

Additional Information

Correspondence

Rose-Coss, Dylan H, EMNRD

From: William Boyd <wboyd@pedevco.com>
Sent: Monday, November 4, 2019 2:30 PM
To: Rose-Coss, Dylan H, EMNRD
Subject: [EXT] RE: Casing Question

Dylan,

Think I gave you my phone number wrong. (713) 574-7912

Apologies.

WB

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Monday, November 4, 2019 3:22 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Casing Question

Okay,

I thought you had too, but thanks for resending.

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Monday, November 4, 2019 2:19 PM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] RE: Casing Question

Dylan,

Rose-Coss, Dylan H, EMNRD

From: William Boyd <wboyd@pedevco.com>
Sent: Tuesday, November 19, 2019 8:40 AM
To: Rose-Coss, Dylan H, EMNRD
Subject: [EXT] RE: Casing Question

Dylan,

Good morning. So the update from our end is that our frac crews are moving onto location as of next Monday. We've got the 4 wells that we drilled earlier this year to complete so we anticipate those operations to take until approximately Christmas.

From the drilling side, our engineer is waiting on me to try to firm up dates so he can contract the rig to drill this well. I completely understand that I can't give him a date to begin, I just wanted to hear from you where we might be in the process. As of last week you seemed optimistic.

Thanks again for your time and help through this process.

Sincerely,
William

From: Rose-Coss, Dylan H, EMNRD
Sent: Thursday, November 14, 2019 9:07 AM
To: William Boyd
Subject: RE: Casing Question

Hi William,

Thanks for checking in. I've meant to get back to you regarding the last documents you sent. I just haven't had the time to make any additional progress on the order. It is on my to do list for the week though and I do want to get it out the door. However, I can't make any promises as to how soon it will actually happen, as the ball is somewhat out of my hands at the moment. I do appreciate your patience with the process, and I'll let you know as soon as I am able to get everything together.

In the meantime, do let me know if you have any additional questions and I'll see if I can help.

Regards,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd
Sent: Thursday, November 14, 2019 7:20 AM
To: Rose-Coss, Dylan H, EMNRD
Subject: [EXT] RE: Casing Question

Dylan,

Good morning. I wanted to check in briefly and see if there's anything else I can provide to be helpful. Let me know how things are going please. Folks around here are getting excited and I'm trying to hold them in check.

Thanks,
William

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Monday, November 4, 2019 3:22 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Casing Question

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Sent: Monday, November 4, 2019 2:19 PM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] RE: Casing Question

Dylan,

I think I did but if you're asking maybe I didn't get that to you. Cement as follows:

Surface Casing 10 3/4" J55 cemented with 735 sxs
Intermediate Casing 7 5/8" L80 cemented with 885 sxs

TOC estimated by calculation

Thanks,
William

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Monday, November 4, 2019 3:12 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Casing Question

Okay,

Awesome. I am hoping for a productive discussion as well. Also, by way of being constructive, had you provided me the cement use estimates? I'm looking through my files and not coming up with it. I need the volume of cement to be used per casing string and the method that will be used to determine that is circulated.

Thanks,

Dylan Rose-Coss

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From: William Boyd <wboyd@pedevco.com>
Sent: Monday, November 4, 2019 12:51 PM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] RE: Casing Question

Good to know. I'll have Ben Kirkpatrick, drilling engineer, Clayton Riddle, VP Development, and Kevin Goebel, VP Operations with me. Should be constructive.

Thanks,
WB

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Monday, November 4, 2019 1:50 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Casing Question

Perfect,

Will do. I'll be joined in my office by Phil and Dean as well.

Talk to you then.

Dylan Rose-Coss

Petroleum Specialist
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1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Monday, November 4, 2019 12:04 PM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] RE: Casing Question

How about you call us. I'll have everyone in my office ready at 2:30 your time.

(713) 572-9712

Thanks.

WB

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Monday, November 4, 2019 12:14 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Casing Question

Correct,

2: 30 mountain time. Would you like to call us, or should we call you?

