



Grinde 01-64-5-4 NWSW Pad

Matt Barber <mbarber@hpres.com>
To: Laurel Faber DNR <laurel.faber@state.co.us>

Fri, Jan 25, 2019 at 9:34 AM

Hi Laurel,

I have just confirmed with our geology department the following 3D calculation. Please change the distance for the Grinde 1-64-5-4841C to the Reiter 04-3H to 186'.

Sorry for any confusion we may have caused.

Please let me know if you need any additional information.

Thank you so much!

Matt

Offset_Well_Name	NearestProposedHoriz	ShortestDist_txt	Operator	Comments
REITER 04-1H	Grinde 1-64-5-3340B	236	VERDAD RESOURCES LLC	Closest point is at the landing point of the Grinde 1-64-5-3340B; interpolated with 3D Calculation: Vertical Distance "a"=230, Horizontal Distance "b"=52, Hypotenuese (Closest Point) "c"=236
REITER 04-3H	Grinde 1-64-5-4841C	186	VERDAD RESOURCES LLC	Closest point is at the bottom hole location of the Grinde 1-64-5-4841C; interpolated with 3D Calculation: Vertical Distance "a"=108, Horizontal Distance "b"=152, Hypotenuese (Closest Point) "c"=186.

From: Laurel Faber DNR <laurel.faber@state.co.us>
Sent: Thursday, January 24, 2019 2:42 PM
To: Matt Barber <mbarber@hpres.com>
Subject: Grinde 01-64-5-4 NWSW Pad

Matt,

I'm taking a look at these wells, and just want to make sure I am thinking things out correctly. There are two wells on the Grinde pad that are too close to the Verdad Reiter pad, measured in 2D on our map.

Grinde 01-64-05-3340B (401489711) is measured at 33 ft. from the Reiter 04-1H

Grinde 01-64-05-4841C (401489717) is measured at 105 ft. from the Reiter 04-3H.

I need updated vertical distances between these 4 wells. If the distances are over 150 ft, the spacing order is fulfilled and it's hunky dory. IF there is less than 150 ft. of vertical distance between the wells, we have two options:

1. Verdad's wells were in our system first so they take precedence. You can change and update your planned wellbore so that there is more than 150 ft. between the wells, with updated directional surveys, directional data, well location plats, and any needed attachments on the 2A.

or

2. You can request an Exception Location per Rule 318.c for an exception location from spacing order number 407-2097, and get signed waivers from Verdad.

Please let me know what the vertical distances are, and if we need to pursue either option.

Thanks,

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Laurel Faber

Permit and Completions Technician



COLORADO
Oil & Gas Conservation
Commission
Department of Natural Resources

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