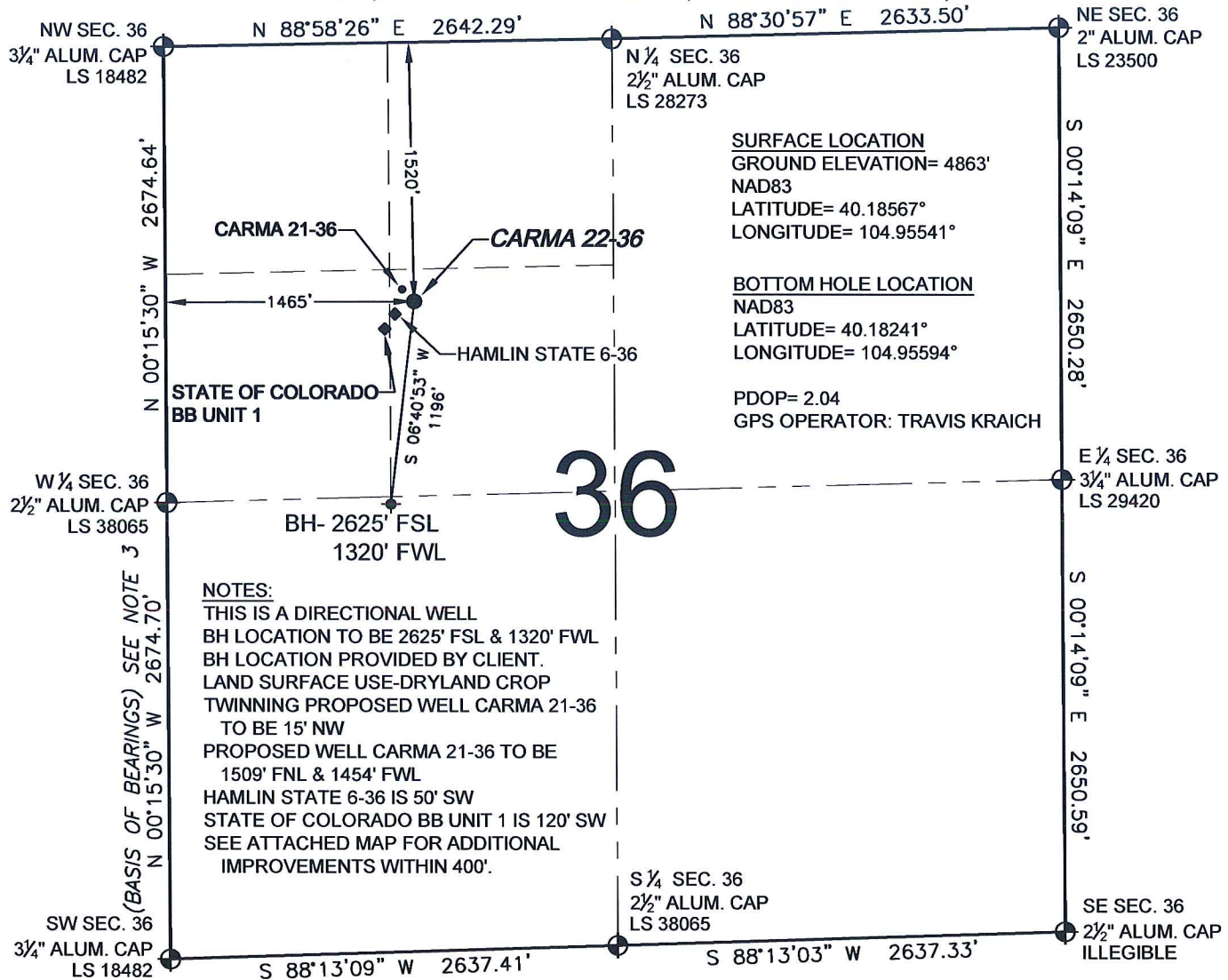


WELL LOCATION CERTIFICATE: CARMA 22-36

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



NOTES:

THIS IS A DIRECTIONAL WELL.
BH LOCATION TO BE 2625' FSL & 1320' FWL
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-DRYLAND CROP
TWINNING PROPOSED WELL CARMA 21-36
TO BE 15' NW
PROPOSED WELL CARMA 21-36 TO BE
1509' FNL & 1454' FWL
HAMLIN STATE 6-36 IS 50' SW
STATE OF COLORADO BB UNIT 1 IS 120' SW
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

WELL **CARMA 22-36** TO BE LOCATED 1520' FNL AND 1465' FWL, SECTION 36, T3N, R68W OF THE 6th P.M.

LEGEND

⊕ = EXISTING MONUMENT ⊕ = BOTTOM HOLE BH = BOTTOM HOLE
● = PROPOSED WELL ◆ = EXISTING WELL

0 500 1000

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, JERRY F. HARCEK JR., 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 **CARMA 22-36**. 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.

