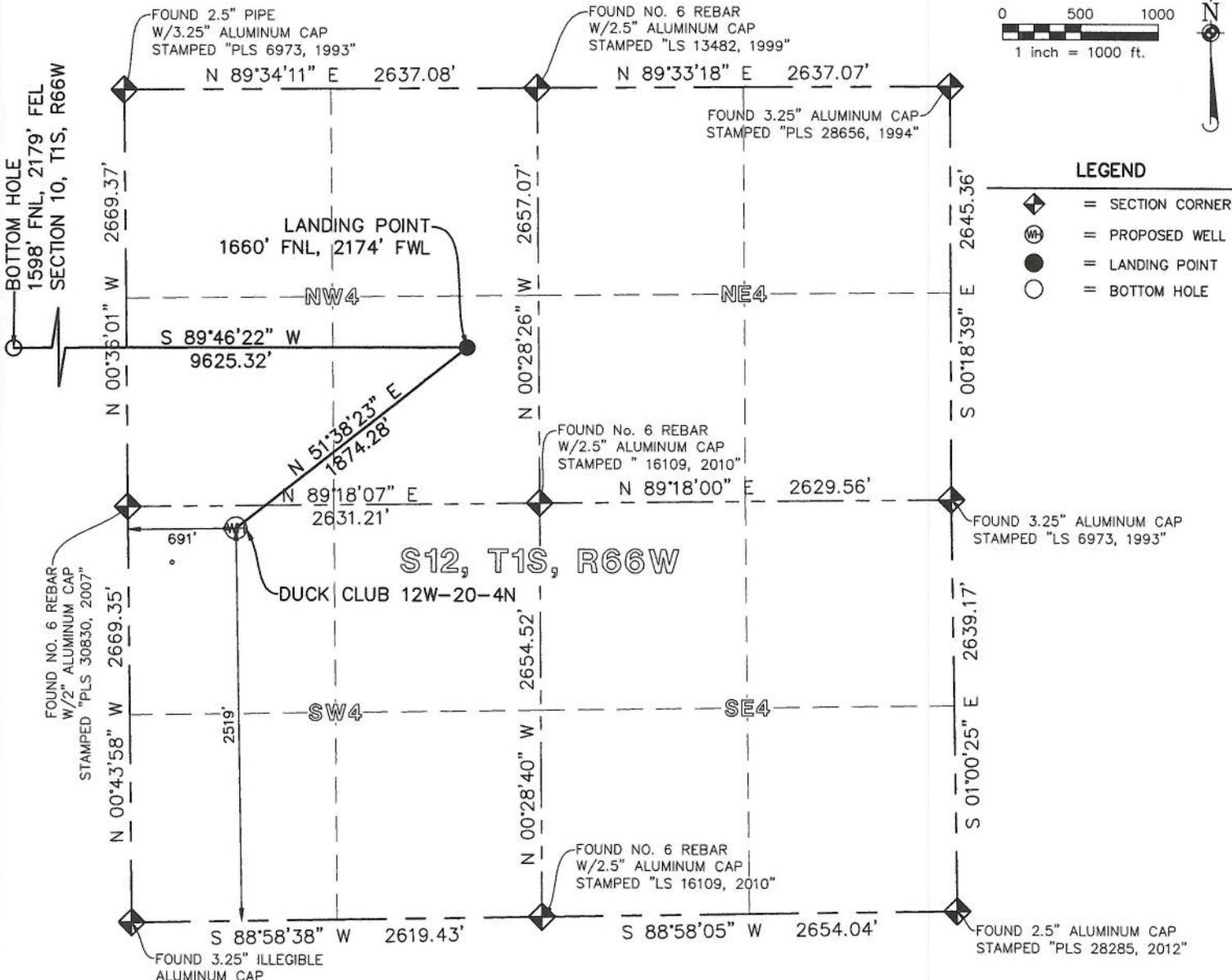
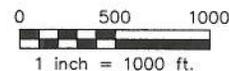


