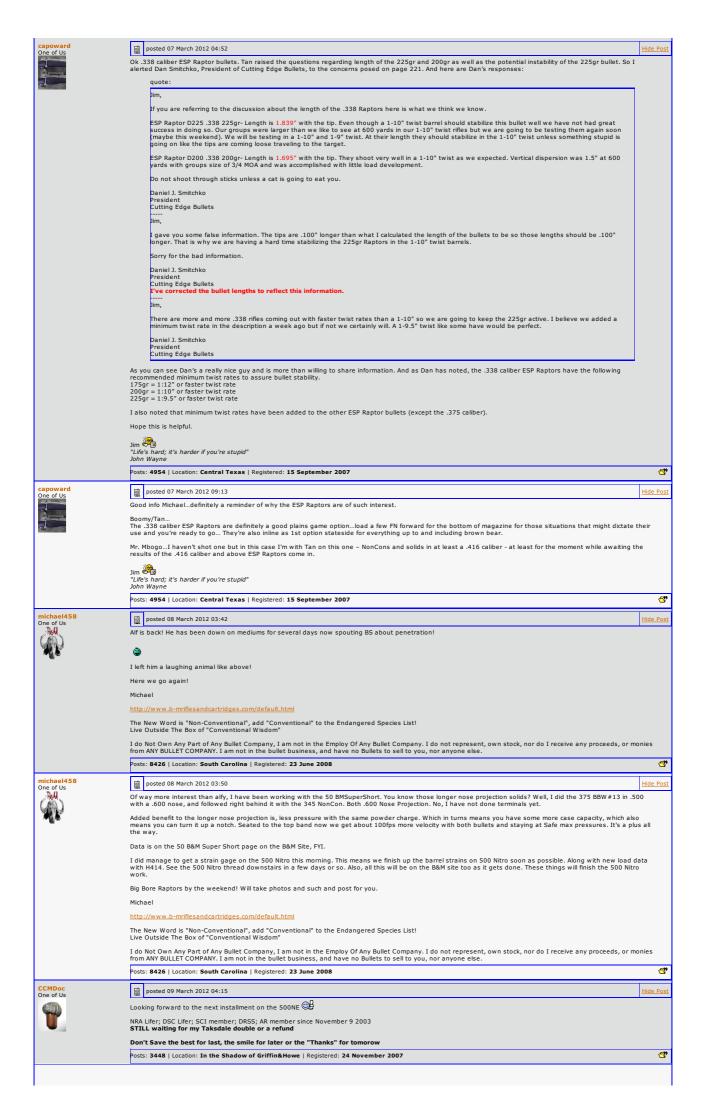
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Page <u>1</u> ... <u>219 220 221</u> **222** <u>223 224 225 ... 304</u>





posted 10 March 2012 03:01

The natives are getting restless. The drums are getting louder. Excited to see the latest batch of big bore raptors!

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

Posts: 27557 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005

_್ರಿ

michael458 One of Us posted 10 March 2012 14:20

quote:

Originally posted by boom stick:
The natives are getting restless. The drums are getting louder. Excited to see the latest batch of big bore raptors!

UPS was not kind yesterday:-No Big bore Raptors! I was busy yesterday with some other things, namely the 9.3 210 Raptor. They came in the other day, and this is the bullet I am using in a few week So I not only had a rifle to get ready, but a load to confirm, and most important bullet works, and what the low end velocity shear point is on that bullet. I have new Talon-N tips, short and stubby, so use. Yes, it is a compromise, a shorter stubby tip, less BC, but for this, better than no tip.



There is a longer tip for the 9.3 bullets, but they are too long for the B&M, so I requested some short fat ones! HEH...

Currently with 74/IMR 4320 and the 210 Raptor I am able to run the 210 Raptor at 2900 fps in the 19 inch barrel, 61000 PSI. NonCon, Solid, and now the short tipped Raptor all are in the same hole al do my part. The estimated BC with the short fat tip is .228. With no tip I think it's .133 or so, and the solid near the same.

 $\label{thm:continuous} \mbox{Terminals are great with it, big shear, and lots of destruction, massive you might say.}$



But here is the kick! The BBW #13 NonCon and now the ESP Raptor like everything in life, they have a Working Range we must stay within, to get the performance they can provide. A "Range" is not re VELOCITY issues, the more velocity the better, unlike many conventionals--Therefore one reason the term, NonCon. But, they do in fact have what I call a "Low End Velocity Shear Point". The point on the bullet becomes basically a BBW #13 Solid.

As we see, at impacts of less than 1900 fps it does NOT SHEAR--becomes more or less a solid at that point.



Up the velocity by only around 100 fps and we get perfect shear, and better performance than I expected. At the low end velocity shear point, there is still a good bit of trauma inflicted, more than who



I have not done such a good job of getting all of these bullets Low End Velocity Shear Points. Some I have, I have all the .458 caliber NonCons and a few of the others, but a long way from finished.

I needed the 210 Raptor "Low End Velocity Shear Point" as it is directly related to what I am doing in just 2-3 weeks from now. I need to know at what point my bullet no longer performs as a NonCon

So now I know the Lower Limitations of this bullet, and place it at 2000 fps IMPACT VELOCITY, as Low End Shear Point. If impact velocity drops below 2000 fps with this bullet, it's not going to shear at

Nothing new about that to us really, all of our conventional bullets have Low End and Upper End Ranges of performance. We need to know these things and utilize that knowledge in the field. If we do problems in the field.

Now, with a BC of .228, and at 2900 fps at the muzzle, my longest range that I can shoot and maintain above Low End Velocity Shear Point, is 225 yards. If I stay under 225 yards on my shots in a few beyond that point, and I have a solid.

Oh there are lot's of things one could do to extend the range of the bullet--Longer tip of course would give a higher BC, maintain velocity further and so forth, but really I am not so interested in that a so I am perfectly happy to work within that range limitation for what I am going to do.

I am working on a data sheet that will have most of the BCs of the Raptors and in the calibers I have I am going to try and get Low End Velocity Shear Points on all of them. When I get enough valid d for you, Armed with this information you can make better decisions with your shots in the field

Of course I maintain strongly and remind all of you the entire Purpose of the BBW #13 NonCons is for Dangerous Game. One does not shoot dangerous game at 200 yds, and should not at 100 yardsl opinion to begin with. I think inside 25 yards is where one needs to be, with a 50 yard outside limit! OH I know we always don't do that, and I have been guilty as sin myself on one or two occasions, always accomplish that end!

I would put a couple more bullets into the same Low End Velocity Shear Point as the 210 9.3. I would put the 338 Raptors, and the 375 Raptors at a low point of 2000 fps as well right now. I will test to better, consider the .375 230 Raptor at 2000 fps.

Michael

http://www.b-mriflesandcartridges.com/default.html

Posts: 8426 | Location: South Carolina | Registered: 23 June 2008

The New Word is "Non-Conventional", add "Conventional" to the Endangered Species List!

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posted 10 March 2012 16:27 I Bin Therbefor One of Us Hide Pos Interesting work on the short tip 9.3mms. I don't know why, but I expected the design to be a pointed tip, just shorter. That would make the cone have steeper sides but I don't know what that would do to maintaining velocity. I noticed that the 338 in 200 grain almost matches the 9.3 (366) in penetration. Does the extra caliber size in the 9.3 cause greater tissue damage? Posts: 404 | Registered: 08 May 2005 _್ತ್ One of Us posted 10 March 2012 20:25 Michael, you usually only need one bullet so will you single load the longer tip and keep the stubby tips in the mag? 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) Posts: 27557 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005 **639** posted 10 March 2012 22:48 Hide Pos Michael, The 9.3 Talon N Tips have a larger diameter blunt nose than I envisioned from my email discussion with Dan...no doubt my brain malfunctioning and not truly absorbing the information. Is there a possibility that a couple of the tips could be reshaped to give the steeper sides noted by IBT so that the tip length is maintained while BC is enhanced? Basically try to match the tip point of the original Talon D Tip with the shorter length of the Talon N Tip. If within mass terminal performance is maintained with the shorter pointed tip I'd think the slight extra BC would more useful to a wider range of individuals than with the flat tip. Original post edited. Jim "Life's hard; it's harder if you're stupid" John Wayne Posts: 4954 | Location: Central Texas | Registered: 15 September 2007 **63**9 drewhenrytnt One of Us posted 11 March 2012 01:08 **6 6** \bigcirc Thanks Michael PM Sent. Andy We Band of Bubbas N.R.A Life Member TDR Cummins Power All The Way Certified member of the Whompers Club Posts: 2969 | Location: South Texas | Registered: 15 January 2008 €3* I Bin Therbefor One of Us posted 11 March 2012 02:08 Hide Pos http://blog.burrard-lucas.com/...ecam-is-back-teaser/

posted 11 March 2012 03:38

Ok...following up on my earlier post regarding a 3rd generation Talon Tip shape..

Originally posted by Michael458

Oh there are lot's of things one could do to extend the range of the bullet--Longer tip of course would give a higher BC, maintain velocity further and so forth, but really I am not so interested in the yards anyway, so I am perfectly happy to work within that range limitation for what I am going to do.

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Ok... up front I'll acknowledge Michael's needs – 1st) 9.3 B&M cartridge using 210gr ESP Raptor with Talon Tip must function from magazine. And 2nd) 300yd shooting is not a requirement. And also state accomplishes Michael's needs.

And as a quick reference so that folks don't have to page back.

You got to check this site. Wonder what a herd of buf would do? Posts: 404 | Registered: 08 May 2005



Here's the 1st generation 9.3 Talon Tip: has an estimated .403 BC. Here's the 2nd generation 9.3 Talon Tip: with its pointed nose ar



with its blunt nose and when inserted into the 210gr ESP Raptor the bullet has an estimated .228 BC.

Now I seem to recollect that both the 1st and 2nd generation 9.3 Talon Tips were designed to maintain the 13° nose angle (26° cone nose angle) of the BBW#13 bullet...2nd generation with larger diam

So... back to the issue that IBT raised. Would it be possible to enhance the ESP Raptor bullet with Talon Tip inserted to around .320 BC or greater by using the 1st generation tip size while keeping the s changing the nose angle (cone nose angle)?

I'm sure the answer to the above question is yes it can easily be accomplished...which then raises the question..."Would it be worth the effort?"

Here's my opinion...for what it's worth... 'If a 3rd generation 9.3 Talon Tip would, 1st) keep the ESP Raptor with Talon Tip functioning from Michael's magazine, 2nd) still maintain the within-mass terminal generation tip inserted, and 3rd) boost the BC above .300 then I believe it would be work the effort...as well as likely eliminate the need for stocking the 2nd generation Tip.'

Opinions?

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

Posts: 4954 | Location: Central Texas | Registered: 15 September 2007 416Tanzan One of Us posted 11 March 2012 11:03 Hide Post It's always seemed obvious that a curve that moves from the edge of the hollow-point circumference to a top tip would be the best. The curve would start out at the 13* angle so that a disturbance-causing ridge doesn't form, and then rapidly move toward a final straight line that aims at the center point tip that is set for max COL. Thus at the base of the plastic tip there would be a little bevel. As calibres get larger the BC should get better because the lightweight plastic can fill up shapes that would have otherwise made the projectile too heavy. BC's in the .4 to .5 range would be nice for those that want the option of 200-400 yard shooting. +-+-+-+-+-+ "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. Posts: 4253 | Registered: 10 June 2009 €" 338User One of Us posted 11 March 2012 12:58 HI Michael 458 this is a very interesting thread. Thanks for starting it. I have viewed the results of 338 160gn Barnes TTSX with interest. I get much higher velocities with my 338 Win Mag. I use 81 gn Reloader 17 for 3390 fps. I would like to see some results for the 160gn Barnes TTSX at higher velocities if you are able to test them. Posts: 424 | Location: Australia | Registered: 11 August 2007 <u>ლ</u> posted 11 March 2012 18:15 Boomy--No I won't be using the longer tips, even one at a time. I will stick with the shorter and a magazine full for consistency. I don't have the time before leaving to sort the long tips out in my rifles. Leaving in two weeks, I stay with the short fat tip, and keep my range to under 225 yards. Probably well under 100 for near everything. http://www.b-mriflesandcartridges.com/default.html 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. Posts: 8426 | Location: South Carolina | Registered: 23 June 2008 **€**?9

posted 11 March 2012 21:05

I think it's an important issue to know a bullets limitations! Nothing new about that, that's why we test and work with terminals to begin with. What is new is a bullet that has few limitations, the BBW #13 NonCons, and similar Noncons. But limitations it does have, and the only one I can think of is on the Low End of the Velocity

There is no upper end that I can find, or have capabilities of finding. Lower end? Yes, the Point at Which NO SHEARING of the blades occurs. While this is NOT Failure, the bullet does not transfer the amount of trauma by not shearing the blades, so when it does shear the blades. If blades do not shear, it becomes I a solid and continues to penetrate. Penetration is not lost, but that transfer of trauma is lost.

BBW#13 NonCons, once again, are not long range bullets to begin with. They are primary Dangerous Game Bullets. Dangerous Game is not shot at long range! Long Range for Dangerous Game is 50 yds! Proper Range for Dangerous Game is inside 25! This is my opinion of course. Much of the time we are not concerned about the BBW#13 NonCon working at it's intended ranges, for Dangerous Game.

But many of you, myself included, would like to have this massive transfer of trauma in other calibers than just Dangerous Game calibers, and would like for the bullet to work a bit further out than DG Ranges. The Raptor is part of that solution, another part is the available tips for the already established BBW #13 NonCons. These tips add Range, by adding BC. Now, what we need to know is what the "Operating Range" of the bullets are? No upper limits that I know of. Lower end shear Points is what we need to know.

If we know the BC--NonCon or tipped, Raptor or NonCon, and we know what the "Low End Shear Points" are for each bullet, then we can calculate our furthest Range that we are going to get positive shear of the blades.

Above, with the 9.3 B&M 210 Raptor with fat N tip, BC .228, 2900 fps at the muzzle, and a 2000 fps low end shear point, then I am good to go to 225 yards and still get positive shear of the blades. This is good enough for what I wish to be doing in a cuple of weeks. I am not on a trophy hunt, not after anything specific, I am just going shooting. So it is easy for me to limit myself to a point. I'd much rather shoot close than far anys! I am a CQB sort of chap!

But, we all need to know what low end shears are for all of them. And I am busy trying to get that for you. It is a slow process, not as easy as taking a top load and testing it at either 22 or 48 yds. You might have to do 5 tests to find that Low Velocity Shear Point. If you are really lucky, you might get it in 2-3 tests! So it is an undertaking and time consuming to say the least.

I have a few done, we did some on 458s back in the day, I have that data of course. I needed on this 9.3 210 Raptor myself, so we have that. Yesterday I did a few more, they are next.

As soon as I get enough data I am going to put it on the B&M website, pdf format, complete with estimated BC and Low Velocity Shear Points. I have so little info now, It's hardly worth the effort. In the meantime, what I do have, I would guess that you could estimate for some of the ones I don't have yet. For instance, we know the 9.3 210 Raptor is 2000 fps--I would estimate the 375 230 Raptor to be the same or very close, as I would estimate the 200 338 Raptor would be no more for sure, maybe a 100fps better-or slower I should say.

When I get data posted on the B&M site, I will let you k

Michael

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008





posted 11 March 2012 21:10

quote:

Originally posted by 338User:
Hi Michael 458 this is a very interesting thread. Thanks for starting it. I have viewed the results of 338 160gn Barnes TTSX with interest. I get much higher velocities with my 338 Win Mag. I use 81 gn Reloader 17 for 3390 fps. I would like to see some results for the 160gn Barnes TTSX at higher velocities if you are able to test them.

338User

Glad you find something of use 338! I am happy to take requests, but right now sorta covered up in it for a few weeks or more. Give me some time, and then please remind me again and we will get it done for you.

