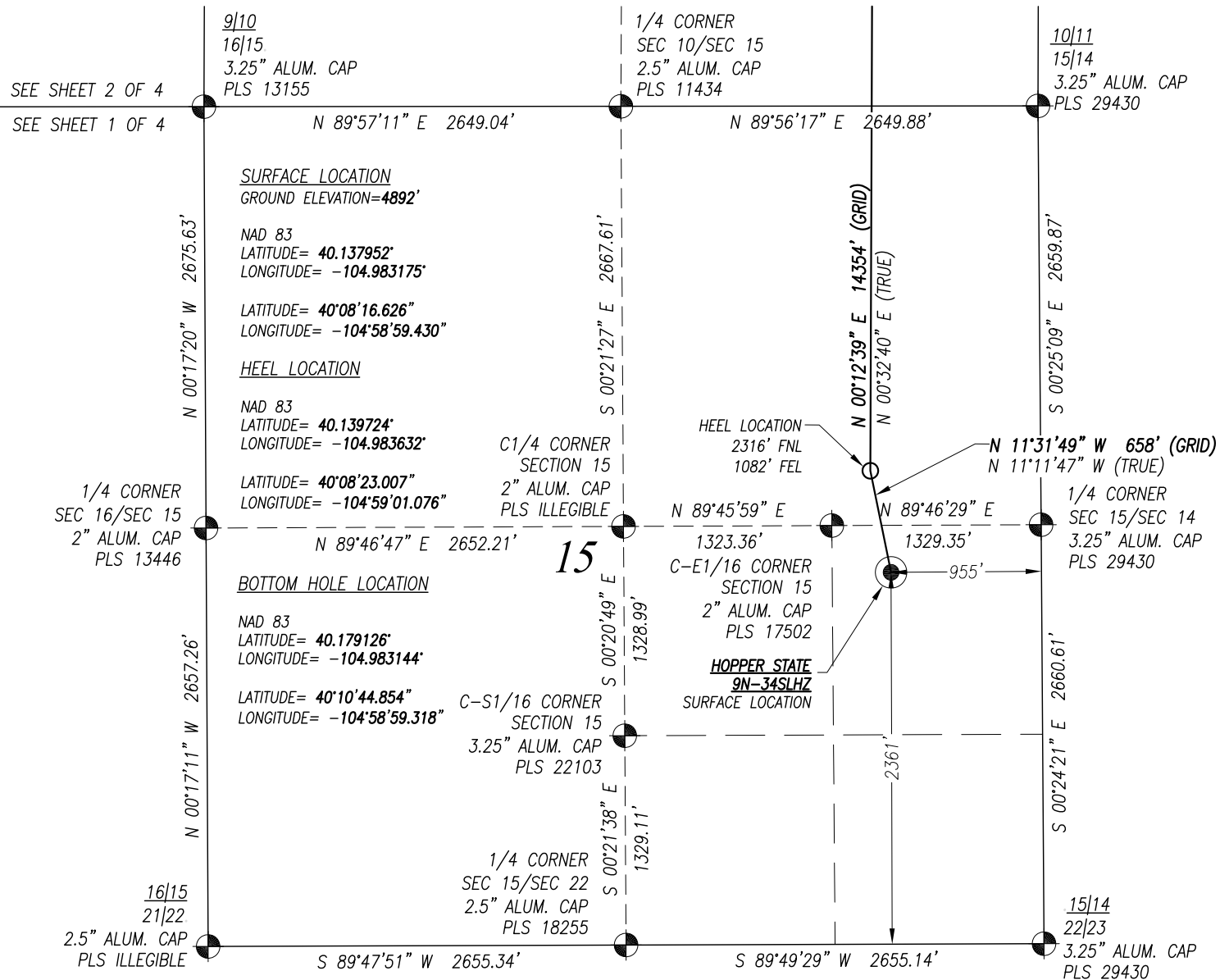


WELL LOCATION CERTIFICATE: HOPPER STATE 9N-34SLHZ  
SECTION 15, TOWNSHIP 2 NORTH, RANGE 68 WEST, 6TH P.M.





I, Mark A. Hall, 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.