SECTION: 12  
 TOWNSHIP: 1 SOUTH  
 RANGE: 66 WEST

# WELL LOCATION CERTIFICATE

## DUCK CLUB 12W-20-4N

SHEET 1 OF 3



### LEGEND

- = SECTION CORNER
- = PROPOSED WELL
- = LANDING POINT
- = BOTTOM HOLE

IN ACCORDANCE WITH A REQUEST FROM CHRIS SIMMONS OF EXTRACTION OIL & GAS, LLC., MANHARD CONSULTING HAS DETERMINED THE SURFACE LOCATION OF THE DUCK CLUB 12W-20-4N WELL TO BE 2519' FSL, 691' FWL, AS MEASURED AT NINETY (90) DEGREES FROM THE SECTION LINES OF SECTION 12, TOWNSHIP 1 SOUTH, RANGE 66 WEST, AND THE BOTTOM HOLE LOCATION TO BE 1598' FNL, 2179' FEL, AS MEASURED AT NINETY (90) DEGREES FROM THE SECTION LINES OF SECTION 10, TOWNSHIP 1 SOUTH, RANGE 66 WEST, OF THE SIXTH PRINCIPAL MERIDIAN, ADAMS COUNTY, COLORADO.

I HEREBY STATE THAT THIS WELL LOCATION CERTIFICATE WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE WORK WAS COMPLETED ON 10/12/2017 FOR AND ON BEHALF OF EXTRACTION OIL & GAS, LLC., AND THAT THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY, IT IS NOT A LAND SURVEY PLAT OR AN IMPROVEMENT SURVEY PLAT AND IT IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF FENCE, BUILDING OR OTHER FUTURE IMPROVEMENT LINES.

NAD 83 LATITUDE AND LONGITUDE	
<b>SURFACE LOCATION:</b>	<b>LANDING POINT:</b>
LATITUDE: N39.97922	LATITUDE: N39.98238
LONGITUDE: W104.73094	LONGITUDE: W104.72566
ELEVATION: 5036	
PDDP: 1.4	<b>BOTTOM HOLE:</b>
QTR/QTR: NW4/SW4	LATITUDE: N39.98250
	LONGITUDE: W104.76001

NEAREST CULTURAL ITEMS:	
BUILDING:	1432'± W
BUILDING UNIT:	1432'± W
HIGH OCC. BLDG UNIT:	4206'± W
DES. OUTSIDE ACTIVITY AREA:	5280'+
PUBLIC ROAD:	2515'± S
ABOVE GROUND UTILITY:	752'± SW
RAILROAD:	847'± NW
PROPERTY LINE:	237'± NW



BRIAN J. PFOHL, PLS 38445  
 FOR AND ON BEHALF OF  
 MANHARD CONSULTING

- NOTES:
- 1) BASIS OF BEARINGS: THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 1 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN IS ASSUMED TO BEAR NORTH 00°43'58" WEST BETWEEN THE FOUND MONUMENTS AS SHOWN AND DESCRIBED HEREON.
  - 2) HORIZONTAL DATUM IS NAD83.
  - 3) VERTICAL DATUM IS NAVD88 AND ORIGINATES FROM THE TRIMBLE VRS NETWORK, UTILIZING THE GEOID12B MODEL.
  - 4) SEE LOCATION DRAWING FOR VISIBLE IMPROVEMENTS WITHIN 500' OF PROPOSED DISTURBED AREA.
  - 5) INS. OPERATOR: KEITH TAPHORN

<b>PREPARED BY:</b> 	<b>FIELD DATE:</b> 10/12/2017	<b>PARCEL ID:</b> 015690000278	<b>PREPARED FOR:</b> 
	<b>DRAWING DATE:</b> 03/27/2018	<b>SURFACE LOCATION:</b> THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 12, TOWNSHIP 1 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, ADAMS COUNTY, COLORADO	

