



Corporate Office

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October 31, 2018

State of Colorado, Oil & Gas Conservation Commission
Attn: Director
1120 Lincoln Street, Suite 801
Denver, CO 80203

Re: **Letter to the Director, Rule 317.p**

Thunder 5N64W3 1-10 Pad, Part of N2 Section 3, T5N-R64W, Weld County, Colorado
Wells: Thunder 1C (Doc 401806580), 2N (Doc 401806583), 3N (Doc 401806588), 4N (Doc 401806591),
5N (Doc 401806594), 6N (Doc 401806598), 7N (Doc 401806600), 8N (Doc 401806601), 9N (Doc 401806604),
10N (Doc 401806607)

Dear Director:

PDC Energy ("PDC") intends to drill and produce the above referenced horizontal oil and gas well(s), to be located as described above. PDC respectfully requests the Director to approve an exception to Rule 317.p for the referenced proposed wells, as adequate well log control exist in the records of offset wells drilled in the vicinity of the surface-hole location of the proposed new wells. In lieu of running an open hole log, one of the first wells drilled on the pad will be logged with Cased-hole Pulsed Neutron Log with Gamma Ray Log from kick-off point into the surface casing in addition to PDC's normal Gamma Ray/ Neutron (GR/N) log and CBL run on all wells on the pad.

The logs from the following prior-drilled well are proposed to provide adequate log coverage to characterize the geology of the area.

Well name(s) with Log	API #	Distance to well	Direction to well	Document Numbers	Type of Log
Stout 6-3	05-123-21915	684'	SE	1488702	Dual Induction/Guard Log/Gamma Ray

The Cased-hole Pulsed Neutron Log with Gamma Ray Log will be run from kick-off point into the surface casing on one of the first wells drilled on the pad. The CBL and Gamma Ray/ Neutron (GR/N) logs will be run on the 5 1/2" first string, from the top of the curve to surface, on all the proposed new wells on the subject pad. The horizontal portion of each well on the pad will be logged with a measured-while-drilling Gamma Ray log and all logs will be submitted to COGCC. The Drilling Completion Report- Form 5 submitted for each well will list all logs run in that well and indicate that no open-hole logs were run. PDC hereby requests the Director to grant an exception to Rule 317.p.

If you should have any questions or concerns regarding this permit, please contact the undersigned at (303) 831-3931.

Sincerely,

A handwritten signature in black ink, appearing to read "Ally Ota".

Ally Ota
Regulatory Technician
PDC Energy, Inc.