows about 2450.  
FYI at 50 yds. gun shoots less than an inch with 475's or 510's or a combination of both.  
I love my B&M's - 458, 416 & 50SS, best mountain rifle I ever had!  
If I could shoot as good as you, I wouldn't need 2 barrels!  
It's a real pleasure knowing you & Sam!  
See you soon,  
Mike

**coyote wacker**

12 July 2014, 00:33

quote:

Originally posted by capoward:

quote:

Originally posted by michael458:

quote:

petals

Blades, Jim... Blades.....



Flowers have Petals..... These ain't no flowers.....

HEH.....

M

Oh ok...




You best let Dan know though so he can change the descriptions on all the Raptors...

Well all I can say is every animal I've put a Raptor in is pushing up daisies....  

**D R Hunter**

12 July 2014, 00:35

OK. This penetration depth with an expanding bullet is just about qualifying as Science Fiction when compared to older designs of bullets! {R/N} A .510 caliber bullet at 475 grains is sectional density **.26088 !!!!!!!!!!!** The old rule of .300 sectional density is as destroyed as the tissue is in these two buffalo!!!

    
I think what begs to be asked Now is, might experiments be done with CEB monolithic, banded solids at this same ~.260 sectional density, by firing such into skulls of live elephant, to see if they are consistently penetrating deeply enough to become the sectional density of choice for *Either* category of bullet, expanding and non-expanding. We've seen Michael 458 already prove the .280 sectional density in non-expanding CEBs are totally reliable to go DEEP!

Lord, let it be SO!

**D/R Hunter**

**Correct bullet placement, combined with the required depth of bullet penetration, results in an anchored animal...**

**Gerard**

12 July 2014, 11:46

DR Hunter,

This brings back memories of a post made here on AR in October 2001. <http://forums accuratereloadin...?r=20110982#20110982>

**michael458**

12 July 2014, 14:13

quote:

Now is, might experiments be done with CEB monolithic, banded solids at this same ~.260 sectional density, by firing such into skulls of live elephant

DR.....

Maybe you missed this?

quote:

We all went down to our knees to wait. Mark David positioned to my left and just in front, Corris and Andrew both just off to one side and behind us. One smaller bull came into the opening and passed in front of us 10 yards away, then another, and the third in line was the medium bull which Corris said to take. By now there was concern showing in the elephants, they knew something was not right, and they became aware of our presence, Mark David was now at full stand, rifle up, for a side brain shot on #3..... I was still somewhat crouched but standing just to his side, as he fired the elephant collapsed in classic style, rear end first, followed by the front, I knew at that instance it was all over and no reason at all for me to back anything up, or even raise my rifle. However, we did stay very alert for the next few moments as to the actions of the other elephants, which all turned and ran not to return. Mark David put the insurance shot up through the heart between the legs, and the rest is history..... Without a doubt, it was one of those wide eyed "WOW" moments for Mark David, and a very proud Father.....

When it was all said and done, that little bullet, 350 gr .474 caliber BBW#13 Solid at 2200 fps had passed completely through that elephants head and for all I know is still going..... I'd say one could not ask for much more than that..... I can't wait to hear the discussion on this one.....



The SD of the .474 caliber 350 #13 Solid is **.223**

Sean tested hit 458 B&M Super Short and the 325 #13 Solid on his big bull elephant frontal, it penetrated skull/brain for a total of 6 feet of penetration, as I RECALL..... SD of **.221**

My Son Matthew shot both .500 caliber 375 gr #13s and the New North Fork Profiles Solids in 2012 on several Australian buffalo, none of these were recovered from any angle..... SD of **.214** and I have zero doubt of how these would penetrate elephant.....

Would I recommend this as a new standard? Short answer, NO....Not for primary purpose of elephant. Buffalo/Hippo, absolutely zero issues, and they most certainly have plenty of penetration for the perfect elephant shot. But life is not perfect is it? And neither are field conditions. I DO NOT PLAY THE SD GAME, but if we were to play that card, then with a CEB #13 Solid, or the New North Fork Profile (not so new couple of years +) then I would hunt anything that walks the planet, and T'Rex himself with one of these at SD .250 without any concerns at all.....

The reason the benchmark in the OLD DAYS was .300+ was due to POOR ASS DESIGNED BULLETS.....

Things have changed.....

Michael

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**michael458**

**12 July 2014, 14:27**

quote:

A .510 caliber bullet at 475 grains is sectional density .26088 !!!!!!!!! The old rule of .300 sectional density is as destroyed as the tissue is in these two buffalo!!!

