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**Corporate Office**  
1775 Sherman Street, #3000  
Denver, Colorado 80203  
303.860.5800  
www.pdce.com

June 14, 2013

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

Re: **Letter to the Director, Rule 318A.e.**  
Thornton 28S-403  
NESE, Section 28 T7N R66W  
Weld County, Colorado

Dear Director:

PDC Energy ("PDC") hereby certifies to the Director that PDC holds all minerals in the proposed 320 acre wellbore spacing unit consisting of the SE of Section 28 and NE of Section 33 in T7N R66W; therefore, no 30-day notice is needed to owners in the proposed wellbore spacing unit. This horizontal well location crosses existing unit boundaries and requires the formation of the proposed unit. PDC hereby requests the Director to approve the well.

If you should have any questions or concerns regarding this permit, please contact the undersigned at (303) 860-5800.

Sincerely,

A handwritten signature in blue ink, appearing to read "Liz Lindow".

Liz Lindow  
Regulatory Analyst  
PDC Energy, Inc.



W1/4 CRN SEC. 28 S 1/2 S.28 & N 1/2 S.33, TOWNSHIP 7 NORTH, RANGE 66 WEST, 6TH P.M.

S 1/2 S.28 & N 1/2 S.33, TOWNSHIP 7 NORTH, RANGE 66 WEST, 6TH P.M.

E1/4 CRN SEC. 28  
2.5" AC LS 12374  
N 40.54591°  
W 104.77380°

BASIS OF BEARINGS  
N01°54'37"E 2679.

THIS IS A HORIZONTAL DRILL WELL  
BOTTOM HOLE AT 2140' FNL, 1131' FEL SEC. 33  
WELL FALLS IN A PLOWED FIELD.  
SEE LOCATION DRAWING FOR IMPROVEMENTS

GROUND ELEVATION = 4935'  
LAT. & LONG. = N 40.54547°  
W 104.77706°

SW CRN SEC. 28  
2.5" AC LS 28285  
N 40.53844°  
W 104.79331°

S89°09'37"W 2659.8'

S1/4 CRN SEC. 28  
3.25" AC LS 7242  
N 40.53853°  
W 104.78374°

S89°09'49"W

2659.3'

SE CRN SEC. 28  
2.5" AC LS 23513  
N 40.53882°  
W 104.77417°

W1/4 CRN SEC. 33  
2.5" AC LS 16154  
N 40.53106°  
W 104.79369°

S02°08'22"W

2691.0'

S89°09'37"W 2659.8'

S02°06'07"W 2677.9'

BH = 2140' FNL  
1131' FEL  
N 40.53273°  
W 104.77853°




N88°52'57"E

N 40.53119°  
W 104.78411°

2662.1'

E1/4 CRN SEC. 33  
2.5" AC LS 23513  
N 40.53131°  
W 104.77453°

I HEREBY STATE TO PDC ENERGY THAT THE SURFACE LOCATION FOR THE WELL THORNTON 28S-403 IS LOCATED 2510' FSL & 900' FEL, SEC. 28, T7N, R66W, 6PM.

 = FOUND MONUMENT  
 = PROPOSED WELL  
 = BOTTOM HOLE



**NORTH**

A horizontal number line with three major tick marks labeled 0, 500, and 1000. Below the line, there are two horizontal lines forming a rectangular frame.

SCALE 1" = 1000'

ELEVATION SOURCE = USGS 7.5' QUAD.MAP CONTOURS  
NGVD 1929 DATUM.

LAT. & LONG. ARE DIFFERENTIALLY CORRECTED (WGS'84)  
USING (DGPS) WITH A (PDOP) VALUE OF 1.8.

SHOWN DISTANCES ARE FIELD MEASURED - EXTERIOR SECTION LINES  
ARE DRAWN TO SCALE (BEST APPROX. OR FOUND MONUMENT  ).

DISTANCES TO SITE SHOWN PERPENDICULAR  
TO SECTION LINES.

THOMAS G. CARLSON, PLS 24657  
HORSESHOE SURVEYING, LLC

THIS IS NOT A MONUMENTED BOUNDARY SURVEY, IT IS ONLY A  
DRAWING INTENDED TO DEPICT THE WELL LOCATION TO SECTION LINES.

**PREPARED BY:**

HORSESHOE SURVEYING, LLC  
PO BOX 150458  
LAKEWOOD, CO 80215  
(720)872-0196

WELL NAME:

THORNTON 28S-403

DRAWING DATE:

4-28-13

FIELD DATE:

4-26-13

BY:

TGC

**SHEET:**

1 OF 1

**LOCATION:**

WELD COUNTY, CO

SE1/4, SEC. 28, T7N, R66W, 6TH P.M.