



August 27, 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**  
ENCORE 21-12  
Township 5 North, Range 68 West, Section 12: NE/4NW/4  
Unit Spacing: 05N-68W-12            W/2NE/4; E/2NW/4  
Weld County, Colorado

Ladies/Gentlemen:

Kerr-McGee Oil and Gas Onshore LP ("KMG") hereby certifies to the Director that a twenty (20) day notice has been given by certified mail to all owners in the proposed wellbore spacing unit. We have not received any objections to such well location, proposed spacing unit, or additional producing formation. KMG hereby 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,

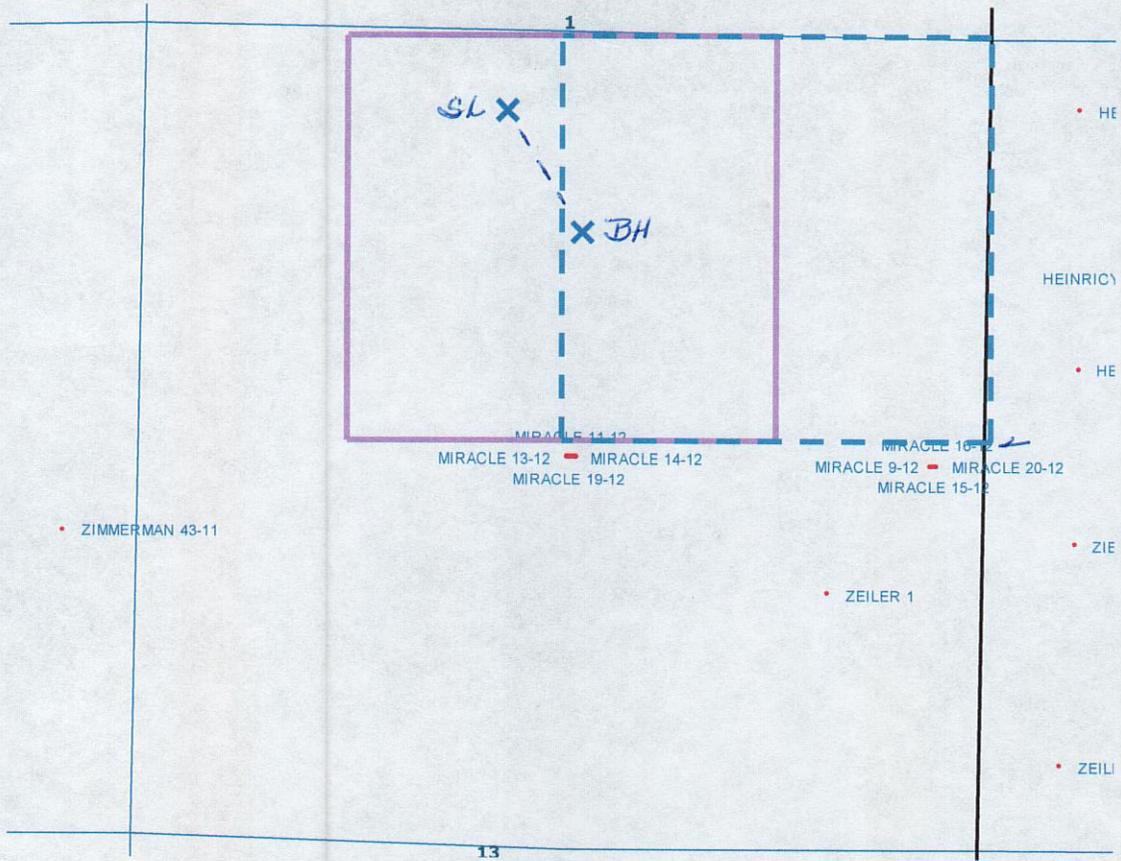
**Kerr-McGee Oil and Gas Onshore LP**

A handwritten signature in blue ink that reads 'Rebecca Heim'.

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

Enclosure

**ENCORE 21-12**  
**NENW Sec. 12 T5N-R68W**



**LEGEND**



Proposed 160 acre Spacing Unit (Solid line).



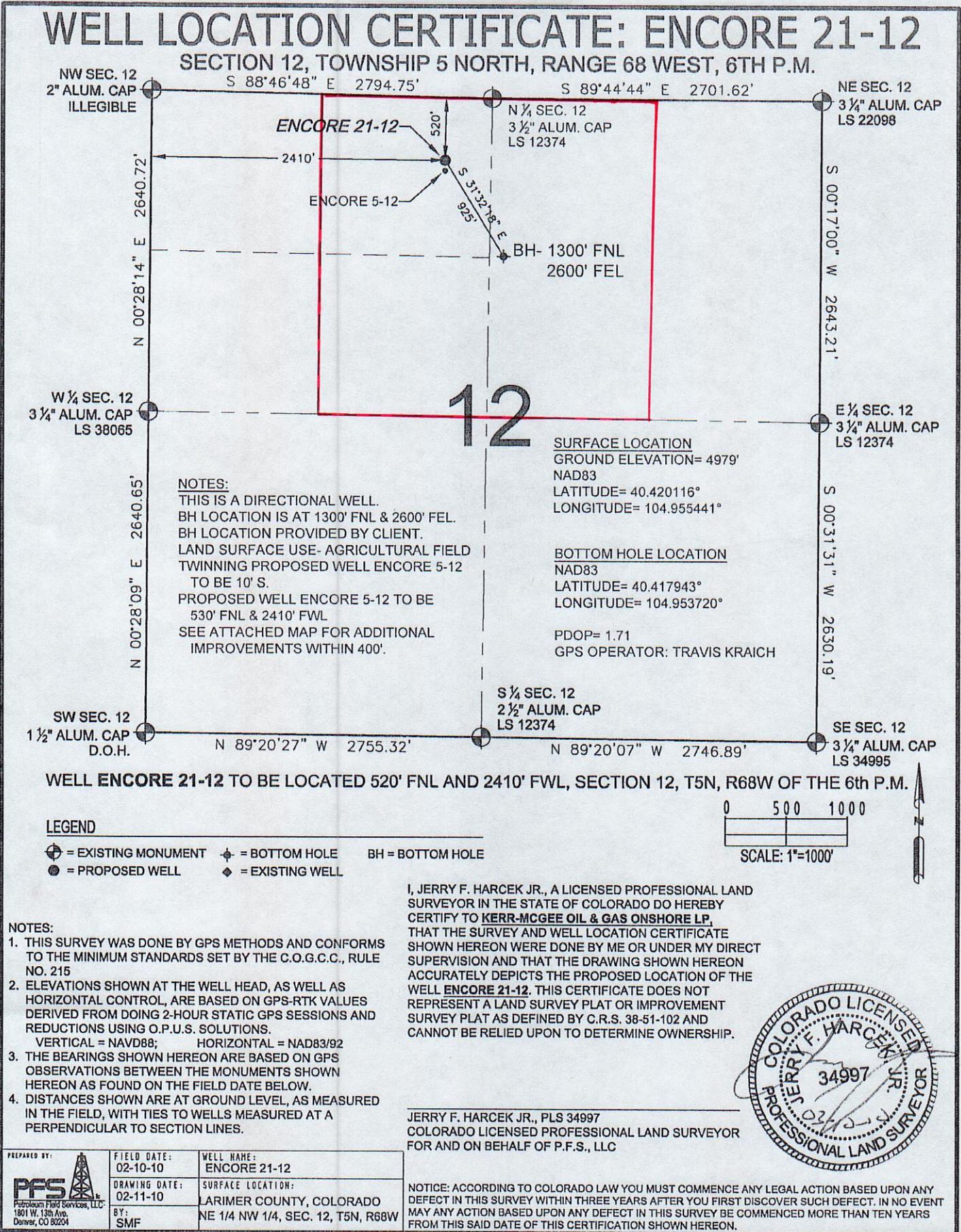
Bottom Hole Located NW/4NE/4, Sec. 12-T5N-R68W (Dashed line).

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

318A Proposed Spacing  
Unit Plan

# WELL LOCATION CERTIFICATE: ENCORE 21-12

SECTION 12, TOWNSHIP 5 NORTH, RANGE 68 WEST, 6TH P.M.



**NOTES:**  
 THIS IS A DIRECTIONAL WELL.  
 BH LOCATION IS AT 1300' FNL & 2600' FEL.  
 BH LOCATION PROVIDED BY CLIENT.  
 LAND SURFACE USE- AGRICULTURAL FIELD  
 TWINNING PROPOSED WELL ENCORE 5-12  
 TO BE 10' S.  
 PROPOSED WELL ENCORE 5-12 TO BE  
 530' FNL & 2410' FWL  
 SEE ATTACHED MAP FOR ADDITIONAL  
 IMPROVEMENTS WITHIN 400'.

**SURFACE LOCATION**  
 GROUND ELEVATION= 4979'  
 NAD83  
 LATITUDE= 40.420116°  
 LONGITUDE= 104.955441°

**BOTTOM HOLE LOCATION**  
 NAD83  
 LATITUDE= 40.417943°  
 LONGITUDE= 104.953720°

PDOP= 1.71  
 GPS OPERATOR: TRAVIS KRAICH

WELL ENCORE 21-12 TO BE LOCATED 520' FNL AND 2410' FWL, SECTION 12, T5N, R68W OF THE 6th P.M.

**LEGEND**

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

**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 ENCORE 21-12. 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:<br><b>PFS</b><br>Petroleum Field Services, LLC<br>1801 W. 13th Ave.<br>Denver, CO 80204 | FIELD DATE:<br>02-10-10   | WELL NAME:<br>ENCORE 21-12                    |
|  | DRAWING DATE:<br>02-11-10 | SURFACE LOCATION:<br>LARIMER COUNTY, COLORADO |
|  | BY:<br>SMF                | NE 1/4 NW 1/4, SEC. 12, T5N, 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.