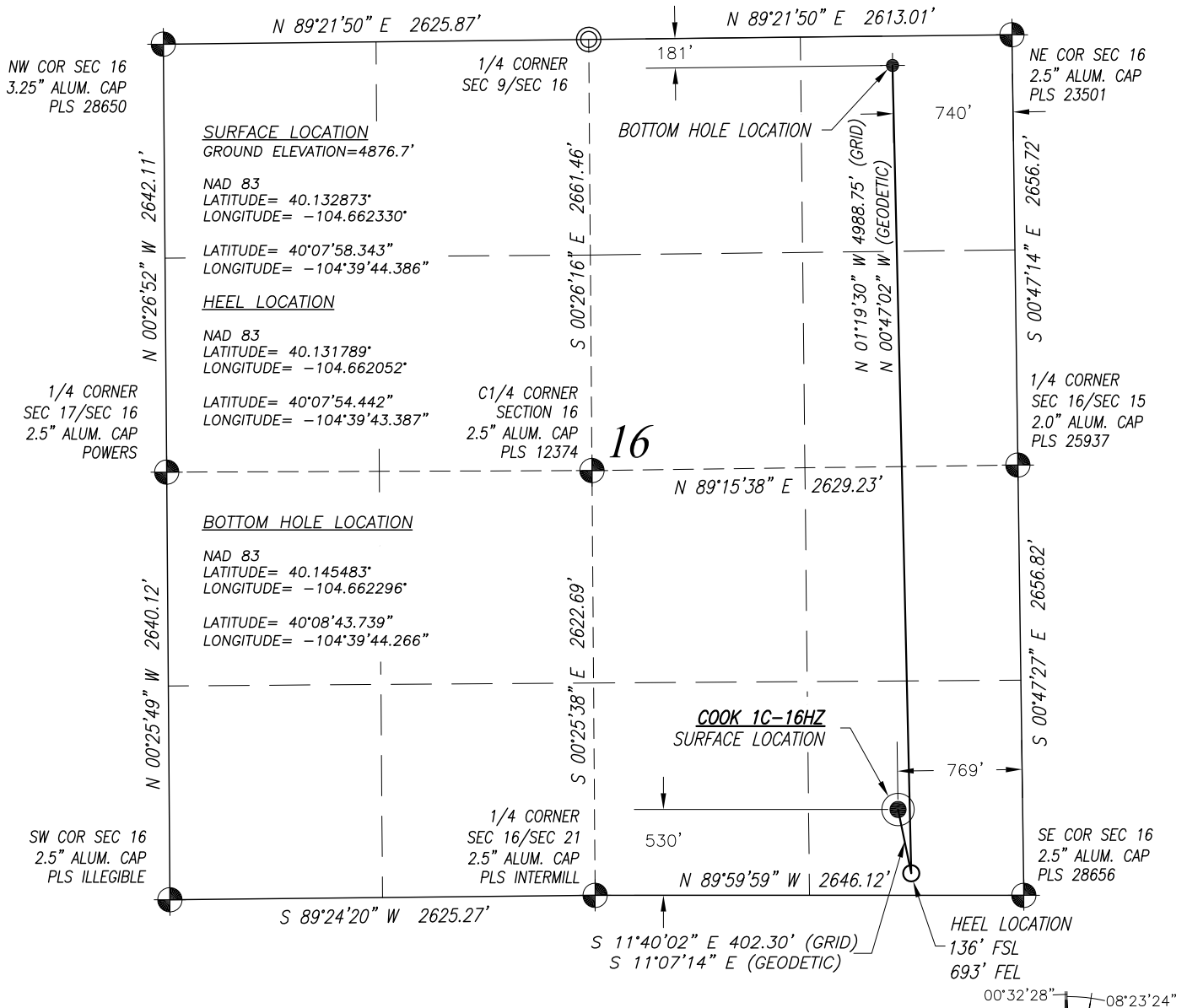
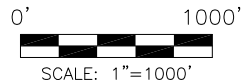


SECTION 16, TOWNSHIP 2 NORTH, RANGE 65 WEST, 6TH P.M.





I, hereby certify to KERR-McGEE OIL & GAS ONSHORE L.P., that this Well Location Certificate was prepared under my direct supervision and that the drawing accurately depicts the proposed location of the well.

FOR AND ON BEHALF OF ACKLAM, INC.  
195 Telluride Street Suite 7  
Brighton CO 80601



EQUATION:  
MAGNETIC AZIMUTH=GRID AZIMUTH-08°23'24"  
GEODETIC AZIMUTH=GRID AZIMUTH+00°32'28"

NOTES:

1.  Found Section Corner
2.  Calculated Section Corner
3. Basis of Elevations: NAVD88 (GEOID12).
4. Basis of Bearings: Colorado coordinate system 1983 north zone ('GRID').
5. Basis of Distances: GRID; Combined Factor=0.999728637
6. GPS Operator: M.W. PDOP < 3.0
7. See attachments for existing improvements within 500 feet of the well pad.
8. Well footages are measured at right angles to the section lines.
9. The Bottom Hole Location bears N 00°25'27" W 4593.56' from the Surface Location.

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 the date of the certification shown hereon.

