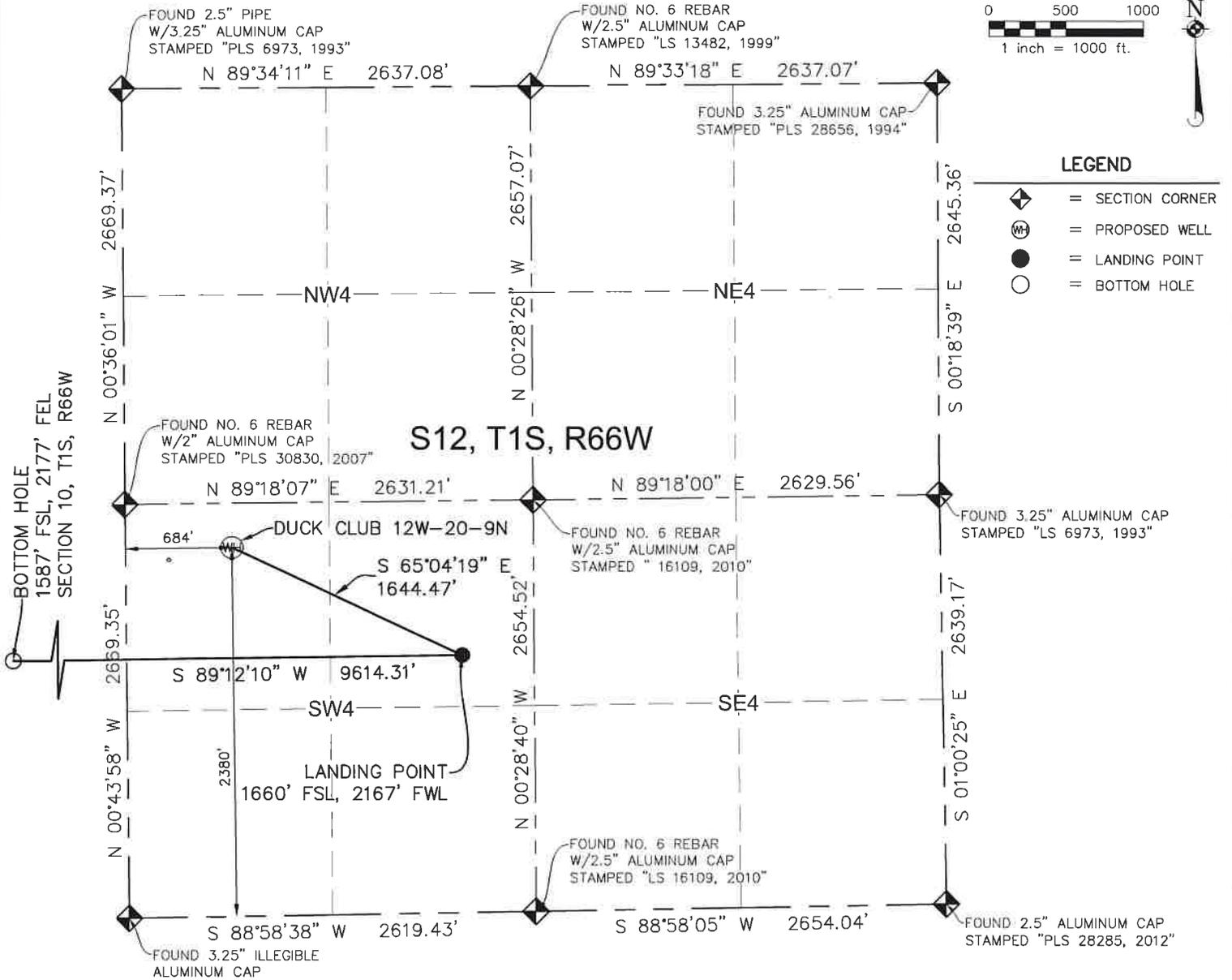
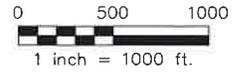


SECTION: 12
 TOWNSHIP: 1 SOUTH
 RANGE: 66 WEST

WELL LOCATION CERTIFICATE

DUCK CLUB 12W-20-9N

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-20-9N WELL TO BE 2380' FSL, 684' 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 1587' FSL, 2177' FWL, 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	
SURFACE LOCATION:	LANDING POINT:
LATITUDE: N39.97884	LATITUDE: N39.97690
LONGITUDE: W104.73096	LONGITUDE: W104.72566
ELEVATION: 5036	
PDOP: 1.5	BOTTOM HOLE:
QTR/QTR: NW4/SW4	LATITUDE: N39.97675
	LONGITUDE: W104.75997