You see, I don't do any special load data on a cartridge to get the highest velocity for a bullet that I have not worked with, or used, or going to use. I picked a load from a past time, and loaded the 160 TSX and tested, end of story. Whatever the velocity was, that was it. Same in the 338 RUM, loaded, tested, the end. I do not have the time to get upper end velocity with every bullet we test. Special requests I can'd, but can't do with everything all the time. Hell, we will put it in the 338 RUM and turn the heat to it if you want. Ain't nothing to me, just gotta get the time in to do so.

LOL

Michael

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008



Small Bores that think they are BIG BORES with Raptors stuck in them! LOL

25 WSSM Twist Rate ?? 3/5/2012 70 Raptor With I Tip Muzzle Velocity 3138 fps 48 Ya Impact Velocity 2963 fps Retained-42 grs X2--16 Inches

I did the little 25 the other day, and forgot about it

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008

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nichael458 One of Us



lide Doct

Doing the Low End Velocity Shear Points yesterday, I spent NO TIME looking for blades, none at all! I did not need to be wasting time doing that, I walked 20 miles yesterday back and forth looking for Low Velocity Shears! Load two, test, load two, test, walk and walk and walk. I get a workout, I don't give a crap what my Doc says!

First lets start with little, work our way up

.264 caliber 100 gr ESP Raptor with G-Tip.

Excellent Shear at 2027 fps. To get to this point there were 3 prior tests working down in velocity each time.



Down at 1862 fps Impact both bullets still sheared, however one was just starting to show signs of instability and not shearing. So, this is as low as I went, and declared that 1900 fps impact I think it starts to get iffy at best as you can see.





Michael

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008







9.3 B&M
1:12 Twist Rate
3/10/2012
255 BBW#13 NonCon HP
Muzzle Velocity 1808 fps
48 Yd Impact Velocity 1640 fps
LOW END VELOCITY SHEAR
POINT---1650 fps
X1-19 Inches Cket
X1--17 Inches



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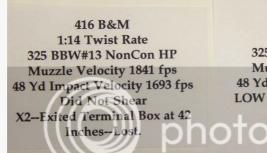
michael458 One of Us

posted 11 March 2012 21:23

Hide Pos

416 BBW #13 NonCons, I got lucky with them, basically two tests for both 325 BBW #13 NonCon and the 370 BBW #13 NonCon.

I did get slack, I did not have enough medium in the box for a NonCon that did not shear, the first 325 BBW #13 NonCon exited the back of the box after 42 inches of medium, and out the back through the 2X8s.



416 B&M 1:14 Twist Rate 325 BBW#13 NonCon HP Muzzle Velocity 1954 fps 48 Yd Impact Velocity 1790 fps LOW END VELOCITY SHEAR POINT---1800 fps X1-17 Inches X1-18 Inches



416 B&M 1:14 Twist Rate 370 BBW#13 NonCon HP Muzzle Velocity 1868 fps 48 Yd Impact Velocity 1736 fps Did Not Shear X2-47 Inches

416 B&M 1:14 Twist Rate 370 BBW#13 NonCon HP Muzzle Velocity 1944 fps 48 Yd Impact Velocity 1798 fps LOW END VELOCITY SHEAR POINT---1800 fps X1--21 inches X1--22 Inches



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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008





posted 11 March 2012 22:01

quote:

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Hi Michael 458 this is a very interesting thread. Thanks for starting it. I have viewed the results of 338 160gn Barnes TTSX with interest. I get much higher velocities with my 338 Win Mag. I use 81 gn Reloader 17 for 3390 fps. I would like to see some results for the 160gn Barnes TTSX at higher velocities if you are able to test them.

338User:
That Reloder17 is pretty good with light bullets in medium capacity magnums.
Michael's results for the 338RUM loads at 48 yards are what your rifle will produce at 165 yards with the 160TTSX and a 3390 muzzle vel. He did have more trauma at that impact velocity than with the lower impact of the WinMag. At some point the 160TTSX (BC .342) will blow its petals, let's guesstimate at 3100 and higher. That would mean that up to 120 yards your load may 'blow its petals' and could be expected to penetrate deeper.

