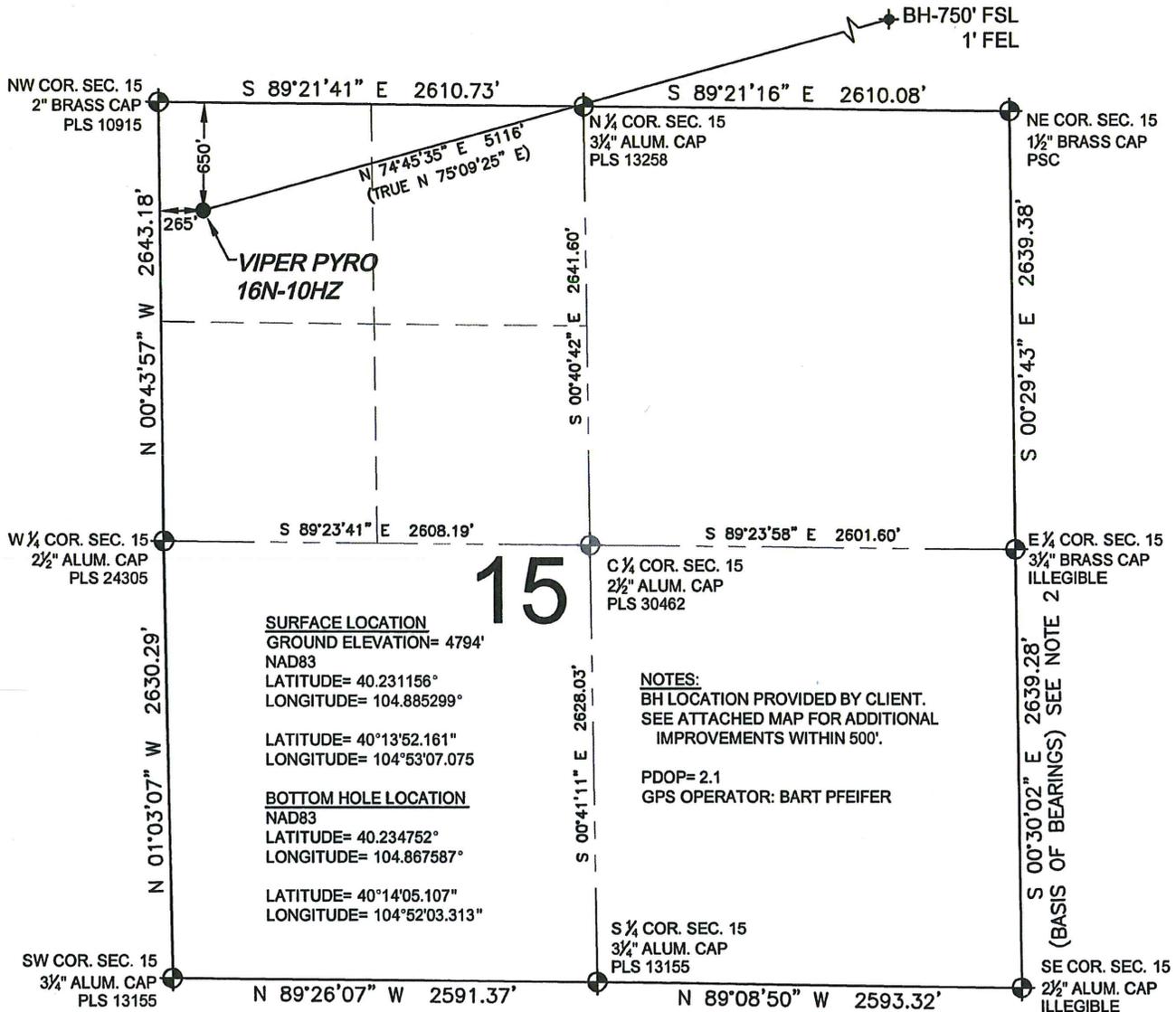


WELL LOCATION CERTIFICATE: VIPER PYRO 16N-10HZ

SECTION 15, TOWNSHIP 3 NORTH, RANGE 67 WEST, 6TH P.M.



