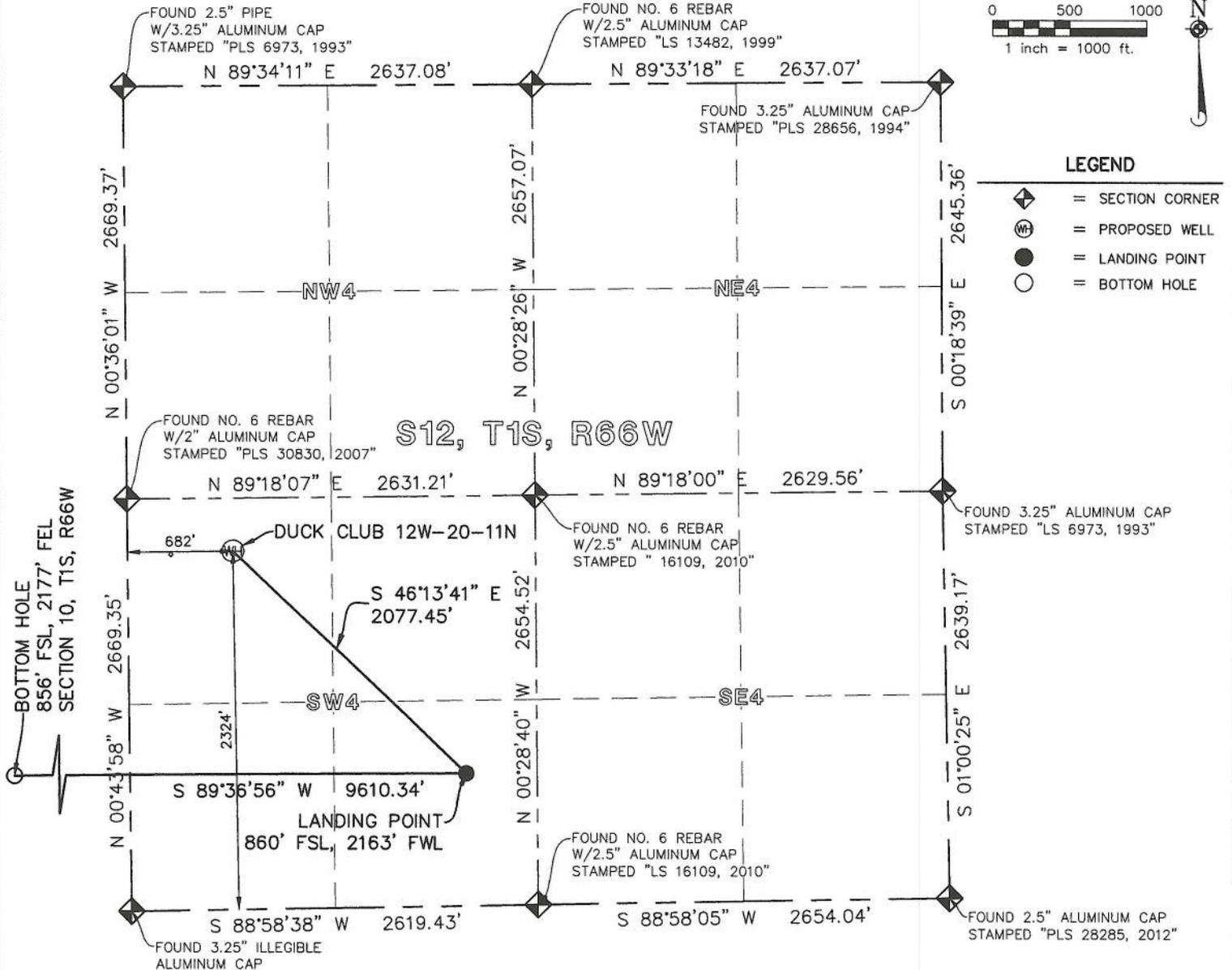
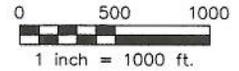


SECTION: 12  
 TOWNSHIP: 1 SOUTH  
 RANGE: 66 WEST

# WELL LOCATION CERTIFICATE

## DUCK CLUB 12W-20-11N

SHEET 1 OF 3



### LEGEND

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

S12, T1S, R66W

BOTTOM HOLE  
856' FSL, 2177' FEL  
SECTION 10, T1S, R66W

BOTTOM HOLE  
856' FSL, 2163' FWL  
SECTION 12, T1S, R66W

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-20-11N WELL TO BE 2324' FSL, 682' 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 856' FSL, 2177' 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 02/01/2018 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:	N39.97868	LATITUDE:	N39.97470
LONGITUDE:	W104.73097	LONGITUDE:	W104.72567
ELEVATION:	5037		
PDOP:	1.7	<b>BOTTOM HOLE:</b>	
QTR/QTR:	NW4/SW4	LATITUDE:	N39.97475
		LONGITUDE:	W104.75996