Mark A. Hall, PLS #36073  
FOR AND ON BEHALF OF ACKLAM, INC.  
195 Telluride Street Suite 7  
Brighton CO 80601



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=0.999728652
6. GPS Operator: **Monty Wallace** PDOP **1.9**
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°18'03" W 14999'** 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 4*

PREPARED FOR:

# WELL LOCATION CERTIFICATE

HOPPER STATE 9N-34SLHZ

SURFACE 2361' FSL 955' FEL SEC. 15  
GROUND ELEVATION=4892'

HEEL 2316' FNL 1082' FEL SEC. 15  
BOTTOM HOLE 1512' FSL 1011' FEL SEC. 34

NE1/4 SE1/4  
SECTION 15, T2N, R68W, 6TH PM  
WELD COUNTY, COLORADO

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

*Acklam, Inc.*

DATE SURVEYED: 08/21/2015

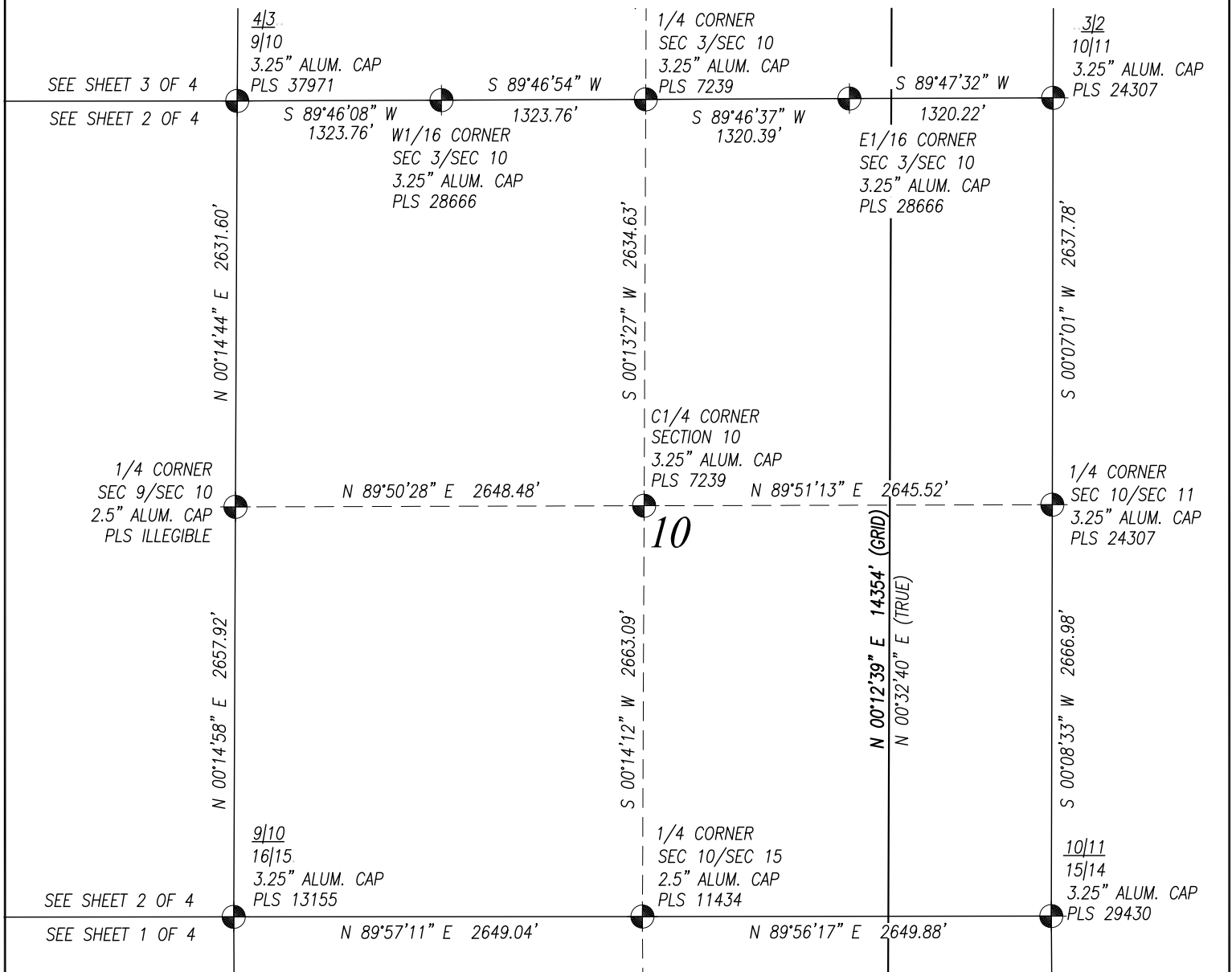
DATE DRAFTED: 09/17/2015

DRAFTED BY: SMF	CHK BY: JAM
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JOB No. 155003	REVISED: 11/12/2015
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# WELL LOCATION CERTIFICATE: HOPPER STATE 9N-34SLHZ

## SECTION 10, TOWNSHIP 2 NORTH, RANGE 68 WEST, 6TH P.M.



Mark A. Hall, PLS #36073  
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: 08/21/2015

DATE DRAFTED: 09/17/2015

DRAFTED BY: SMF CHK BY: JAM

JOB No. 155003

REVISED: 11/12/2015

### WELL LOCATION CERTIFICATE

#### HOPPER STATE 9N-34SLHZ

**SURFACE** 2361' FSL 955' FEL SEC. 15  
GROUND ELEVATION=4892'

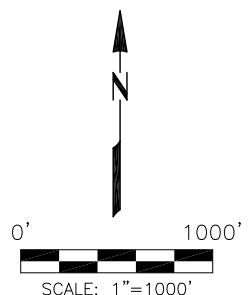
**HEEL** 2316' FNL 1082' FEL SEC. 15  
**BOTTOM HOLE** 1512' FSL 1011' FEL SEC. 34

**NE1/4 SE1/4**  
**SECTION 15, T2N, R68W, 6TH PM**  
**WELD COUNTY, COLORADO**

#### NOTES:

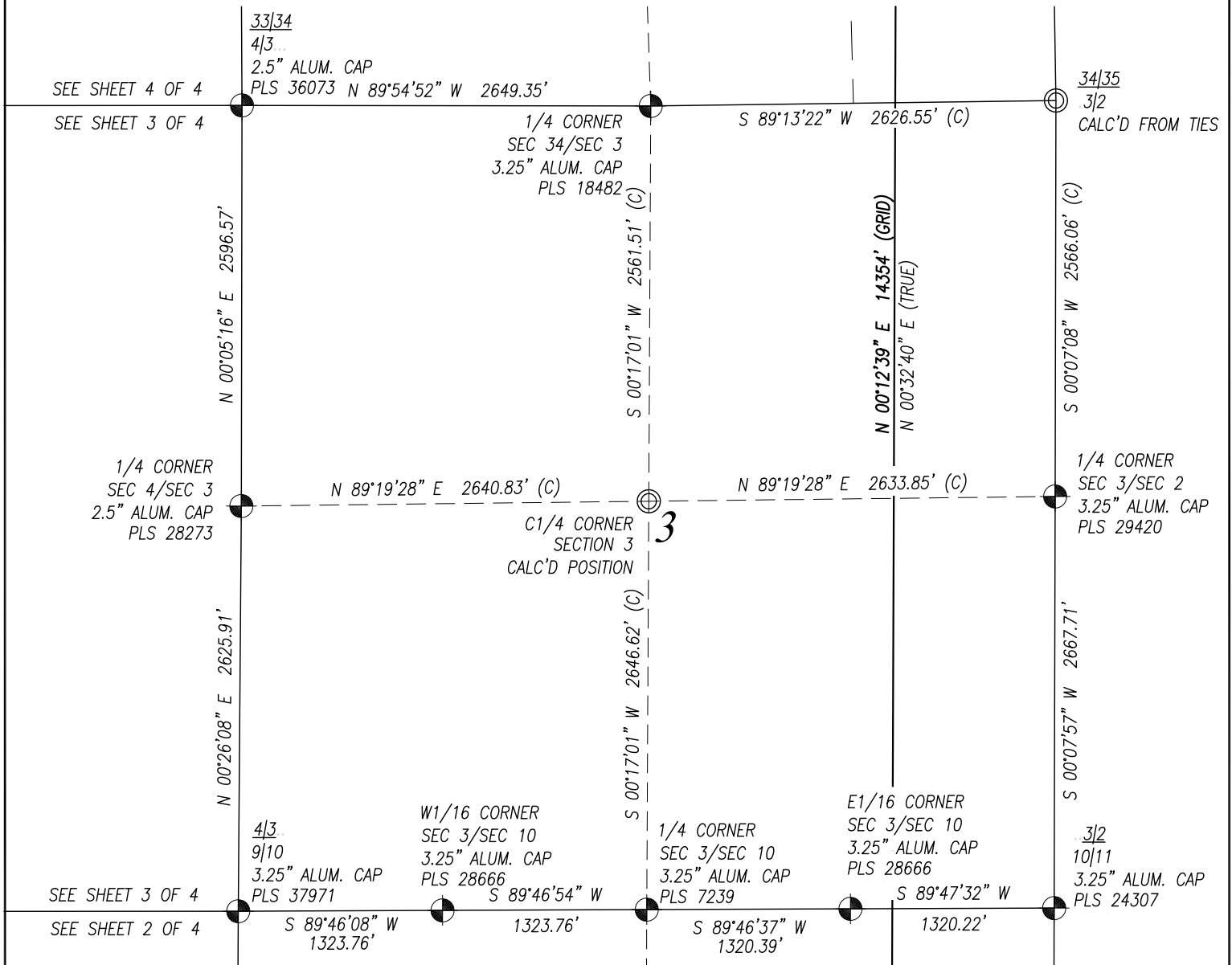
- Found Section Corner
- Calculated Section Corner
- Basis of Elevations: NAVD88 (GEOID12).
- Basis of Bearings: Colorado coordinate system 1983 north zone ("GRID").
- Basis of Distances: GRID; Combined Factor=0.999728652
- GPS Operator: **Monty Wallace** PDOP **1.9**
- See attachments for existing improvements within 500 feet of the well pad.
- Well footages are measured at right angles to the section lines.
- The Bottom Hole Location bears **N 00°18'03" W 14999'** 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.



