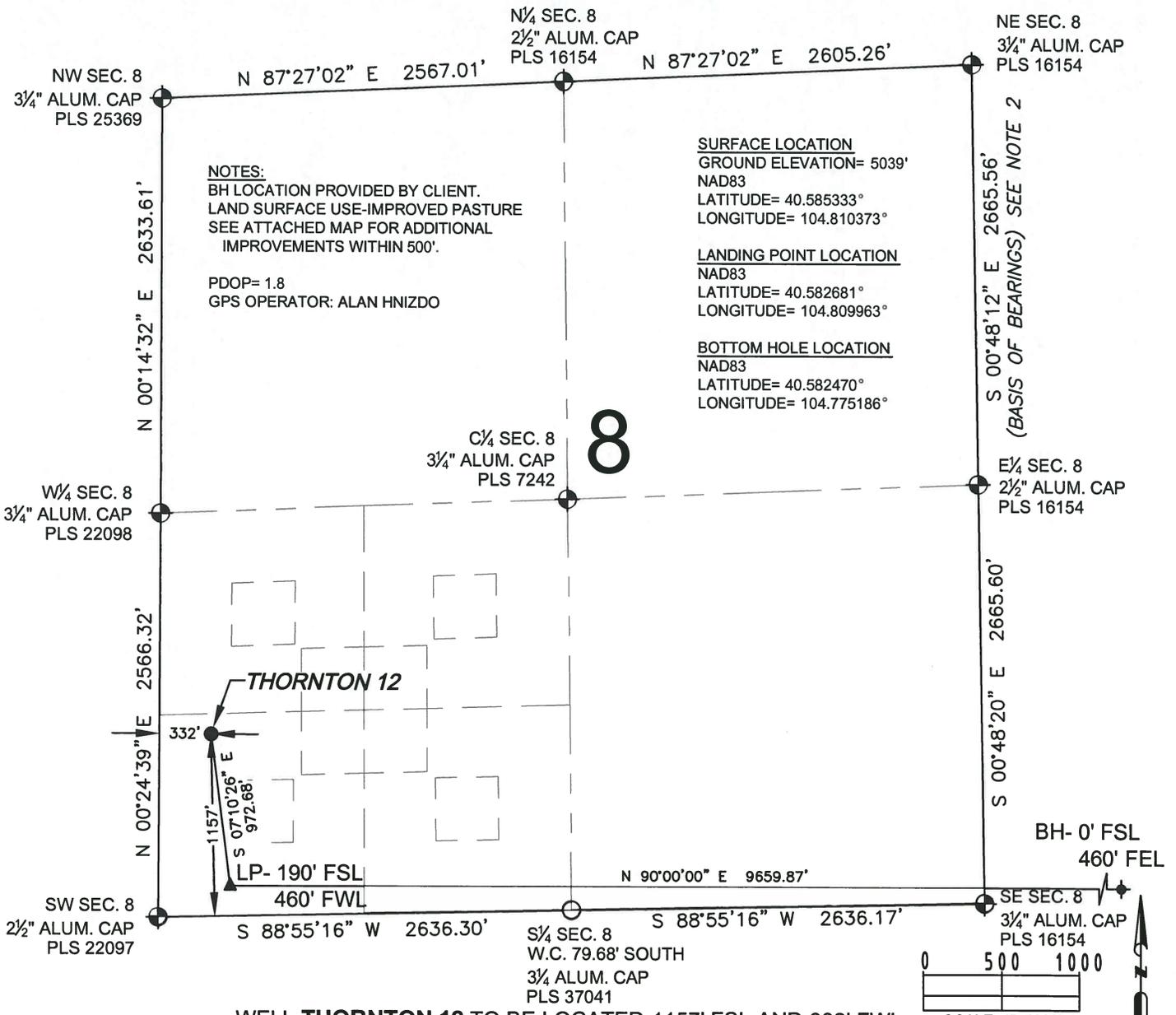


WELL LOCATION CERTIFICATE: THORNTON 12

SECTION 8, TOWNSHIP 7 NORTH, RANGE 66 WEST, 6TH P.M.



NOTES:
 BH LOCATION PROVIDED BY CLIENT.
 LAND SURFACE USE-IMPROVED PASTURE
 SEE ATTACHED MAP FOR ADDITIONAL
 IMPROVEMENTS WITHIN 500'.
 PDOP= 1.8
 GPS OPERATOR: ALAN HNIZDO

SURFACE LOCATION
 GROUND ELEVATION= 5039'
 NAD83
 LATITUDE= 40.585333°
 LONGITUDE= 104.810373°
LANDING POINT LOCATION
 NAD83
 LATITUDE= 40.582681°
 LONGITUDE= 104.809963°
BOTTOM HOLE LOCATION
 NAD83
 LATITUDE= 40.582470°
 LONGITUDE= 104.775186°

S 00°48'12" E 2665.56'
 (BASIS OF BEARINGS) SEE NOTE 2

WELL THORNTON 12 TO BE LOCATED 1157' FSL AND 332' FWL

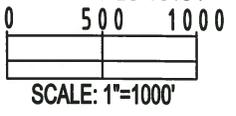
LEGEND

- ⊕ = EXISTING MONUMENT
- = PROPOSED WELL
- ◆ = EXISTING WELL
- = CALCULATED POINT
- ⬤ = BOTTOM HOLE
- ▲ = LANDING POINT
- LP = LANDING POINT
- BH = BOTTOM HOLE

- NOTES:**
- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
 - BEARINGS AND DISTANCE SHOWN HEREON ARE GRID AND BASED ON THE COLORADO STATE PLANE COORDINATE SYSTEM, NAD 83/2011 BETWEEN MONUMENTS AS LABELED HEREON AND ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
 - GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES.

