

This topic can be found at:

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

srose

12 February 2011, 19:58

### Terminal Bullet Performance

Hugh, Here is what I could find.

quote:

Originally posted by michael458:

I have managed to work in a couple of tests yesterday. I think a couple of important ones that I wanted an answer to.

Our Boy Boomy can come up with some wild things, but some of the things he comes up with we should pay attention to! Now he is young and he is learning, but Boomy is a digger, he notices things that would slip by me in the rush of doing so much, as we know sometimes I get stretched pretty thin here. Now only a few weeks ago Boomy made mention of the rounded edge on the meplat. Sam was good enough to get us some comparison bullets made, so I thought this would be a good thing to check into, as did Boomy!

We are also looking at what I call the JDJ nose profile, attributed to JD Jones to the best of my knowledge. I have been shooting some of JDs nose profiles for some time, and it is as far as I am concerned right up there with the best of them. Sam and I decided to investigate this a bit with different angles on the nose. This was a 13 degree angle, and I really did not expect it to do as good as it did, I underestimated it a bit!

We had 2 sharp edge and two rounded edge meplats, both 13s. The sharp edge meplats at 66% meplat of caliber drove 100% dead straight all the way through the medium and both stuck in the back of the box into the 2X6 dead straight, and to the exact same depth! I was very impressed with these.

Now since the sharp edge meplat did not penetrate the box completely, I figured I was safe with the rounded edge meplat. Plus the fact I did not have a second box of test medium made up anyway!

One issue with the rounded edge, when Sam rounded it off, meplat shrank a bit to 62% meplat of caliber! This had a definite effect on stability of this bullet, no doubt in my mind! As you see one bullet veered slightly off course starting at 46 inches but traveled the entire length of test medium 63 inches, and exited the box! Not quite stable, but penetration was deeper. The second bullet managed to stabilize itself and went the distance, exited the box, no recovery.

While we have a difference in meplat size of 4%, I now have confidence that the rounded edge of the meplat gave just a tad bit more penetration than the sharper edge. Stability was completely the result of the 62% meplat.

The rounded edge gave deeper penetration! The rounded edge also is a boost to feed and function in rifles that are NOT WINCHESTERS too!

**50 B&M  
1:12 Twist Rate  
488 JDJ 13  
Sharp Edge Meplat 66%  
Muzzle Velocity 2178 fps  
22 yd Impact Velocity 2110 fps  
X2--63 Inches Dead Straight**



**50 B&M  
1:12 Twist Rate  
488 JDJ 13  
Rounded Edge 62% Meplat  
Muzzle Velocity 2161 fps  
22 yd Impact Velocity 2099 fps  
X1-46 Inches Straight, veer to 2  
inches off course, exit box at 63  
Inches.  
X1--63 Inches Straight, Exit Box No  
Recovery.**

photobucket

This rounded edge is not one that was tested, but a similar bullet for comparison.



This is a very successful nose design.

50 B&M  
1:12 Twist Rate  
488 JDJ 13  
Sharp Edge Meplat 66%  
Muzzle Velocity 2178 fps  
22 yd Impact Velocity 2110 fps  
X2--63 Inches Dead Straight



michael458

12 February 2011, 20:02

quote:

Originally posted by 465H&H:

Michael,

You have mentioned having seen RN bullets veer off course in game before. What brand, shape and metal were these bullets. I don't remember you ever detailing that info. Always meant to ask this but kept forgetting.

465H&H

465HH

Those were some .500s I had done in 2005 for the prototype 50s. The nose was a Woodleigh Profile, but of course not woodleighs, but Lehigh. Now, I actually watched some of these turn. Shot an eland up the rear, it turned up and out the top of the back, hit a big tree limb above the eland, knocked the bark off and don't know where it went from there. Watched another turn in a second eland and exit in the entirely wrong area. They were so bad, I was afraid they would turn into boomerangs and come back to me! HEH HEH.

I have never used a Woodleigh in the field. I have used the old barnes round nose, and penetration has always been limited, but was enough to do the job. And I never really done much digging of those, although on a few occasions I had some suspicions.

These are the things that have brought me to where we are right now, at least seeing that was believing. Those same bullet also twist, turn, flip and veer in the test medium same as they do in animal tissue.