# WELL LOCATION CERTIFICATE: HOPPER STATE 9N-34SLHZ

## SECTION 3, TOWNSHIP 2 NORTH, RANGE 68 WEST, 6TH P.M.



Mark A. Hall, PLS #36073  
FOR AND ON BEHALF OF ACKLAM, INC.  
195 Telluride Street Suite 7  
Brighton CO 80601

PREPARED FOR:

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

**Acklam, Inc.**

DATE SURVEYED: 08/21/2015

DATE DRAFTED: 09/17/2015

DRAFTED BY: SMF CHK BY: JAM

JOB No. 155003 REVISED: 11/12/2015

### WELL LOCATION CERTIFICATE

**HOPPER STATE 9N-34SLHZ**

**SURFACE** 2361' FSL 955' FEL SEC. 15  
GROUND ELEVATION=4892'

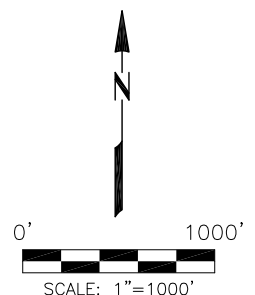
**HEEL** 2316' FNL 1082' FEL SEC. 15  
**BOTTOM HOLE** 1512' FSL 1011' FEL SEC. 34

**NE1/4 SE1/4**  
**SECTION 15, T2N, R68W, 6TH PM**  
**WELD COUNTY, COLORADO**

#### NOTES:

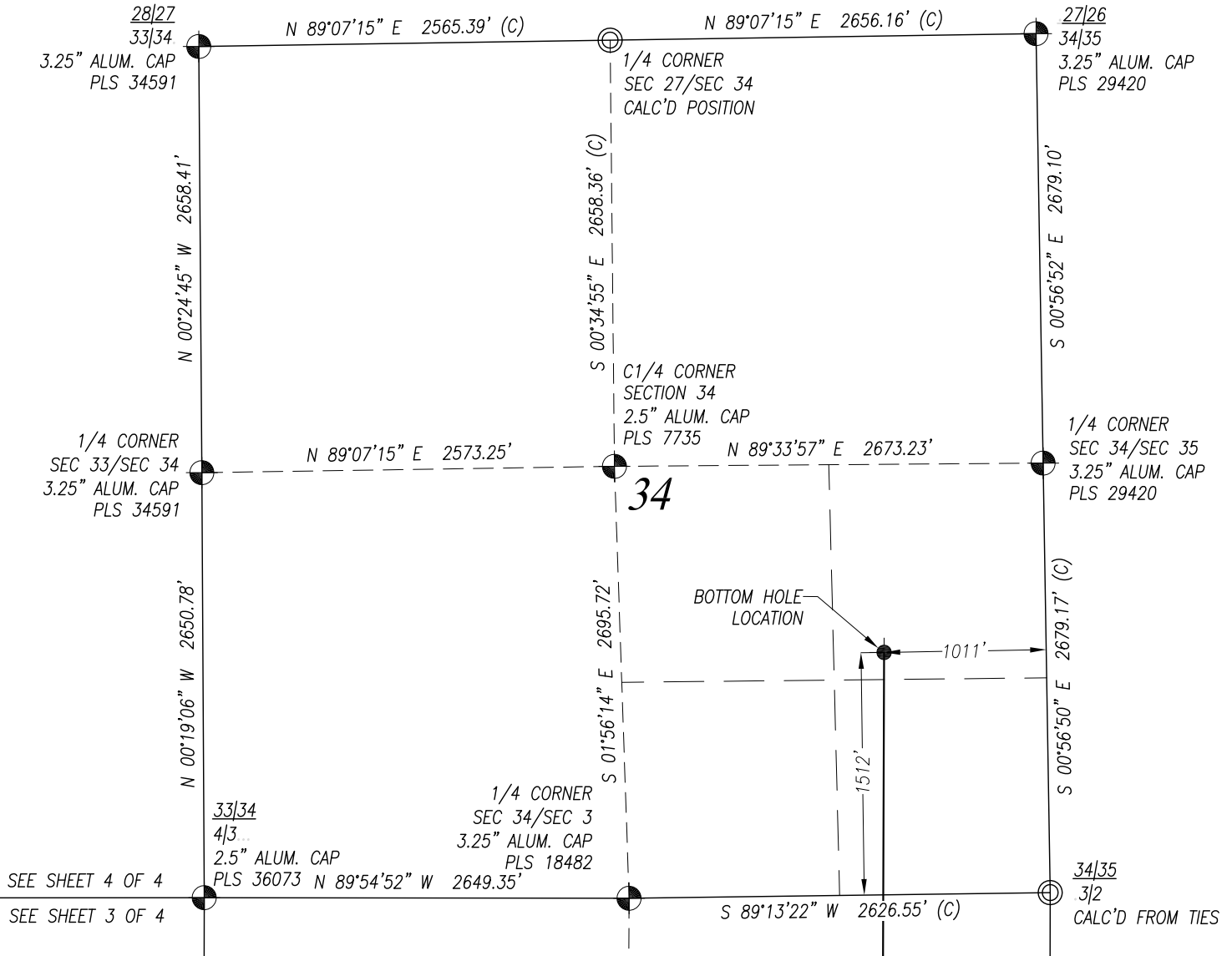
- Found Section Corner
- Calculated Section Corner
- Basis of Elevations: NAVD88 (GEOID12).
- Basis of Bearings: Colorado coordinate system 1983 north zone ("GRID").
- Basis of Distances: GRID; Combined Factor=0.999728652
- GPS Operator: **Monty Wallace** PDOP 1.9
- See attachments for existing improvements within 500 feet of the well pad.
- Well footages are measured at right angles to the section lines.
- The Bottom Hole Location bears **N 00°18'03" W 14999'** from the Surface Location.

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# WELL LOCATION CERTIFICATE: HOPPER STATE 9N-34SLHZ

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



Mark A. Hall, PLS #36073  
FOR AND ON BEHALF OF ACKLAM, INC.  
195 Telluride Street Suite 7  
Brighton CO 80601

PREPARED FOR:

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

**Acklam, Inc.**

DATE SURVEYED: 08/21/2015

DATE DRAFTED: 09/17/2015

DRAFTED BY: SMF CHK BY: JAM

JOB No. 155003

REVISED: 11/12/2015

### WELL LOCATION CERTIFICATE

**HOPPER STATE 9N-34SLHZ**

**SURFACE** 2361' FSL 955' FEL SEC. 15  
GROUND ELEVATION=4892'

**HEEL** 2316' FNL 1082' FEL SEC. 15  
**BOTTOM HOLE** 1512' FSL 1011' FEL SEC. 34

**NE1/4 SE1/4**  
**SECTION 15, T2N, 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=0.999728652
- GPS Operator: **Monty Wallace** PDOP **1.9**
- 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 **N 00°18'03" W 14999'** 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.