*SHEET 1 OF 1*

PREPARED FOR:
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**Kerr-McGee Oil &  
Gas Onshore L.P.**  
1099 18th Street  
Denver, Colorado 80202

*Acklam, Inc.*

DATE SURVEYED: 12/15/2014

DATE DRAFTED: 03/06/2015

DRAFTED BY: PAV	CHK BY: MAH
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JOB No. 14506

REVISÉ: 4/23/2015

# WELL LOCATION CERTIFICATE

COOK 1C-16HZ

SURFACE 530' FSL 769' FEL SEC. 16  
GROUND ELEVATION=4876.7'

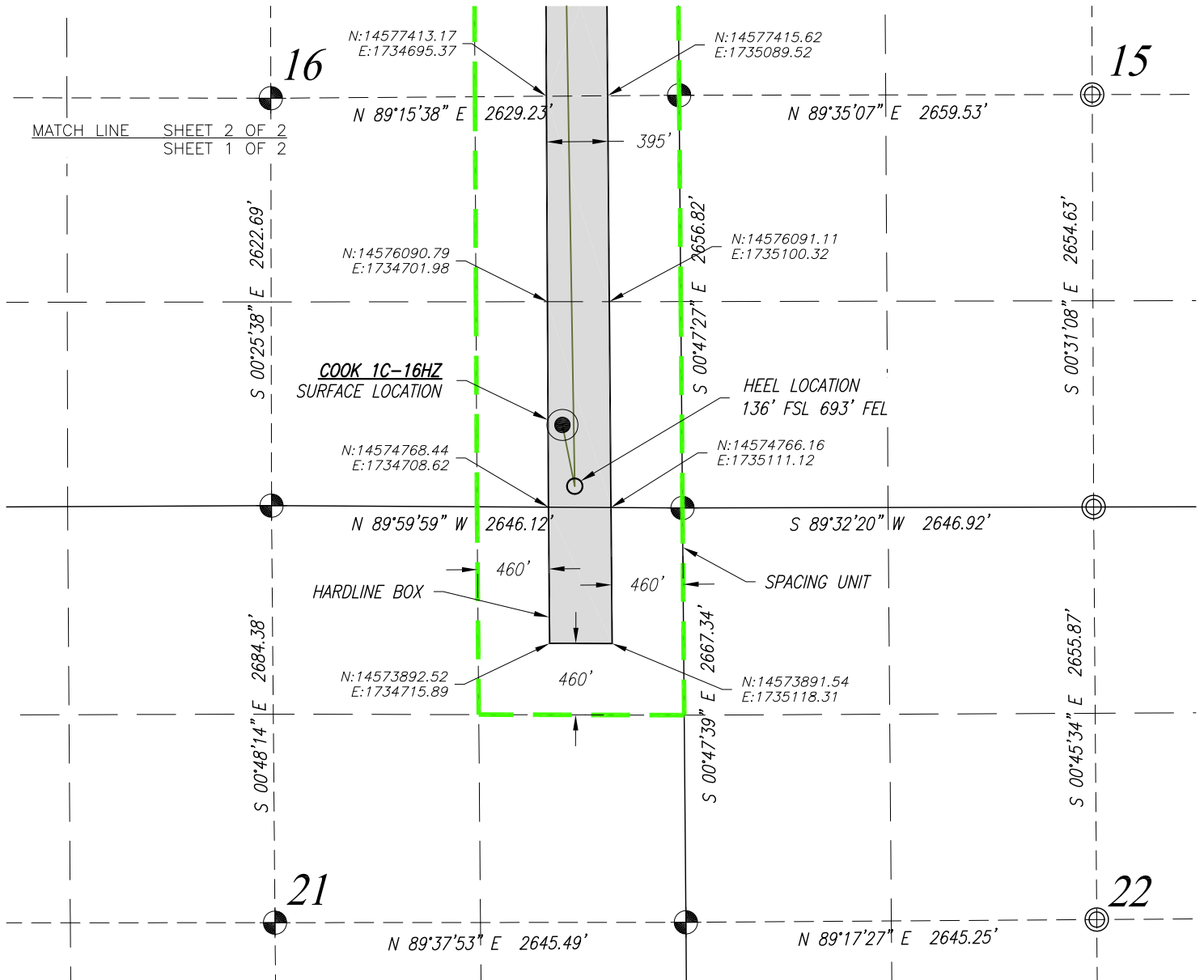
HEEL 136' FSL 693' FEL SEC. 16

BOTTOM 181' FNL 740' FEL SEC. 16

SE1/4 SE1/4

SECTION 16, T2N, R65W, 6TH PM  
WELD COUNTY, COLORADO

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



## HEEL LOCATION

N: 14,574,903.44'  
E: 1,734,877.24'

LATITUDE= 40.131789°  
LONGITUDE= -104.662052°

LATITUDE= 40°07'54.442"  
LONGITUDE= -104°39'43.387"

## BOTTOM HOLE LOCATION

N: 14,579,889.70'  
E: 1,734,790.07'

LATITUDE= 40.145483°  
LONGITUDE= -104.662296°

LATITUDE= 40°08'43.739"  
LONGITUDE= -104°39'44.266"

## NOTES:

1. Found Section Corner
2. Calculated Section Corner
3. Basis of Bearings: Colorado coordinate system 1983 north zone ("GRID")
4. Basis of Distances: GRID; Combined Factor=0.999728637
5. Basis of coordinates: UTM ZONE 13 NAD 83

PREPARED FOR:

**KerrMcGee**  
**Kerr-McGee Oil & Gas Onshore L.P.**  
1099 18th Street  
Denver, Colorado 80202

**Acklam, Inc.**

DATE SURVEYED: 12/15/2014

DATE DRAFTED: 04/14/2015

DRAFTED BY: FWM CHK BY: MAH

JOB No. 14506

REVISED: 4/24/2015

## SPACING UNIT EXHIBIT

### COOK 1C-16HZ

SURFACE 530' FSL 769' FEL SEC. 16  
GROUND ELEVATION=4876.7'

HEEL 136' FSL 693' FEL SEC. 16  
BOTTOM 181' FNL 740' FEL SEC. 16

SE1/4 SE1/4  
SECTION 16, T2N, R65W, 6TH PM  
WELD COUNTY, COLORADO

0' 1000'  
SCALE: 1"=1000'



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