



October 11, 2010

Department of Natural Resources  
Oil and Gas Conservation Commission  
The Chancery Building  
1120 Lincoln St., Suite 801  
Denver, CO 80203

Re: **20 Day Certification Letter - 318A-e**  
SWEETGRASS 23-14  
Township 1 North, Range 68 West, Section 14: NW/4NW/4  
Unit Spacing: 01N-68W-14 E/2SW/4; W/2SE/4  
Weld County, Colorado

Ladies/Gentlemen:

Kerr McGee Oil and Gas Onshore LP ("KMG") hereby certify to the Director that KMG owns one-hundred percent (100%) of the mineral rights in the proposed spacing unit. Therefore, KMG respectfully requests the Director to approve the boundary well.

If you have any questions or issues regarding this permit, please contact Cheryl Light at (720) 929-6461.

Very truly yours,

**Kerr-McGee Oil and Gas Onshore LP**

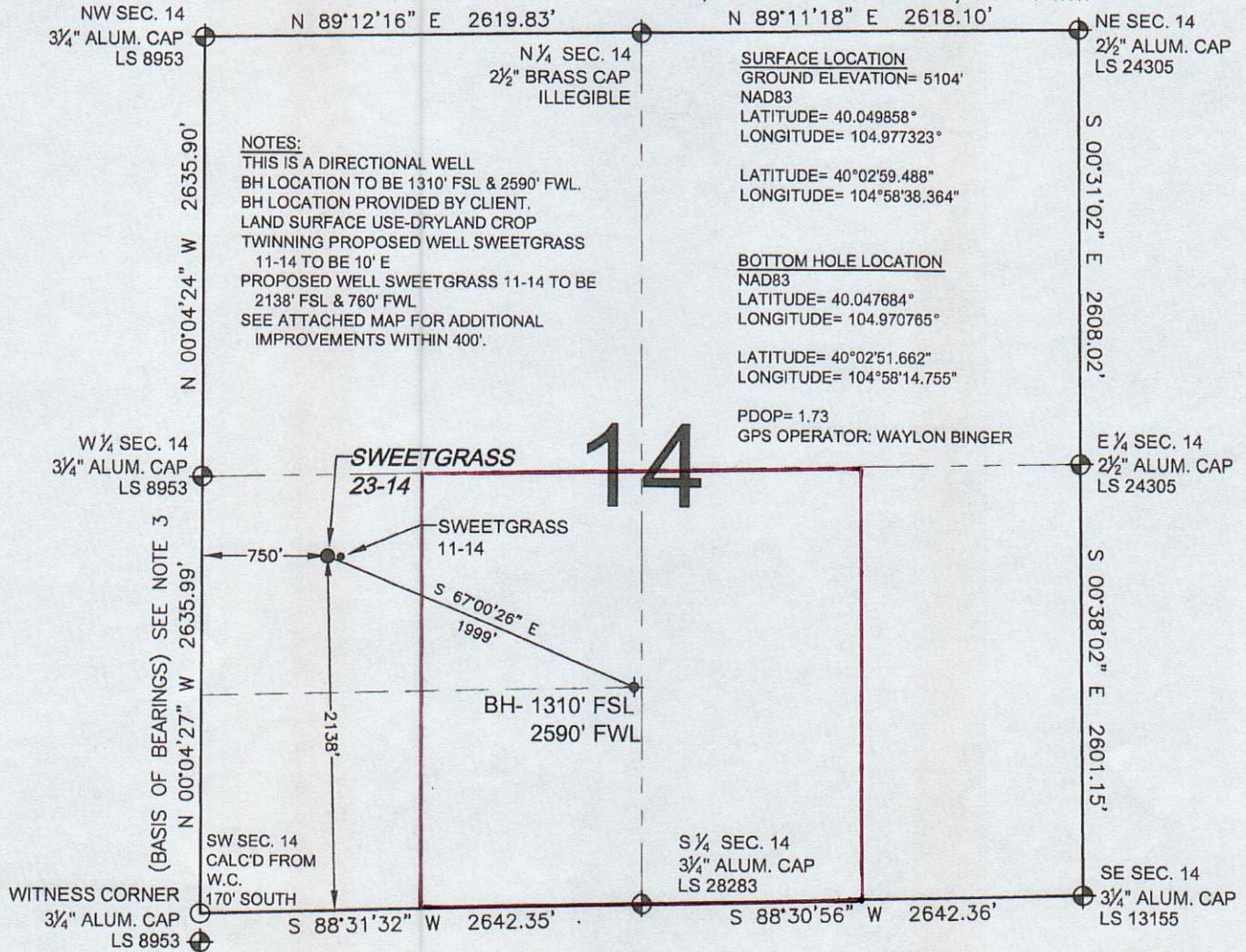
A handwritten signature in blue ink, appearing to read "Rebecca Heim".

**Rebecca Heim**  
**Regulatory Analyst II**

Enclosure

# WELL LOCATION CERTIFICATE: SWEETGRASS 23-14

SECTION 14, TOWNSHIP 1 NORTH, RANGE 68 WEST, 6TH P.M.



**NOTES:**  
THIS IS A DIRECTIONAL WELL  
BH LOCATION TO BE 1310' FSL & 2590' FWL.  
BH LOCATION PROVIDED BY CLIENT.  
LAND SURFACE USE-DRYLAND CROP  
TWINNING PROPOSED WELL SWEETGRASS  
11-14 TO BE 10' E  
PROPOSED WELL SWEETGRASS 11-14 TO BE  
2138' FSL & 760' FWL  
SEE ATTACHED MAP FOR ADDITIONAL  
IMPROVEMENTS WITHIN 400'.

**SURFACE LOCATION**  
GROUND ELEVATION= 5104'  
NAD83  
LATITUDE= 40.049858°  
LONGITUDE= 104.977323°

LATITUDE= 40°02'59.488"  
LONGITUDE= 104°58'38.364"

**BOTTOM HOLE LOCATION**  
NAD83  
LATITUDE= 40.047684°  
LONGITUDE= 104.970765°

LATITUDE= 40°02'51.662"  
LONGITUDE= 104°58'14.755"

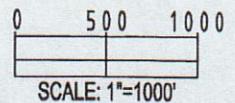
PDOP= 1.73  
GPS OPERATOR: WAYLON BINGER

# 14

WELL **SWEETGRASS 23-14** TO BE LOCATED 2138' FSL AND 750' FWL, SECTION 14, T1N, R68W OF THE 6th P.M.

**LEGEND**

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



**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, 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 **SWEETGRASS 23-14**. 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.

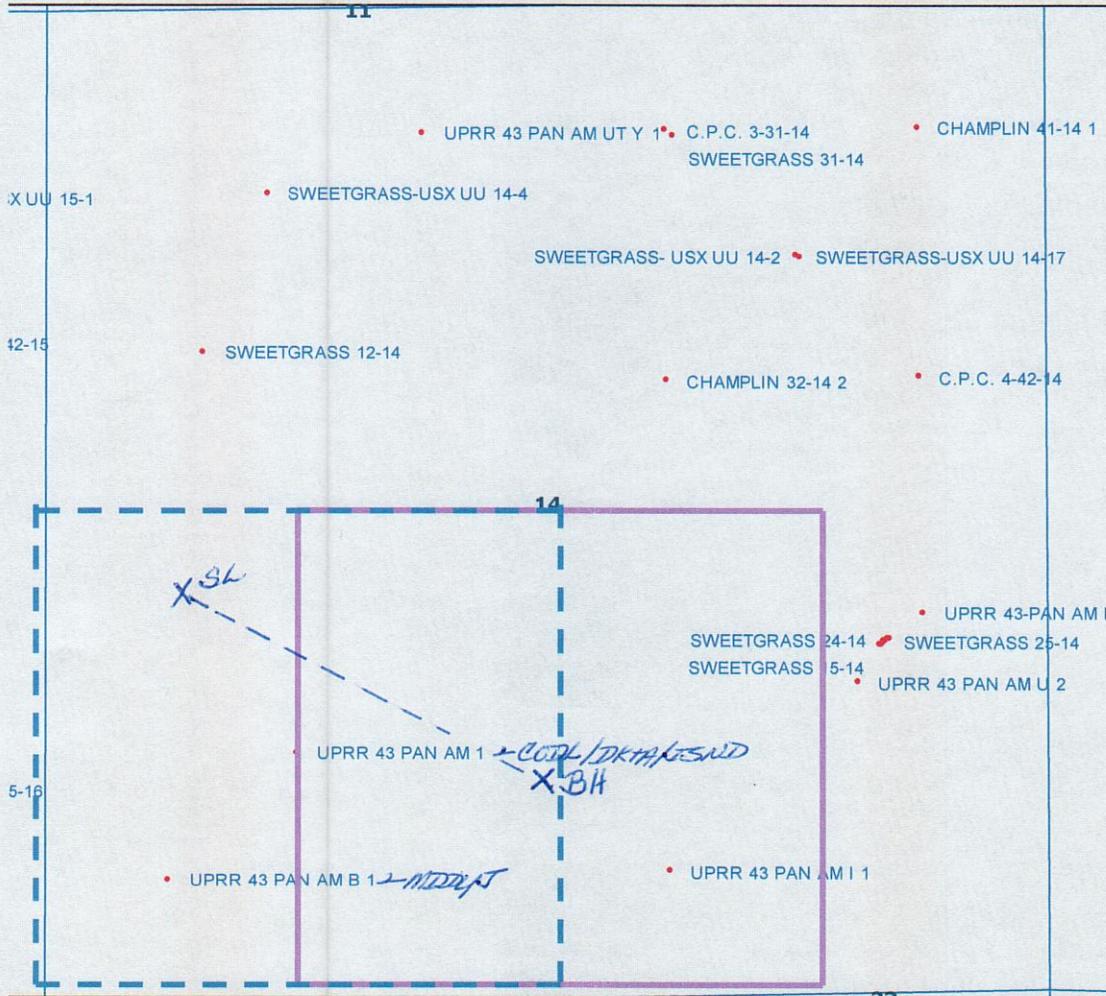
JERRY F. HARCEK JR., PLS 34997  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC



PREPARED BY: <b>PFS</b> Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 09-24-10	WELL NAME: SWEETGRASS 23-14
	DRAWING DATE: 10-01-10	SURFACE LOCATION: WELD COUNTY, COLORADO
	BY: SMF	NW 1/4 SW 1/4, SEC. 14, T1N, 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.

# SWEETGRASS 23-14 NWSW Sec. 14 T1N-R68W



## LEGEND



Proposed 160 acre Spacing Unit (Solid line).



Bottom Hole Located SE/4SW/4, Sec. 14-T1N-R68W (Dashed line).

**This 1/4 Section has less than 8 bottom hole wells producing from the Codell, Niobrara & J Sand Formations.**