



**Corporate Office**

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

1/25/2012

Department of Natural Resources  
Oil and Gas Conservation Commission  
The Chancery Building  
1120 Lincoln St., Suite 801  
Denver, CO 80203

Re: **Rule 318Ae – Proposed Spacing Unit**  
Thornton 19X-404  
Section 19 Township 7 North, Range 66 West  
Weld County, Colorado

Dear Director,

Petroleum Development Corporation doing business as PDC Energy ("PDC") hereby certifies to the Director that PDC owns all minerals in the proposed 320 acre wellbore spacing unit consisting of the S2 of Section 19, Township 7N, Range 66W; 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  
Permit Analyst  
PDC Energy

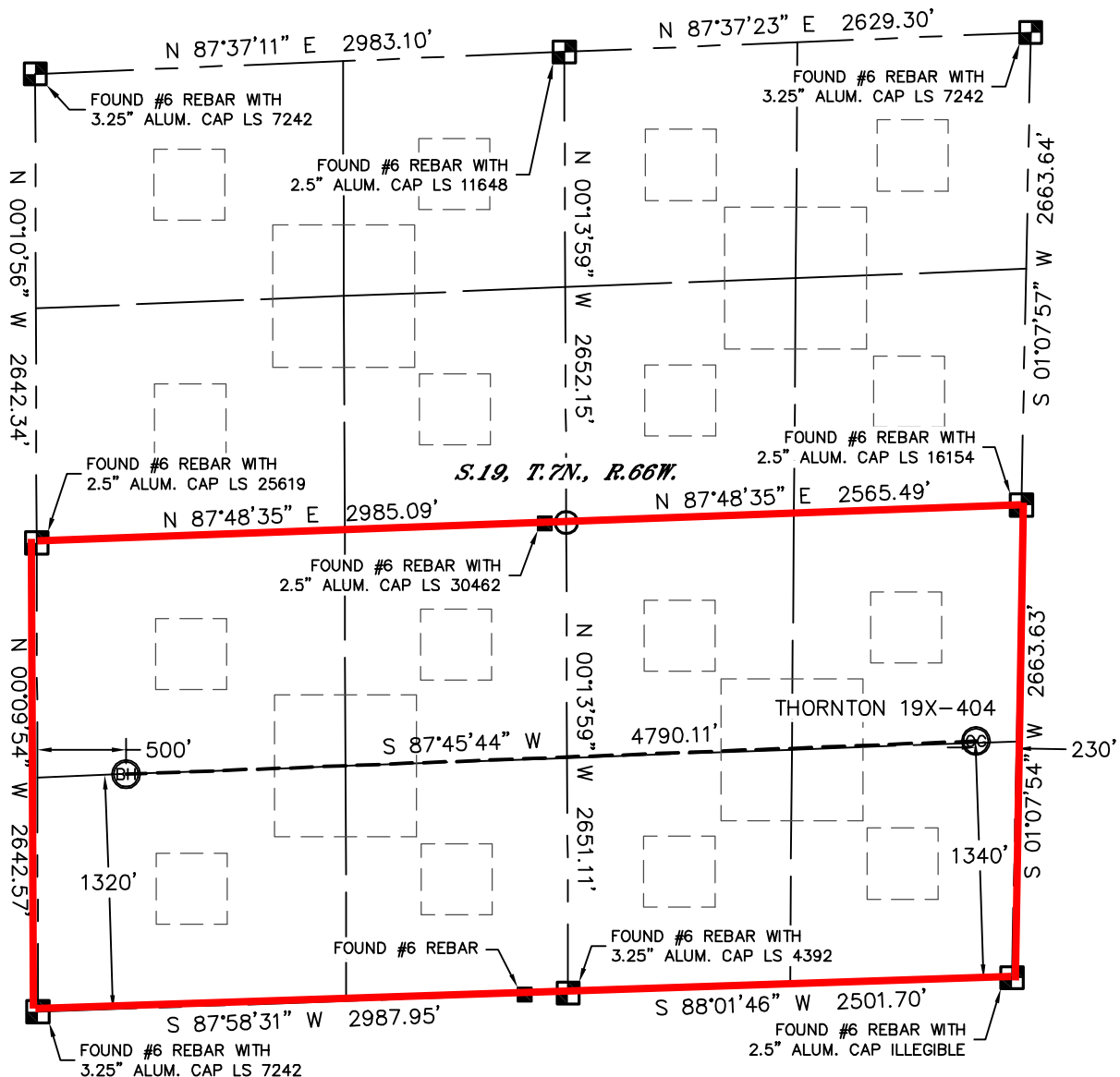


Lat40°, Inc. 1635 Foxtrail Drive, Suite 325 Loveland, CO 970-776-3321

# WELL LOCATION CERTIFICATE

THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY

SECTION: 19  
TOWNSHIP: 7N  
RANGE: 66W



In accordance with a request from Mac Neumann with PDC ENERGY Lat40°, Inc. has determined the surface location of the THORNTON 19X-404 to be 1340' from the SOUTH line and 230' from the EAST line and the bottom hole to be 1320' from the SOUTH line and 500' from the WEST line as measured at right angles from the section lines of Section 19, Township 7 North, Range 66 West of the Sixth Principal Meridian, County of Weld, State of Colorado.

I hereby state that this Well Location Certificate was prepared by me, or under my direct supervision, that the fieldwork was completed on 12/1/11, for and on behalf of PDC ENERGY That this is not a Land Survey Plat or an Improvement Survey Plat, and that it is not to be relied upon for establishment of fence, building, or other future improvement lines.

## NOTE:

- 1) Bearings shown are Grid Bearings of the Colorado State Plane Coordinate System, North Zone, North American Datum 1983/2007. The lineal dimensions as contained herein are based upon the "U.S. Survey Foot."
- 2) Ground elevations are based on an observed GPS elevation (NAVD 1988 DATUM).
- 3) IMPROVEMENTS: See LOCATION DRAWING for all visible improvements within 400' of disturbed area.
- 4) SURFACE USE: CROP LAND
- 5) INSTRUMENT OPERATOR: ADAM KELLY

## SURFACE LOCATION

LATITUDE: 40.55658°N  
LONGITUDE: 104.81291°W  
PDOP: 2.5  
ELEV: 4961'  
1/4, 1/4: NE1/4SE1/4  
NEAREST PROPERTY LINE: 230' EAST

## BOTTOM HOLE

LATITUDE: 40.55617°N  
LONGITUDE: 104.83014°W

## NOTE

According to Colorado law, you must commence any legal action based upon any defect in this W.L.C. within three years after you discover such defect. In no event, may any action based upon any defect in this survey be commenced more than ten years after the date of the certificate shown hereon. (13-80-105 C.R.S.)

## LEGEND

- = ALIQUOT MONUMENT AS DESCRIBED
- = CALCULATED POSITION

Brian T. Brinkman—On behalf of Lat40°, Inc.  
Colorado Licensed Professional  
Land Surveyor No. 38175  
PROJECT#: 2011333