There are other stories that involve woodleighs direct, from some of the guys right here as well. Many others have some suspicions as well. I wonder myself if all the elephants that are head shot and run away to never be recovered, how do we really know that chap actually missed??? I know damn well there are a hell of a lot of piss poor shots made while in the field, but there are a lot of elephants that just run off to never be recovered--Sometimes I wonder if the guy really missed, or has something else occurred? We will never know for sure, and no one can say one way or the other can they?

Michael

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**416Tanzan**

**12 February 2011, 20:17**

quote:

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The rounded edge gave deeper penetration! The rounded edge also is a boost to feed and function in rifles that are NOT WINCHESTERS too!

Here's one to consider:

Both the veering and the penetration might have been caused by the 62% meplat.

The question to test is how far did a true 66% meplat + rounding penetrate in comparison to the 66% sharp edge?  
And from the other direction, did a sharp edge 62% not penetrate well like the 62% round edge FN did?

+ + + + + + + +

"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**

**12 February 2011, 20:32**

Tanz

The veering was for sure because of the 62% meplat--no doubting that. But we have done it over and over here, that sharp edge meplat will NOT penetrate as deep as one with a nice rounded edge, or proper radius. I had samples of the CEB that the edge had not been rounded quite enough, or radius was not right, so we had to work to get to that point.

The edge has to be broken on these to get the best penetration. Sharp does not work, or at least not as good.

Take a look at the North Forks and the CEBs--Nice Radius on both! Not sharp!

M

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**jwp475**

**12 February 2011, 21:01**

How does sharp edges affect the "wound channel"

A 9mm may expand to a larger diameter, but a 45 ain't going to shrink

Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing had happened.  
- Winston Churchill

**465H&H**

**12 February 2011, 21:22**

quote:

Originally posted by 465H&H:

quote:

Originally posted by michael458:

quote:

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Michael

Michael,

Thanks for the info. I assume from your post that these 500 bullets were some that you made of monometal. Please correct me if I am wrong. if so, then what you approximately duplicated was the Old Barnes RN mono solid and the A2 RN mono solid.

Those two bullets were known to veer off course on occasion by the early 80's. When I visited with Clem Coetsee at Main Camp in Hwange NP. He was then the head of the culling unit there. He told me at that time that the A2 465 grain RN mono metal solids that A2 were providing NP would sometimes do weird things and veer off at a 90 degree angle. He had the same experience with the Barnes RN monos. He also stated that very very seldom did the Winchester or Hornady steel jacketed solids do that. Apparently, there is something about mating a RN to a monometal bullet that makes them do crazy things. After that discussion, I vowed to never use either of those bullets. I suspect that is why Barnes changed to a FN design. It is also why when I speak of RN solids I always say RN **STEEL JACKETED** solids so no one confuses which I am talking about. The Barnes and A2 RN monos are probably the worse solid ever designed. It is probably a good thing that you didn't use Woodleights during these hunts as if you had you may never had done all the testing work that you have done.

465H&H

416Tanzan

12 February 2011, 21:55

quote:

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I had some ASquare mono-solids in 338 in the 80s that got lost somewhere and were never even used or tried.

The mystery isn't too great in my eyes. Look at them. They look like zero meplat, 0%. They are 100% round-edge. Barnes isn't that stupid this time around, and their prototype pictures have more of the 'U' shape associated associated with steel-jacketed, but don't appear to reach even that standard.

+ + + + +

"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.

someoldguy

13 February 2011, 00:08

quote:

This rounded edge is not one that was tested, but a similar bullet for comparison.

I'm probably late to the party on this one, but I would guess that the rounded edge creates less resistance compared to the sharp edge. Still the sharp edge in that earlier test did pretty doggone well! A little better than I might have expected, in fact.



Glenn

**I Bin Therbefor**

**13 February 2011, 00:26**

quote:

Originally posted by 465H&H:

quote:

. The first six would have to be equal for the last, SD to be considered. If we add consideration bullet length in the 9.3 comparison, that may well be more important than SD. As the thread started comparing two specific bullets in 9.3 which are NOT equal in all six, or in length, your comment about the value of SD in determining penetration is open to question.

IBT,

I believe I said exactly what you did in the first sentence. If you add bullet length in 9.3, then you also increase SD. Would a monometal 9.3 (longer bullet) penetrate farther than a lead core steel jacketed bullet of the same weight(shorter)bullet. Assuming nose shape etc. were the same. I think not.

465H&H

You offered SD as an explanation as to why there was a difference in penetration between two 9.3 bullets that do not meet your criteria for "all other things being equal".

Why offer SD as an explanation for a comparison that does not meet your criteria of "all other things being equal"?