However, if you are hunting an animal that needs deeper guaranteed penetration, then you should consider a heavier bullet. For example, the 185TTSX has a much better BC of .432. At your rifle's energy levels that equals a 3153 fps muzzle velocity and virtually any impact should still retail petals. That means an 11" test penetration, which is about standard for most of the heavier lead bullets in .338" and should be just fine for most medium, non-dangerous game, producing 20"+/-2" of actual penetration. You only give up -1" drop at 300 yards or -2" more drop at 400 yards over the 160gn, but you retain quite a bit more energy (+300 ftlbs at 400 yards, 2450 [185TTSX] vs. 2150 [160TTSX]).

If you are shooting something really big or perhaps an Aussie buffalo, then by all means choose the 225TTSX (.514 BC!) or the 200Raptor (BC .470). Followed by flatnosed solids, of course. The 225TTSX will get you about 30"+/-3" penetration in game and the 200Raptor will get you 38"+/-3" in game. Both have a good chance of exiting a buffalo on a broadside hit.

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

Posts: **4253** | Registered: **10 June 2009**

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Cross L One of Us



posted 12 March 2012 00:19

Hide Pos

Michael

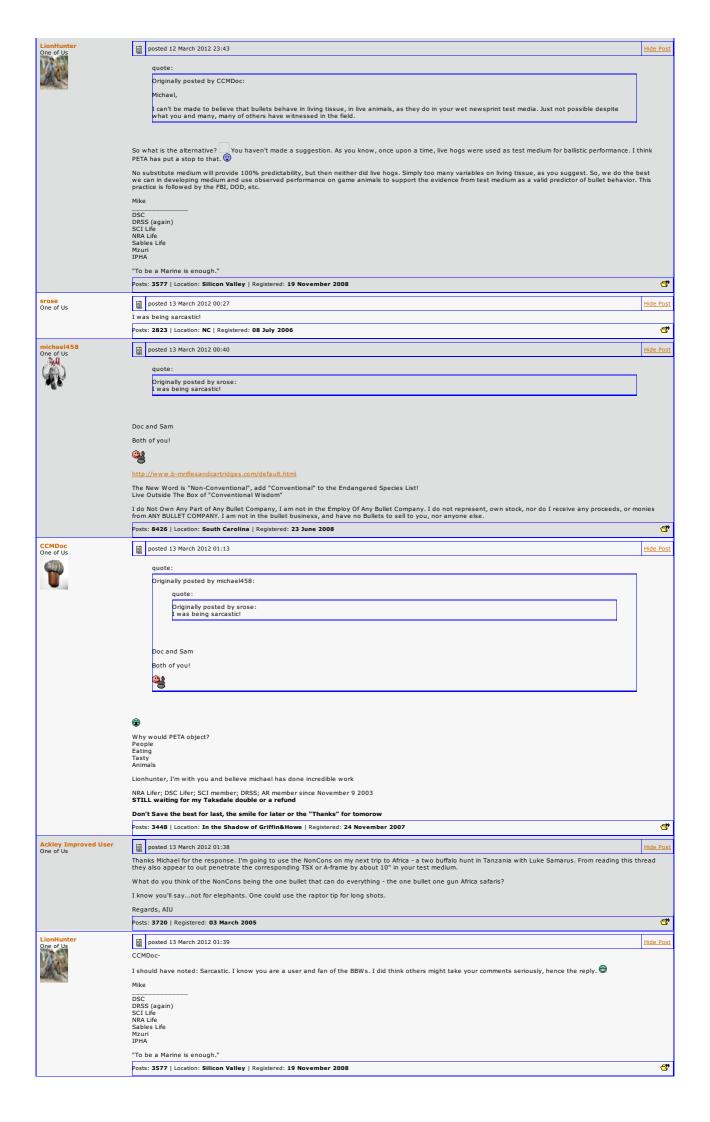
Thanks much for the 416 update. the 325 gr noncoms are looking good to me even for buff in my 416 B&M. what say you?

SSR

Posts: 6725 | Location: central Texas | Registered: 05 August 2010

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