

WELL LOCATION CERTIFICATE

SECTION 15, TOWNSHIP 7 NORTH, RANGE 66 WEST, 6TH P.M.

NW CRN SEC. 15
3.25" AC LS 33642

S89°41'02"W

2693.4'

S89°41'58"W

2644.1'

NE CRN SEC. 15
3.25" AC LS 7242

N1/4 CRN SEC. 15
3.25" AC LS 34995

285'
360'

N89°41.5'E

4324'

S40°21'E
366'

BH = 640' FNL,
500' FEL.

LAT. & LONG. = N 40.58076°
W 104.75610°

2653.9'

2652.7'

S00°18'51"E

N00°56'30"W

W1/4 CRN SEC. 15
3.25" AC LS 10855

E1/4 CRN SEC. 15
3.25" AC LS 7242

NOTES:

THIS IS A DIRECTIONAL DRILL WELL.
BOTTOM HOLE AT 640' FNL, 500' FEL.

WELL FALLS IN A PLOWED FIELD.
SEE LOCATION DRAWING FOR IMPROVEMENTS

GROUND ELEVATION = 4970'
LAT. & LONG. = N 40.58150°
W 104.77250°

BASIS OF BEARINGS

2659.2'

2648.9'

S00°19'01"E

S00°02'42"E

SW CRN SEC. 15
3.25" AC LS 10855

S1/4 CRN SEC. 15
3.25" AC LS 4392

SE CRN SEC. 15
3.25" AC LS 4392

N89°34'09"E

2676.9'

N89°33'56"E

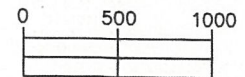
2677.1'

I HEREBY STATE TO PERTOLEUM DEV. CORP. THAT THE SURFACE LOCATION FOR THE
WELL THORNTON 15E-432 IS LOCATED 360' FNL & 285' FWL, SEC. 15, 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 1.5.

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

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.

DISTANCES TO WELL SHOWN PERPENDICULAR
TO SECTION LINES.

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| PREPARED BY: | | HORSESHOE SURVEYING, LLC PO BOX 150458 LAKEWOOD, CO 80215 (720)872-0196 | | WELL NAME: | | THORNTON 15E-432 | |
| DRAWING DATE: | | 8-26-14 | | LOCATION: | | WELD COUNTY, CO NW1/4, SEC. 15, T7N, R66W, 6TH P.M. | |
| FIELD DATE: | BY: | CHKD: | JOB NO. | SHEET NO. | | | |
| 4-23-12 | TGC | | | 1 OF 1 | | | |