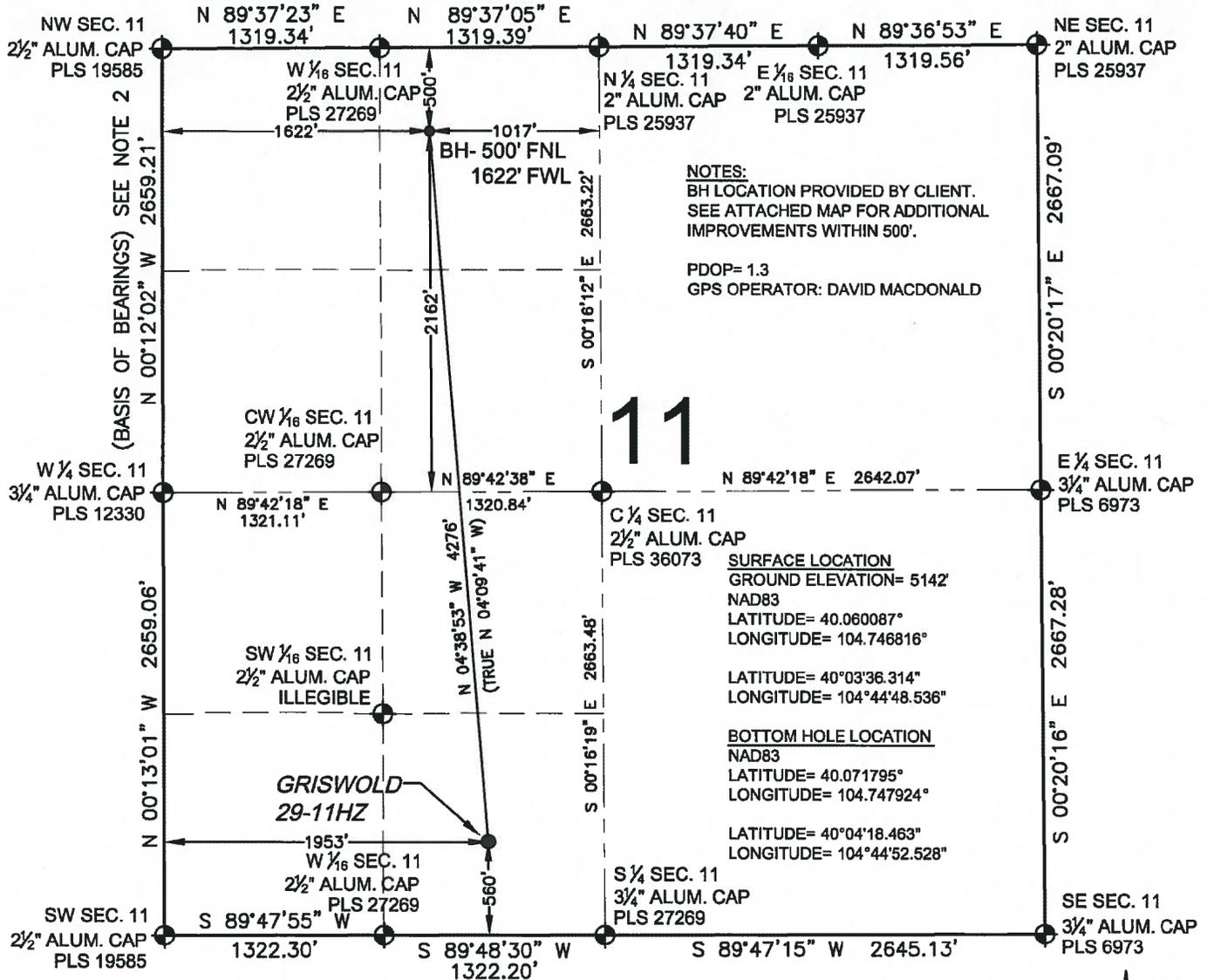


WELL LOCATION CERTIFICATE: GRISWOLD 29-11HZ

SECTION 11, TOWNSHIP 1 NORTH, RANGE 66 WEST, 6TH P.M.



NOTES:
 BH LOCATION PROVIDED BY CLIENT.
 SEE ATTACHED MAP FOR ADDITIONAL
 IMPROVEMENTS WITHIN 500'.

PDOP= 1.3
 GPS OPERATOR: DAVID MACDONALD

SURFACE LOCATION
 GROUND ELEVATION= 5142'
 NAD83
 LATITUDE= 40.060087°
 LONGITUDE= 104.746816°

BOTTOM HOLE LOCATION
 NAD83
 LATITUDE= 40.071795°
 LONGITUDE= 104.747924°

LATITUDE= 40°04'18.463"
 LONGITUDE= 104°44'52.528"

WELL GRISWOLD 29-11HZ TO BE LOCATED 560' FSL AND 1953' FWL

LEGEND

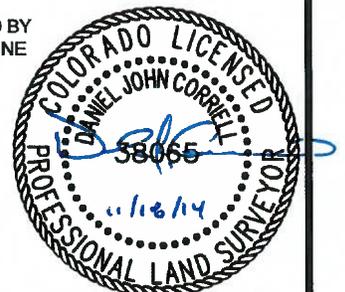
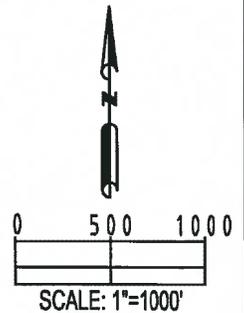
- ⊕ = EXISTING MONUMENT
- ⊙ = PROPOSED WELL
- BH = BOTTOM HOLE
- ◆ = EXISTING WELL

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.

I, DANIEL JOHN CORRIELL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO **KERR-MCGEE OIL & GAS ONSHORE LP**, 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.

