

WELL LOCATION CERTIFICATE: HFE 22SE

SECTION 22, TOWNSHIP 4 NORTH, RANGE 68 WEST, 6TH P.M.

NW SEC. 22
2½" ALUM. CAP
PLS 23500

N 88°55'23" E 2662.48'

N 88°59'58" E 2662.56'

NE SEC. 22
2½" ALUM. CAP
PLS 12374

N ¼ SEC. 22
2½" ALUM. CAP
PLS 12374

N 00°39'28" W 2656.61'

SURFACE LOCATION
GROUND ELEVATION= 4944'
NAD83
LATITUDE= 40.294836°
LONGITUDE= 104.987699°

BOTTOM HOLE LOCATION
NAD83
LATITUDE= 40.295441°
LONGITUDE= 104.984453°

S 00°28'51" E 2629.01'

W ¼ SEC. 22
3" BRASS CAP
PLS 20142

22

E ¼ SEC. 22
2½" ALUM. CAP
PLS 24305

NOTES:
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE- RECREATIONAL
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

PDOP= 1.39
GPS OPERATOR: BRIAN RITZ

HFE 22SE
BH- 1320' FSL
1320' FEL

N 75°58'33" E
932'

2226'

HFE 22SE

1120'

S 00°29'13" E 2629.04'
(BASIS OF BEARING) SEE NOTE 3

SW SEC. 22
2½" ALUM. CAP
PLS 24307

S 88°21'50" W 2654.50'

S 88°22'04" W 2654.76'

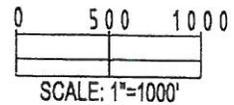
SE SEC. 22
2½" ALUM. CAP
PLS 24305

S ¼ SEC. 22
3¼" ALUM. CAP
PLS 4846

WELL HFE 22SE TO BE LOCATED 1120' FSL AND 2226' FEL

LEGEND

⊕ = EXISTING MONUMENT ⊕ = BOTTOM HOLE BH = BOTTOM HOLE
● = PROPOSED WELL ⊕ = EXISTING WELL



NOTES:

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- HORIZONTAL POSITIONS AND ORTHOMETRIC ELEVATIONS SHOWN AT THE WELL HEAD, ARE BASED ON GPS-RTK POSITIONS DERIVED FROM MINIMUM 2-HOUR STATIC OBSERVATIONS CORRECTED BY THE NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE, O.P.U.S. DATUM: HORIZONTAL = NAD83/2007, VERTICAL = NAVD88
- THE BASIS OF BEARINGS ARE STATE PLANE COORDINATE SYSTEM GRID BEARINGS SHOWN HEREON BETWEEN THE DESCRIBED THE MONUMENTS SHOWN HEREON.
- GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES.

I, L. KELLEY STEVENSON, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO SUNDANCE ENERGY, 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.

L. KELLEY STEVENSON, PLS 38231
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC



PREPARED BY Petroleum Field Services, LLC 1501 W. 13th Ave. Denver, CO 80204	FIELD DATE: 07-13-12	SURFACE LOCATION: SW 1/4 SE 1/4,
	DRAWING DATE: 07-24-12	SEC. 22, T4N, R68W
BY: MCH	CHECKED: TRW	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.