Dylan Rose-Coss

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(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Monday, November 4, 2019 9:49 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Cc: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: [EXT] RE: Casing Question

Dylan,

2:30 works for us, so that's 2:30 mountain time and 3:30 central correct?

Thanks,
William

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Monday, November 4, 2019 10:08 AM
To: William Boyd <wboyd@pedevco.com>
Cc: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: RE: Casing Question

William,

Yes, the week in the field was good. Looking forward to a week in the office where I can focus on SWD apps. I could put some time towards the Kizer SWD #2 app today and will also be able to fit in a phone call. Would 2:30 work for you and your team? What about you Phil?

I'm flexible, just not the 10:00 hour or the noon hour New Mexico time.

Best,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Monday, November 4, 2019 7:46 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] Casing Question

Dylan,

Good morning. Hopefully you had a good week in the field last week. I've spoken with our team about the possibility of casing through the injection interval and they'd like the chance to talk with you about that idea. Being a landman, they're all much more in tune with the engineering aspects of the proposed well. If you have any availability today for a short phone conversation please let me know.

Thanks,

William L. Boyd, CPL
Land & Regulatory Manager
(713) 574-7912 Direct
(832) 691-4322 Mobile

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PEDEVCO

575 N Dairy Ashford Rd, Suite 210

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Houston, TX 77079

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Rose-Coss, Dylan H, EMNRD

From: William Boyd <wboyd@pedevco.com>
Sent: Friday, November 8, 2019 2:45 PM
To: Rose-Coss, Dylan H, EMNRD
Subject: [EXT] Seismicity Letter
Attachments: SKM_554e19110816400.pdf

Dylan,

Attached please find the signed letter regarding the possibility of induced seismicity.

Have a good weekend,

William

William L. Boyd, CPL
Land & Regulatory Manager
(713) 574-7912 Direct
(832) 691-4322 Mobile

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Rose-Coss, Dylan H, EMNRD

From: William Boyd <wboyd@pedevco.com>
Sent: Wednesday, October 30, 2019 9:16 AM
To: Rose-Coss, Dylan H, EMNRD
Subject: [EXT] FW: Montoya Formation
Attachments: Cross_Section-Structural_Regional_Devonian_Tie_Kizer_SWD_2_Lith.zip

Dylan,

Please find attached the same logs used on the previously submitted cross section with the Montoya formation identified.

Thanks,
William

William L. Boyd, CPL
Land & Regulatory Manager
(713) 574-7912 Direct
(832) 691-4322 Mobile

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From: Benjamin Jacobson <bengeol@outlook.com>
Sent: Monday, October 28, 2019 4:22 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Montoya Formation

I believe this ties to the map. Thanks!

Ben J.

Sent from [Mail](#) for Windows 10

From: [William Boyd](#)
Sent: Monday, October 28, 2019 2:23 PM
To: [Benjamin Jacobson](#)
Subject: Montoya Formation

Ben,

Talking with the OCD again last Friday they want us to identify the Montoya formation on the cross section. When you have a minute, can you just spot it on the logs from the cross section please?

Thanks,

William L. Boyd, CPL
Land & Regulatory Manager
(713) 574-7912 Direct
(832) 691-4322 Mobile

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Rose-Coss, Dylan H, EMNRD

From: William Boyd <wboyd@pedevco.com>
Sent: Thursday, October 24, 2019 8:20 AM
To: Rose-Coss, Dylan H, EMNRD
Subject: [EXT] RE: Pooling Order & C-108
Attachments: Kizer_SWD_2_Lithologic_Description-Injection-Confining_Intervals_Pg1.JPG; Kizer_SWD_2_Lithologic_Description-Injection-Confining_Intervals_Pg2.JPG; Tops-Porosity_Old_Hippie.zip; Kizer_SWD_2_Lithologic_Description-Injection-Confining_Intervals_Pg2.JPG; Kizer_SWD_2_Lithologic_Description-Injection-Confining_Intervals_Pg2.JPG