And there is this one, yet another step down in SD with these bullets.....

quote:

The buffalo was right around 45-50 yards best guess and presented a point of the shoulder shot on the left side. The 410 Raptor hit exactly where it was supposed to. It was very clear that it hit extremely hard and with extreme prejudice. The animal was not capable of running at all, the very best it could do was turn around 180 degrees and present the right shoulder to me. Which at that moment I turned one of the 450 #13 Solids loose. Now what I COULD NOT SEE (AGAIN) was a tree in direct line with that right shoulder was an 8 inch tree!!!!!! In fact, I never saw the tree until going down to the downed buffalo. In the end, the 450 #13 Solid plowed through the tree, hit the buff's right shoulder dead straight perfect, and passed completely through both shoulders and I suppose may still be going round in Zim somewhere..... Let me repeat, 450 #13 Solid .500 caliber 2350 fps, 8 inch diameter tree, and completely through both buffalo shoulders dead straight and gone..... In the process of all this, the bullet hit that tree so damned hard it knocked the bark completely off of it for a span of over 5 inches wide across the entire diameter! I should have looked for the bark on the ground, I never thought of that until just this second, but I don't recall seeing any laying around at all, what happened to it I do not know? I was rather amazed at how hard this bullet hit.....

At the point of the shoulder angle, the 410 Raptor at 2500 fps had stopped mid stomach on the far side of the buffalo, we could see and feel it under the hide. A total of 40 inches of total penetration. We recovered the bullet back at the skinning shed, and this bullet inflicted incredible trauma to flesh and bone along the way, it is no wonder the animal could not do more than turn around in its tracks..... Absolutely devastating to say the least. There is no doubt in my mind this is a good and proper buffalo bullet in any of the .500s from

Things change..... The SD of the .500 caliber 410 gr Raptor is **.235**, if one choses to play the SD card.....

One must keep in mind, there are many other factors that trump SD in both our new Solids and Raptors, and expanding CPS, in terms of not only penetration, but performance as well....

Now, with a Raptor once the BLADES SHEAR, SD is far LESS than it was to begin with..... Hmmmmmm..... Thoughts to ponder I suppose eh?

I do NOT INTEND to get in any more arguments concerning SD as have been discussed in past YEARS.... Waste of time to those who wish to do nothing but argue..... Just FYI for a chosen few.....

Michael

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The New Word is "Non-Conventional", add "Conventional" to the Endangered Species List!  
Live Outside The Box of "Conventional Wisdom"

I do Not Own Any Part of Any Bullet Company, I am not in the Employ Of Any Bullet Company. I do not represent, own stock, nor do I receive any proceeds, or monies from ANY BULLET COMPANY. I am not in the bullet business, and have no Bullets to sell to you, nor anyone else.

**D R Hunter**

**12 July 2014, 21:07**

I use SD because "I only know so much". M458, Gerard and countless others know infinitely more than I, on this topic. SD = bullet weight compared to bullet diameter, No? Gerard, is weight not a component of MOMENTUM? You speak of momentum as so important, and I understand that. I wholly support the wide & flat tip driving band bullet users, especially when used in cases that used to be dominated by R/N Fully jacketed bullets as Taylor chose to use on elephant.

If I take a GSC FN or CEB #13 of 510 caliber at 510 grains, fire it on a beach at 2200 FPS MV at a 55 gal. drum filled with sand 25 yards away, that bullet has a certain momentum. If from the BOTTOM I perfectly drill out the center 25% of the bullet, leaving the forward most .3" alone, the bullet loses weight, and if fired at the same 2200 FPS MV at a second sand filled 55 gal drum, the modified FLYING bullet HAS LESS MOMENTUM, AND LESS ENERGY directly related to less weight.

What am I missing? 😊

My goal would be to get best possible penetration into elephant skulls. I don't want more recoil than necessary. I want to use the best SHAPE, and type of bullet made of the most appropriate metal. I want to hunt up close, so trajectory is less a factor when you just don't fire at game over 25 yards. So 2150-2200 FPS MV is certainly enough. A guy like me then, desires to test recoil AND my ability to fire two properly placed shots quickly from my D/R, with various calibers OF ONE COMMON SECTIONAL DENSITY, SHAPE, DESIGN TYPE, AND MADE OF THE SAME METALS, to know what cal. is for me!

Am I wrong? 😊

**D/R Hunter**

**Correct bullet placement, combined with the required depth of bullet penetration, results in an anchored animal...**

**Gerard**

DR Hunter,

**12 July 2014, 21:27**

You are entirely correct. In the situation that you describe with the drilled out bullet, less weight at the same speed will translate to less momentum - momentum being speed x weight. Bear in mind that it is not how we do things because the lighter bullet is shot at higher speed. Momentum remains the same but energy goes up with the lighter and faster bullet. This can be done with monometal bullets because they do not break up as cup and core bullets would when speed is increased. Limiting the speed is a concession to cup and core construction and this limitation does not apply to monometal bullets.

**D R Hunter**

Gerard,

**12 July 2014, 23:10**

Thank you. I feel better informed. Now a concept question for you.

Three calibers to test: .411, .500, .585 - **All shall be the standard LENGTH of your .411 and all shall weigh 400 grains.**

**All shall be fired at the MV 2150 FPS. All shall be your FN driving band design, ideal for elephant skull poking!** The .585 shall be hollowed out as I described in the post above, the .500 likewise, just not as much, the .411 to have no hollowing out. This will get them to the equal weights. Now fire these at sand filled drums again, distance to target: 25 yards IN A VACUUM!!! (NO aerodynamic concerns)

At impact:  
-Is energy different for each?  
-Is momentum different for each?

Will penetration for the .585 be less than the other two because it's wider, meaning the .411 penetrates best because it's narrower?

If TRUE, what will the penetration differences be?

**D/R Hunter**

**Correct bullet placement, combined with the required depth of bullet penetration, results in an anchored animal...**

Gerard

13 July 2014, 00:07

quote:

If TRUE, what will the penetration differences be?

No question at all, your theory is true as momentum and energy is the same for all three.

That perfectly highlights the function of momentum, energy and the shape/construction of a bullet. Momentum determines how deep a bullet goes and energy determines the volume of a wound channel. These two forces are tempered by the shape/construction.

As for the difference in penetration, one needs to know what resistance the medium gives to the penetration of the bullets and some very clever math people will give an answer to that. It would be more fun to just shoot the three and see.

D R Hunter

13 July 2014, 00:23

By Gerard:

quote:

It would be more fun to just shoot the three and see.

🤖 So When will someone from G S Custom be doing this experiment and posting results????!! 🤔 🤖 🤖

D/R Hunter

**Correct bullet placement, combined with the required depth of bullet penetration, results in an anchored animal...**

Gerard

13 July 2014, 00:58

It would be a futile exercise as far as a production bullet is concerned. Cartridges have different relative case volumes and twist rates and will perform best with a particular bullet. It is more correct to make the best bullet for a given cartridge and the intended purpose. So, if the choice is between different cartridges, one could make a recommendation, based on the best that cartridge could do. It is a myth that a certain speed or weight is best, one must always look at a combination of a number of factors and then make a choice.

D R Hunter

13 July 2014, 05:16

You're no fun Gerard. 🤔 I know you have plenty of bullets, and somewhere you *must* have a drill press! Phooey... I'm calling **The BOSS, GINA !!!** 🤖

{I'll bet Michael & Sam will do it... 🤖 }

D/R Hunter

**Correct bullet placement, combined with the required depth of bullet penetration, results in an anchored animal...**

drewhenrynt

13 July 2014, 06:48

quote:

Originally posted by drewhenrynt:  
Michael...You asked, and here it is!

**DRILL PRESS:** A tall upright machine useful for suddenly snatching flat metal bar stock out of your hands so that it smacks you in the chest and flings your beer across the room, denting the freshly-painted project which you had carefully set in the corner where nothing could get to it.

**WIRE WHEEL:** Cleans paint off bolts and then throws them somewhere under the workbench with the speed of light. Also removes fingerprints and hard-earned calluses from fingers in about the time it takes you to say, "Oh, shit!"

**SKILL SAW:** A portable cutting tool used to make studs too short.

**PLIERS:** Used to round off bolt heads. Sometimes used in the creation of blood-blisters.

**BELT SANDER:** An electric sanding tool commonly used to convert minor touch-up jobs into major refinishing jobs.

**HACKSAW:** One of a family of cutting tools built on the Ouija board principle... It transforms human energy into a crooked, unpredictable motion, and the more you attempt to influence its course, the more dismal your future becomes.

**WISE-GRIPS:** Generally used after pliers to completely round off bolt heads. If nothing else is available, they can also be used to transfer intense welding heat to the palm of your hand.

**OXYACETYLENE TORCH:** Used almost entirely for lighting various flammable objects in your shop on fire. Also handy for igniting the grease inside the wheel hub out of which you want to remove a bearing race..

