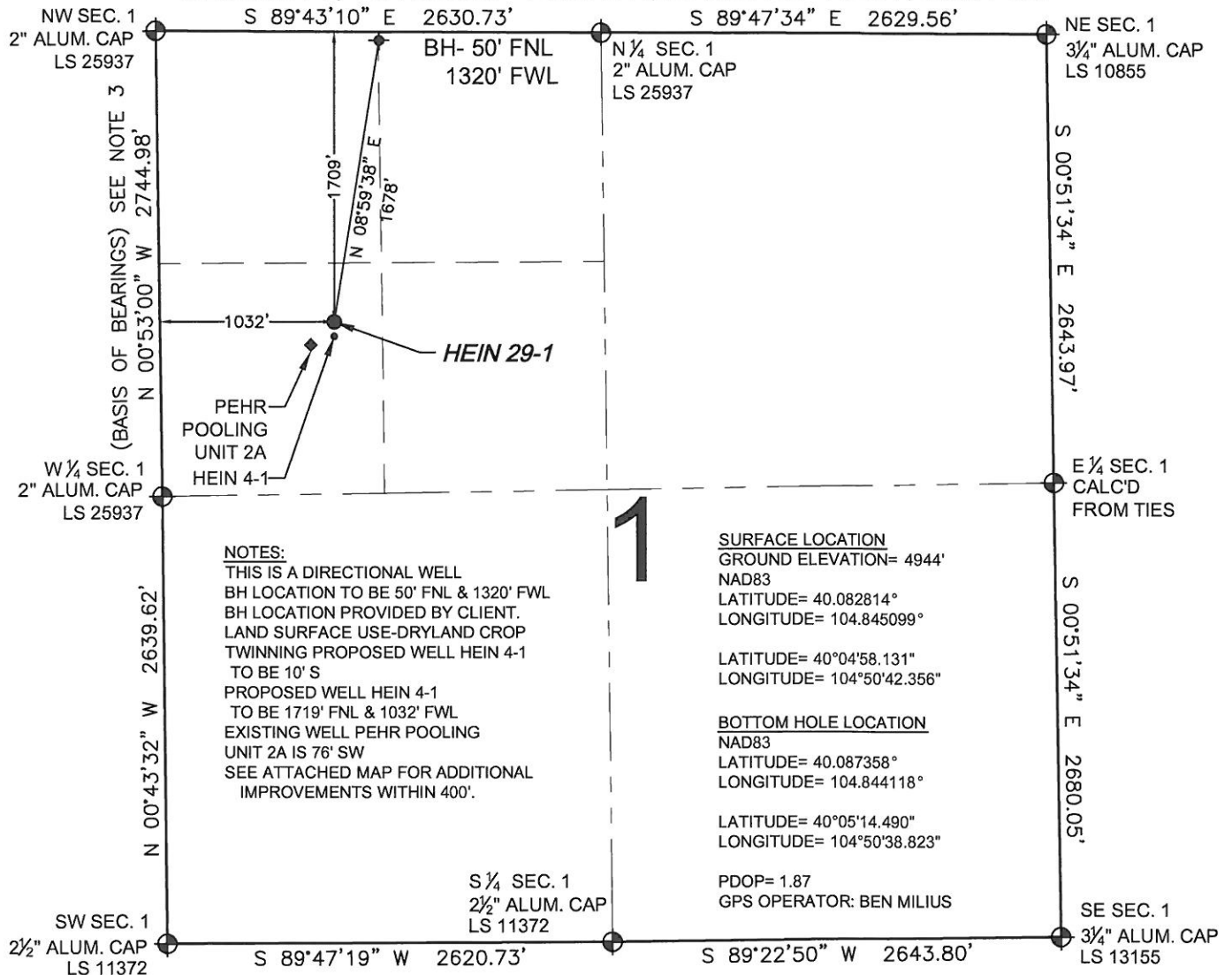


WELL LOCATION CERTIFICATE: HEIN 29-1

SECTION 1, TOWNSHIP 1 NORTH, RANGE 67 WEST, 6TH P.M.



NOTES:
THIS IS A DIRECTIONAL WELL
BH LOCATION TO BE 50' FNL & 1320' FWL
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-DRYLAND CROP
TWINNING PROPOSED WELL HEIN 4-1
TO BE 10' S
PROPOSED WELL HEIN 4-1
TO BE 1719' FNL & 1032' FWL
EXISTING WELL PEHR POOLING
UNIT 2A IS 76' SW
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

SURFACE LOCATION
GROUND ELEVATION= 4944'
NAD83
LATITUDE= 40.082814°
LONGITUDE= 104.845099°

LATITUDE= 40°04'58.131"
LONGITUDE= 104°50'42.356"

BOTTOM HOLE LOCATION
NAD83
LATITUDE= 40.087358°
LONGITUDE= 104.844118°

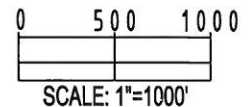
LATITUDE= 40°05'14.490"
LONGITUDE= 104°50'38.823"

PDOP= 1.87
GPS OPERATOR: BEN MILIUS

WELL HEIN 29-1 TO BE LOCATED 1709' FNL AND 1032' FWL, SECTION 1, T1N, R67W OF THE 6th P.M.

LEGEND

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



NOTES:

- THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- ELEVATIONS SHOWN AT THE WELL HEAD, AS WELL AS HORIZONTAL CONTROL, ARE BASED ON GPS-RTK VALUES DERIVED FROM DOING 2-HOUR STATIC GPS SESSIONS AND REDUCTIONS USING O.P.U.S. SOLUTIONS.
VERTICAL = NAVD88; HORIZONTAL = NAD83/92
- THE BEARINGS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS BETWEEN THE MONUMENTS SHOWN HEREON AS FOUND ON THE FIELD DATE BELOW.
- DISTANCES SHOWN ARE AT GROUND LEVEL, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED AT A PERPENDICULAR TO SECTION LINES.

I, JERRY F. HARCEK JR., 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 TI WELL HEIN 29-1. 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.

JERRY F. HARCEK JR., PLS 34997
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC



PREPARED BY:	FIELD DATE:	WELL NAME:
PFS	11-23-10	HEIN 29-1
Petroleum Field Services, LLC	DRAWING DATE:	SURFACE LOCATION:
1801 W. 13th Ave.	11-26-10	WELD COUNTY, COLORADO
Denver, CO 80204	BY:	SW 1/4 NW 1/4, SEC. 1, T1N, R67W
	TJN	

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.