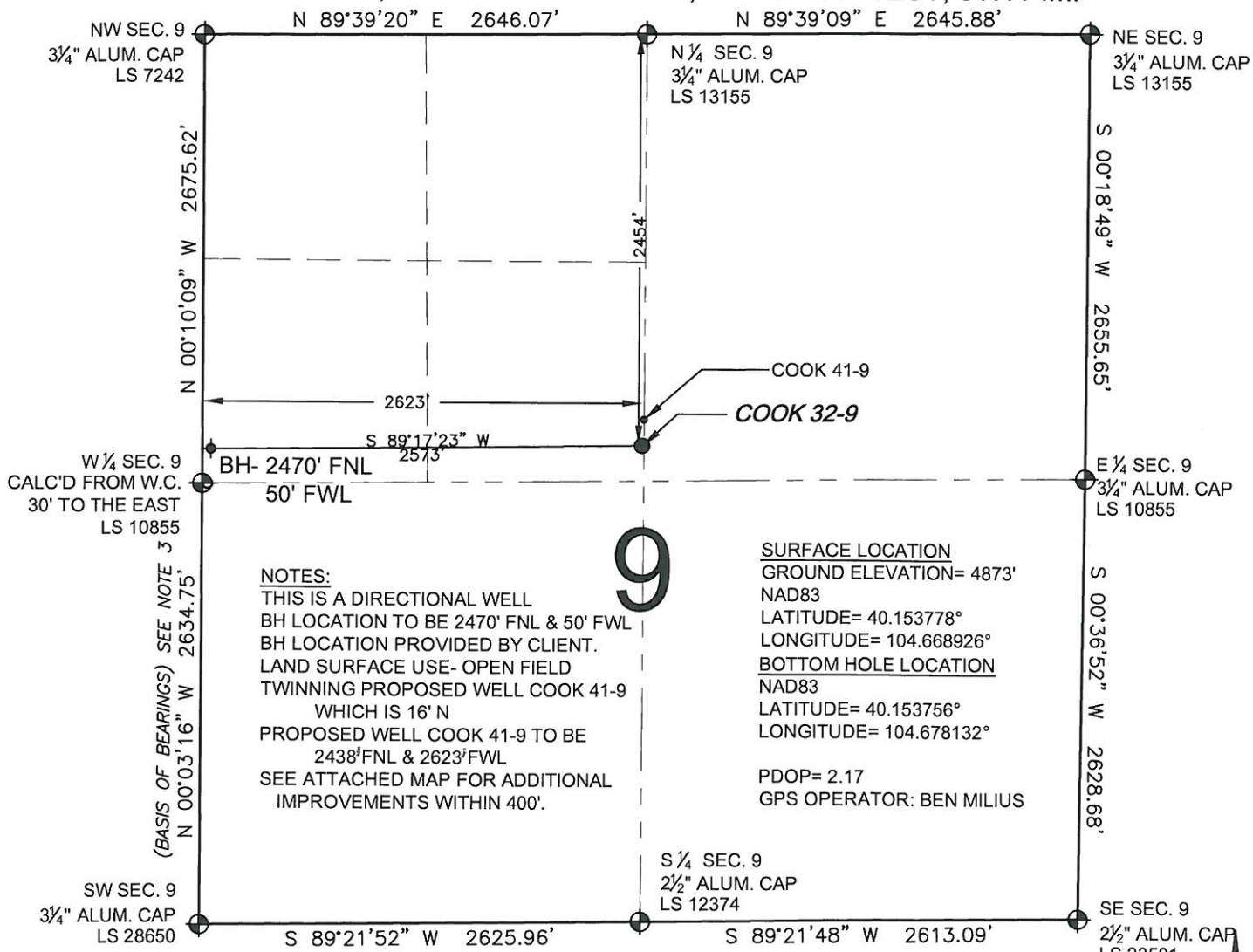


WELL LOCATION CERTIFICATE: COOK 32-9

SECTION 9, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.



NOTES:

THIS IS A DIRECTIONAL WELL
BH LOCATION TO BE 2470' FNL & 50' FWL
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE- OPEN FIELD
TWINNING PROPOSED WELL COOK 41-9
WHICH IS 16' N
PROPOSED WELL COOK 41-9 TO BE
2438' FNL & 2623' FWL
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

SURFACE LOCATION

GROUND ELEVATION= 4873'

NAD83

LATITUDE= 40.153778°

LONGITUDE= 104.668926°

BOTTOM HOLE LOCATION

NAD83

LATITUDE= 40.153756°

LONGITUDE= 104.678132°

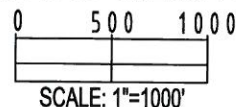
PDOP= 2.17

GPS OPERATOR: BEN MILIUS

WELL **COOK 32-9** TO BE LOCATED 2454' FNL AND 2623' FWL, SECTION 9, T2N, R65W OF THE 6th P.M.

