



**Corporate Office**

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April 3, 2018

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

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

Crawford 4N65W32 1-4 Pad, SESE Sec. 32, T4N-R65W, Weld County, Colorado  
Wells: Crawford 1N, 2N, 3N, 4N

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  |
|-----------------------|--------------|------------------|-------------------|------------------|--|
| HSR-KOCH #16-32       | 05-123-16675 | 560'             | NW                | 977439           | Dual Induction Focused Log/Gamma Ray/3 Arm Caliper |

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 dark ink, appearing to read "Ally Ota", written over a light blue horizontal line.

Ally Ota  
Regulatory Technician  
PDC Energy, Inc.