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**Corporate Office**

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

December 11, 2012

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

Re: **Letter to the Director, Rule 318A.m.**  
Thornton 11V-404  
NENE, Section 11, T7N, R66W  
Weld County, Colorado

Dear Director:

Petroleum Development Corporation doing business as PDC Energy ("PDC") hereby certifies to the Director that PDC holds all minerals in the proposed 320 acre wellbore spacing unit consisting of the N2 of Sec 11 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 11, TOWNSHIP 7 NORTH, RANGE 66 WEST, 6TH P.M.

NW CRN SEC. 11  
3.25" AC LS 4392

N88°23'32"E 2713.9'

N88°26'15"E 2702.7'

NE CRN SEC. 11  
3.25" AC LS 4392

N1/4 CRN SEC. 11  
3.25" AC LS 4392

2663.6'

BH = 1520' FNL,  
500' FWL  
LAT. & LONG. = N 40.59299°  
W 104.75257°

1298'

534'

S27°20'W  
252'

S88°24'W

4264'

2733.2'

BASIS OF BEARINGS

S00°42'40"E

2733.7'

S02°57'11"E

W1/4 CRN SEC. 11  
3.25" AC LS 12374

N00°41'34"W

2651.3'

N00°37'50"W

SW CRN SEC. 11  
3.25" AC LS 7242

N89°54'10"W 2701.6'

S89°52'44"W

2826.2'

S1/4 CRN SEC. 11  
3.25" AC LS 7242

SE CRN SEC. 11  
3.25" AC LS 8142

I HEREBY STATE TO PDC ENERGY THAT THE SURFACE LOCATION FOR THE WELL  
THORNTON 11V-404 IS LOCATED 1298' FNL & 534' FEL, SEC. 11, T7N, R66W, 6PM

NOTES:  
THIS IS A HORIZONTAL DRILL WELL.  
BOTTOM HOLE AT 1520' FNL, 500' FWL.  
WELL FALLS IN A WHEAT FIELD.  
SEE LOCATION DRAWING FOR IMPROVEMENTS  
  
GROUND ELEVATION = 4961'  
LAT. & LONG. = N 40.59383°  
W 104.73680°

## LEGEND

- FOUND MONUMENT
- PROPOSED WELL
- BOTTOM HOLE

**NORTH**



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 1.8.

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

DISTANCES TO WELL 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 11V-404

LOCATION: WELD COUNTY, CO  
NE1/4, SEC. 11, T7N, R66W, 6TH P.M.

DRAWING DATE:  
9-27-12

FIELD DATE:  
9-20-12

BY: TGC

CHKD:

JOB NO.

SHEET NO.

1 OF 1