DANIEL JOHN CORRIELL, PLS 38065
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF P.F.S., LLC

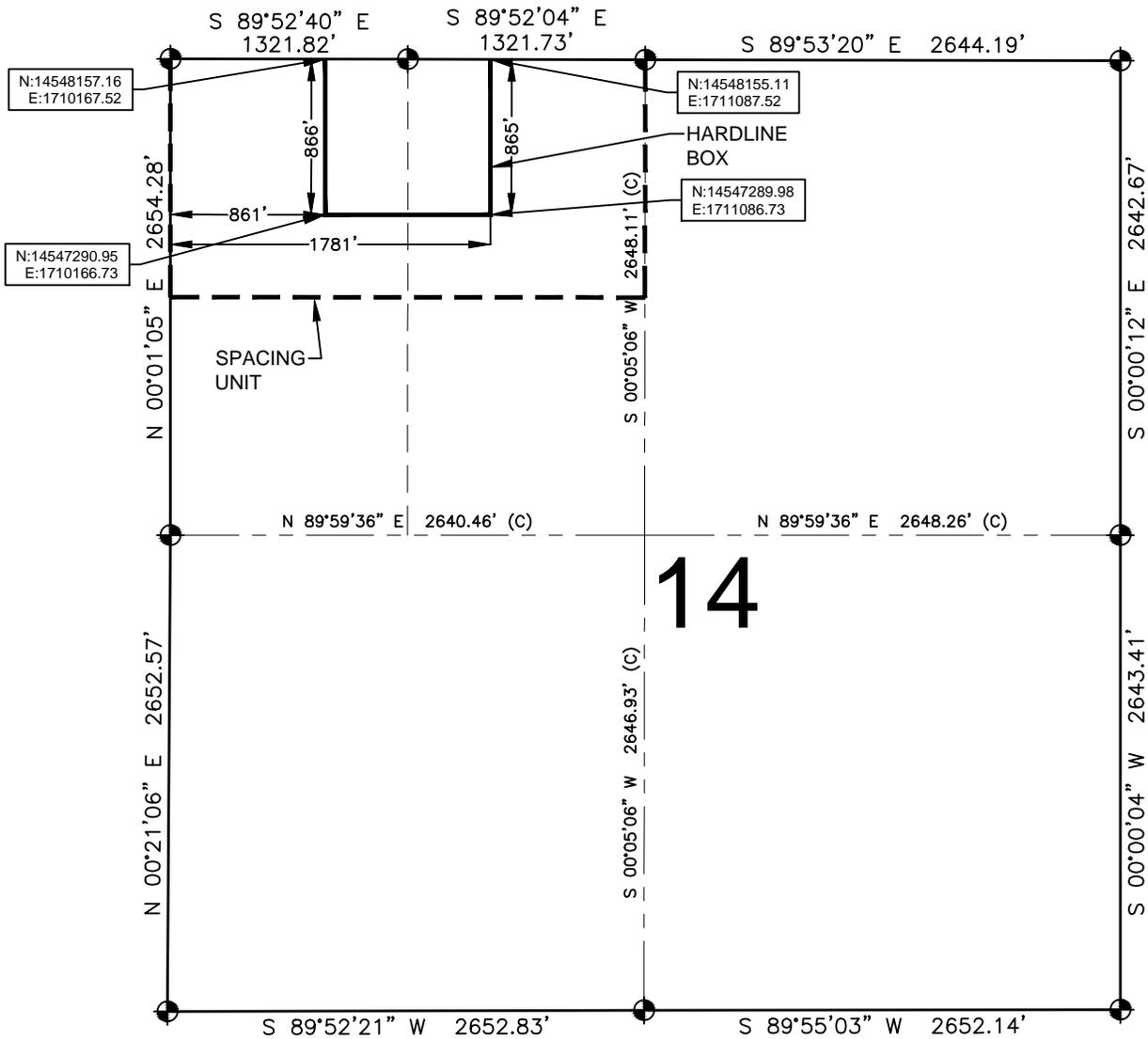


PREPARED BY: PFS Petroleum Field Services, LLC 7536 Hilltop Circle Denver, CO 80221	FIELD DATE: 09-30-13	SURFACE LOCATION: SE 1/4, SW 1/4, SEC. 11, T1N, R66W, 6TH P.M.
BY: SMF	CHECKED: TJN	WELD COUNTY, COLORADO
DRAWING DATE: 11-16-14		

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.

GRISWOLD 29-11HZ

SECTION 14, TOWNSHIP 1 NORTH, RANGE 66 WEST, 6TH P.M.



14

LEGEND

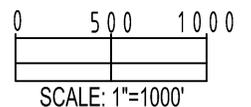
- ⊙ = EXISTING MONUMENT
- ⊙ = PROPOSED HEEL
- ⊙ = BOTTOM HOLE
- BH = BOTTOM HOLE

QRT/QRT SECTIONS WITHIN PATH OF THE HARDLINE

NWNW, SEC. 14
 NENW, SEC. 14

NOTES:

1. THIS DOCUMENT IS NOT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT. THIS DOCUMENT DOES NOT REFLECT A FIELD SURVEY. SECTION BREAKDOWN, MONUMENTATION AND HORIZONTAL POSITIONS SHOWN ARE BASED ON THE HEEL AND BOTTOM HOLE LOCATION PROVIDED BY ANADARKO PETROLEUM CORPORATION



PREPARED BY:



Petroleum Field Services, LLC
 7535 Hilltop Circle
 Denver, CO 80221

SHEET 2 OF 2

DRAWING DATE: 11-16-14		HEEL LOCATION: SE 1/4, SW 1/4, SEC. 11, T1N, R66W, 6TH P.M. WELD COUNTY, COLORADO	
BY: SMF	CHECKED TJN		