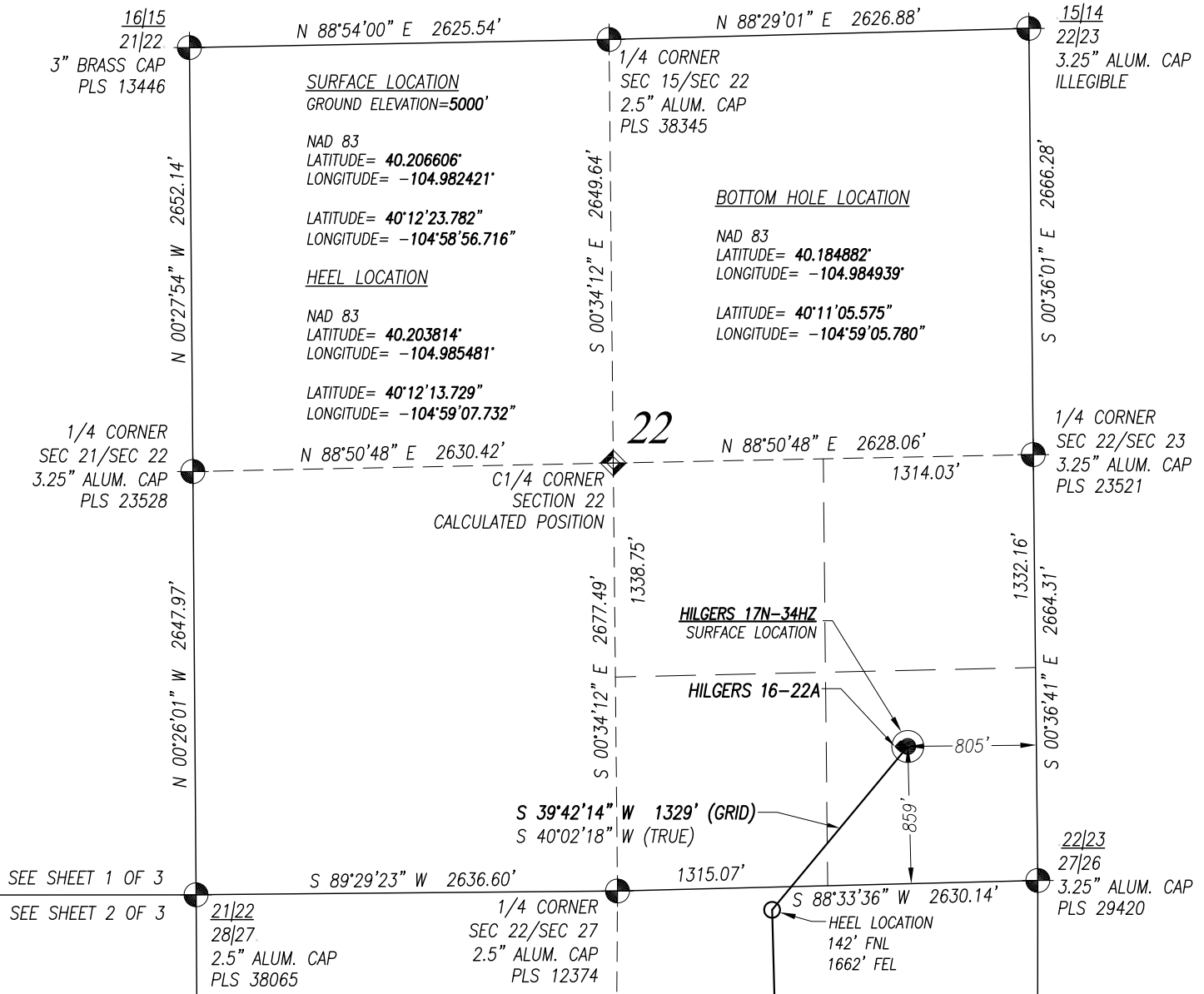


# WELL LOCATION CERTIFICATE: HILGERS 17N-34HZ

## SECTION 22, TOWNSHIP 3 NORTH, RANGE 68 WEST, 6TH P.M.



**SURVEYOR'S CERTIFICATION:**  
I, Douglas W. Chinn, 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. 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.



