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**Corporate Office**

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

February 27, 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 21R-223  
NWNE, Section 21 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 E2 of Section 21 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.

# WELL LOCATION CERTIFICATE

SECTION 21, TOWNSHIP 7 NORTH, RANGE 66 WEST, 6TH P.M.

NE CRN SEC. 21  
3.25" AC LS 10855

NW CRN SEC. 21  
3.25" AC LS 10855

N88°47'53"E

2662.8'

N88°48'28"E 2662.8'

N1/4 CRN SEC. 21  
2.5" AC LS 9644

350'  
S58°19'E  
616'

2656.9'

N00°35'27"W

## NOTES:

THIS IS A HORIZONTAL DRILL WELL.  
BOTTOM HOLE AT 500' FSL, 1080' FEL.  
WELL FALLS IN A WHEAT FIELD.  
SEE LOCATION DRAWING FOR IMPROVEMENTS

W1/4 CRN SEC. 21  
2.5" AC LS 16154

2657.0'

N00°35'39"W

GROUND ELEVATION = 4970'  
LAT. & LONG. = N 40.56686°  
W 104.77927

S1/4 CRN SEC. 21  
3.25" AC LS 26595

BH = 500' FSL,  
1080' FEL.

LAT. & LONG. = N 40.55455°  
W 104.77733°

SW CRN SEC. 21  
3.25" AC LS 7242

S89°09'43"W

2669.4'

S89°09'39"W

2669.4'

SE CRN SEC. 21  
3.25" AC LS 26595

2673.4'

S00°43'54"E

2673.8'

S00°44'36"E

BASIS OF BEARINGS

I HEREBY STATE TO PDC ENERGY THAT THE SURFACE LOCATION FOR THE WELL  
THORNTON 21R-223 IS LOCATED 350' FNL & 1600' FEL, SEC. 21, T7N, R66W, 6PM

## LEGEND

⊕ = FOUND MONUMENT

⊙ = PROPOSED WELL

○ = BOTTOM HOLE

**NORTH**

0 500 1000

SCALE 1" = 1000'

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

LAT. & LONG. ARE DIFFERENTIALLY CORRECTED (WGS'84)  
USING (DGPS) WITH (PDOP) VALUE OF 1.7.

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 WELL SHOWN PERPENDICULAR  
TO SECTION LINES.

PREPARED BY:

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

WELL NAME:

THORNTON 21R-223

LOCATION:

WELD COUNTY, CO  
NE1/4, SEC. 21, T7N, R66W, 6TH P.M.

DRAWING DATE:

10-13-12

FIELD DATE:

10-11-12

BY:

TGC

CHKD:

JOB NO.

SHEET NO.

1 OF 1