15

SURFACE LOCATION
 GROUND ELEVATION= 4794'
 NAD83
 LATITUDE= 40.231156°
 LONGITUDE= 104.885299°

 LATITUDE= 40°13'52.161"
 LONGITUDE= 104°53'07.075

BOTTOM HOLE LOCATION
 NAD83
 LATITUDE= 40.234752°
 LONGITUDE= 104.867587°

 LATITUDE= 40°14'05.107"
 LONGITUDE= 104°52'03.313"

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

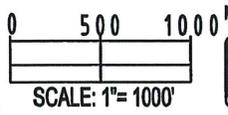
 PDOP= 2.1
 GPS OPERATOR: BART PFEIFER

(BASIS OF BEARINGS) SEE NOTE 2

WELL VIPER PYRO 16N-10HZ TO BE LOCATED 650' FNL AND 265' FWL

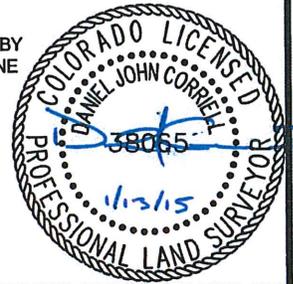
LEGEND

- = EXISTING MONUMENT
- ◆ = BOTTOM HOLE
- = PROPOSED WELL
- ◆ = EXISTING WELL
- BH = BOTTOM HOLE
- = CALCULATED POSITION



- 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.
 4. ALL LINES SHOWN THAT ARE WITHOUT DIMENSION SHOULD BE CONSIDERED SCALED AND ONLY REPRESENT A GRAPHICAL DEPICTION OF THE APPROXIMATE LOCATION OF SAID LINE.

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.



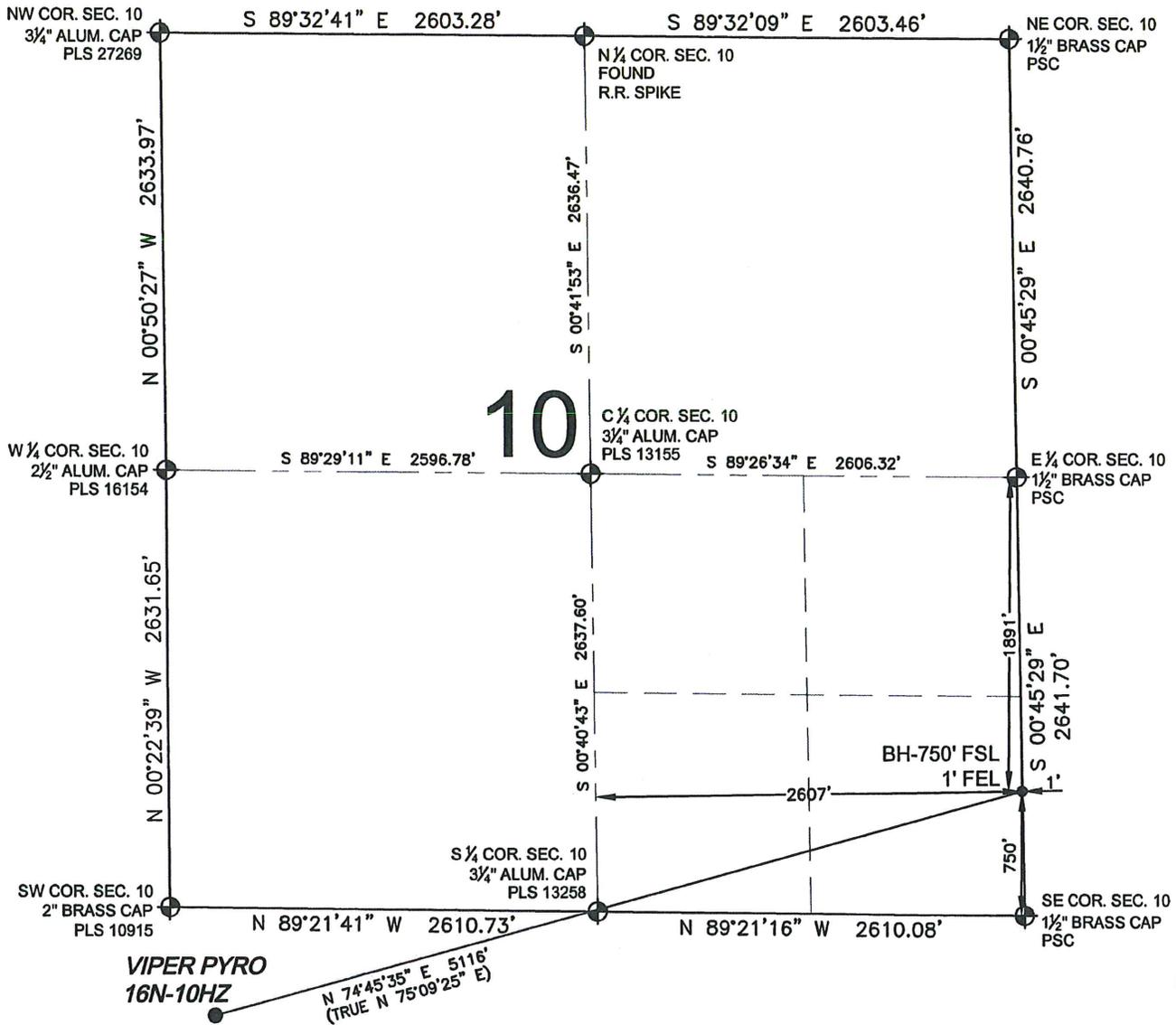
DANIEL JOHN CORRIELL, PLS 38065
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF P.F.S., LLC