#### NEAREST CULTURAL ITEMS:

BUILDING:	1467'± W
BUILDING UNIT:	1467'± W
HIGH OCC. BLDG UNIT:	4246'± W
DES. OUTSIDE ACTIVITY AREA:	5280'+
PUBLIC ROAD:	2320'± S
ABOVE GROUND UTILITY:	643'± SW
RAILROAD:	992'± NW
PROPERTY LINE:	346'± NW

#### 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



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

PREPARED BY: 	FIELD DATE: 02/01/2018	PARCEL ID: 015690000278	PREPARED FOR: 
	DRAWING DATE: 03/27/2018	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	
DRAWN BY: BJP/CBS/SKY	CHECKED BY: BJP		

SECTION: 12  
 TOWNSHIP: 1 SOUTH  
 RANGE: 66 WEST

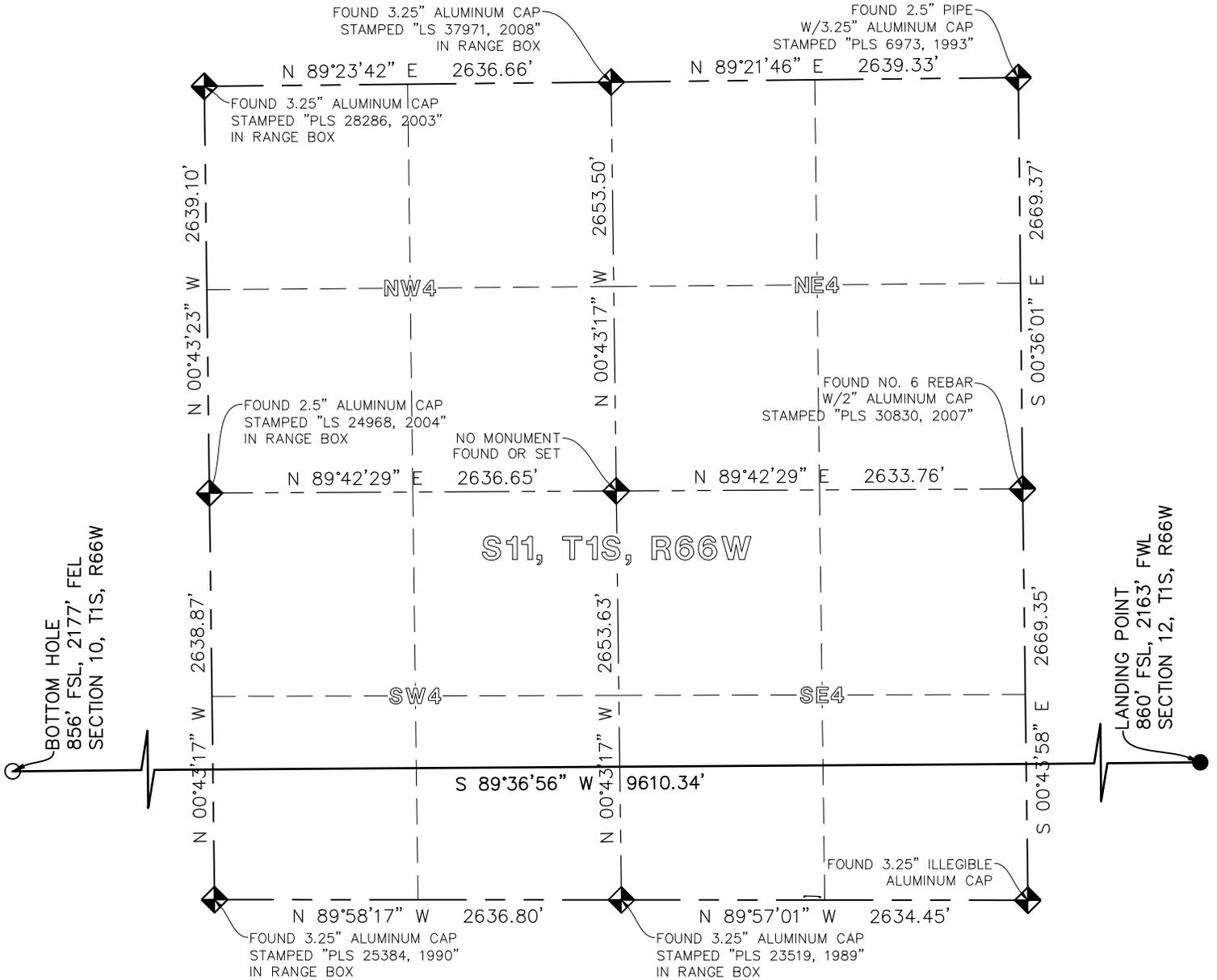
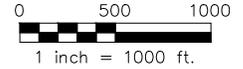
# WELL LOCATION CERTIFICATE