Dylan,

As analyzed by our geologist Ben Jacobson, I can provide the following response to your questions regarding lithology, deposition, and confining intervals, and supporting documentation attached:

Attached is the marked porosity log for the Old Hippie well, located 2035' FSL-2122' FWL-TWP: 6 S-Range: 34 E-Section 32; approximately 6 miles NW from the proposed Kizer SWD #2 location. It clearly contains proper modern logs to evaluate the AOI. The evidence shows the Devonian (300' gross thickness) is a dolomitic rock, containing as much as 6 percent porosity within the upper primary injection interval, and 6-14 percent in the lower interval above the Ellenburger. The Ellenburger (100' gross thickness), dolomitic rock, contains as much as 17 percent porosity. The Mississippian interval (100' gross thickness) limestone above the Devonian and Woodford, contains < 1 percent porosity. The Pennsylvanian (400' gross thickness) limestone above the Mississippian, contains 2-4 percent porosity with several massive layers containing less than 2 percent porosity. The Wolfcamp (400' gross thickness) limestone, contains 2-4 percent porosity within the lower 2/3rds, with several massive layers containing less than 2 percent porosity.

The two .jpeg files also serve to further describe some of the depositional sequences.

Please let me know if I can provide anything further.

Sincerely,
William

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From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Tuesday, October 22, 2019 11:03 AM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Pooling Order & C-108

William,

Thanks for getting all this information to me. I have not had the chance to go into too much detail yet, but at first pass everything looks pretty good, especially considering the lack of data in the area. However, the application indicated that there were faults cutting the Woodford to the Southwest of the proposed location. Does the application need to be modified, or should the structure contour map be modified, so that the two are into agreement with each other?

Also, it would be helpful for me that when Mr. Hicks responds about the injection intervals lithology, he could expand the focus to include a discussion regarding the presence of lower confining intervals (Simpson and Montoya), and the thickness of strata between the injection interval and the basement.

Thanks,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Monday, October 21, 2019 1:14 PM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Cc: r@rthicksconsult.com
Subject: [EXT] RE: Pooling Order & C-108

Dylan,

Please see the attached data in response to your questions. The attachments are as follows:

1. Technical Review Spreadsheet, as complete as I can make it.
2. Devonian Cross Section Map

3. Logs of the wells included on the cross section identifying tops and basements of the formations of interest.

Our geologist, Ben Jacobsen analyzed log data from the area of interest to create the contours and cross section map attached. While there appears to be an anomaly to the WNW of the proposed well location, no faulting is known to exist in the Devonian in this area. For that reason, I was hoping the cross section map can also serve to answer the faulting question. There are no known faults to map in this area.

For your third question, I believe Randall Hicks was going to provide a statement answering the issues raised.

The cement data you've requested is included in the appropriate area on the Technical Review Spreadsheet.

Please let me know what further information I can provide. Thanks very much for the time and effort spent on our application.

Sincerely,
William

William L. Boyd, CPL
Land & Regulatory Manager
(713) 574-7912 Direct
(832) 691-4322 Mobile

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From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Friday, October 18, 2019 4:00 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Pooling Order & C-108

I can open that map, so the format seems to work. I don't have any problem with the materials being submitted this way. Thanks for your efforts in answering my questions. I really would like to help get this application out the door if we can. It'll be 1 of 415 that we need to review, but need start somewhere right.

I'll be on the lookout for the cross section in the near future then.

Hope you have a good weekend.

Cheers,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Friday, October 18, 2019 2:53 PM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] RE: Pooling Order & C-108

Dylan,

So in gathering data to respond to your questions we're nearly finished, just polishing things up. As we're not a major oil company we do have some limitations to our resources and mapping software. The mapping has gone great, just outputting the file only has limited formats. I will get this map into greater detail but can this .bmp file be submitted as backup to the cross section map? The logs connected to the wells that we're using in the cross section are in the same file format, .bmp.

Let me know, and if this works, we'll have all completed responses by Monday.

Thanks, and have a good weekend.