**465H&H**

**13 February 2011, 00:47**

quote:

Originally posted by I Bin Therbefor:

quote:

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quote:

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465H&H

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Why offer SD as an explanation for a comparison that does not meet your criteria of "all other things being equal"?

SD is a function of bullet weight and diameter. Length doesn't come into the equation to determine momentum and it is not listed in your list of six. That is why I have said that I doubted that a long mono bullet of the same weight as a shorter lead/steel composition solid would penetrate better.

465H&H

465H&H

**michael458**

**13 February 2011, 02:44**

quote:

Originally posted by 416Tanzan:

quote:

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The mystery isn't too great in my eyes. Look at them. They look like zero meplat, 0%. They are 100% round-edge. Barnes isn't that stupid this time around, and their prototype pictures have more of the 'U' shape associated associated with steel-jacketed, but don't appear to reach even that standard.



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**RIP**

**13 February 2011, 09:20**

Did I mention that I called Ty at barnes too, at urging from "all y'all?"

I asked what happened to the flat nose solids.  
There was a pause ... inaudible sigh? ... then a well practiced reply that they will still be available from the website, but won't be stocked in the stocking stores and catalog retailers of the past.

Sigh.

**michael458**

**13 February 2011, 15:21**

Doc RIP

No, did not mention it, last we heard on that you were going to call! From the beginning of this thing I had heard they will sell out the remaining stock of FN Banded, and once gone, the end. I had heard they have about a years supply in stock. Yep, I reckon they move all of those bullets from their website, all the time making the new RN to put in the market. They basically did the exact same thing when they converted to the FN some years ago. Only the FN was available in the market place, RN available on their website.

My bet, once the remaining stock is gone, bye bye FN Banded!

Oh well, they are easy replaced. They just happen to be "Convenient" when buying stock from Midway, Graf, MidSouth or whoever is all. What would happen if CEB was available from Midway? Piss on Barnes!

M

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**hughman**

**13 February 2011, 20:44**

quote:

Originally posted by rose:

Hugh,

No a sharp edge actually decreases penetration. Back in terminals Michael and I tested this on the #13s. A radius edge



goes deeper. I'll try to find the page but Michael might be able to find it quicker.

Sam

Sam;

I apologize for my poorly worded question. I did recall that the rounded edge penetrated better. What I meant was, if the cutting effect was a significant factor, we would expect a sharp edge on the meplat to give greater penetration. But since a rounded edge does give better penetration then there must be some other factors at work rather than the cutting effect.

**srose**

**13 February 2011, 22:30**

Hughman,

When I first started making bullets for Michael to test I made them with sharp edges thinking this would be better. It just stands to reason that the sharp edge would have a cutting effect. My first 577 bullets had big meplats and razor edges. These bullets didn't do much better than any other bullet. When we got the meplat at 68% and rounded the edge the bullets started performing much better. After seeing many tests with many different bullet nose profiles there is a big difference in sharp edge verses rounded edge. I still wonder if the nose of the bullet is really touching the media or is it a shock wave in front of the bullet. One thing I have seen in the tests we have done is that the ogive of the bullet isn't touching anything while penetrating.

Sam

**465H&H**

**13 February 2011, 22:34**

srose,

Since your bullets have more penetration than would ever be needed in game, giving up a little penetration to get a better cutting affect from the sharp edged bullet may be a worth while trade off.

465H&H

**someoldguy**

**13 February 2011, 23:52**

quote:

I still wonder if the nose of the bullet is really touching the media or is it a shock wave in front of the bullet. One thing I have seen in the tests we have done is that the ogive of the bullet isn't touching anything while penetrating.

Here's where I differ.

I don't see how there \*couldn't\* be some contact with the medium. Otherwise I don't see how you could get deformation, petal shearing, expansion, etc. I could well understand that length and/or ogive may not directly factor into the penetration process (except possibly for stability) but I have to see surface area as being of prime importance to penetration. The less surface area the better, to a point. (No pun intended.) That's why bullets with about 65 percent meplat perform so well. (Yeah, I've been paying attention.)

If I'm wrong, then I need to delete my computer programs, leave the board, and go back to playing sudoku like a good retiree. 😊

---

Glenn

**srose**

**14 February 2011, 00:01**

465H&H,

You are right and this is one reason we made the meplat 70% on the double rifle bullets. Bigger meplat means more energy to the target.

