

PROPOSED WELLBORE SPACING UNIT

SURFACE LOCATION

NAD 83

LAT = 40.46421°N

LON = 104.87459°W

P.D.O.P. = 2.2

GPS OPERATOR= C. VANMATRE

BOTTOM HOLE LOCATION

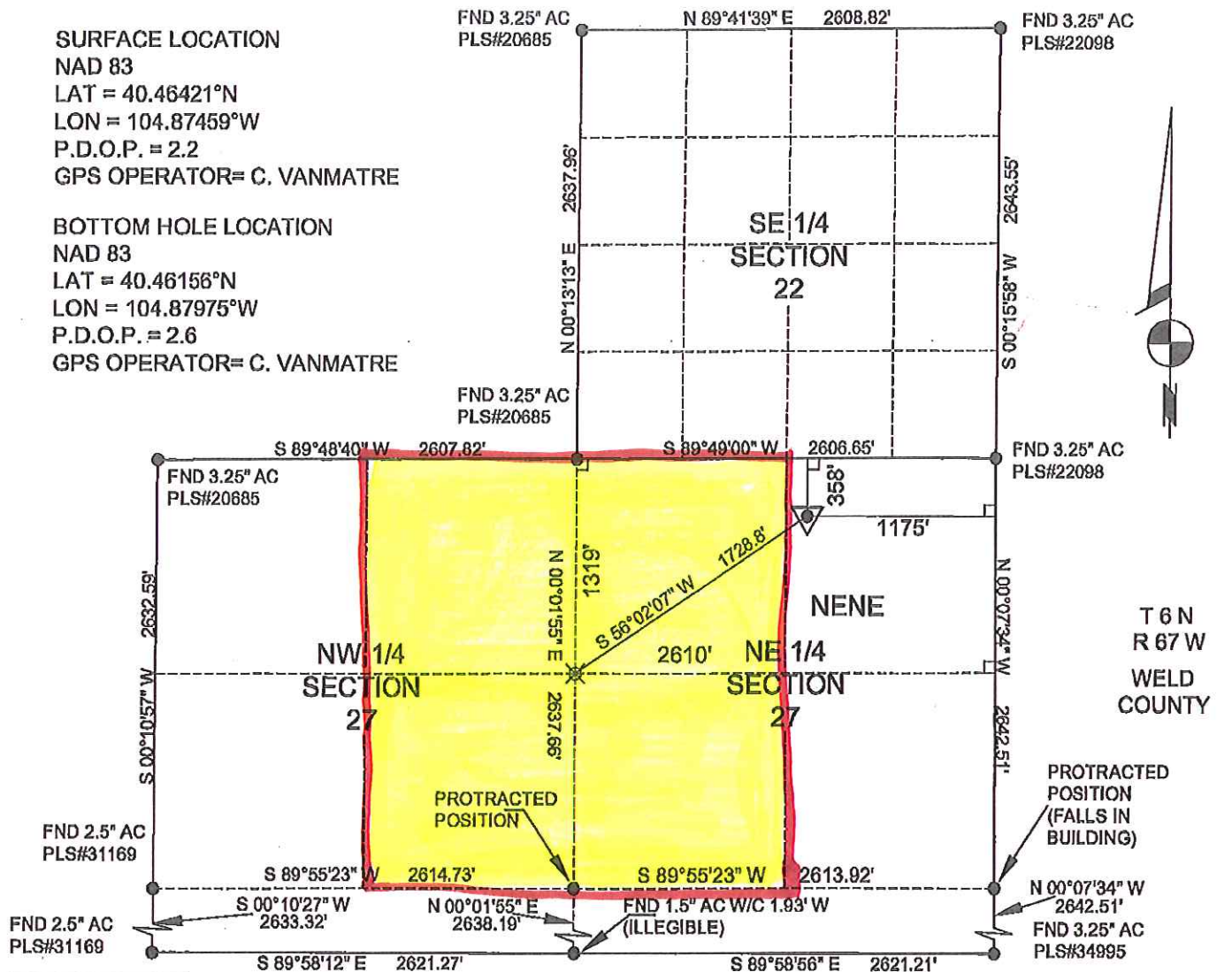
NAD 83

LAT = 40.46156°N

LON = 104.87975°W

P.D.O.P. = 2.6

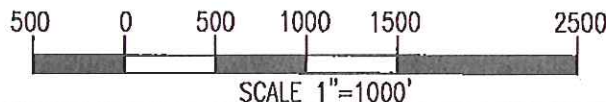
GPS OPERATOR= C. VANMATRE



WELL: GREAT WESTERN 27-31-8 TO BE LOCATED 358' FNL AND 1175' FEL IN SECTION 27, TOWNSHIP 6 NORTH, RANGE 67 WEST OF THE 6TH P.M. LOCATION FALLS IN: ALFALFA FIELD GROUND ELEVATION = 4767' IMPROVEMENTS: SEE SHEET 2 OF 2

LEGEND:

- SECTION CORNER (AS NOTED)
- △ PROPOSED WELL LOCATION
- ⊗ PROPOSED BOTTOM HOLE LOCATION



NOTES:

1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS AS 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.
3. THE BEARINGS AS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS BETWEEN THE MONUMENTS SHOWN HEREON AS FOUND IN 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, RICHARD B. GABRIEL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO:

GREAT WESTERN OIL AND GAS COMPANY, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WAS DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL GREAT WESTERN 27-31-8. 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.

RICHARD B. GABRIEL P.L.S. #37929
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF POWER SURVEYING CO., INC.

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 ON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS DATE OF THIS CERTIFICATION SHOWN HEREON.



POWER
Surveying Company, Inc.
Established 1918
120 W. 84TH AVENUE
THORNTON, COLORADO 80260
PH. 303-702-1817
FAX. 303-702-1483
WWW.POWERSURVEYING.COM

