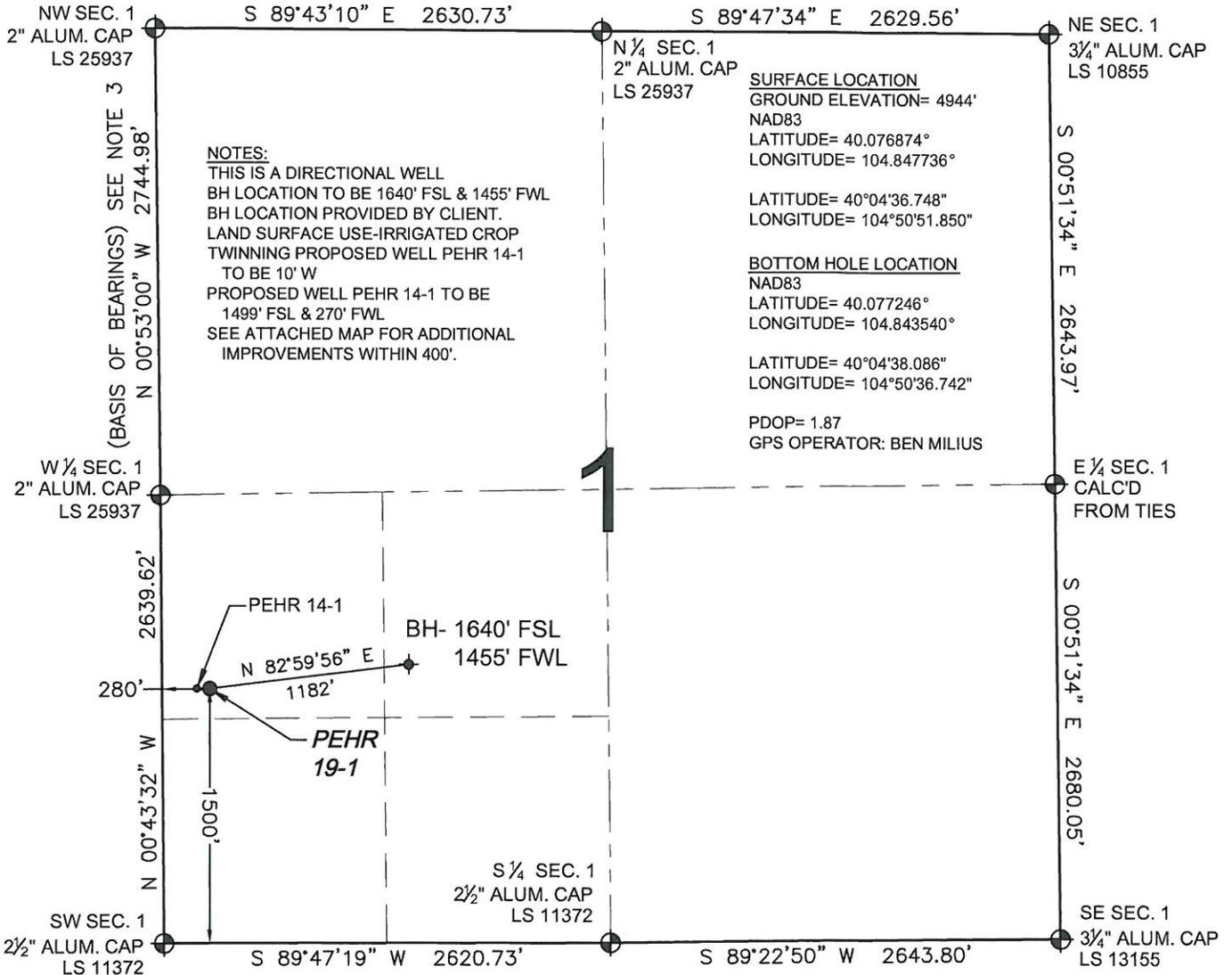


# WELL LOCATION CERTIFICATE: PEHR 19-1

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

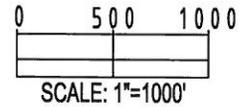


**NOTES:**  
 THIS IS A DIRECTIONAL WELL.  
 BH LOCATION TO BE 1640' FSL & 1455' FWL  
 BH LOCATION PROVIDED BY CLIENT.  
 LAND SURFACE USE-IRRIGATED CROP  
 TWINNING PROPOSED WELL PEHR 14-1  
 TO BE 10' W  
 PROPOSED WELL PEHR 14-1 TO BE  
 1499' FSL & 270' FWL  
 SEE ATTACHED MAP FOR ADDITIONAL  
 IMPROVEMENTS WITHIN 400'.

WELL **PEHR 19-1** TO BE LOCATED 1500' FSL AND 280' FWL, SECTION 1, T1N, R67W OF THE 6th P.M.

**LEGEND**

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



- 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 THE WELL **PEHR 19-1**. 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:  PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 11-23-10	WELL NAME: PEHR 19-1
	DRAWING DATE: 11-26-10	SURFACE LOCATION: WELD COUNTY, COLORADO NW 1/4 SW 1/4, SEC. 1, T1N, R67W
BY: 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.