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.

PREPARED BY: PFS Petroleum Field Services, LLC 7536 Hilltop Circle Denver, CO 80221	FIELD DATE: 09-03-14 DRAWING DATE: 01-11-15 BY: SMF CHECKED: ATK	SURFACE LOCATION: NW 1/4 NW 1/4, SEC. 15, T3N, R67W, 6TH P.M. WELD COUNTY, COLORADO
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WELL LOCATION CERTIFICATE: VIPER PYRO 16N-10HZ

SECTION 10, TOWNSHIP 3 NORTH, RANGE 67 WEST, 6TH P.M.



LEGEND

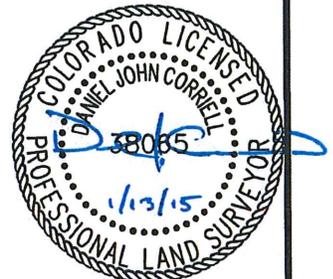
- ⊕ = EXISTING MONUMENT
- = PROPOSED WELL
- BH = BOTTOM HOLE
- ⊕ = BOTTOM HOLE
- ◆ = EXISTING WELL
- = CALCULATED POSITION

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.
4. ALL LINES SHOWN THAT ARE WITHOUT DIMENSION SHOULD BE CONSIDERED SCALED AND ONLY REPRESENT A GRAPHICAL DEPICTION OF THE APPROXIMATE LOCATION OF SAID LINE.

