

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, 200' FEL SEC. 33
WELL FALLS IN A PLOWED FIELD.
SEE LOCATION DRAWING FOR IMPROVEMENTS

GROUND ELEVATION = 4935'
LAT. & LONG. = N 40.54548°
W 104.77674°

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

S89°09'37"W 2659.8'

S89°09'49"W 2659.3'

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

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

2677.9'

4307'

2664.7'

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

S02°08'22"W 2691.0'

S02°06'07"W 2677.9'

S02°06'07"W 2677.9'

N02°03'23"E 2664.7'

BH = 2140' FNL
200' FEL
N 40.53277°
W 104.77518°

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

N88°52'57"E

2662.2'

N 40.53119°
W 104.78411°

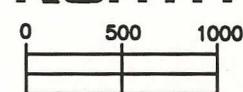
2662.1'

I HEREBY STATE TO PDC ENERGY THAT THE SURFACE LOCATION FOR THE WELL THORNTON 28W-103 IS LOCATED 2510' FSL & 810' 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.

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.

<p>PREPARED BY: HORSESHOE SURVEYING, LLC PO BOX 150458 LAKEWOOD, CO 80215 (720)872-0196</p>	<p>WELL NAME: THORNTON 28W-103</p>
<p>DRAWING DATE: 4-28-13</p>	<p>LOCATION: WELD COUNTY, CO SE1/4, SEC. 28, T7N, R66W, 6TH P.M.</p>
<p>FIELD DATE: 4-26-13</p>	<p>BY: TGC SHEET: 1 OF 1</p>