

WELL LOCATION CERTIFICATE: VOGL 11-36

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

N 00°15'30" W 2675.38'

NOTES:

THIS IS A DIRECTIONAL WELL
BH LOCATION TO BE 2130' FSL & 2130' FWL
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-OPEN FIELD
TWINNING EXISTING WELL HSR-VOGL 13-36A
WHICH IS 47' W
EXISTING WELL HSR-VOGL 13-36A IS
722' FSL & 682' FWL
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

S 00°14'18" E 2651.12'

W 1/4 SEC. 36
3/2" ALUM. CAP
LS 38065

36

SURFACE LOCATION
GROUND ELEVATION= 4817'
NAD83
LATITUDE= 40.17714°
LONGITUDE= 104.95806°

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

BOTTOM HOLE LOCATION
NAD83
LATITUDE= 40.18110°
LONGITUDE= 104.95304°

S 00°14'04" E 2651.23'

PDOP= 1.98
GPS OPERATOR: TRAVIS KRAICH

N 00°15'33" W 2675.42'

BH- 2130' FSL
2130' FWL

HSR-VOGL
13-36A

VOGL 11-36

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

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

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

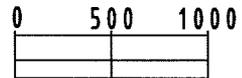
S 88°13'10" W 2638.09'

S 88°13'03" W 2638.06'

WELL VOGL 11-36 TO BE LOCATED 722' FSL AND 729' 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'

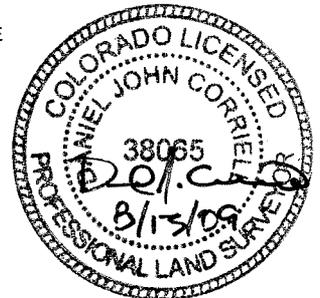


NOTES:

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, 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 11-36**. 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

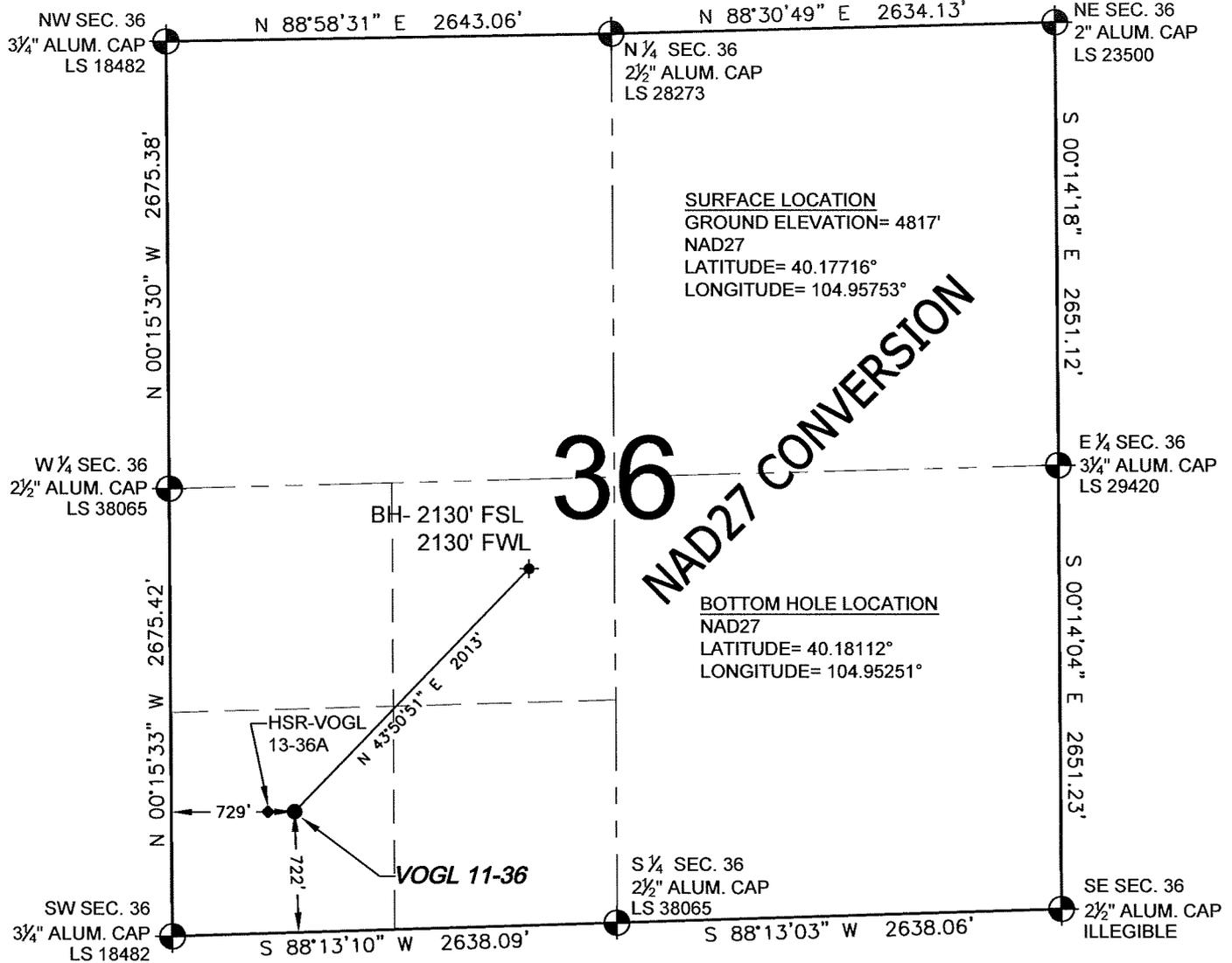


PREPARED BY: PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 08-10-09	WELL NAME: VOGL 11-36
	DRAWING DATE: 08-13-09	SURFACE LOCATION: WELD COUNTY, COLORADO
BY: SMF		SW 1/4 SW 1/4, SEC. 36, T3N, R68W

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.



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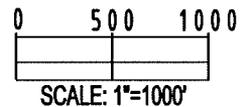
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NOTE: LATITUDE AND LONGITUDE SHOWN WERE CONVERTED FROM NAD83 USING CORPSCON 6.0 (PROGRAM). PFS DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY.



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	BY: SMF	SW 1/4 SW 1/4, SEC. 36, T3N, R68W

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