LEGEND

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

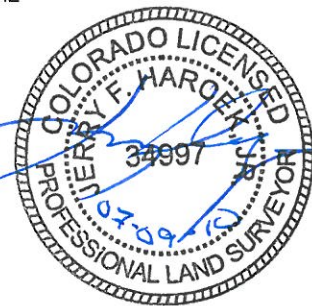


NOTES:

- 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 **COOK 32-9**. 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

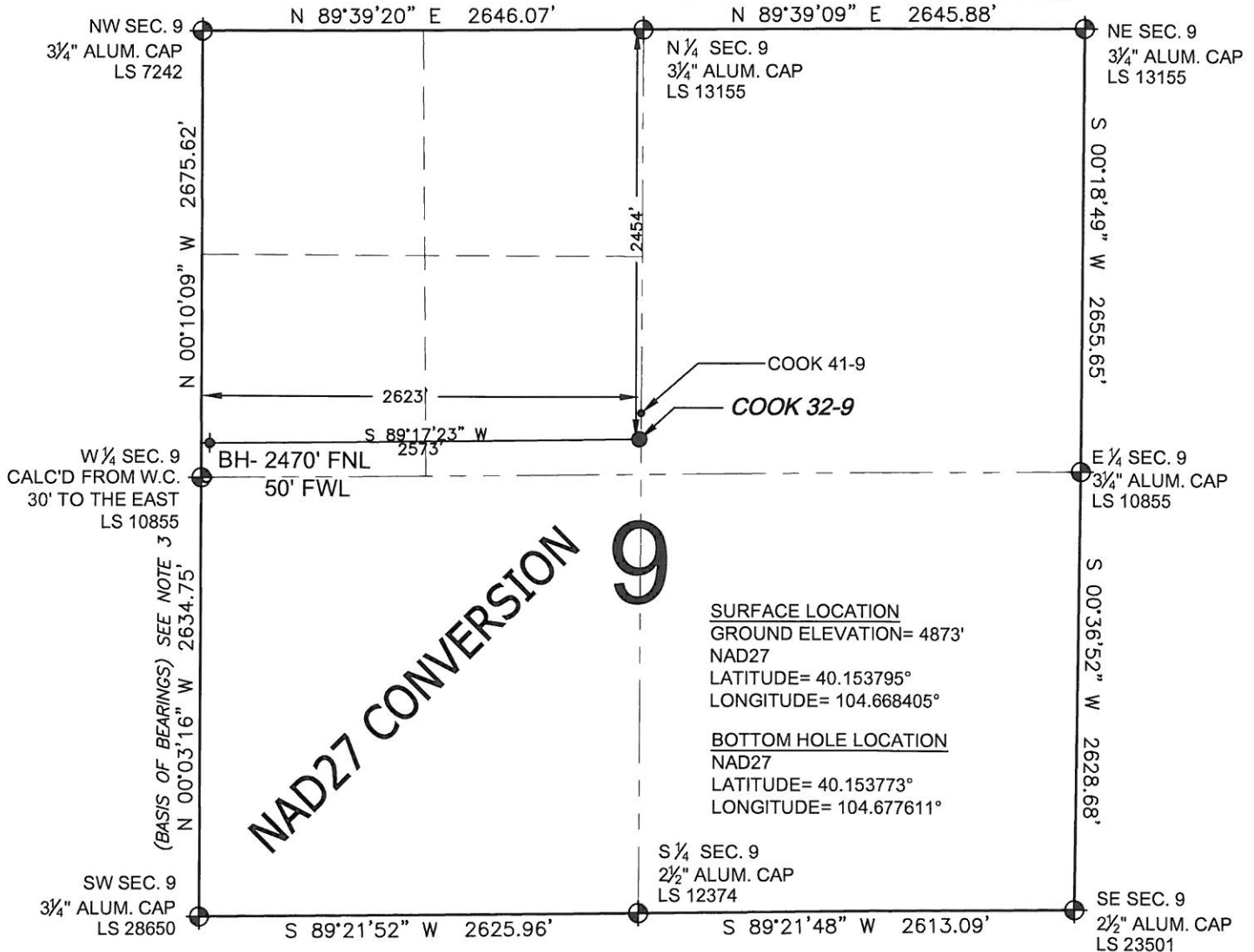


PREPARED BY:	FIELD DATE:	WELL NAME:
PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	06-21-10	COOK 32-9
DRAWING DATE:	SURFACE LOCATION:	
07-07-10	WELD COUNTY, COLORADO	
BY:	SE 1/4 NW 1/4, SEC. 9, T2N, R65W	
TBS		

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 9, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.



WELL **COOK 32-9** TO BE LOCATED 2454' FNL AND 2623' FWL, SECTION 9, T2N, R65W OF THE 6th P.M.

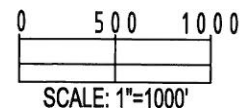
NOTES:

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- 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
 = 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: Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE:	WELL NAME:
	06-21-10	COOK 32-9
	DRAWING DATE:	SURFACE LOCATION:
	07-07-10	WELD COUNTY, COLORADO
BY:	SE 1/4 NW 1/4, SEC. 9, T2N, R65W	
TBS		

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.