



# Kerr-McGee Oil & Gas Onshore LP

A subsidiary of Anadarko Petroleum Corporation

1099 18<sup>th</sup> Street  
Denver, CO 80202  
720-929-6000

May 7, 2014

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

Re: **30 Day Certification Letter - 318A-e**  
VOGL STATE 16C-36HZ  
Township 3 North, Range 68 West, Section 36: SW/4SW/4  
Unit Spacing: 03N-68W-Sec 35 SE/4SE/4  
03N-68W-Sec 36 S/2S/2  
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,

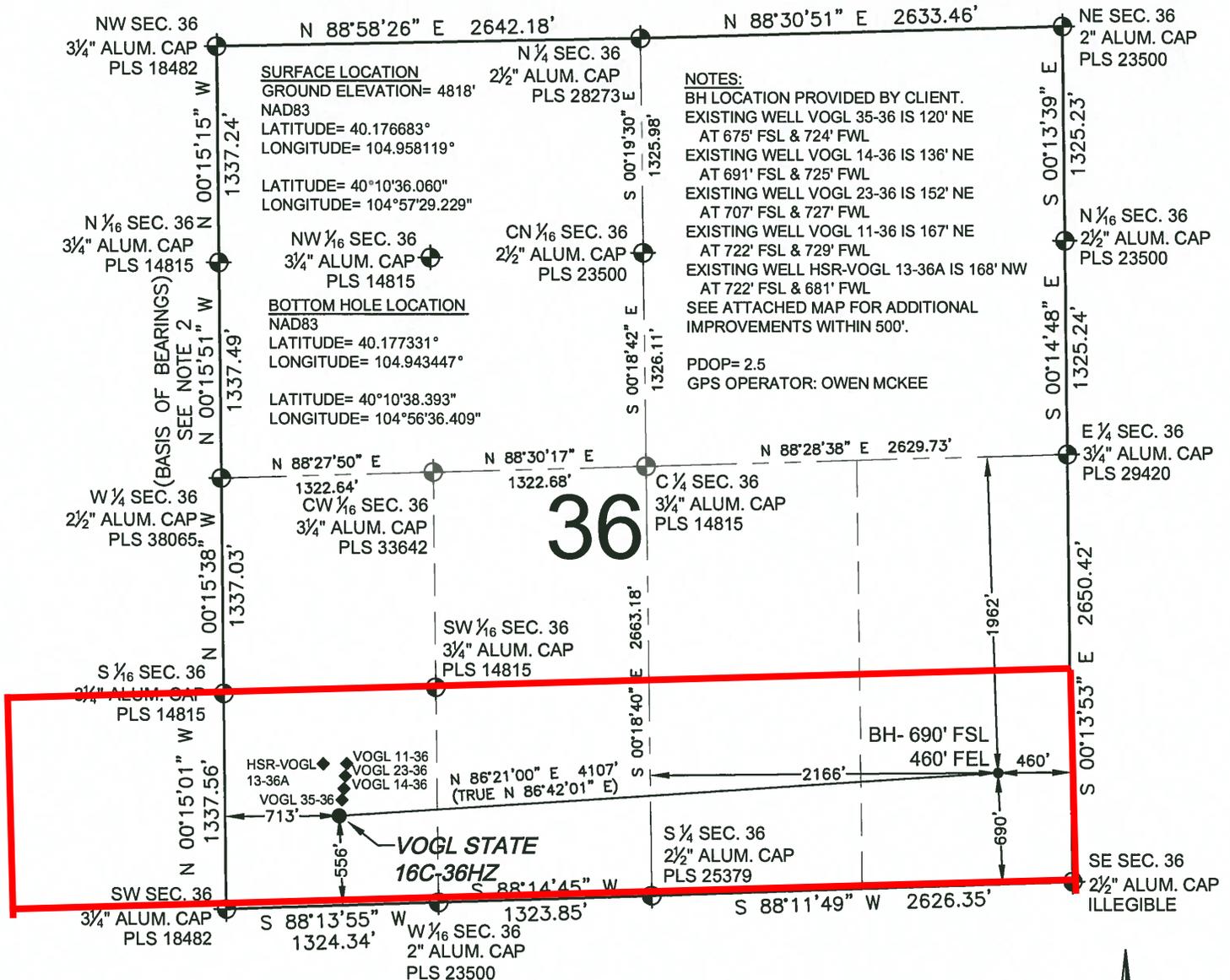
KERR-McGEE OIL AND GAS ONSHORE LP

A handwritten signature in blue ink that reads "Cheryl Light".

