From:	James Lyons
To:	Anthony Titolo
Cc:	Sarah Greenberger; Frank Quamen; Lueders Amy; Ellis Steven; Bean Michael
Bcc:	noreen_walsh@fws.gov
Subject:	Re: GRSG & CO O&G Pie Charts for Non-leased areas
Date:	Friday, May 08, 2015 11:55:50 AM

So, CO is concerned about the FWS potentially impacting I million acres of H/M potential O&G in priority habitat managed (surface and subsurface) by BLM.

CO policies will impact another 400K acres in PHMA.

Yet, BLM and private/other land managers and owners can make approximately 12.5 MILLION acres available (recognizing the potential for some conflicts not due to sage grouse) for O&G in H/M areas that are not in priority or general habitat -- I.e,, low conflict areas.

In addition, approximately 1 million acres is available in general habitat where NSO does not even apply.

So, of the total acres of H/M potential O&G in PHMA where FWS has a role is 1/10 th of the total H/M O&G potential in the state (9.2 % to be exact). And 83% of the H/M O&G potential in the state is not in priority or general sage grouse habitat -- I.e., not impacted by the state SG RMP.

So, WHAT IS THE PROBLEM?

Jim

Sent from my iPhone

On May 8, 2015, at 10:55 AM, Anthony Titolo <atitolo@blm.gov> wrote:

> Good morning,
> I believe the following will answer both questions from last evening.
>
> **Fed/Split, H/M O & G Potential (accounting for overlap):**
>
> - PHMA approximately 990k
> - GHMA approximately 867k
> - Non-HMA approximately 7.2 mil.
> - Total approximately 9.1 mil.
>
> **Non Fed, H/M O & G Potential (accounting for overlap)**:
>
> - PHMA approximately 400k
> - GHMA approximately 200k
> - Non-HMA approximately 5.3 mil.
> - Total approximately 6 mil.
>
> In total, approximately 15.1 million, with the understanding we are summing rounded

totals.

Anthony

From: Sarah Greenberger [mailto:sarah_greenberger@ios.doi.gov]
Sent: Thursday, May 07, 2015 8:16 PM
To: Anthony Titolo
Cc: James Lyons; Frank Quamen
Subject: Re: GRSG & CO O&G Pie Charts for Non-leased areas

Just to be clear. There are 15.1 total. 990,000 in priority. 867,000 in GHMA. 7.2 million of federal minerals in non-habitat. Then the remaining 6+ million is non federal minerals? Thanks!

Sent from my iPhone

On May 7, 2015, at 6:58 PM, Anthony Titolo <atitolo@blm.gov> wrote:

> Sorry for the delay. I was away from my desk addressing some onboarding paperwork.
>
> Acres of High/Medium Oil & Gas potential (accounting for overlap between the two) on federal & split estate:
>
> - GHMA: approximately 867,000
> - Non-HMA: approximately 7.2 million
> - Of the non-HMA:
> 1. Approximately 5.8 million is federal
> 2. Approximately 1.4 million is split
>
> Have a good evening,
> Anthony
>
> ---
>
> **From:** James Lyons [mailto:james_lyons@ios.doi.gov]
> **Sent:** Thursday, May 07, 2015 4:00 PM
> **To:** Anthony Titolo
> **Cc:** Sarah Greenberger; Frank Quamen
> **Subject:** Re: GRSG & CO O&G Pie Charts for Non-leased areas
>
> Sorry, and how much of non-habitat h/m potential is on fed land/ split estate/ non- fed land?
>
> Sent from my iPhone
>
> On May 7, 2015, at 3:33 PM, Anthony Titolo <atitolo@blm.gov> wrote:
>
>> Approximately 990,000 acres of High/Medium Oil & Gas Potential (accounting for the overlap between the two) is on PHMA.
>> Anthony

From: Greenberger, Sarah
[mailto:sarah_greenberger@ios.doi.gov]
Sent: Thursday, May 07, 2015 1:11 PM
To: Titolo, Anthony
Cc: Quamen, Frank; James Lyons
Subject: Re: GRSG & CO O&G Pie Charts for Non-leased areas

Exactly! so of the 15.1, how much is in priority (federal/split estate).