## DUCK CLUB 12W-20-11N

SHEET 2 OF 3

### LEGEND

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



PREPARED BY:



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FIELD DATE:

02/01/2018

DRAWING DATE:

03/27/2018

DRAWN BY:

BJP/CBS/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

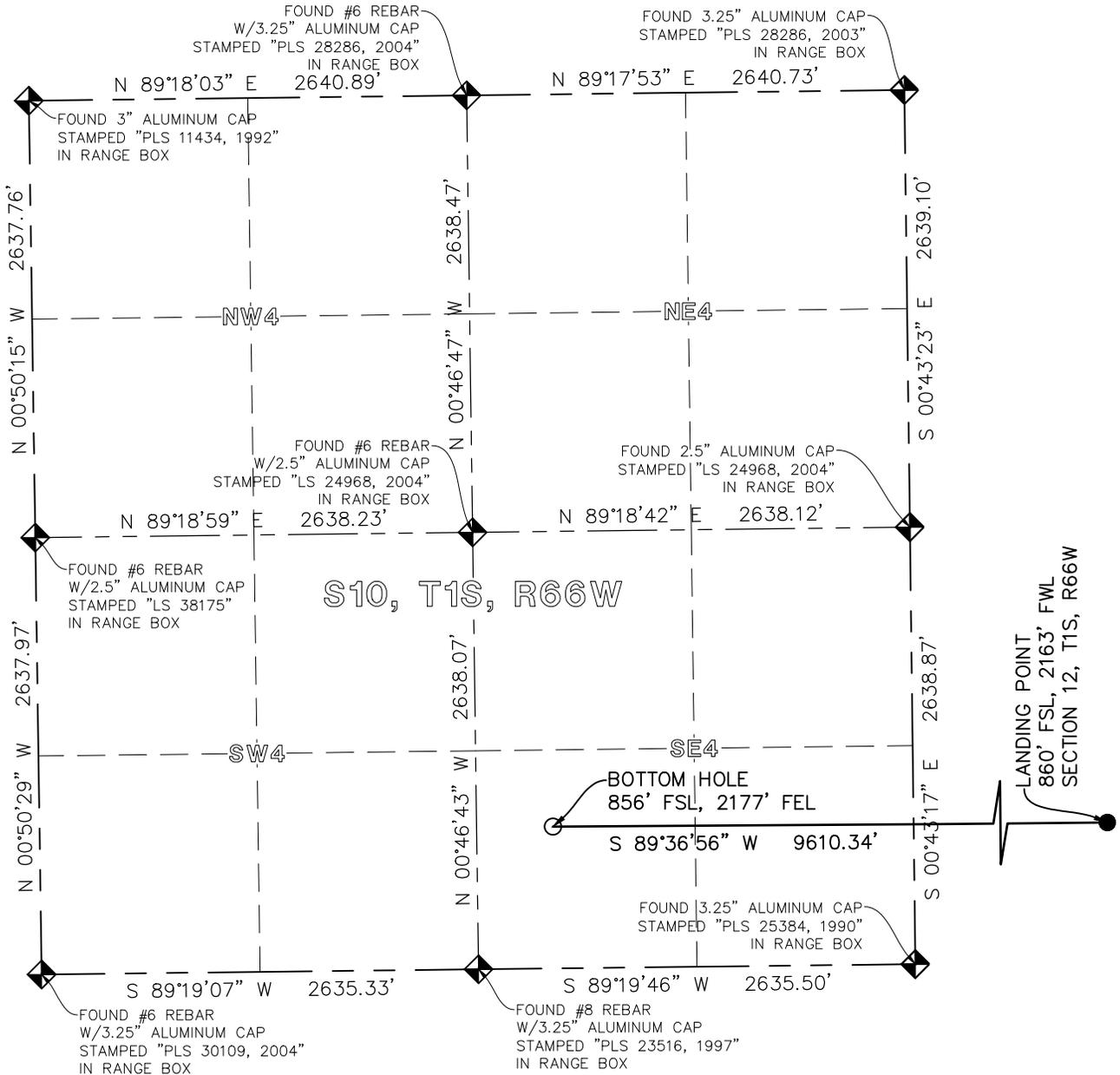
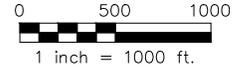
# WELL LOCATION CERTIFICATE

## DUCK CLUB 12W-20-11N

SHEET 3 OF 3

### LEGEND

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



PREPARED BY:



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FIELD DATE:

02/01/2018

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DRAWN BY:

BJP/CBS/SKY

CHECKED BY:

BJP

PARCEL ID:

0156900000278

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:

