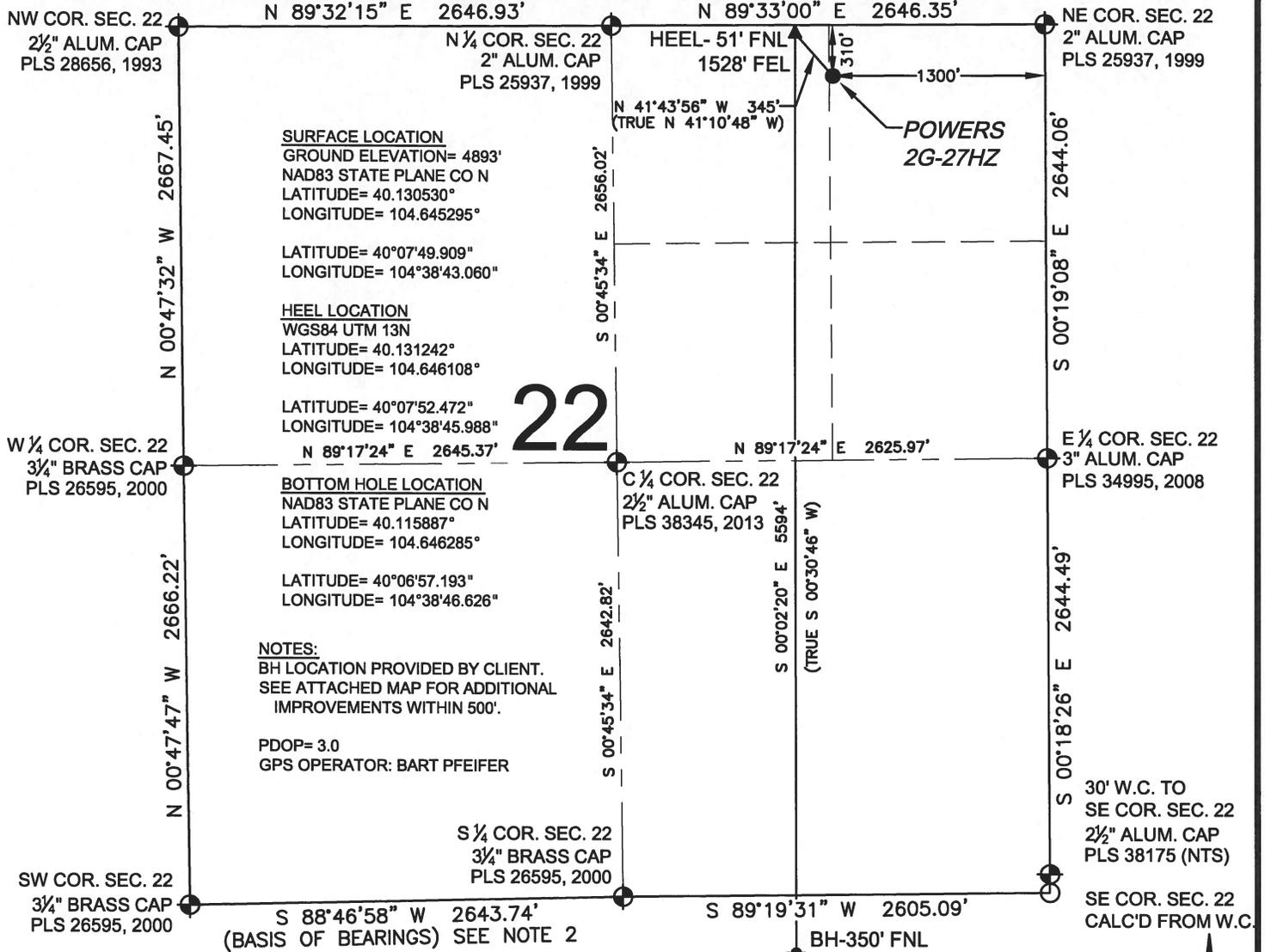


WELL LOCATION CERTIFICATE: POWERS 2G-27HZ

SECTION 22, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.



SURFACE LOCATION
GROUND ELEVATION= 4893'
NAD83 STATE PLANE CO N
LATITUDE= 40.130530°
LONGITUDE= 104.645295°

LATITUDE= 40°07'49.909"
LONGITUDE= 104°38'43.060"

HEEL LOCATION
WGS84 UTM 13N
LATITUDE= 40.131242°
LONGITUDE= 104.646108°

LATITUDE= 40°07'52.472"
LONGITUDE= 104°38'45.988"

BOTTOM HOLE LOCATION
NAD83 STATE PLANE CO N
LATITUDE= 40.115887°
LONGITUDE= 104.646285°

LATITUDE= 40°06'57.193"
LONGITUDE= 104°38'46.626"

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

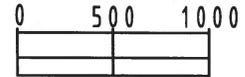
PDOP= 3.0
GPS OPERATOR: BART PFEIFER

22

WELL POWERS 2G-27HZ TO BE LOCATED 310' FNL AND 1300' FEL

LEGEND

- ⊕ = EXISTING MONUMENT
- ⬤ = PROPOSED WELL
- BH = BOTTOM HOLE
- ⬥ = BOTTOM HOLE
- ▲ = HEEL LOCATION
- = CALCULATED POSITION

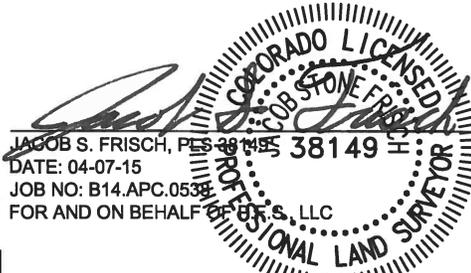


SCALE: 1"=1000'

NOTES:

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- BEARINGS ARE BASED ON THE ASSUMPTION THAT THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 22, BEARS S88°46'58"W BETWEEN THE MONUMENTS DESCRIBED HEREON.
- GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. TO GET GROUND DISTANCES MULTIPLY THE SHOWN DISTANCE BY 1.000272228.
- ALL LINES SHOWN THAT ARE WITHOUT DIMENSION SHOULD BE CONSIDERED SCALED AND ONLY REPRESENT A GRAPHICAL DEPICTION OF THE APPROXIMATE LOCATION OF SAID LINE.
- FIELD VERIFICATION OF MONUMENTS COMPLETED ON MARCH 5, 2015. WELL STAKING COMPLETED ON OCTOBER 14, 2014.

I, JACOB S. FRISCH, 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.



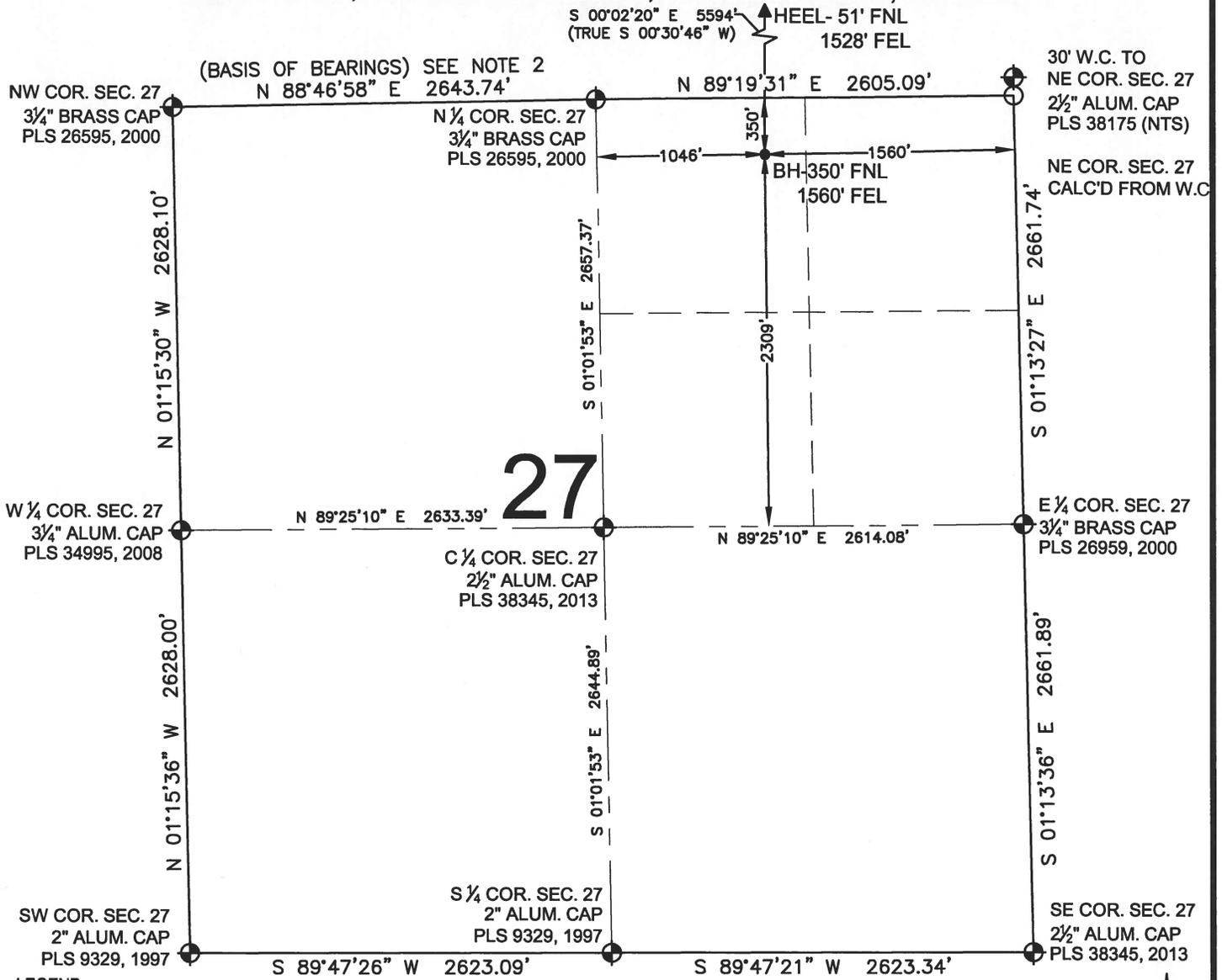
JACOB S. FRISCH, PLS 38149
DATE: 04-07-15
JOB NO: B14.APC.0538
FOR AND ON BEHALF OF PFS, LLC