On Thu, May 7, 2015 at 3:09 PM, Titolo, Anthony <atitolo@blm.gov> wrote:
Hi Sarah,
Just be sure I get you the number you need: You are looking for total high & medium oil/gas potential in PHMA, accounting for overlap, in the state on fed/split estate.
Thanks,
Anthony

On Thu, May 7, 2015 at 12:44 PM, Greenberger, Sarah <sarah_greenberger@ios.doi.gov> wrote:
I need one more stat. What is the one number for total high and medium potential acres for oil and gas in priority habitat? Thanks!

I know that it's 15.1 million in the state and about 600,000 leased in priority.

On Wed, May 6, 2015 at 11:29 AM, Quamen, Frank <fquamen@blm.gov> wrote:
These might help explain too.

Frank Quamen, PhD, Wildlife Biology
BLM National Operations Center
Denver Federal Center Building 40
303-236-6310

On Wed, May 6, 2015 at 9:26 AM, Sarah Greenberger <sarah_greenberger@ios.doi.gov> wrote:
Excellent! Thank you, thank you!

Sent from my iPhone

On May 6, 2015, at 11:20 AM, Anthony Titolo <atitolo@blm.gov> wrote:

> Hi Sarah,
> Yes, about 600k when considering both oil and gas combined, accounting for the overlap.

Anthony

From: Greenberger, Sarah [mailto:sarah_greenberger@ios.doi.gov]
Sent: Wednesday, May 06, 2015 9:12 AM
To: Quamen, Frank
Cc: James Lyons; Anthony Titolo
Subject: Re: GRSG & CO O&G Pie Charts for Non-leased areas

So the total is 600,000 or more? Sorry to be dense. But I am.

On Wed, May 6, 2015 at 11:06 AM, Quamen, Frank <fquamen@blm.gov> wrote:
Hi Sarah,
490,0000 is the overlap between the 500K & 600K. Anthony will provide you with the overlap between the 9 million and 12.6 million shortly.

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303-236-6310

On Wed, May 6, 2015 at 8:49 AM, Greenberger, Sarah <sarah_greenberger@ios.doi.gov> wrote:
It does, it does! Thank you! So is it 490,000 of the 9-12.6 million or the 500-600K (which is what I am assuming) ? Can you give me totals for the overall statewide combined O&G and the combined PHMA unleased?

On Wed, May 6, 2015 at 10:45 AM, Quamen, Frank <fquamen@blm.gov> wrote:
Thanks Sarah,

Your sentence is correct.

There are nearly 9 million acres of high and medium potential gas and 12.6 million acres for oil in Colorado. Between 500,000-600,000 acres (federal and split estate) of that for either oil or gas are in priority

habitat and have not already been leased.

(490,000 of these acres are in BOTH high-medium oil AND high-medium gas [i.e. they overlap])

Hope this makes it to you in time!

Frank

Frank Quamen, PhD, Wildlife Biology
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On Tue, May 5, 2015 at 9:59 PM, Greenberger, Sarah <sarah_greenberger@ios.doi.gov> wrote:
Based on the tables, is the statement below right and is it safe to say that much of the high/medium potential oil and gas overlap in CO? If I remember from maps, that is true.

there are nearly 9 million acres of high and medium potential gas and 12.6 million acres for oil in Colorado. Between 500,000-600,000 acres of that for either oil or gas are in priority habitat and have not already been leased.

On Tue, May 5, 2015 at 11:47 PM, Greenberger, Sarah <sarah_greenberger@ios.doi.gov> wrote:
Frank, this is all exceptional work that provides some critical context for us. I am also hoping that we can boil this all down to a simple statement: *there are X acres of high and medium potential oil and gas in Colorado. X acres of that are acres in priority habitat (federal and split estate) that have not already been leased.*

Is there anyway to know how the acres for oil and gas overlap so that we can fill in that simple statement?

On Tue, May 5, 2015 at 8:50 PM, Quamen, Frank <fquamen@blm.gov> wrote:
Hi Jim & Sarah,
Here is a third set of maps highlighting the

non-leased areas.

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