Cheryl Light  
Senior Regulatory Analyst

# WELL LOCATION CERTIFICATE: VOGL STATE 16C-36HZ

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



NW SEC. 36  
3/4" ALUM. CAP  
PLS 18482

N 88°58'26" E 2642.18'

N 1/4 SEC. 36  
2 1/2" ALUM. CAP  
PLS 28273 E

NE SEC. 36  
2" ALUM. CAP  
PLS 23500

N 88°30'51" E 2633.46'

**SURFACE LOCATION**  
 GROUND ELEVATION= 4818'  
 NAD83  
 LATITUDE= 40.176683°  
 LONGITUDE= 104.958119°

**NOTES:**  
 BH LOCATION PROVIDED BY CLIENT.  
 EXISTING WELL VOGL 35-36 IS 120' NE  
 AT 675' FSL & 724' FWL  
 EXISTING WELL VOGL 14-36 IS 136' NE  
 AT 691' FSL & 725' FWL  
 EXISTING WELL VOGL 23-36 IS 152' NE  
 AT 707' FSL & 727' FWL  
 EXISTING WELL VOGL 11-36 IS 167' NE  
 AT 722' FSL & 729' FWL  
 EXISTING WELL HSR-VOGL 13-36A IS 168' NW  
 AT 722' FSL & 681' FWL  
 SEE ATTACHED MAP FOR ADDITIONAL  
 IMPROVEMENTS WITHIN 500'.  
 PDOP= 2.5  
 GPS OPERATOR: OWEN MCKEE

N 1/6 SEC. 36  
3/4" ALUM. CAP  
PLS 14815

NW 1/6 SEC. 36  
3/4" ALUM. CAP  
PLS 14815

CN 1/6 SEC. 36  
2 1/2" ALUM. CAP  
PLS 23500

**BOTTOM HOLE LOCATION**  
 NAD83  
 LATITUDE= 40.177331°  
 LONGITUDE= 104.943447°

LATITUDE= 40°10'36.060"  
 LONGITUDE= 104°57'29.229"

LATITUDE= 40°10'38.393"  
 LONGITUDE= 104°56'36.409"

N 1/6 SEC. 36  
2 1/2" ALUM. CAP  
PLS 38065

W 1/6 SEC. 36  
3/4" ALUM. CAP  
PLS 33642

SW 1/6 SEC. 36  
3/4" ALUM. CAP  
PLS 14815

C 1/4 SEC. 36  
3/4" ALUM. CAP  
PLS 14815

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

S 1/6 SEC. 36  
3/4" ALUM. CAP  
PLS 14815

SW 1/6 SEC. 36  
3/4" ALUM. CAP  
PLS 18482

W 1/6 SEC. 36  
2" ALUM. CAP  
PLS 23500

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

N 88°27'50" E 1322.64'

N 88°30'17" E 1322.68'

N 88°28'38" E 2629.73'

N 00°15'15" W 1337.24'

N 00°15'51" W 1337.49'

N 00°15'38" W 1337.03'

N 00°15'01" W 1337.56'

N 00°13'39" E 1325.23'

N 00°14'48" E 1325.24'

S 00°18'42" E 1326.11'

S 00°18'40" E 2663.18'

S 00°13'53" E 2650.42'

N 86°21'00" E 4107'  
(TRUE N 86°42'01" E)

BH- 690' FSL  
460' FEL

2166'

460'

690'

1962'

556'

713'

1322.64'

1322.68'

1323.85'

1324.34'

1326.11'

2629.73'

2626.35'

2663.18'

2650.42'

2642.18'

2633.46'

2629.73'

2626.35'

1337.24'

1337.49'

1337.03'

1337.56'

1325.23'

1325.24'

1326.11'

2663.18'

2650.42'

4107'

460'

690'

1962'

556'

713'

**LEGEND**

- ⊕ = EXISTING MONUMENT
- ⬤ = PROPOSED WELL
- BH = BOTTOM HOLE
- ⬥ = BOTTOM HOLE
- ◆ = EXISTING WELL

**NOTES:**

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- BEARINGS AND DISTANCE SHOWN HEREON ARE GRID AND BASED ON THE COLORADO STATE PLANE COORDINATE SYSTEM, NAD 83/2011 BETWEEN MONUMENTS AS LABELED HEREON AND ELEVATIONS SHOWN ARE NAVD 88, AS DERIVED BY GPS OBSERVATIONS.
- GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES.

**BRADLEY L. LAMAN, PLS 38345**  
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
 FOR AND ON BEHALF OF P.F.S., LLC

**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.

**PREPARED BY:** PFS Petroleum Field Services, LLC, 1801 W. 13th Ave. Denver, CO 80204

**FIELD DATE:** 03-20-14

**DRAWING DATE:** 03-21-14

**BY:** SMF

**CHECKED:** JAH

**SURFACE LOCATION:** SW 1/4, SW 1/4, SEC. 36, T3N, R68W, 6TH P.M. WELD COUNTY, COLORADO

**COLORADO LICENSED PROFESSIONAL LAND SURVEYOR**  
 BRADLEY LANCE LAMAN  
 3/25/14  
 38345

**SCALE: 1"=1000'**