

MATCH LINE SHEET 2 OF 4
SHEET 1 OF 4

9/10
16/15
3.25" ALUM. CAP
PLS 13155

1/4 CORNER
SEC 10/SEC 15
2.5" ALUM. CAP
PLS 11434

10/11
15/14
3.25" ALUM. CAP
PLS 29430

SURFACE LOCATION
GROUND ELEVATION=4872'

NAD 83
LATITUDE= 40.141189°
LONGITUDE= -104.995740°

LATITUDE= 40°08'28.281"
LONGITUDE= -104°59'44.662"

HEEL LOCATION

NAD 83
LATITUDE= 40.142967°
LONGITUDE= -104.994850°

LATITUDE= 40°08'34.680"
LONGITUDE= -104°59'41.461"

C-E1/16 CORNER
SECTION 15
2.5" ALUM. CAP
PLS 17502

BOTTOM HOLE LOCATION

NAD 83
LATITUDE= 40.178982°
LONGITUDE= -104.994308°

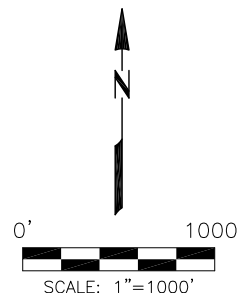
LATITUDE= 40°10'44.335"
LONGITUDE= -104°59'39.509"


1/4 CORNER
SEC 15/SEC 22
2.5" ALUM. CAP
PLS 18255


15/14
22/23
3.25" ALUM. CAP
P.L.S. 294.30

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.

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



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=0.999725831

6. GPS Operator: **Monty Wallace** PDOP **1.3**

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 01°20'18" E 13773'** 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

KEOWN STATE 19N-34HZ

SURFACE 1799' FNL 837' FWL SEC. 15
GROUND ELEVATION=4872'

HEEL	1150' FNL	1085' FWL	SEC. 15
BOTTOM HOLE	1461' FSL	1129' FWL	SEC. 34

SW1/4 NW1/4
SECTION 15, T2N, R68W, 6TH PM
WELD COUNTY, COLORADO

SHEET 1 OF 4


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

Acklam, Inc.

