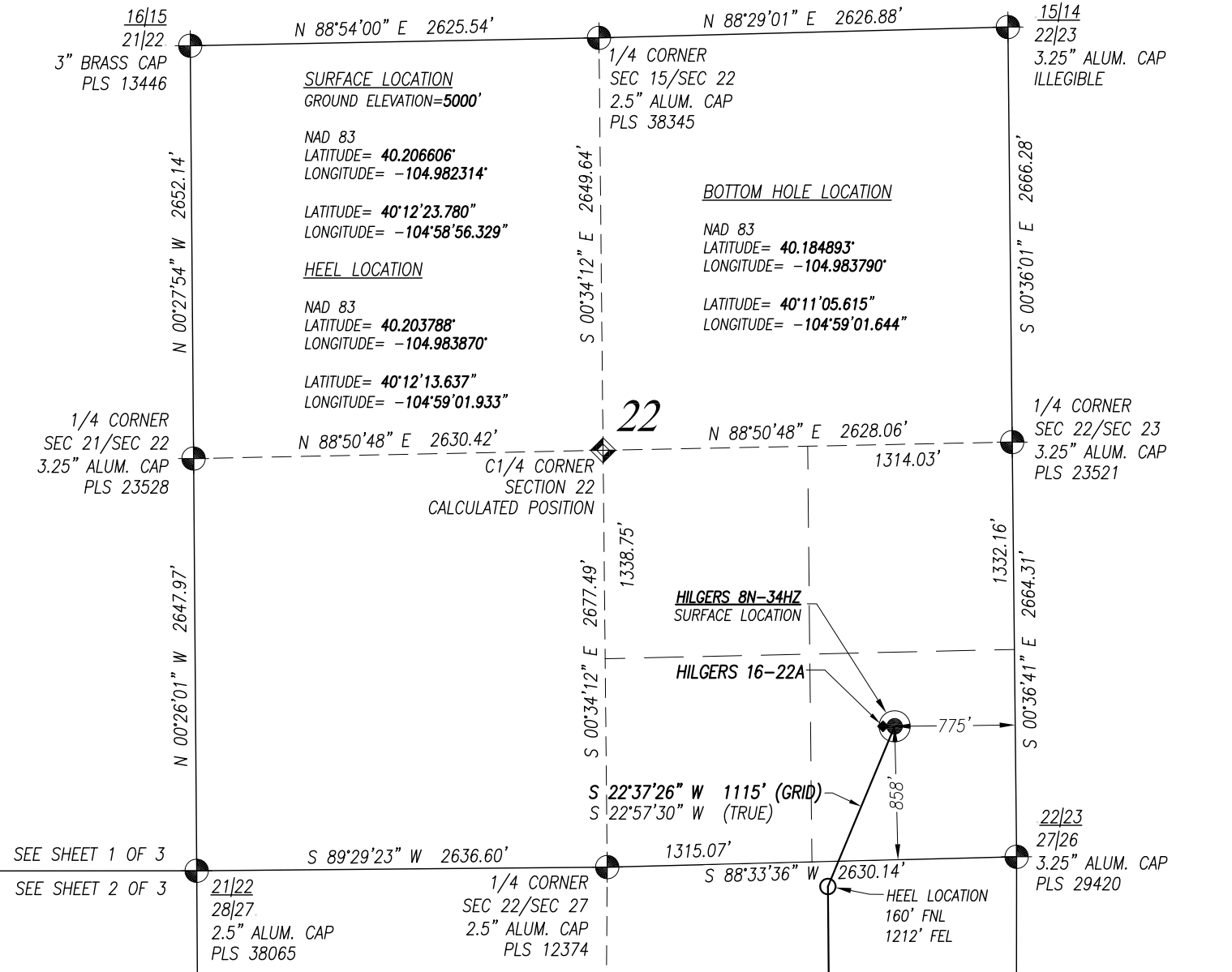


# WELL LOCATION CERTIFICATE: HILGERS 8N-34HZ

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

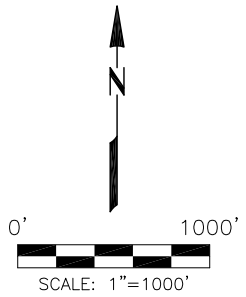


**SURVEYOR'S CERTIFICATION:**  
 I, Douglas W. Chinn, a licensed professional land surveyor in the state of Colorado do hereby certify to KERR-MCGEE OIL & GAS ONSHORE LP that the survey and well location certificate shown hereon were done by me or under my direct supervision and that the drawing shown 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:**  
 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=0.999717864.  
 6. GPS Operator: **Jeff Hawkins PDOP 2.1**  
 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 **S 02°39'02" W 7920'** from the Surface Location.  
 10. Existing well Hilgers 16-22A bears **N 89°59'13" W 75'** from the Surface Location.



PREPARED FOR:	
 <b>Kerr-McGee Oil &amp; Gas Onshore L.P.</b> 1099 18th Street Denver, Colorado 80202	
<b>Acklam, Inc.</b>	
DATE SURVEYED: 06/25/2015	
DATE DRAFTED: 09/17/2015	
DRAFTED BY: SMF	CHK BY: JMP
JOB No. 155004	REVISED: 10/26/2016

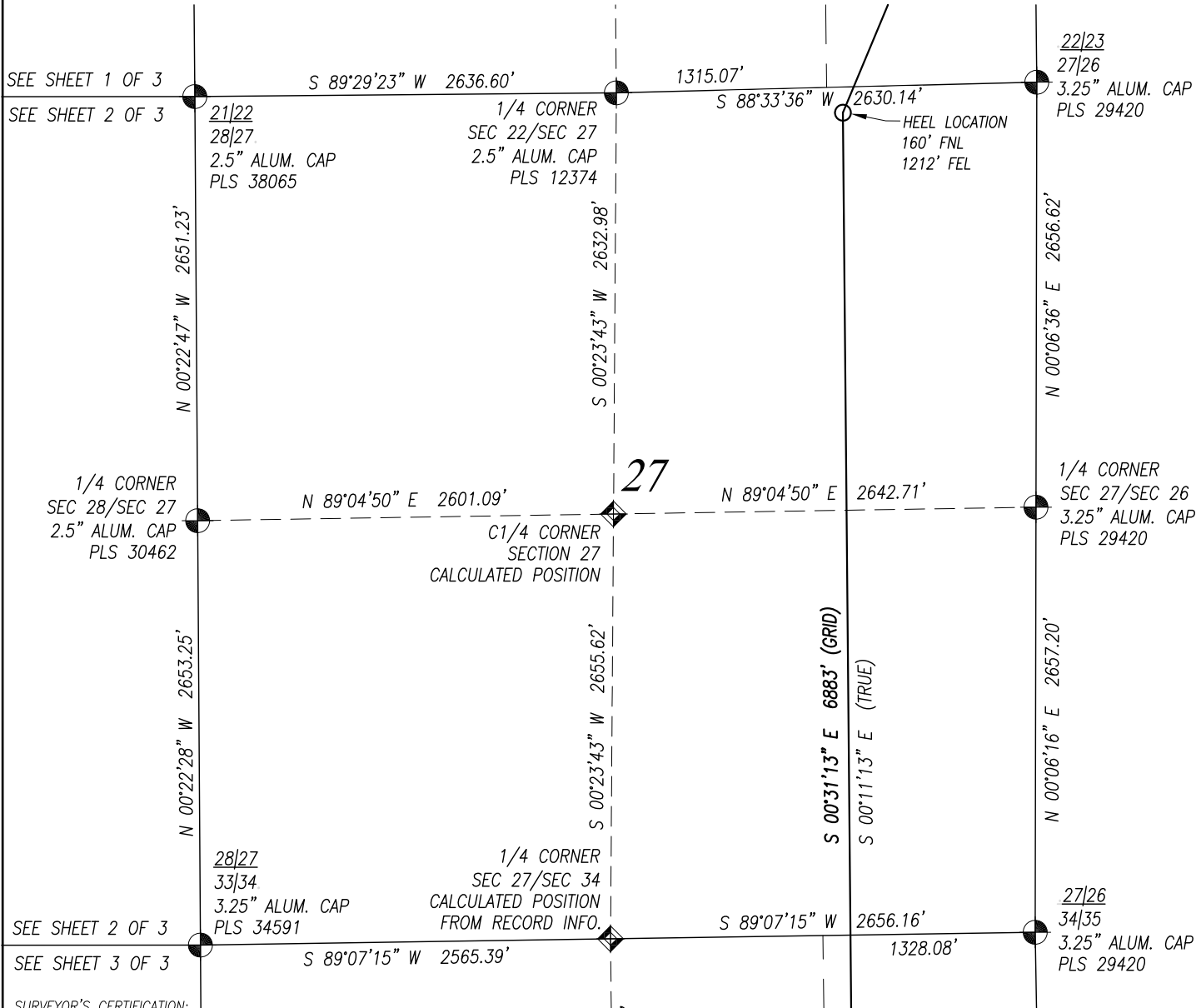
WELL LOCATION CERTIFICATE	
<b>HILGERS 8N-34HZ</b>	
<b>SURFACE</b>	858' FSL 775' FEL SEC. 22 GROUND ELEVATION=5000'
<b>HEEL</b>	160' FNL 1212' FEL SEC. 27
<b>BOTTOM HOLE</b>	1742' FNL 1169' FEL SEC. 34
SE1/4 SE1/4 SECTION 22, T3N, R68W, 6TH PM WELD COUNTY, COLORADO	

**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**

# WELL LOCATION CERTIFICATE: HILGERS 8N-34HZ

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

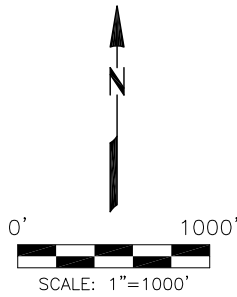



**SURVEYOR'S CERTIFICATION:**  
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Douglas W. Chinn, PLS #37070  
 FOR AND ON BEHALF OF ACKLAM, INC.  
 195 Telluride Street Suite 7  
 Brighton CO 80601

**NOTES:**  
 1. Found Section Corner  
 2. Calculated Section Corner  
 3. Basis of Elevations: NAVD88 (GEOD12).  
 4. Basis of Bearings: Colorado coordinate system 1983 north zone ("GRID").  
 5. Basis of Distances: GRID; Combined Factor=0.999717864.  
 6. GPS Operator: **Jeff Hawkins** PDOP **2.1**  
 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 **S 02°39'02" W 7920'** from the Surface Location.  
 10. Existing well Hilgers 16-22A bears **N 89°59'13" W 75'** from the Surface Location.



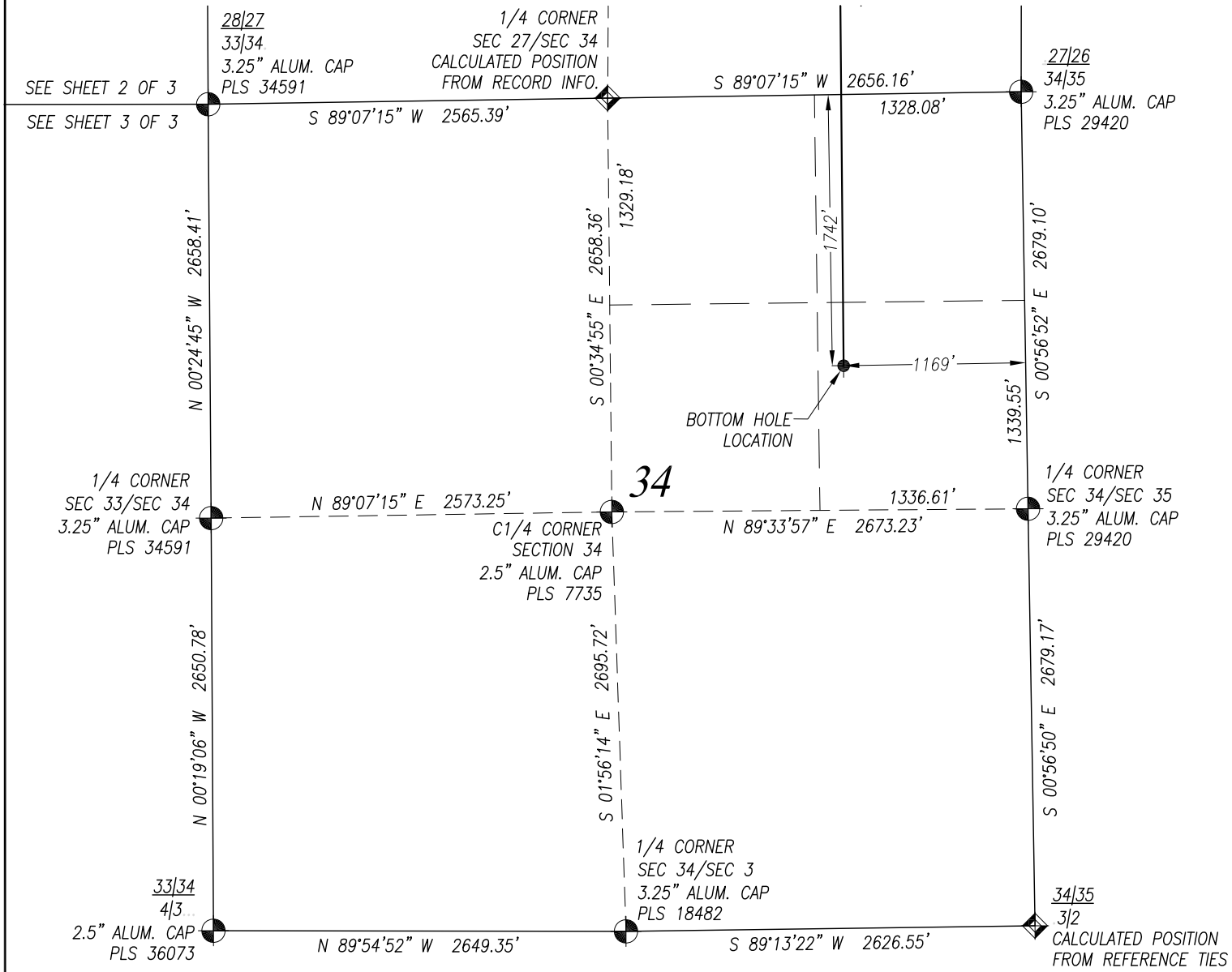
PREPARED FOR:	
 <b>Kerr-McGee Oil &amp; Gas Onshore L.P.</b> 1099 18th Street Denver, Colorado 80202	
<b>Acklam, Inc.</b>	
DATE SURVEYED: 06/25/2015	
DATE DRAFTED: 09/17/2015	
DRAFTED BY: SMF	CHK BY: JMP
JOB No. 155004	REVISED: 10/26/2016

WELL LOCATION CERTIFICATE	
<b>HILGERS 8N-34HZ</b>	
<b>SURFACE</b>	858' FSL 775' FEL SEC. 22 GROUND ELEVATION=5000'