Sam

**jwp475**

**14 February 2011, 00:26**

Sam does the sharp edges have any effect on wound channel size?

---

A 9mm may expand to a larger diameter, but a 45 ain't going to shrink

Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing had happened.

- Winston Churchill

**RIP**

**14 February 2011, 03:35**

465H&H,

I dunno about those nose effects.

Nor the side pressure on the shaft of the bullet, as even bone expands to some degree as the bullet passes through. Some bone wound permanent cavity diameters are smaller than bullet diameter.

I do know that shooting round nose solid bullets into a stack of dry plywood will allow them to stay straight, and surpass a flat nose solid in penetration. Less resistance to the round nose. Equal side pressure from the minimally cavitating plywood all around the shank of the bullet may keep it going straight. Steering from the rear instead of the nose. Same may happen in some elephant skull situations.

I am all for the BBW 13-degree nose (26-degree cone truncated) with meplat no bigger than 67% after the radius of the edge on the meplat. It gives a best balance for stabilization and feeding.

1. Adequate meplat for shoulder stabilization (nose steering), empirically proven at MIB.
2. And it moves the center of gravity forward (dart stabilization) versus the old, base-heavier, simple 7-degree per side truncated cone, with no parallel-sided nose portion.
3. Radiused meplat edge is a better feeder in a bolt action, as is a smaller meplat, though doesn't matter in a double or single-shot.

I do not believe much in the cutting edge effect of the meplat. The pressure in front of the bullet is displacing and tearing the tissue more than it is being "cut."

A 100% meplat (cylinder) may smack harder, but it will penetrate less in most situations due to the greater resistance, and trauma and energy dump it causes.

**srose**

**14 February 2011, 03:46**

quote:

Originally posted by jwp475:  
Sam deos the sharp edges have any effect on wound channel size?

You know I've never looked to see if there was much difference in wound channel. We were trying to get penetration in a straight line. We did see more damage with larger nose shape. I guess you have given us something else to test.

**someoldguy**

**14 February 2011, 06:55**

quote:

The pressure in front of the bullet is displacing and tearing the tissue more than it is being "cut."

Aha!

So it's really come back to the concept I was talking about, although I doubt whether I'll get a reply. After all, I'm just an overeducated, underachieving retiree on a pension with too much time on my hands.

Regardless of the descriptive verbs we use, so it's pressure we see in the penetration process!  
What is pressure? A unit of force per surface area.  
What physical quantity is related to force? Momentum. How? Momentum is force multiplied by a unit of time.  
And what is momentum density?  
A unit of force divided by a unit of area times time. In other words, a unit of pressure times a unit of time.

OK, so now I'm off to play fucking sudoku!

---

Glenn

**michael458**

**14 February 2011, 15:32**

Sam and I discovered radius late in the game. Some of the test bullets Sam made had some tremendous amounts of damage to the medium. Many of them with sharp edges. But overall I have not noticed a big difference in the sharp and the radius as far as damage to medium. With all the FN solids you get your most damage from 2-3 inches in to about 10-12 inches, then it settles in, and starts penetrating as the velocity is dumped.

For sure the big difference between sharp and radius is overall penetration. Radius goes further every time. I also think that the radius is more consistent with straight line penetration as well. Of course we have to have 65% to 70% for optimum stabilization as well. Right now the CEBs are perfect in these regards, but it took a lot of work to get them there. But the Nose, meplat, and radius of the CEB are complete, etched in stone you might say. And carry over from caliber to caliber as well.

Also take your North Fork FPS and look at the nice radius on those!

M

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**JohnDL** **14 February 2011, 19:00**

Question for Michael

I've noticed that a lot of your testing is of .458 bullets at "Lott" velocities.

Based upon your observations, which commercially available soft and solid (and which weight) would you use for buffalo?**commercially available**

Thanks!

**michael458** **14 February 2011, 21:29**

Hey JohnDL

I have used a few 458 bullets on buffalo. Soft Points--450 and 500 Swift A Frame, 500 Woodleigh Soft, 400 Swift A Frames (too Light).

Today if I were using softs I would go with a North Fork 450 Bonded, 450 Swift or 500 Swift. Either in my 458 B&M, 458 Winchester or 458 Lott. All will do fine. 500 Woodleigh, keep the velocity to no more than 2250, better at 2200 fps.

Solids--I had been using the Barnes Banded 450s and 500s. Since they are screwing us around and dropping the FN--I would use nothing but a North Fork or CEB. Both which are Commercially Available to you!

