



Corporate Office
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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.

NW CRN SEC. 21
3.25" AC LS 10855

N88°47'53"E

2662.8'

N88°48'28"E 2662.8'

NE CRN SEC. 21
3.25" AC LS 10855

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
3.25" AC LS 18154

2657.0'

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

N00°35'39"W

SW CRN SEC. 21
3.25" AC LS 7242

S89°09'43"W

2669.4'

S89°09'39"W

2669.4'

S1/4 CRN SEC. 21
3.25" AC LS 28595

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

BH = 500' FSL,
1080' FEL.

4156'
S00°45'E

2673.4'
S00°43'54"E
BASIS OF BEARINGS

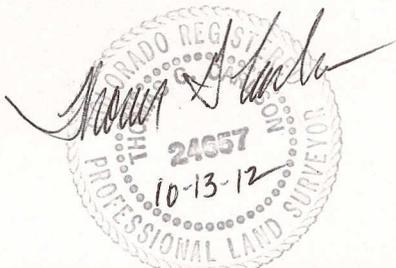
2673.8'

S00°44'36"E

E1/4 CRN SEC. 21
3.25" AC LS 26595

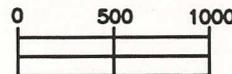
SE CRN SEC. 21
3.25" AC LS 26595

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



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
DRAWING DATE:	10-13-12	LOCATION:	WELD COUNTY, CO NE1/4, SEC. 21, T7N, R66W, 6TH P.M.
FIELD DATE:	10-11-12	BY:	TGC
CHKD:		JOB NO.	
		SHEET NO.	1 OF 1