<b>HEEL</b>	160' FNL 1212' FEL SEC. 27
<b>BOTTOM HOLE</b>	1742' FNL 1169' FEL SEC. 34
SE1/4 SE1/4 SECTION 22, T3N, R68W, 6TH PM WELD COUNTY, COLORADO	

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# WELL LOCATION CERTIFICATE: HILGERS 8N-34HZ

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



**SURVEYOR'S CERTIFICATION:**

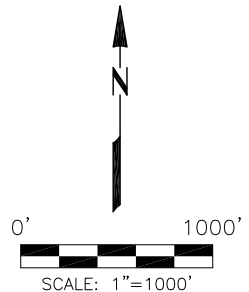
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Douglas W. Chinn, PLS #37070  
 FOR AND ON BEHALF OF ACKLAM, INC.  
 195 Telluride Street Suite 7  
 Brighton CO 80601

**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=0.999717864.
6. GPS Operator: **Jeff Hawkins** PDOP **2.1**
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 **S 02°39'02" W 7920'** from the Surface Location.
10. Existing well Hilgers 16-22A bears **N 89°59'13" W 75'** from the Surface Location.



<b>PREPARED FOR:</b>	
 <b>Kerr-McGee Oil &amp; Gas Onshore L.P.</b> 1099 18th Street Denver, Colorado 80202	
<b>Acklam, Inc.</b>	
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	
<b>HILGERS 8N-34HZ</b>	
SURFACE	858' FSL 775' FEL SEC. 22 GROUND ELEVATION=5000'
HEEL	160' FNL 1212' FEL SEC. 27
BOTTOM HOLE	1742' FNL 1169' FEL SEC. 34
SE1/4 SE1/4 SECTION 22, T3N, R68W, 6TH PM WELD COUNTY, COLORADO	

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