As for softs (not so soft--Expanding/Shearing)--I would rather have the CEB NonCons also--Available to you also. Which I am sure if you have been following you already know this.

Michael

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**ledvm** **14 February 2011, 21:36**

For Buff...what about cup point Solids?

Have an opinion on them?

~~~~~  
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.

**michael458** **14 February 2011, 22:05**

Lane

Yep, got an opinion on lot's of things! HEH...

I like the "Expanding Cup Points" from North Fork for this work. In fact, love them and will be using them this year too. I had North Fork make a semi custom run of .500s 450 gr and 375 gr for my .500 caliber rifles. Both specified "Expanding" cup point---Not limited penetration Solids.

Expanding Cup Points

**458 B&M Super Short  
1:14 Twist Rate  
325 North Fork CPS  
Muzzle Velocity 2265 fps  
22 yd Impact Velocity 2172 fps  
X2--26 Inches Dead Straight**



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**50 B&M  
1:12 Twist Rate  
450 North Fork CPS  
Muzzle Velocity 2249 fps  
22 yd Impact Velocity 2188 fps  
X-2---32 Inches  
Incredible Penetration**

**50 B&M  
1:12 Twist Rate  
450 North Fork CPS  
Muzzle Velocity 2265 fps  
22 yd Impact Velocity 2198 fps  
X-2---31 Inches  
Incredible Trauma Inflicted**



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50 B&M Super Short  
1:12 Twist Rate  
375 North Fork CPS  
Muzzle Velocity 2132 fps  
22 yd Impact Velocity 2058 fps  
X-2---23 Inches

50 B&M Super Short  
1:12 Twist Rate  
375 North Fork CPS  
Muzzle Velocity 2121 fps  
22 yd Impact Velocity 2042 fps  
X-2---23 Inches



**500 MDM**  
**1:12 Twist Rate**  
**450 North Fork CPS**  
**Muzzle Velocity 2510 fps**  
**22 Yd Impact Velocity 2438 fps**  
**#1--32 Inches**  
**#2--35 Inches**  
**Incredible Trauma Inflicted**



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Not as much expanding as I would like.

**458 B&M**  
**450 North Fork CPS**  
**Muzzle Velocity 2289 fps**  
**22 yd Impact Velocity 2191 fps**  
**Bullets Did not Expand**  
**40 Inches Straight Penetration**



photobucket

22 yd Impact Velocity 2191 fps  
Bullets Did not Expand  
40 Inches Straight Penetration



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450 North Fork CPS

416 B&M  
1:14 Twist Rate  
370 North Fork CPS  
Muzzle Velocity 2439 fps  
22 Yd Impact 2368 fps  
Retained Weight 358/370  
X2--29 Inches Penetration



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Nothing wrong with the "limited Penetration", but I like that expanding bullet.

Michael

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**JohnDL**

**14 February 2011, 22:11**

Michael.

Thanks. I take from this that regular NF CP's fired at Lott speeds are, in effect, solids, not softs??

If the CP's aren't going to open up, why not just use regular solids?

**ledvm**

**14 February 2011, 22:16**

quote:

Nothing wrong with the "limited Penetration", but I like that expanding bullet.

I see your point...or or lack there of 😊 ...pun intended!!!

~~~~~  
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.

**michael458**

**14 February 2011, 22:22**



John

Some of the heavier CPS are designed as "limited Penetration". The cup point does in fact limit the penetration of the bullet, even though it's the same configuration. That cup inside adds extra surface area, like added meplat, without the width. Sorta like going from 70% meplat to a 90% meplat, but without the actual width in the bullet. Hence, penetration is less. So if for whatever reason you find yourself not wanting the penetration of the normal solid, you can use the cup. I fight with North Fork over this one somewhat, I would rather have the expanding version doing more damage paired up with the standard FPS Solid.

Lane

HEH.....Good One!