**TABLE SAW:** A large stationary power tool commonly used to launch wood projectiles for testing wall integrity.

**HYDRAULIC FLOOR JACK:** Used for lowering an automobile to the ground after you have installed your new brake shoes, trapping the jack handle firmly under the bumper.

**BAND SAW:** A large stationary power saw primarily used by most shops to cut good aluminum sheet into smaller pieces that more easily fit into the trash can after you cut on the inside of the line instead of the outside edge.

**TWO-TON ENGINE HOIST:** A tool for testing the maximum tensile strength of everything you forgot to disconnect.

**PHILLIPS SCREWDRIVER:** Normally used to stab the vacuum seals under lids or for opening old-style paper-and-tin oil cans and splashing oil on your shirt; but can also be used, as the name implies, to strip out Phillips screw heads.

**STRAIGHT SCREWDRIVER:** A tool for opening paint cans. Sometimes used to convert common slotted screws into non-removable screws and butchering your palms.

**PRY BAR:** A tool used to crumple the metal surrounding that clip or bracket you needed to remove in order to replace a 50 cent part.

**HOSE CUTTER:** A tool used to make hoses too short.

**HAMMER:** Originally employed as a weapon of war, the hammer nowadays is used as a kind of divining rod to locate the most expensive parts adjacent the object we are trying to hit.

**UTILITY KNIFE:** Used to open and slice through the contents of cardboard cartons delivered to your front door; works particularly well on contents such as seats, vinyl records, liquids in plastic bottles, collector magazines, refund checks, and rubber or plastic parts. Especially useful for slicing work clothes, but only while in use.

**Son of a bitch TOOL:** Any handy tool (strain gage) that you grab and throw across the garage while yelling "Son of a bitch" at the top of your lungs. It is also, most often, the next tool that you will need.

Had one of those days and thought I'd revive this post.

We Band of Bubbas  
N.R.A Life Member  
TDR Cummins Power All The Way  
Certified member of the Whompers Club

Sean Russell

13 July 2014, 07:17

quote:

Originally posted by drewhenrynt:

quote:

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Had one of those days and thought I'd revive this post.

May I steal this? 🙏🙏🙏

"The rule is perfect: in all matters of opinion our adversaries are insane." Mark Twain  
TANSTAAFL

[www.savannagems.com](http://www.savannagems.com) A unique way to own a piece of Africa.

DSC Life  
NRA Life

**capoward**

13 July 2014, 07:49

Good one Drew - thanks for sharing...

Jim 🙏  
"Life's hard; it's harder if you're stupid"  
John Wayne

**D R Hunter**

13 July 2014, 08:26

That's Funny Stuff Below: 😄

quote:

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**D/R Hunter**

**Correct bullet placement, combined with the required depth of bullet penetration, results in an anchored animal...**

**drewhenrynt**

13 July 2014, 08:57

quote:

Originally posted by Sean Russell:

May I steal this? 🍷🍷🍷

I borrowed it from an email a few years ago. It is yours and anyone else that wants to do with it as they please.

We Band of Bubbas  
N.R.A Life Member  
TDR Cummins Power All The Way  
Certified member of the Whompers Club

**drewhenrynt**

13 July 2014, 09:19

My "friend" Mike Fairbanks went from a 600 Overkill to a 375 H&H. HMMMMMMMMMM. All because of those miracle bullets from CEB!

I have his old Overkill and have had a lot of fun making reduced loads. I am currently working on the bottom end of velocity for shear.

Scoop a case full of Trailboss, cram a 825gr NonCon on top and let 'er rip. It is going to be very interesting to see just how low it will still reliably shear.

I have also just ordered some of the latest design Extended Range Raptors for my 375H&H.

Now to figure out what to do with all the excess CEB 375s I have. Some were given to me. I shall find a suitable recipient and make their day!

We Band of Bubbas  
N.R.A Life Member  
TDR Cummins Power All The Way  
Certified member of the Whompers Club

**Gerard**

13 July 2014, 14:45

DR Hunter wrote:

quote:

You're no fun Gerard. 😏 I know you have plenty of bullets, and somewhere you must have a drill press!  
Phoey... I'm calling The BOSS , GINA !!! 🍷

I have been looking for the drill press but the last time it smacked me in the chest, I stopped using it and that was some time back. And you are right again, Gina is The Boss of GS Custom Bullets. I am so glad. It leaves me time to do all the work that nobody else wants to do: Field testing (some call it hunting), range work (some call it a relaxing afternoon), talking to customers (shooting the breeze?) and designing new bullets for interesting applications. All that fresh air and stimulating stuff is terrible, I know, but someone has to do it. 🍷