DATE OF FIELD WORK: 9-23-11
DATE OF COMPLETION: 9-27-11
PROJECT NUMBER: 501-11-169



PROPOSED WELLBORE SPACING UNIT

SURFACE LOCATION

NAD 83

LAT = 40.46455°N

LON = 104.87424°W

P.D.O.P. = 2.5

GPS OPERATOR= C. VANMATRE

BOTTOM HOLE LOCATION

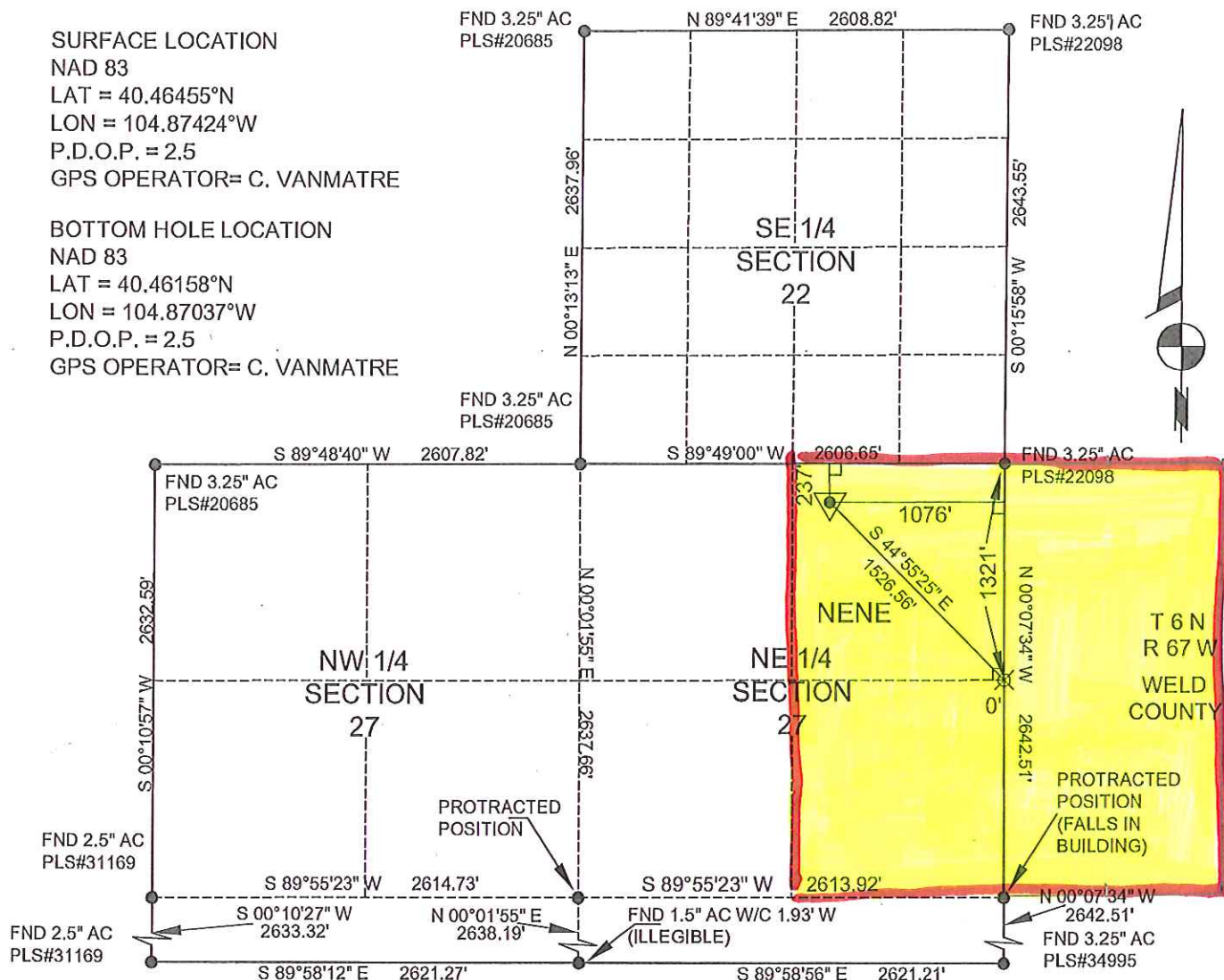
NAD 83

LAT = 40.46158°N

LON = 104.87037°W

P.D.O.P. = 2.5

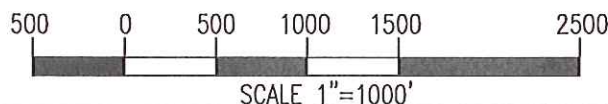
GPS OPERATOR= C. VANMATRE



WELL: GREAT WESTERN 27-41-10 TO BE LOCATED 237' FNL AND 1076' FEL IN SECTION 27, TOWNSHIP 6 NORTH, RANGE 67 WEST OF THE 6TH P.M. LOCATION FALLS IN: ALFALFA FIELD GROUND ELEVATION = 4767' IMPROVEMENTS: SEE SHEET 2 OF 2

LEGEND:

- SECTION CORNER (AS NOTED)
- PROPOSED WELL LOCATION
- ⊗ PROPOSED BOTTOM HOLE LOCATION



NOTES:

1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS AS 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.
3. THE BEARINGS AS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS BETWEEN THE MONUMENTS SHOWN HEREON AS FOUND IN 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, RICHARD B. GABRIEL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO:

GREAT WESTERN OIL AND GAS COMPANY, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WAS DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL **GREAT WESTERN 27-41-10**. 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.

RICHARD B. GABRIEL P.L.S. #37929
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF POWER SURVEYING CO., INC.

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 ON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.



POWER
Surveying Company, Inc.
Established 1988
120 W. 84TH AVENUE
THORNTON, COLORADO 80260
PH. 303-702-1617
FAX. 303-702-1488
WWW.POWERSURVEYING.CO

DATE OF FIELD WORK: 9-23-11
DATE OF COMPLETION: 9-27-11
PROJECT NUMBER: 501-11-169 REV1