DATE SURVEYED: 06/22/2015

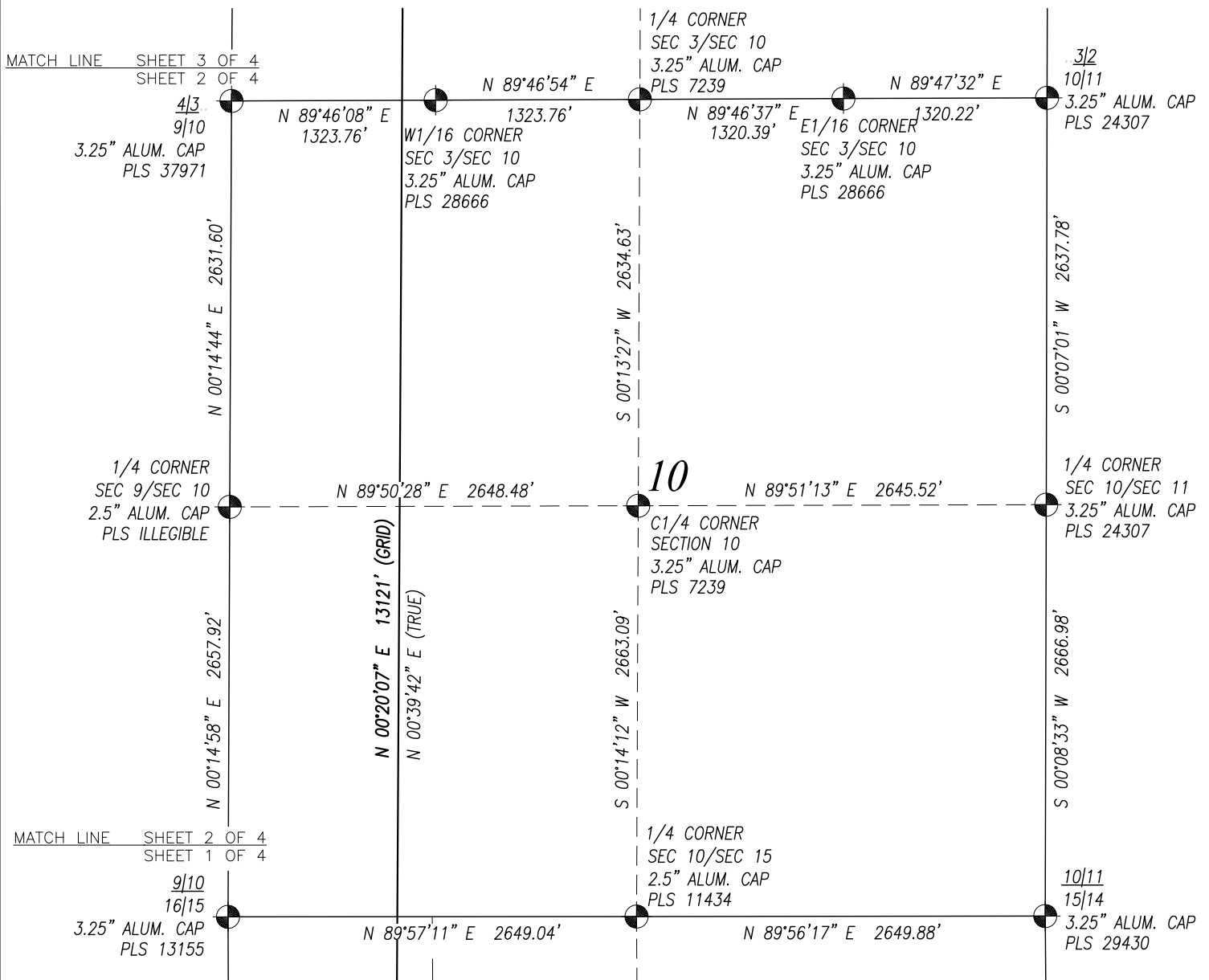
DATE DRAFTED: 08/18/2015

DRAFTED BY: SMF	CHK BY: JMP
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JOB No. 155000	REVISED: 10/17/2016
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WELL LOCATION CERTIFICATE: KEOWN STATE 19N-34HZ

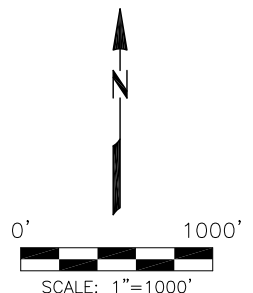
SECTION 10, TOWNSHIP 2 NORTH, RANGE 68 WEST, 6TH P.M.



SURVEYOR'S CERTIFICATION:

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Kerr-McGee Oil &
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Denver, Colorado 80202

Acklam, Inc.

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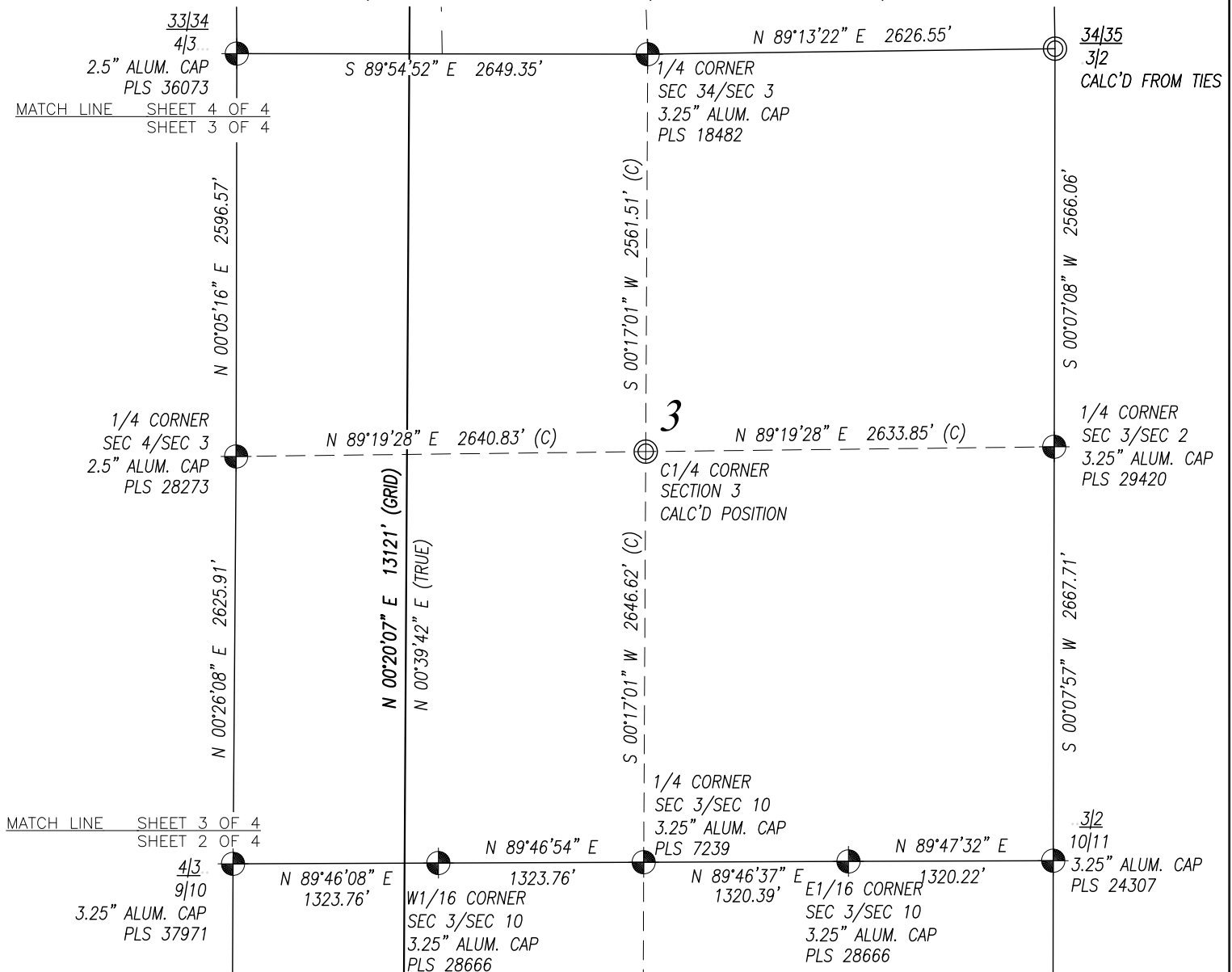
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GROUND ELEVATION=4872'

HEEL 1150' FNL 1085' FWL SEC. 15
BOTTOM HOLE 1461' FSL 1129' FWL SEC. 34

SW1/4 NW1/4
SECTION 15, T2N, R68W, 6TH PM
WELD COUNTY, COLORADO

WELL LOCATION CERTIFICATE: KEOWN STATE 19N-34HZ

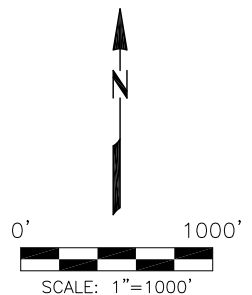
SECTION 3, TOWNSHIP 2 NORTH, RANGE 68 WEST, 6TH P.M.