JERRY F. HARCEK JR., PLS 34997
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC

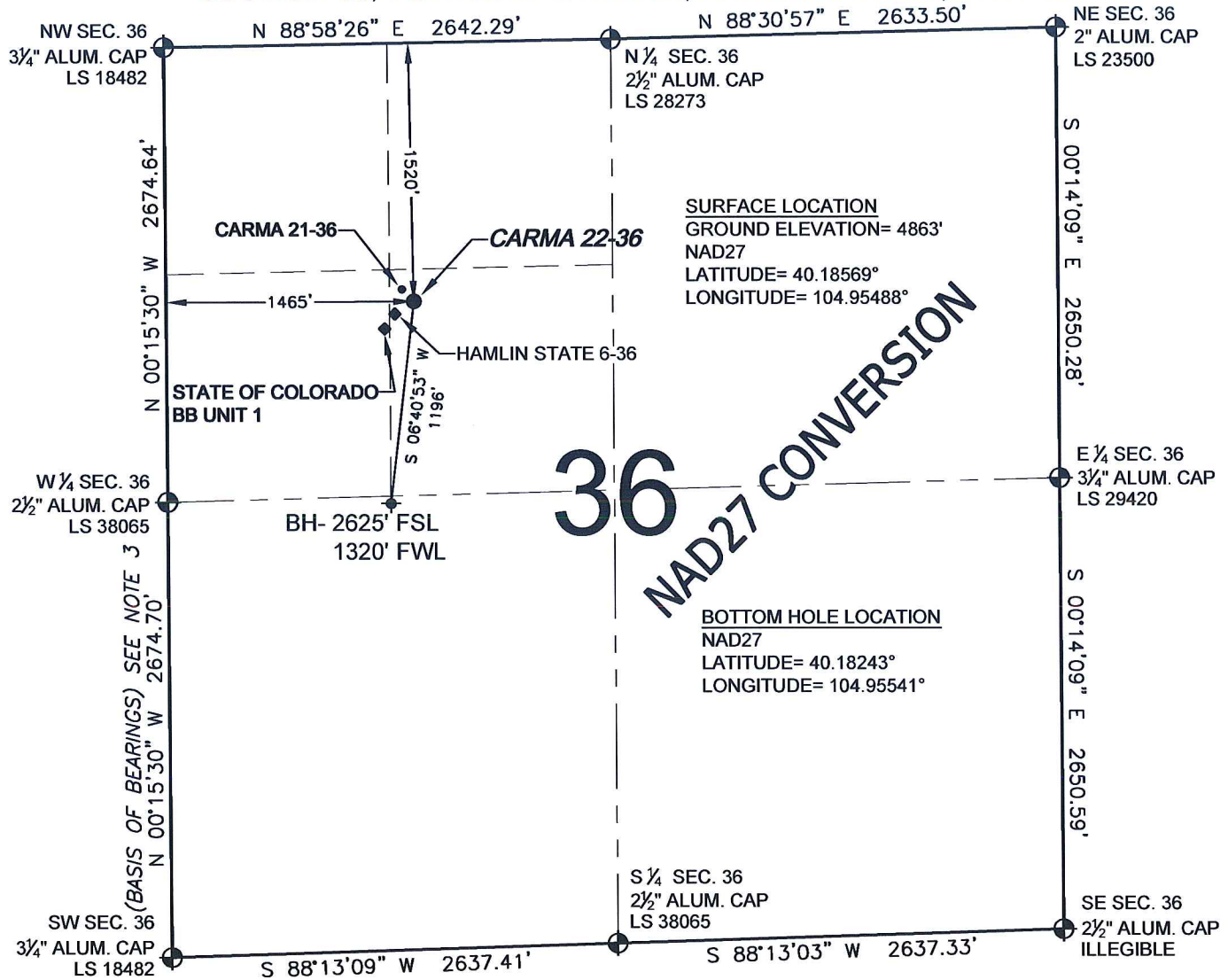


PREPARED BY:	FIELD DATE:	WELL NAME:
PFS	11-18-09	CARMA 22-36
1801 W. 13th Ave. Denver, CO 80204	DRAWING DATE:	SURFACE LOCATION:
	11-20-09	WELD COUNTY, COLORADO
	BY:	SE 1/4 NW 1/4, SEC. 36, T3N, R68W
	SMF	

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 **CARMA 22-36** TO BE LOCATED 1520' FNL AND 1465' FWL, SECTION 36, T3N, R68W OF THE 6th P.M.

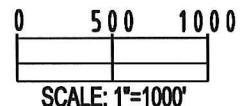
NOTES:

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VERTICAL = NAVD88; HORIZONTAL = NAD83/92
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LEGEND

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

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



PREPARED BY:	FIELD DATE:	WELL NAME:
PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	11-18-09	CARMA 22-36
	DRAWING DATE:	SURFACE LOCATION:
	11-20-09	WELD COUNTY, COLORADO
	BY:	SE 1/4 NW 1/4, SEC. 36, T3N, R68W
	SMF	

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.