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**Corporate Office**

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

August 9, 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-223  
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 280 acre wellbore spacing unit consisting of the SE of Section 28, E2NE and NWNE 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", written over the word "Sincerely,".

Liz Lindow  
Regulatory Analyst  
PDC Energy, Inc.

# WELL LOCATION CERTIFICATE

W1/4 CRN SEC. 28  
2.5" AC LS 16154  
N 40.54578°  
W 104.79297°

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 2679.2'

## NOTES:

THIS IS A HORIZONTAL DRILL WELL  
BOTTOM HOLE AT 2140' FNL, 812' FEL SEC. 33  
WELL FALLS IN A PLOWED FIELD.  
SEE LOCATION DRAWING FOR IMPROVEMENTS

GROUND ELEVATION = 4935'  
LAT. & LONG. = N 40.54547°  
W 104.77695°

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'

2662.2'

2662.2'

N88°52'57"E

N 40.53119°  
W 104.78411°

S02°06'07"W 2677.9'

BH = 2140' FNL  
812' FEL  
N 40.53275°  
W 104.77739°

348'  
S06°48'E

2510' 870'

S02°03'W

4309'

S02°09'24"W 2665.0'

N02°03'23"E 2664.7'

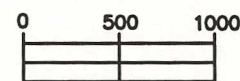
E1/4 CRN SEC. 33  
2.5" AC LS 23513  
N 40.53131°  
W 104.77453°

I HEREBY STATE TO PDC ENERGY THAT THE SURFACE LOCATION FOR THE WELL  
THORNTON 28S-223 IS LOCATED 2510' FSL & 870' FEL, SEC. 28, T7N, R66W, 6PM.



## LEGEND

- = FOUND MONUMENT
- = PROPOSED WELL
- = BOTTOM HOLE



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.

THOMAS G. CARLSON, PLS 24657  
HORSESHOE SURVEYING, LLC

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

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

DISTANCES TO SITE SHOWN PERPENDICULAR  
TO SECTION LINES.

PREPARED BY:

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

WELL NAME:

THORNTON 28S-223

DRAWING DATE:

4-28-13

LOCATION:

WELD COUNTY, CO

FIELD DATE:

4-26-13

BY:

TGC

SHEET:

1 OF 1

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