M

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The New Word is "Non-Conventional", add "Conventional" to the Endangered Species List!  
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**ledvm** **14 February 2011, 22:37**

In regards to the cup point...I think YOU are on the right track Michael.

~~~~~  
J. Lane Easter, DVM

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**someoldguy** **14 February 2011, 23:59**

quote:

Nothing wrong with the "limited Penetration",

At my age and with the medication I take, I'm all about "limited penetration."

quote:

That cup inside adds extra surface area, like added meplat, without the width. Sorta like going from 70% meplat to a 90% meplat, but without the actual width in the bullet.

Mm-hmmm.



quote:

The cup point does in fact limit the penetration of the bullet, even though it's the same configuration. That cup inside adds extra surface area, like added meplat, without the width. Sorta like going from 70% meplat to a 90% meplat, but without the actual width in the bullet. Hence, penetration is less. So if for whatever reason you find yourself not wanting the penetration of the normal solid, you can use the cup.

And I would guess the trauma is somewhere midway between a FN and an expanding type.  
Interesting concept, I suppose.

Glenn

**ledvm** **15 February 2011, 00:07**

Can you show a pic of the nose/point of the "expanding cup point"?

~~~~~  
J. Lane Easter, DVM

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michael458

15 February 2011, 00:16

quote:

Originally posted by ledvm:  
In regards to the cup point...I think YOU are on the right track Michael.

quote:

Can you show a pic of the nose/point of the "expanding cup point"?

Lane

I assume one that has been expanded, and thanks, sometimes I can get off track!



Velocity 2152 fps  
Impact Velocity 2058 fps  
X-2---23 Inches

Muzzle Velocity 2121 f  
22 yd Impact Velocity 204  
X-2---23 Inches



Glenn

Yes, trauma for a limited penetration CPS is some more than a solid, but not that of an expanding bullet. But not really close to most expanding.

M

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**jwp475**

**15 February 2011, 00:29**

You just put that picture up on the last page 🙌

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A 9mm may expand to a larger diameter, but a 45 ain't going to shrink

Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing had happened.  
- Winston Churchill

**someoldguy**

**15 February 2011, 00:30**

Speaking of big bores, there's an exciting new development in the Lever Action forum with regard to the .444 Marlin. Member **flat top** has apparently succeeded in launching 405 grain, .43" bullet with a MV of 2171 fps, and with no pressure issues. The performance of this should be practically the ballistic twin to the obsolete 11.2x72 Schuler formerly in the Mauser lineup. (The Schuler round itself is fairly similar to the .404 Jeffery.)

<http://forums accuratereloadin...551081051#8551081051>

Glenn

**ledvm**

**15 February 2011, 00:32**

quote:

I assume one that has been expanded, and thanks, sometimes I can get off track!

Really...I would like to see and un-expanded one and side-by-side with an original cup point would be good.


~~~~~  
J. Lane Easter, DVM

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**capoward**

**15 February 2011, 03:45**

Lane I've gone back through my TBP Thread notes and photographs and do not find a "side-by-side" photograph of the two NF CPS bullets (expanding and non-expanding) so Michael will need to take the picture and post unless the NF guys can beat him to it.

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

**michael458**

**15 February 2011, 03:45**

Lane  
Will take some photos of those for you tomorrow! It's really very simple, just a little more depth is all that is required.  
Michael

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**michael458**

**15 February 2011, 04:04**

No I don't check the screws on the rifles every time I go to the range!!!!!!  
I probably should however!  
Big Bores are different from the small bore shooters! Things really do work loose!  
Two weeks ago, doing pressure traces with the 50 B&M. I notice shots going wild, hell I am at 25 yds doing the traces???? What the hell? Then I felt something sorta rattle? Gees, the stock is coming loose! Oh well, stop the work, go get a screw driver, tighten up the stock screws--and guess what, back to 1 hole groups again!  
Last week, more pressure traces with the lever guns! Pulling the rifle in tight against my shoulder, I can feel the stock give! It's loose! Finish the traces, bring it in. Start tightening screws, ALL OF THEM are loose! Sides, top, front bottom, stock, damned thing is falling apart on me!  
Today, doing more trace work with the 50 B&M Super Short. Notice groups going everywhere, again at 25 yds, god tell me I can shoot better than that? Stock is tight? Hmmmmm. Oh well, must be me! Finish the trace work, pick the rifle up, rattle rattle? Scope is loose? Wait, the levers are tight? The bases had worked loose--Both of them!!!! Yes, I locktite--the red stuff!  
Again today, sighting in working with the 500 MDM, doing 50 yd POI tests with different loads getting ready for June and buffalo! At the end, my scope had turned while shooting! Damn crooked ass cross hairs! Yep, I have one of those Wheeler torque screw drivers too! Leupold says 23 inch lbs (or something like that), I go 28 inch lbs! Still turned! Now I have gone to 30 inch lbs--Maybe it will hold!  
Big bores shoot'em loose! Just part of the game!  
Just rambling!  
Michael

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