I, MICHAEL L. POOL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO **EXTRACTION OIL & GAS**, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WERE DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL. THIS CERTIFICATE DOES NOT REPRESENT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AS DEFINED BY C.R.S. 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

MICHAEL L. POOL, PLS 38304
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF P.F.S., LLC



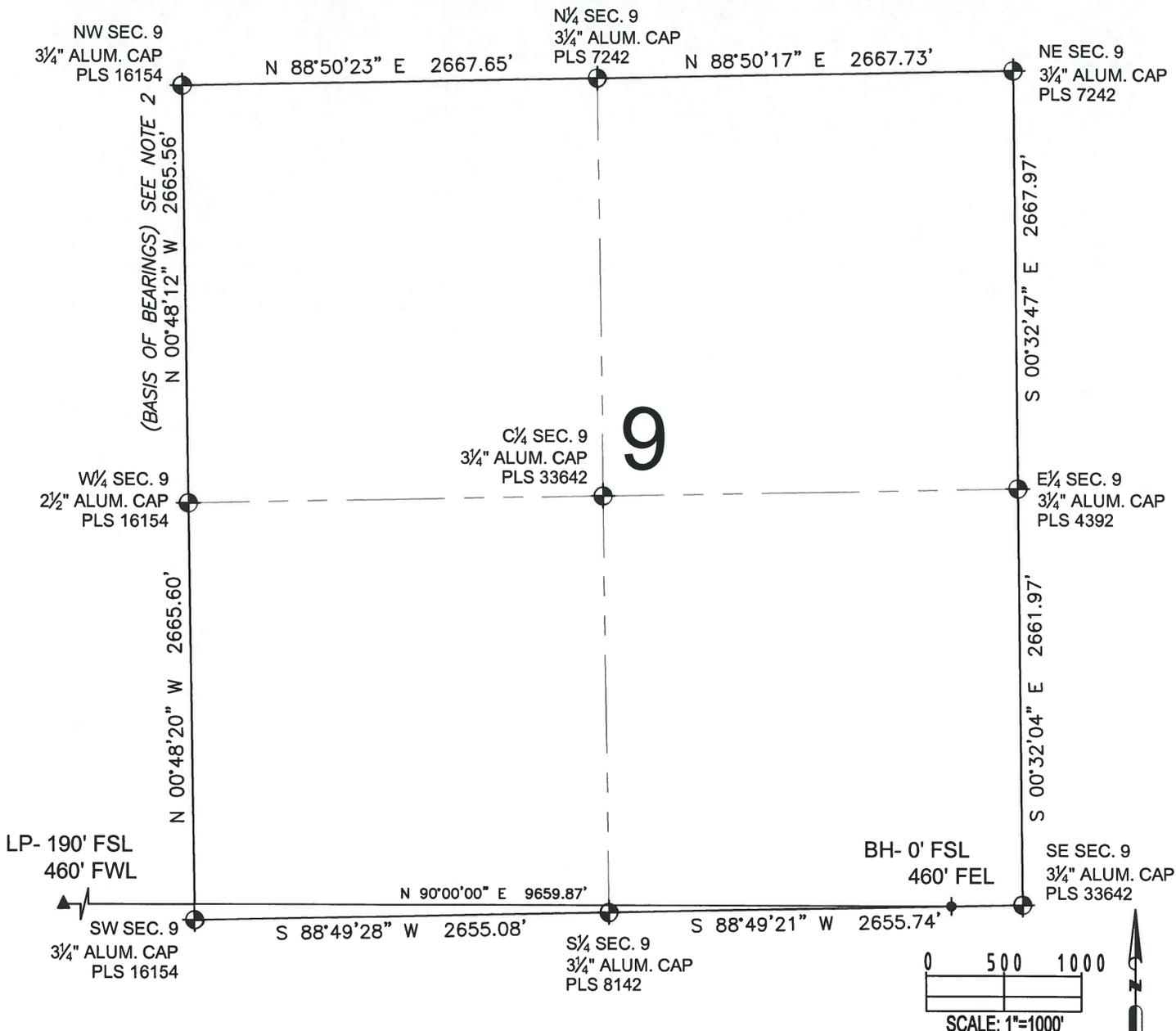
SHEET 1 OF 2

PREPARED BY: Petroleum Field Services, LLC 7636 Hilltop Circle Denver, CO 80221	FIELD DATE: 05-02-14 DRAWING DATE: 05-16-14 BY: JLD CHECKED: DRF	SURFACE LOCATION: SW 1/4 SW 1/4, SEC. 8, T7N, R66W, 6TH P.M. WELD COUNTY, COLORADO
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NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.

WELL LOCATION CERTIFICATE: THORNTON 12

SECTION 9, TOWNSHIP 7 NORTH, RANGE 66 WEST, 6TH P.M.



LEGEND

- = EXISTING MONUMENT
- = PROPOSED WELL
- ◆ = EXISTING WELL
- = CALCULATED POINT
- ◆ = BOTTOM HOLE
- ▲ = LANDING POINT
- LP = LANDING POINT
- BH = BOTTOM HOLE

- NOTES:**
1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
 2. BEARINGS AND DISTANCE SHOWN HEREON ARE GRID AND BASED ON THE COLORADO STATE PLANE COORDINATE SYSTEM, NAD 83/2011 BETWEEN MONUMENTS AS LABELED HEREON AND ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
 3. GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES.



MICHAEL L. POOL, PLS 38304
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF P.F.S., LLC

SHEET 2 OF 2

PREPARED BY: 	FIELD DATE: 05-02-14	SURFACE LOCATION: SW 1/4 SW 1/4, SEC. 8, T7N, R66W, 6TH P.M.
	DRAWING DATE: 05-16-14	BY: JLD CHECKED: DRF

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.