

WELL LOCATION CERTIFICATE: VOGL 14-36

SECTION 36, TOWNSHIP 3 NORTH, RANGE 68 WEST, 6TH P.M.

NW SEC. 36
3/4" ALUM. CAP
LS 18482

N 88°58'31" E 2643.06'

N 88°30'49" E 2634.13'

NE SEC. 36
2" ALUM. CAP
LS 23500

N 1/4 SEC. 36
2 1/2" ALUM. CAP
LS 28273

NOTES:
THIS IS A DIRECTIONAL WELL
BH LOCATION TO BE 660' FSL & 1980' FWL
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-OPEN FIELD
TWINNING PROPOSED WELL VOGL 23-36
TO BE 16' N
PROPOSED WELL VOGL 23-36 TO BE
706' FSL & 728' FWL
EXISTING WELL HSR-VOGL 13-36A IS 54' NW
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

S 00°14'18" E 2651.12'

W 1/4 SEC. 36
2 1/2" ALUM. CAP
LS 38065

36

SURFACE LOCATION
GROUND ELEVATION= 4817'
NAD83
LATITUDE= 40.17705°
LONGITUDE= 104.95807°

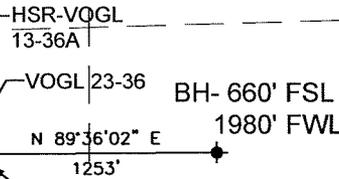
E 1/4 SEC. 36
3/4" ALUM. CAP
LS 29420

S 00°14'04" E 2651.23'

BOTTOM HOLE LOCATION
NAD83
LATITUDE= 40.17706°
LONGITUDE= 104.95359°

PDOP= 1.98
GPS OPERATOR: TRAVIS KRAICH

N 00°15'30" W 2675.38'
N 00°15'33" W 2675.42'



SW SEC. 36
3/4" ALUM. CAP
LS 18482

S 88°13'10" W 2638.09'

S 1/4 SEC. 36
2 1/2" ALUM. CAP
LS 38065

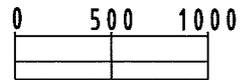
S 88°13'03" W 2638.06'

SE SEC. 36
2 1/2" ALUM. CAP
ILLEGIBLE

WELL VOGL 14-36 TO BE LOCATED 690' FSL AND 727' FWL, SECTION 36, T3N, R68W OF THE 6th P.M.

LEGEND

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



SCALE: 1"=1000'

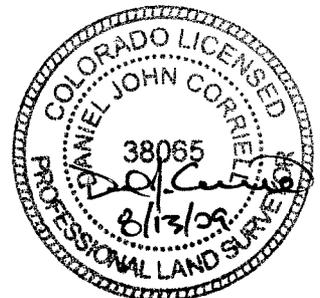


NOTES:

- 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, DANIEL J. CORRIELL, 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 **VOGL 14-36**. 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.

DANIEL J. CORRIELL, PLS 38065
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC

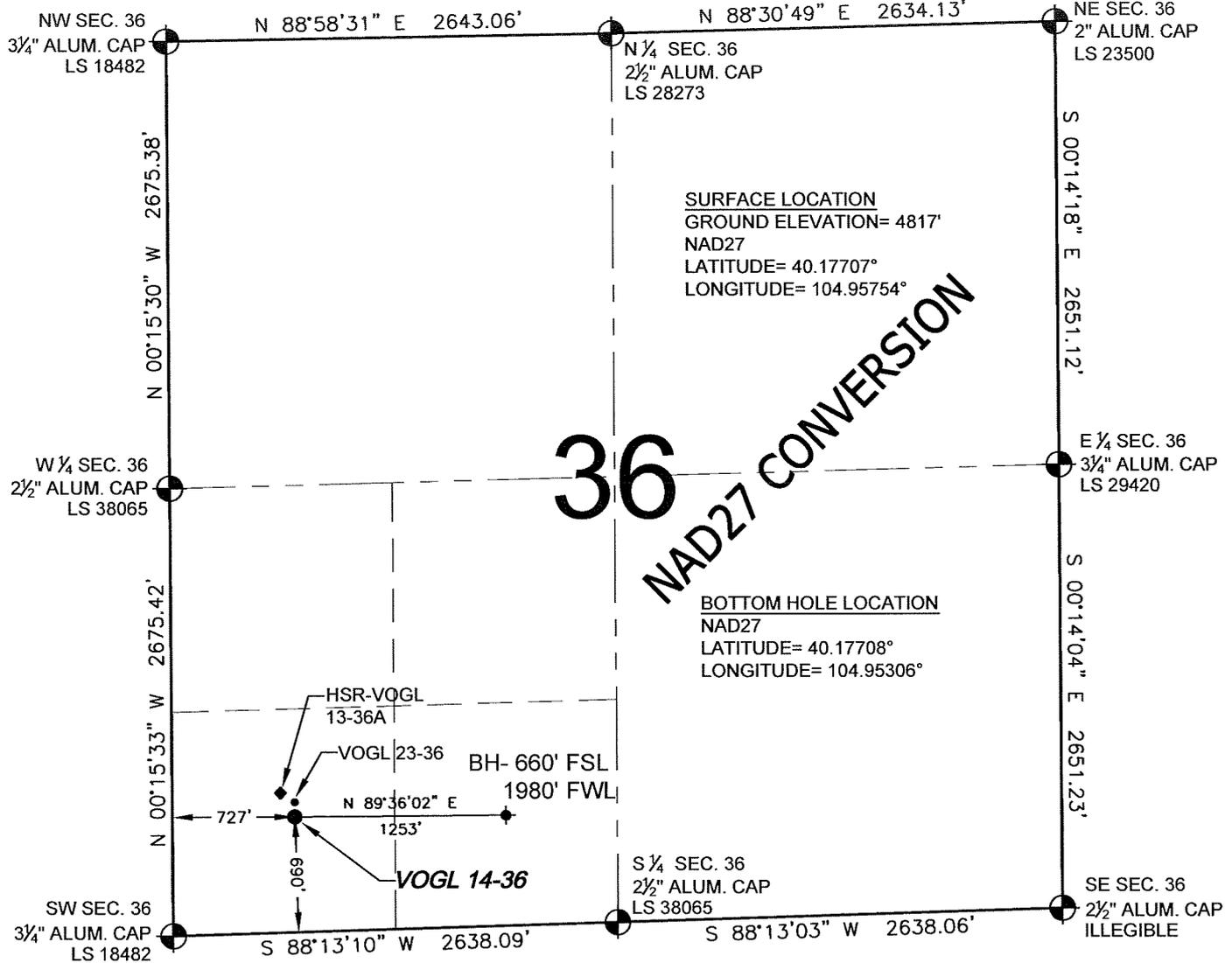


| | | |
|---|---------------------------|--|
| PREPARED BY:  Petroleum Field Services, LLC 1801 W. 13th Ave Denver, CO 80204 | FIELD DATE: 08-10-09 | WELL NAME: VOGL 14-36 |
| | DRAWING DATE: 08-13-09 | SURFACE LOCATION: WELD COUNTY, COLORADO |
| | BY: SMF | SW 1/4 SW 1/4, SEC. 36, T3N, R68W |

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.

EXHIBIT: NAD27 CONVERSION

SECTION 36, TOWNSHIP 3 NORTH, RANGE 68 WEST, 6TH P.M.



WELL VOGL 14-36 TO BE LOCATED 690' FSL AND 727' FWL, SECTION 36, T3N, R68W OF THE 6th P.M.

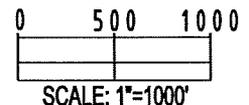
NOTES:

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.

LEGEND

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

NOTE: LATITUDE AND LONGITUDE SHOWN WERE CONVERTED FROM NAD83 USING CORPSCON 6.0 (PROGRAM). PFS DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY.



| | | |
|--|---------------------------|--|
| PREPARED BY:  Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204 | FIELD DATE: 08-10-09 | WELL NAME: VOGL 14-36 |
| | DRAWING DATE: 08-13-09 | SURFACE LOCATION: WELD COUNTY, COLORADO |
| | BY: SMF | SW 1/4 SW 1/4, SEC. 36, T3N, R68W |

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.