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

SHEET 2 OF 2



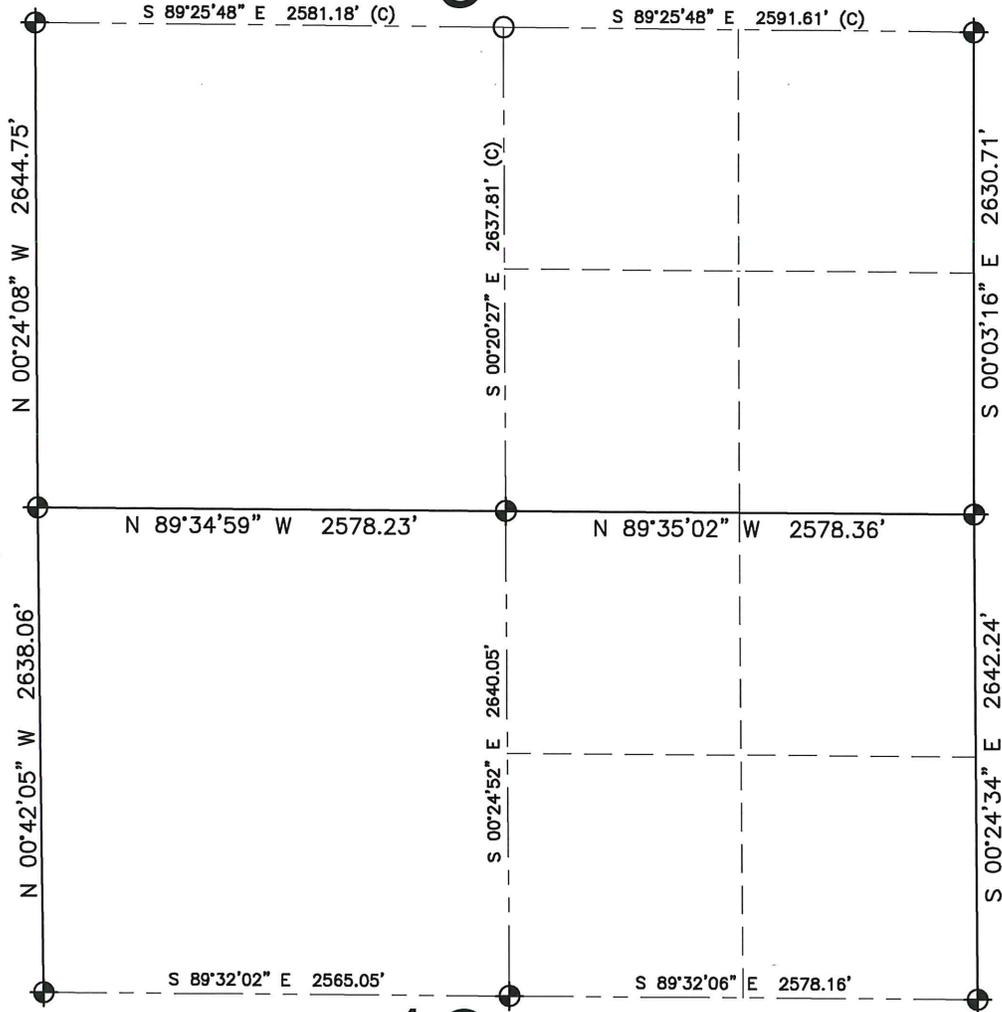
PREPARED BY: PFS Petroleum Field Services, LLC 7536 Hilltop Circle Denver, CO 80221	FIELD DATE: 09-03-14 DRAWING DATE: 01-11-15 BY: SMF CHECKED: ATK	SURFACE LOCATION: NW 1/4 NW 1/4, SEC. 15, T3N, R67W, 6TH P.M. WELD COUNTY, COLORADO
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NOTICE: ACCORDING 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.

VIPER PYRO 16N-10HZ

SECTION 9, TOWNSHIP 3 NORTH, RANGE 67 WEST, 6TH P.M.

9



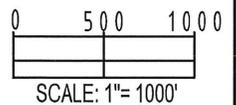
16

LEGEND

- ⊙ = EXISTING MONUMENT ◆ = BOTTOM HOLE
- = PROPOSED HEEL BH = BOTTOM HOLE
- = CALCULATED POSITION

NOTES:

- 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:

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

DRAWING DATE: 01-11-15	CHECKED: ATK	HEEL LOCATION: SW 1/4 SW 1/4, SEC. 10, T3N, R67W, 6TH P.M. WELD COUNTY, COLORADO
BY: SMF		