Douglas W. Chinn, PLS #37070  
FOR AND ON BEHALF OF ACKLAM, INC.  
195 Telluride Street Suite 7  
Brighton CO 80601

### NOTES:

- Found Section Corner
- Calculated Section Corner
- Basis of Elevations: NAVD88 (GEOID12).
- Basis of Bearings: Colorado coordinate system 1983 north zone ("GRID").
- Basis of Distances: GRID; Combined Factor=0.999717864.
- GPS Operator: **Jeff Hawkins** PDOP 2.1
- See attachments for existing improvements within 500 feet of the well pad.
- Well footages are measured at right angles to the section lines.
- The Bottom Hole Location bears **S 04°44'43" W 7945'** from the Surface Location.
- Existing well Hilgers 16-22A bears **N 89°57'47" W 45'** 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 3

PREPARED FOR:

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

**Acklam, Inc.**

DATE SURVEYED: 06/25/2015

DATE DRAFTED: 09/17/2015

DRAFTED BY: SMF CHK BY: JMP

JOB No. 155004 REVISED: 10/26/2016

### WELL LOCATION CERTIFICATE

**HILGERS 17N-34HZ**

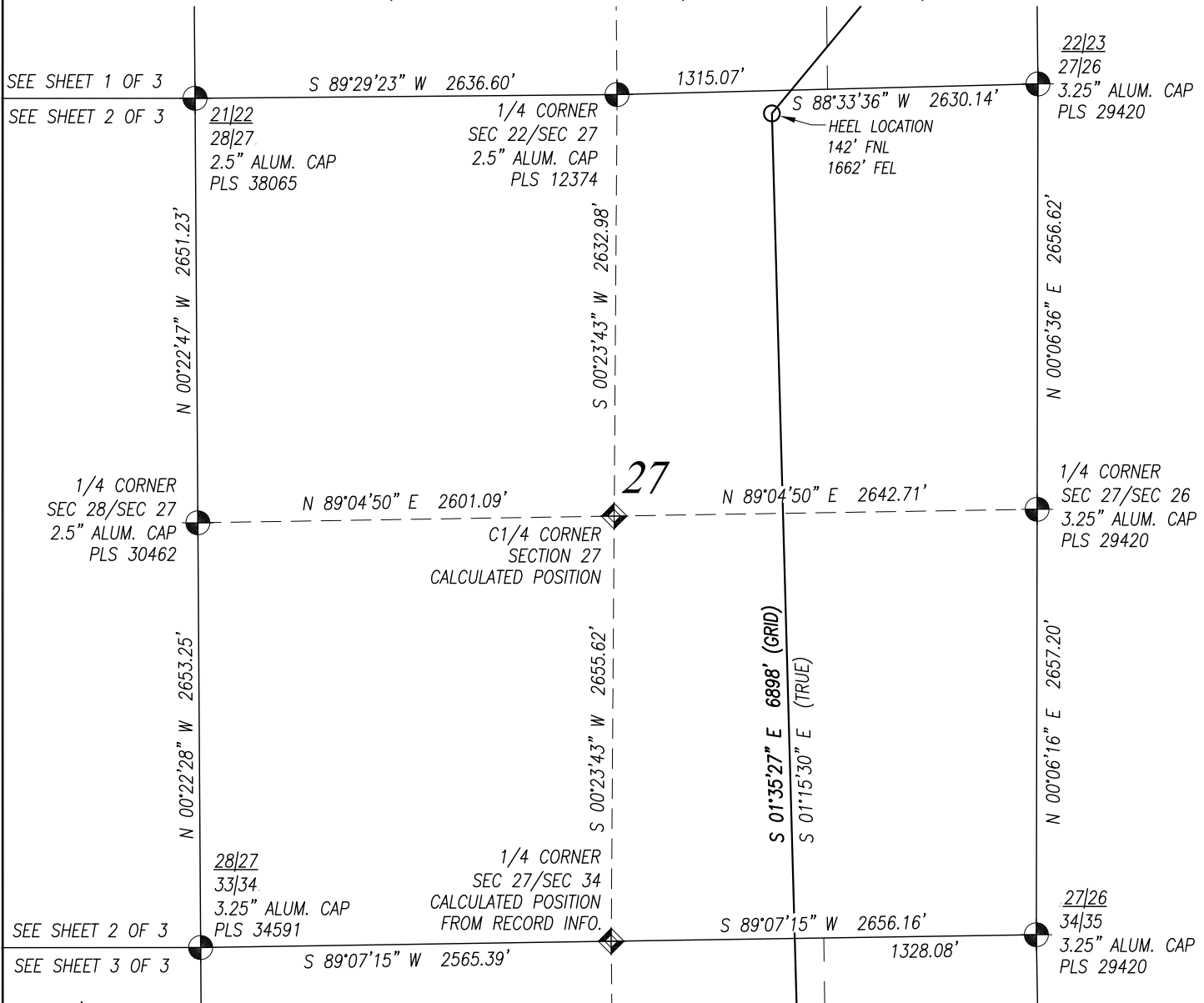
**SURFACE** 859' FSL 805' FEL SEC. 22  
GROUND ELEVATION=5000'

**HEEL** 142' FNL 1662' FEL SEC. 27  
**BOTTOM HOLE** 1743' FNL 1490' FEL SEC. 34

SE1/4 SE1/4  
SECTION 22, T3N, R68W, 6TH PM  
WELD COUNTY, COLORADO

# WELL LOCATION CERTIFICATE: HILGERS 17N-34HZ

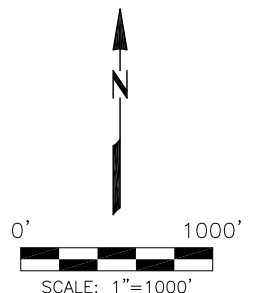
## SECTION 27, TOWNSHIP 3 NORTH, RANGE 68 WEST, 6TH P.M.



### SURVEYOR'S CERTIFICATION:

I, Douglas W. Chinn, 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. 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.

Douglas W. Chinn, PLS #37070  
FOR AND ON BEHALF OF ACKLAM, INC.  
195 Telluride Street Suite 7  
Brighton CO 80601



PREPARED FOR:

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

**Acklam, Inc.**

DATE SURVEYED: 06/25/2015

DATE DRAFTED: 09/17/2015

DRAFTED BY: SMF CHK BY: JMP

JOB No. 155004 REVISED: 10/26/2016

### WELL LOCATION CERTIFICATE

**HILGERS 17N-34HZ**

**SURFACE** 859' FSL 805' FEL SEC. 22  
GROUND ELEVATION=5000'

**HEEL** 142' FNL 1662' FEL SEC. 27  
**BOTTOM HOLE** 1743' FNL 1490' FEL SEC. 34

**SE1/4 SE1/4**  
**SECTION 22, T3N, R68W, 6TH PM**  
**WELD COUNTY, COLORADO**

### NOTES:

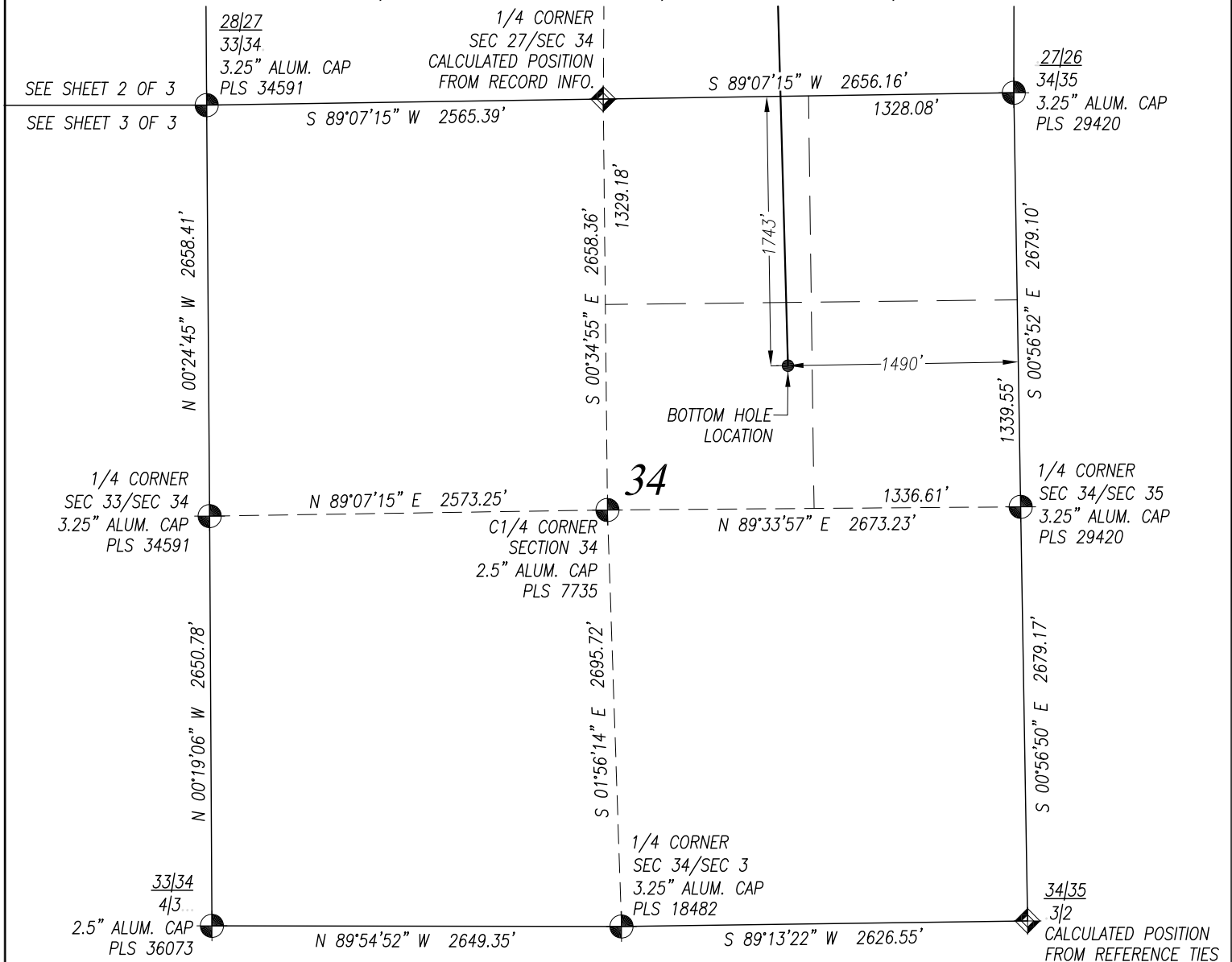
- Found Section Corner
- Calculated Section Corner
- Basis of Elevations: NAVD88 (GEOID12).
- Basis of Bearings: Colorado coordinate system 1983 north zone ("GRID").
- Basis of Distances: GRID; Combined Factor=0.999717864.
- GPS Operator: **Jeff Hawkins** PDOP **2.1**
- See attachments for existing improvements within 500 feet of the well pad.
- Well footages are measured at right angles to the section lines.
- The Bottom Hole Location bears **S 04°44'43" W 7945'** from the Surface Location.
- Existing well Hilgers 16-22A bears **N 89°57'47" W 45'** 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 2 OF 3**

# WELL LOCATION CERTIFICATE: HILGERS 17N-34HZ

## SECTION 34, TOWNSHIP 3 NORTH, RANGE 68 WEST, 6TH P.M.



**SURVEYOR'S CERTIFICATION:**  
 I, Douglas W. Chinn, 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. 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.



Douglas W. Chinn, PLS #37070  
 FOR AND ON BEHALF OF ACKLAM, INC.  
 195 Telluride Street Suite 7  
 Brighton CO 80601

### NOTES:

- Found Section Corner
- Calculated Section Corner
- Basis of Elevations: NAVD88 (GEOID12).
- Basis of Bearings: Colorado coordinate system 1983 north zone ("GRID").
- Basis of Distances: GRID; Combined Factor=0.999717864.
- GPS Operator: **Jeff Hawkins** PDOP **2.1**
- See attachments for existing improvements within 500 feet of the well pad.
- Well footages are measured at right angles to the section lines.
- The Bottom Hole Location bears **S 04°44'43" W 7945'** from the Surface Location.
- Existing well Hilgers 16-22A bears **N 89°57'47" W 45'** 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 3 OF 3**

PREPARED FOR:

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

**Acklam, Inc.**

DATE SURVEYED: 06/25/2015

DATE DRAFTED: 09/17/2015

DRAFTED BY: SMF CHK BY: JMP

JOB No. 155004

REVISED: 10/26/2016

### WELL LOCATION CERTIFICATE

**HILGERS 17N-34HZ**

**SURFACE** 859' FSL 805' FEL SEC. 22  
 GROUND ELEVATION=5000'

**HEEL** 142' FNL 1662' FEL SEC. 27  
**BOTTOM HOLE** 1743' FNL 1490' FEL SEC. 34

**SE1/4 SE1/4**  
**SECTION 22, T3N, R68W, 6TH PM**  
**WELD COUNTY, COLORADO**