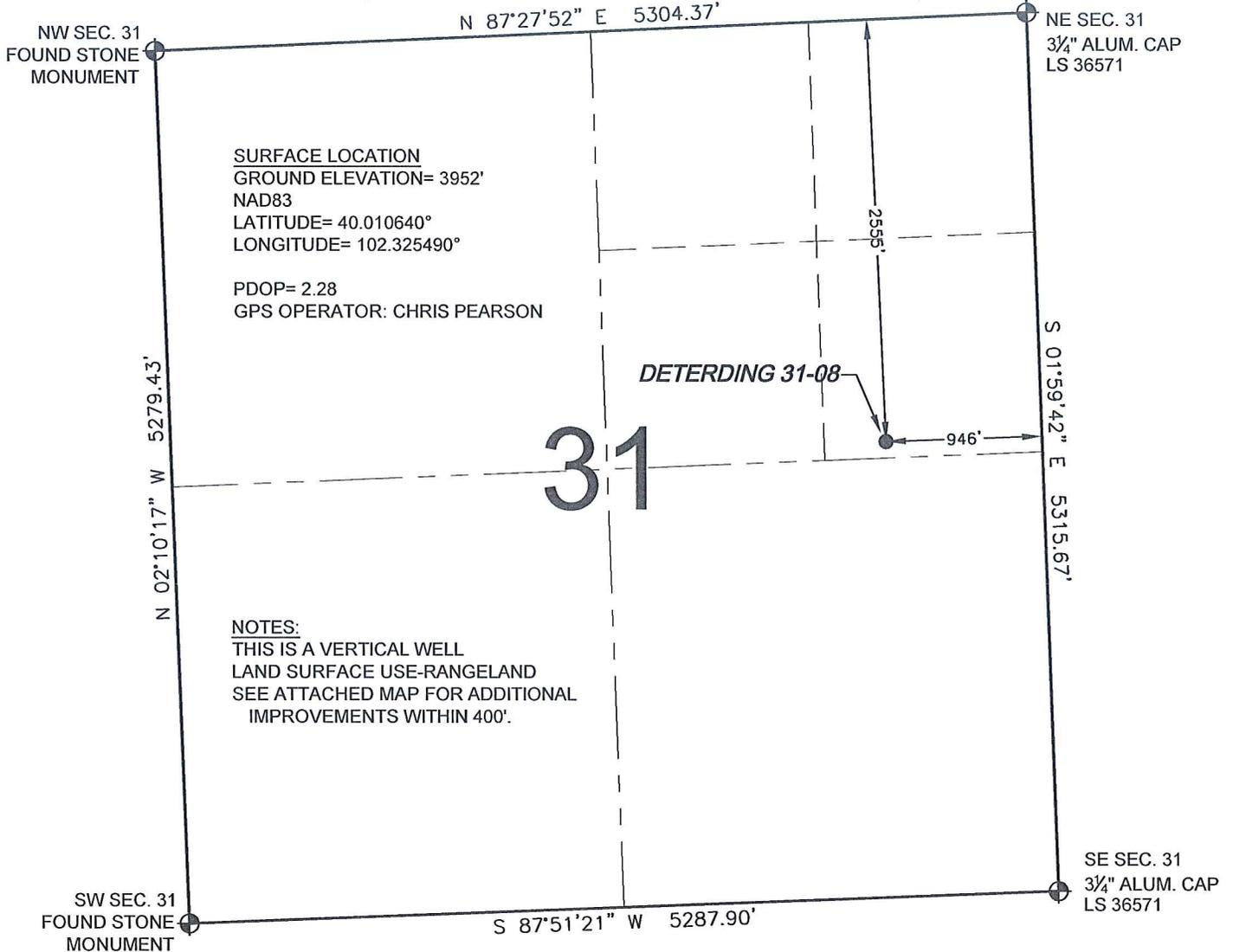


# WELL LOCATION CERTIFICATE: DETERDING 31-08

SECTION 31, TOWNSHIP 1 NORTH, RANGE 44 WEST, 6TH P.M.



**SURFACE LOCATION**  
 GROUND ELEVATION= 3952'  
 NAD83  
 LATITUDE= 40.010640°  
 LONGITUDE= 102.325490°

PDOP= 2.28  
 GPS OPERATOR: CHRIS PEARSON

**DETERDING 31-08**

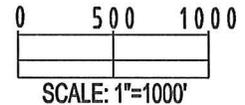
# 31

**NOTES:**  
 THIS IS A VERTICAL WELL  
 LAND SURFACE USE-RANGELAND  
 SEE ATTACHED MAP FOR ADDITIONAL  
 IMPROVEMENTS WITHIN 400'.

WELL **DETERDING 31-08** TO BE LOCATED 2555' FNL AND 946' FEL, SECTION 31, T1N, R44W OF THE 6th P.M.

**LEGEND**

- ⊕ = EXISTING MONUMENT    ⊕ = BOTTOM HOLE    BH = BOTTOM HOLE
- = PROPOSED WELL        \* = EXISTING WELL



**NOTES:**

1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
2. 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
3. THE BEARINGS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS BETWEEN THE MONUMENTS SHOWN HEREON AS FOUND ON THE FIELD DATE BELOW.
4. 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 **ROSETTA RESOURCES OPERATING 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 **DETERDING 31-08**. 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:<br><br>PFS<br>Petroleum Field Services, LLC<br>1801 W. 13th Ave.<br>Denver, CO 80204 | FIELD DATE:<br>10-21-09   | WELL NAME:<br>DETERDING 31-08              |
|   | DRAWING DATE:<br>10-23-09 | SURFACE LOCATION:<br>YUMA COUNTY, COLORADO |
|   | BY:<br>SMF                | SE 1/4 NE 1/4, SEC. 31, T1N, R44W          |
|   |                           |  |

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.