SECTION: 12  
 TOWNSHIP: 1 SOUTH  
 RANGE: 66 WEST

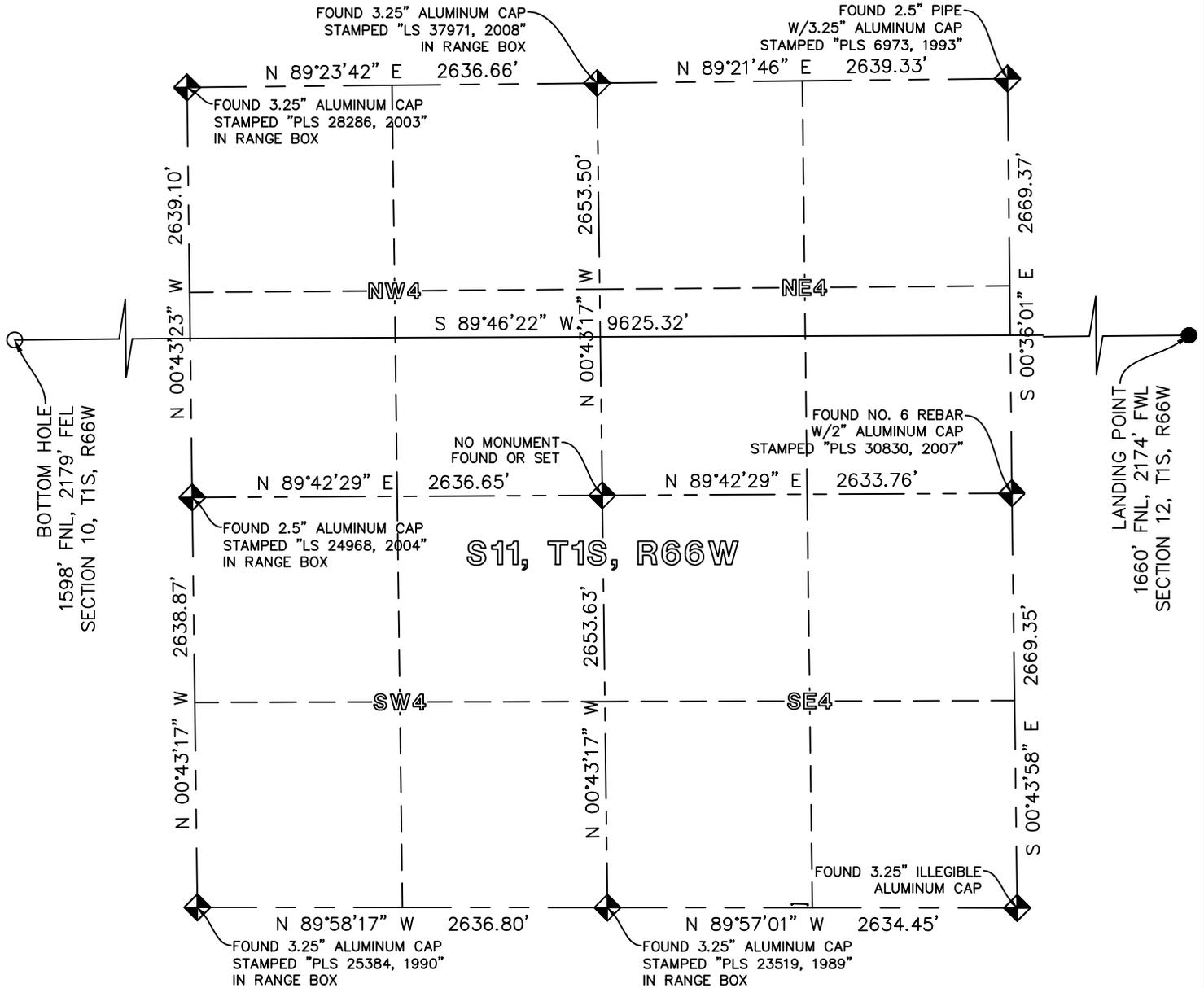
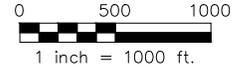
# WELL LOCATION CERTIFICATE

## DUCK CLUB 12W-20-4N

SHEET 2 OF 3

**LEGEND**

- = SECTION CORNER
- = PROPOSED WELL
- = LANDING POINT
- = BOTTOM HOLE



PREPARED BY:



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FIELD DATE: 10/12/2017  
 DRAWING DATE: 03/27/2018  
 DRAWN BY: BJP/SKY  
 CHECKED BY: BJP

PARCEL ID: 015690000278

SURFACE LOCATION:  
 THE NORTHWEST QUARTER OF THE  
 SOUTHWEST QUARTER OF SECTION 12,  
 TOWNSHIP 1 SOUTH, RANGE 66 WEST OF  
 THE SIXTH PRINCIPAL MERIDIAN,  
 ADAMS COUNTY, COLORADO

PREPARED FOR:



SECTION: 12  
 TOWNSHIP: 1 SOUTH  
 RANGE: 66 WEST

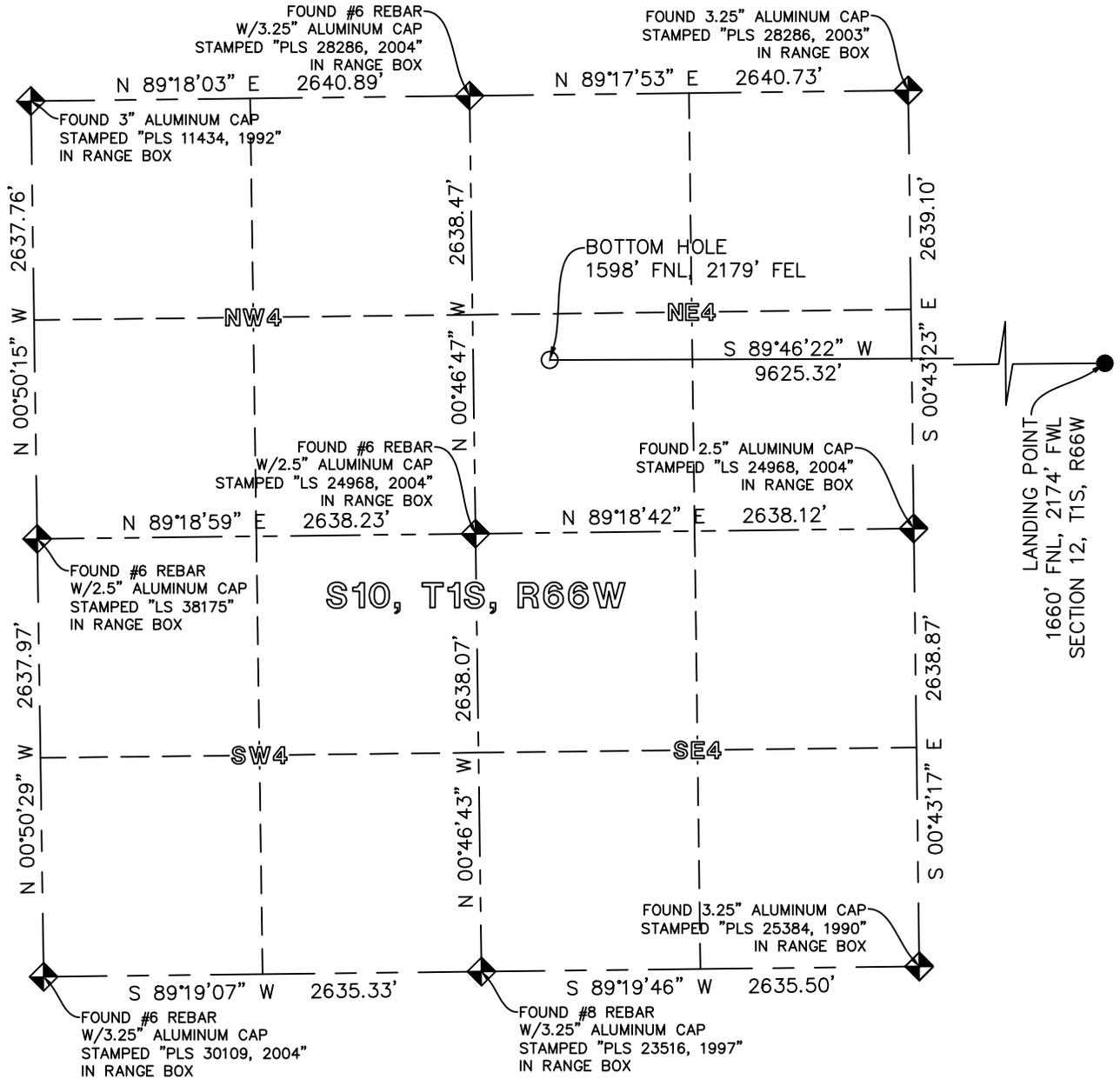
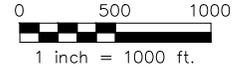
# WELL LOCATION CERTIFICATE

## DUCK CLUB 12W-20-4N

SHEET 3 OF 3

**LEGEND**

- = SECTION CORNER
- = PROPOSED WELL
- = LANDING POINT
- = BOTTOM HOLE



S10, T1S, R66W

LANDING POINT  
 1660' FNL, 2174' FWL  
 SECTION 12, T1S, R66W

PREPARED BY:



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FIELD DATE:

10/12/2017

DRAWING DATE:

03/27/2018

DRAWN BY:

BJP/SKY

CHECKED BY:

BJP

PARCEL ID:

015690000278

SURFACE LOCATION:

THE NORTHWEST QUARTER OF THE  
 SOUTHWEST QUARTER OF SECTION 12,  
 TOWNSHIP 1 SOUTH, RANGE 66 WEST OF  
 THE SIXTH PRINCIPAL MERIDIAN,  
 ADAMS COUNTY, COLORADO

PREPARED FOR:

