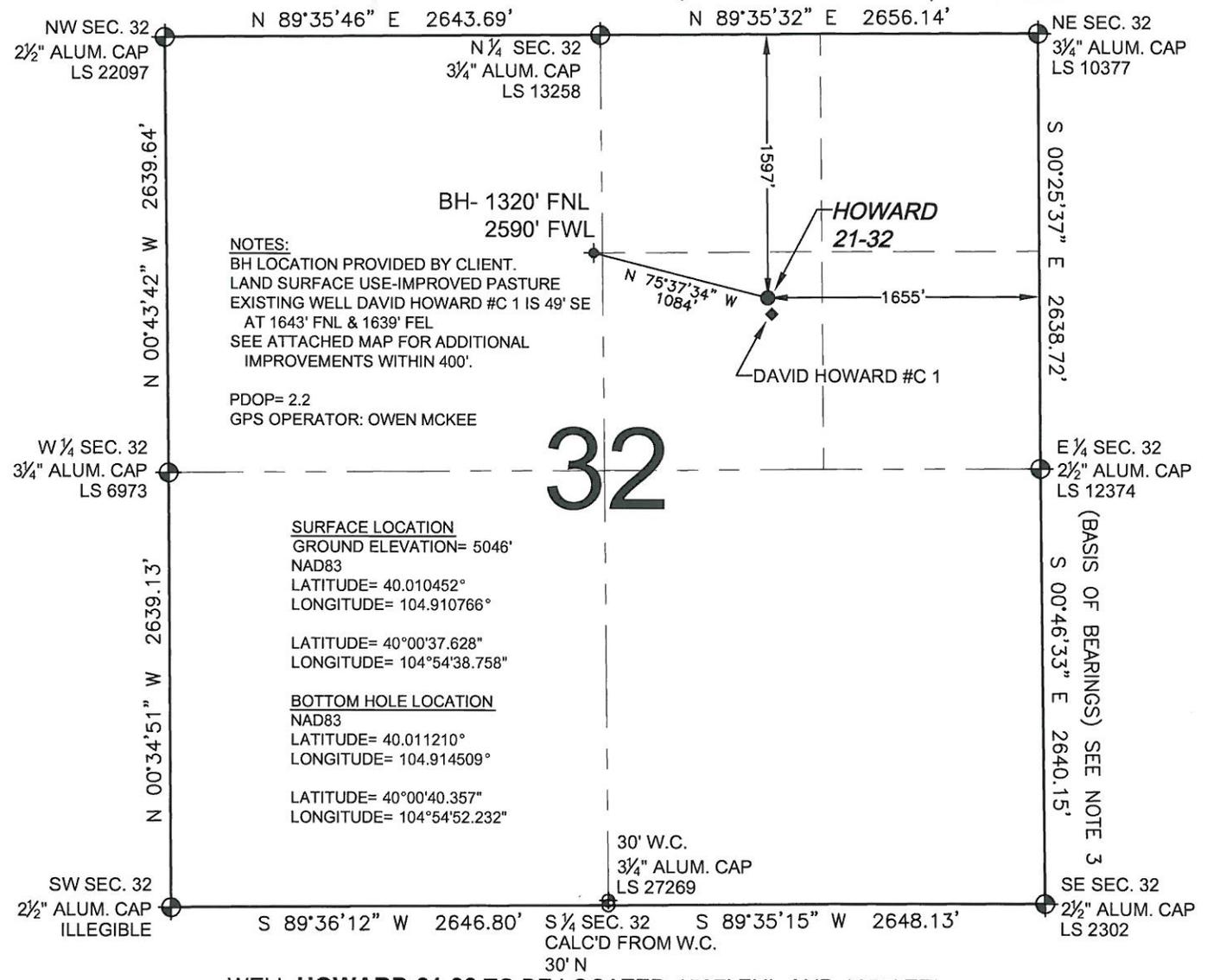


# WELL LOCATION CERTIFICATE: HOWARD 21-32

SECTION 32, TOWNSHIP 1 NORTH, RANGE 67 WEST, 6TH P.M.



**NOTES:**  
 BH LOCATION PROVIDED BY CLIENT.  
 LAND SURFACE USE-IMPROVED PASTURE  
 EXISTING WELL DAVID HOWARD #C 1 IS 49' SE  
 AT 1643' FNL & 1639' FEL  
 SEE ATTACHED MAP FOR ADDITIONAL  
 IMPROVEMENTS WITHIN 400'.

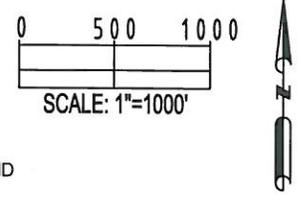
PDOP= 2.2  
 GPS OPERATOR: OWEN MCKEE

**SURFACE LOCATION**  
 GROUND ELEVATION= 5046'  
 NAD83  
 LATITUDE= 40.010452°  
 LONGITUDE= 104.910766°  
  
 LATITUDE= 40°00'37.628"  
 LONGITUDE= 104°54'38.758"  
  
**BOTTOM HOLE LOCATION**  
 NAD83  
 LATITUDE= 40.011210°  
 LONGITUDE= 104.914509°  
  
 LATITUDE= 40°00'40.357"  
 LONGITUDE= 104°54'52.232"

WELL HOWARD 21-32 TO BE LOCATED 1597' FNL AND 1655' FEL

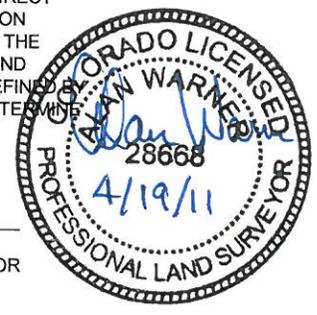
**LEGEND**

- ⊕ = 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, STEVEN D. PARKER, 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.



STEVEN D. PARKER, PLS 38053  
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
 FOR AND ON BEHALF OF P.F.S., LLC

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON AN DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVEN MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEAR 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: 03-17-11	SURFACE LOCATION: SW 1/4 NE 1/4,
	DRAWING DATE: 04-18-11	SEC. 32, T1N, R67W
	BY: SMF	WELD COUNTY, COLORADO