William

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Tuesday, October 15, 2019 1:03 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Pooling Order & C-108

Mr. Boyd,

Thanks for your email. I have reviewed the Kizer SWD #2 well application. Based on the review there are a few items that will need to be addressed before the Division can move forward with the application.

1. Please provide a cross section depicting the lower Mississippian Woodford shale, and the Devonian section with the projected Montoya, Ellenburger and basement tops included.
2. Please provide a Devonian Structure map that shows the location of faults in the area.

3. Additional lithologic description of the hypothesized injection and confining intervals regarding lithology, depositional sequences, and hypothesized porosity.

Because the well location is outside of the area in which the geology and thicknesses of the injection and confining intervals is better understood, the Division would like these additional items in order to validate that there is sufficient confining intervals between the producing intervals and underlying basement rocks.

Additionally, I was unable to locate in the application where the estimated sacks of cement were listed and the method that will be used to determine the cement tops. I will need that information to complete the technical review. It would also help me tremendously if Pedevco could fill out the attached excel spreadsheet. I need to complete the spreadsheet for the technical review, so it will help me to confirm that we are on the same page on all the important parameters as we move forward.

Thanks and let me know if you have any questions.

Regards,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Tuesday, October 15, 2019 7:11 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] RE: Pooling Order & C-108

Dylan,

Reaching out this morning to keep being the squeaky wheel. Any update on the review process for our C-108?

Thanks for the help.

Sincerely,
William

From: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Sent: Wednesday, October 9, 2019 1:55 PM
To: William Boyd <wboyd@pedevco.com>
Subject: RE: Pooling Order & C-108

Oh Good,

Glad we were able to get that done. I have the Kizer SWD #2 well on my current to do list. Hopefully by the end of the week I can get some questions to you, I have done a quick initial scan of the application, but have not had a good chance to circle back to it. It is on my radar though. I'll let you know as soon as I can carve out some time for it.

Best,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

(505) 476-3477



From: William Boyd <wboyd@pedevco.com>
Sent: Wednesday, October 9, 2019 10:42 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>; Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Cc: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: [EXT] Pooling Order & C-108

Dylan,

Thanks to you and Kathleen very much for getting our pooling order issued yesterday. We'll have that done in time to make first sales of the well once it's done flowing back without any delays.

Next on our priority list is the C-108 application for the Kizer SWD #2 well. We have drilled the 4 wells that will feed disposal water into that well and have completions scheduled to begin on or about November 20. There's a federal component to the drilling of this well also and we're past the deficiency response period from the BLM so we anticipate approval of the APD from them within the next couple of weeks.

Point is, anything that can be done to review this application and help us try to get close to the November 20 goal we greatly appreciate. I know that there's a flood of these applications in the OCD's hands right now so thank you all very much.

Sincerely,

William L. Boyd, CPL
Land & Regulatory Manager
(713) 574-7912 Direct
(832) 691-4322 Mobile

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Good to know. I'll have Ben Kirkpatrick, drilling engineer, Clayton Riddle, VP Development, and Kevin Goebel, VP Operations with me. Should be constructive.

Thanks,
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Sent: Monday, November 4, 2019 1:50 PM
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Subject: RE: Casing Question

Perfect,

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Dylan Rose-Coss

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I'm flexible, just not the 10:00 hour or the noon hour New Mexico time.

Best,

Dylan Rose-Coss

Petroleum Specialist
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From: William Boyd <wboyd@pedevco.com>
Sent: Monday, November 4, 2019 7:46 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Subject: [EXT] Casing Question

Dylan,

Good morning. Hopefully you had a good week in the field last week. I've spoken with our team about the possibility of casing through the injection interval and they'd like the chance to talk with you about that idea. Being a landman, they're all much more in tune with the engineering aspects of the proposed well. If you have any availability today for a short phone conversation please let me know.

Thanks,

William L. Boyd, CPL
Land & Regulatory Manager
(713) 574-7912 Direct
(832) 691-4322 Mobile

PLEASE NOTE NEW ADDRESS AND PHONE NUMBER EFFECTIVE IMMEDIATELY

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