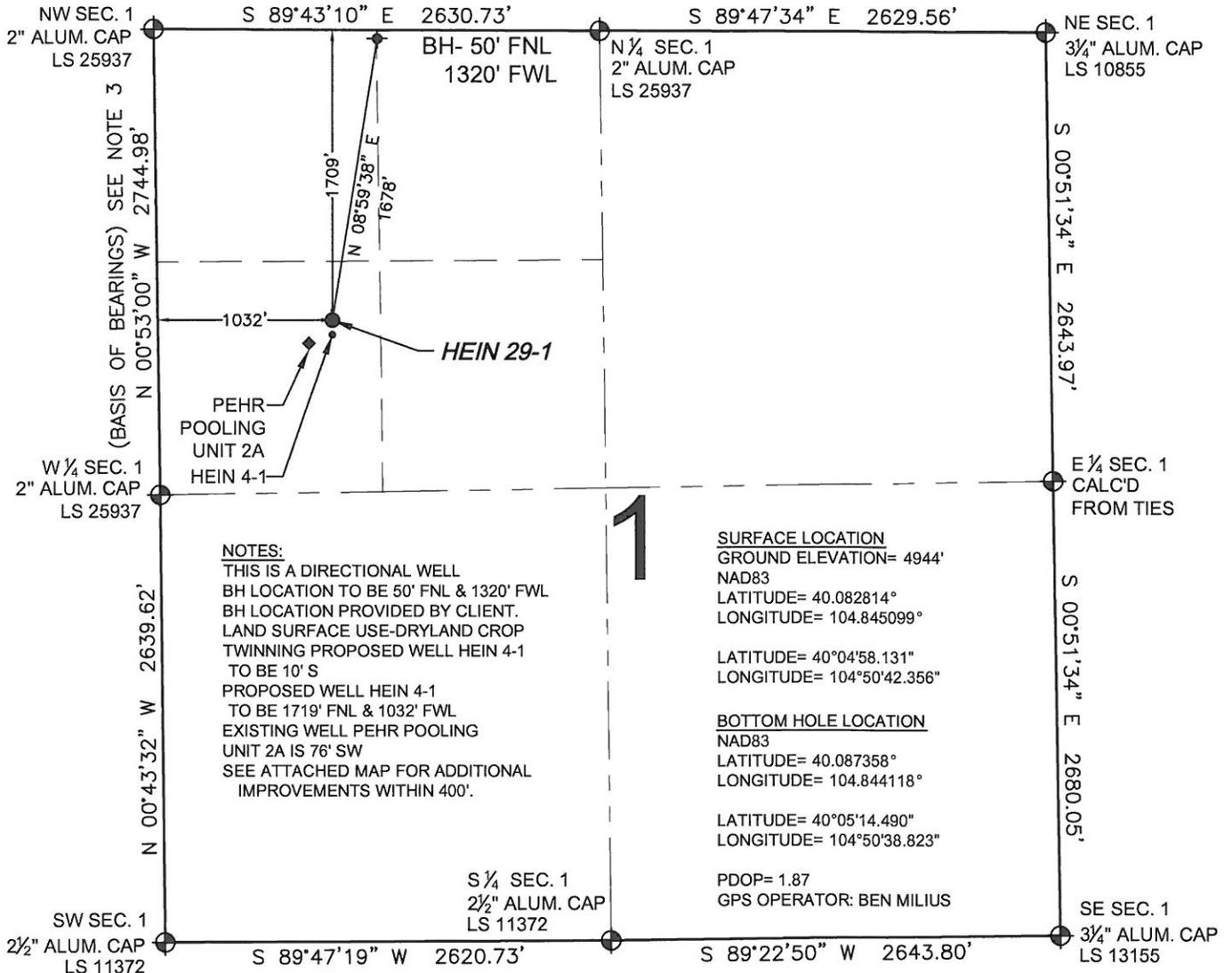


# WELL LOCATION CERTIFICATE: HEIN 29-1

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"

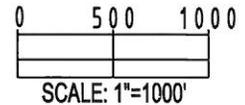
**BOTTOM HOLE LOCATION**  
 NAD83  
 LATITUDE= 40.087358°  
 LONGITUDE= 104.844118°  
  
 LATITUDE= 40°05'14.490"  
 LONGITUDE= 104°50'38.823"

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.

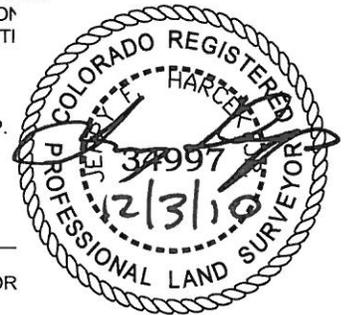
**LEGEND**

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



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



- 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.

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