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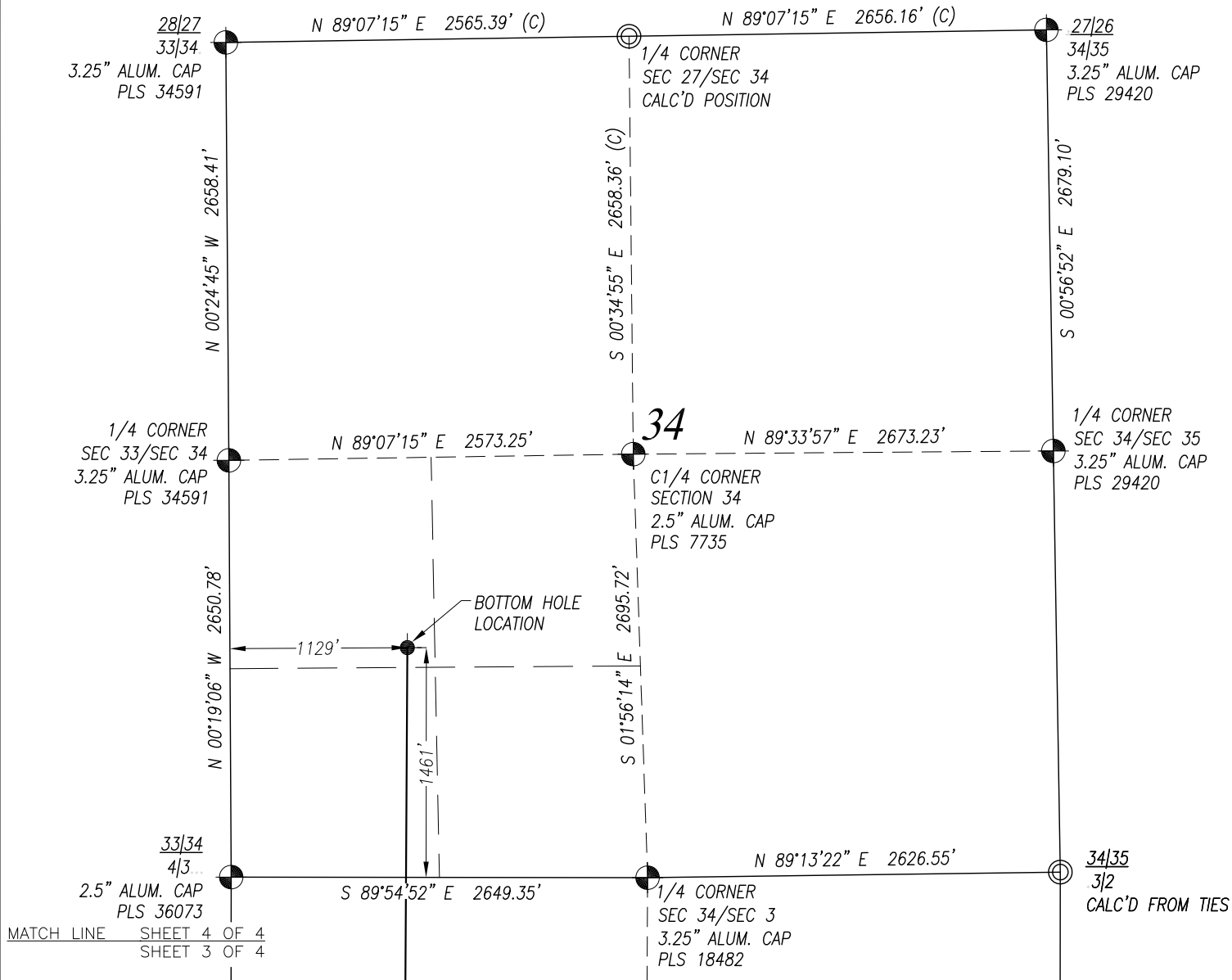
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SW1/4 NW1/4
SECTION 15, T2N, R68W, 6TH PM
WELD COUNTY, COLORADO

WELL LOCATION CERTIFICATE: KEOWN STATE 19N-34HZ

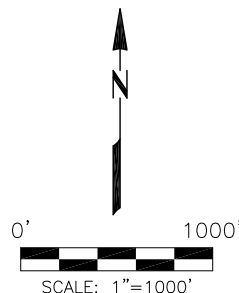
SECTION 34, TOWNSHIP 3 NORTH, RANGE 68 WEST, 6TH P.M.



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SHEET 4 OF 4

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WELD COUNTY, COLORADO