PREPARED BY: PFS Petroleum Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 10-14-14 DRAWING DATE: 04-02-15 BY: SMF CHECKED: TJN	SURFACE LOCATION: NE 1/4 NE 1/4, SEC. 22, T2N, R65W, 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.

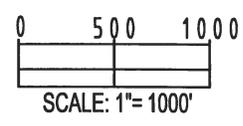
WELL LOCATION CERTIFICATE: POWERS 2G-27HZ

SECTION 27, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.



LEGEND

- ⊕ = EXISTING MONUMENT
- ⊙ = PROPOSED WELL
- BH = BOTTOM HOLE
- ⬆ = BOTTOM HOLE
- ▲ = HEEL LOCATION
- = CALCULATED POSITION



NOTES:

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- BEARINGS ARE BASED ON THE ASSUMPTION THAT THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 22, BEARS S88°46'58"W BETWEEN THE MONUMENTS DESCRIBED HEREON.
- GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. TO GET GROUND DISTANCES MULTIPLY THE SHOWN DISTANCE BY 1.000272228.
- ALL LINES SHOWN THAT ARE WITHOUT DIMENSION SHOULD BE CONSIDERED SCALED AND ONLY REPRESENT A GRAPHICAL DEPICTION OF THE APPROXIMATE LOCATION OF SAID LINE.
- FIELD VERIFICATION OF MONUMENTS COMPLETED ON MARCH 5, 2015. WELL STAKING COMPLETED ON OCTOBER 14, 2014.

SHEET 2 OF 2

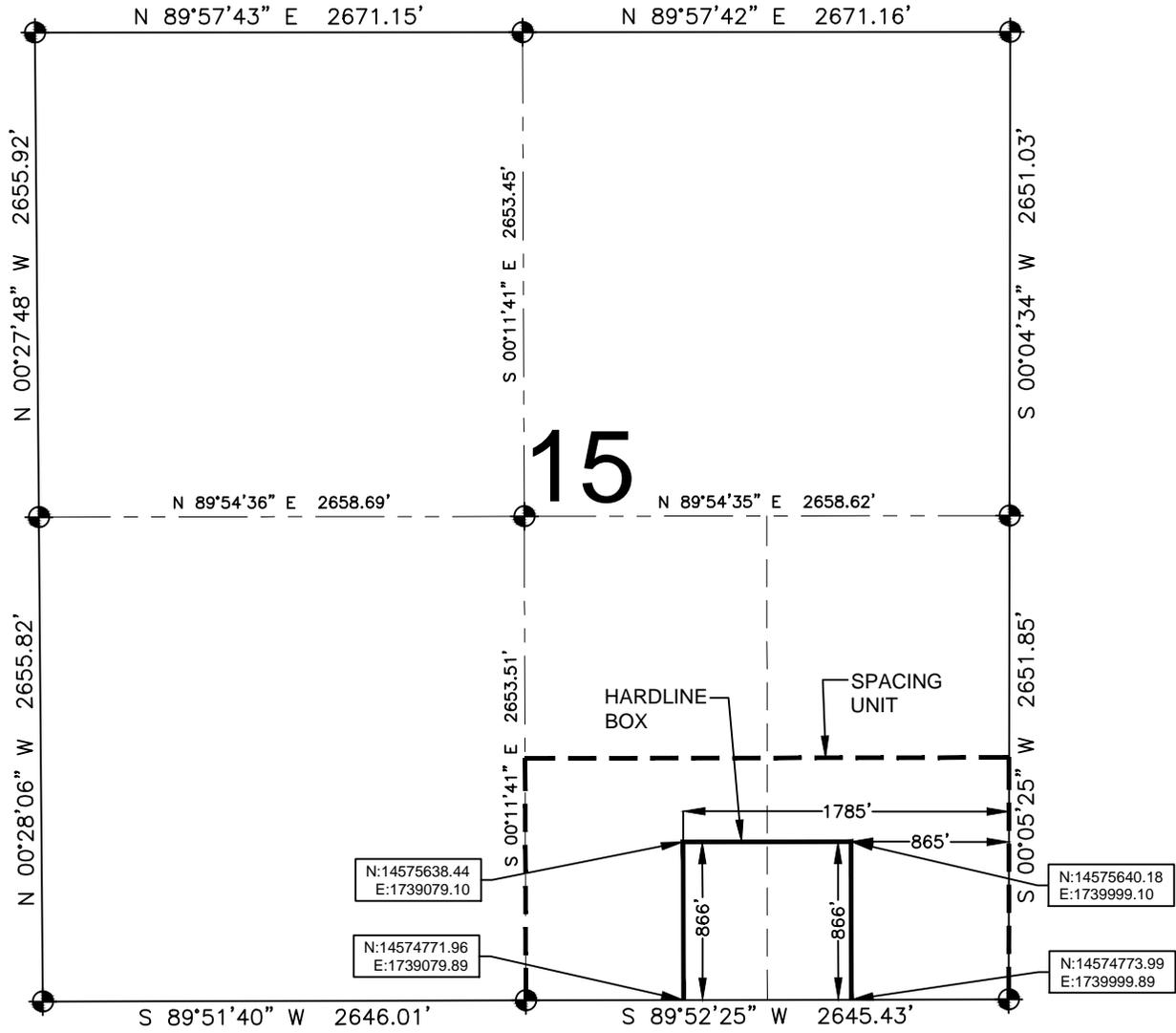
Jacob S. Frisch
JACOB S. FRISCH, PLS 38149
 DATE: 04-07-15
 JOB NO: B14.APC.0538
 FOR AND ON BEHALF OF PFS, S, LLC
PROFESSIONAL LAND SURVEYOR

PREPARED BY: PFS Petroleum Field Services, LLC 7535 Hilltop Circle Denver, CO 80221	FIELD DATE: 10-14-14 DRAWING DATE: 04-02-15 BY: SMF CHECKED: TJN	SURFACE LOCATION: NE 1/4 NE 1/4, SEC. 22, T2N, R65W, 6TH P.M. WELD COUNTY, COLORADO
--	---	--

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.

POWERS 2G-27HZ

SECTION 15, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.



LEGEND

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

HEEL LOCATION

WGS84 UTM 13N
 LATITUDE= 40.131242°
 LONGITUDE= 104.646108°

LATITUDE= 40°07'52.472"
 LONGITUDE= 104°38'45.988"

BOTTOM HOLE LOCATION

NAD83 STATE PLANE CO N
 LATITUDE= 40.115887°
 LONGITUDE= 104.646285°

LATITUDE= 40°06'57.193"
 LONGITUDE= 104°38'46.626"

QRT/QRT SECTIONS WITHIN PATH OF THE HARDLINE

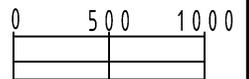
SWSE, SEC. 15
 SESE, SEC. 15

AVAILABLE FOOTAGE

7026'

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.
- COORDINATES ARE PROVIDED IN WGS84, UTM ZONE 13N.



SCALE: 1"= 1000'

PREPARED BY:



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

SHEET 1 OF 3

DRAWING DATE: 04-03-15		HEEL LOCATION: NW 1/4 NE 1/4, SEC. 22, T2N, R65W, 6TH P.M. WELD COUNTY, COLORADO	
BY: SMF	CHECKED: TJN		