NEAREST CULTURAL ITEMS:

BUILDING:	1455'± W
BUILDING UNIT:	1455'± W
HIGH OCC. BLDG UNIT:	4234'± W
DES. OUTSIDE ACTIVITY AREA:	5280'+
PUBLIC ROAD:	2375'± S
ABOVE GROUND UTILITY:	670'± SW
RAILROAD:	951'± NW
PROPERTY LINE:	315'± 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

PREPARED BY: 	FIELD DATE: 02/01/2018	PARCEL ID: 015690000278	PREPARED FOR:
	DRAWING DATE: 05/24/2018	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

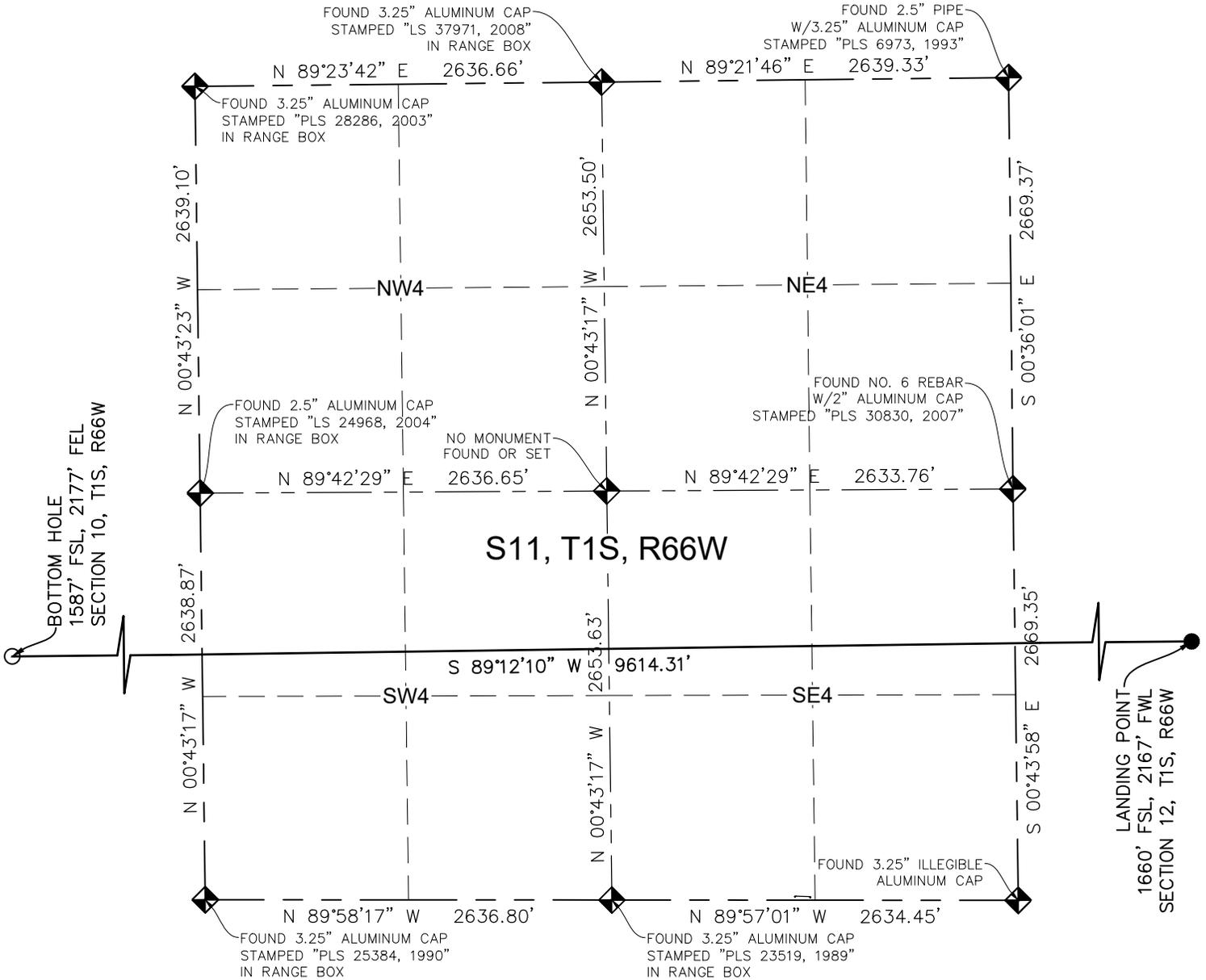
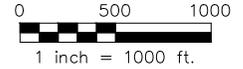
WELL LOCATION CERTIFICATE

DUCK CLUB 12W-20-9N

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: 05/24/2018
 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

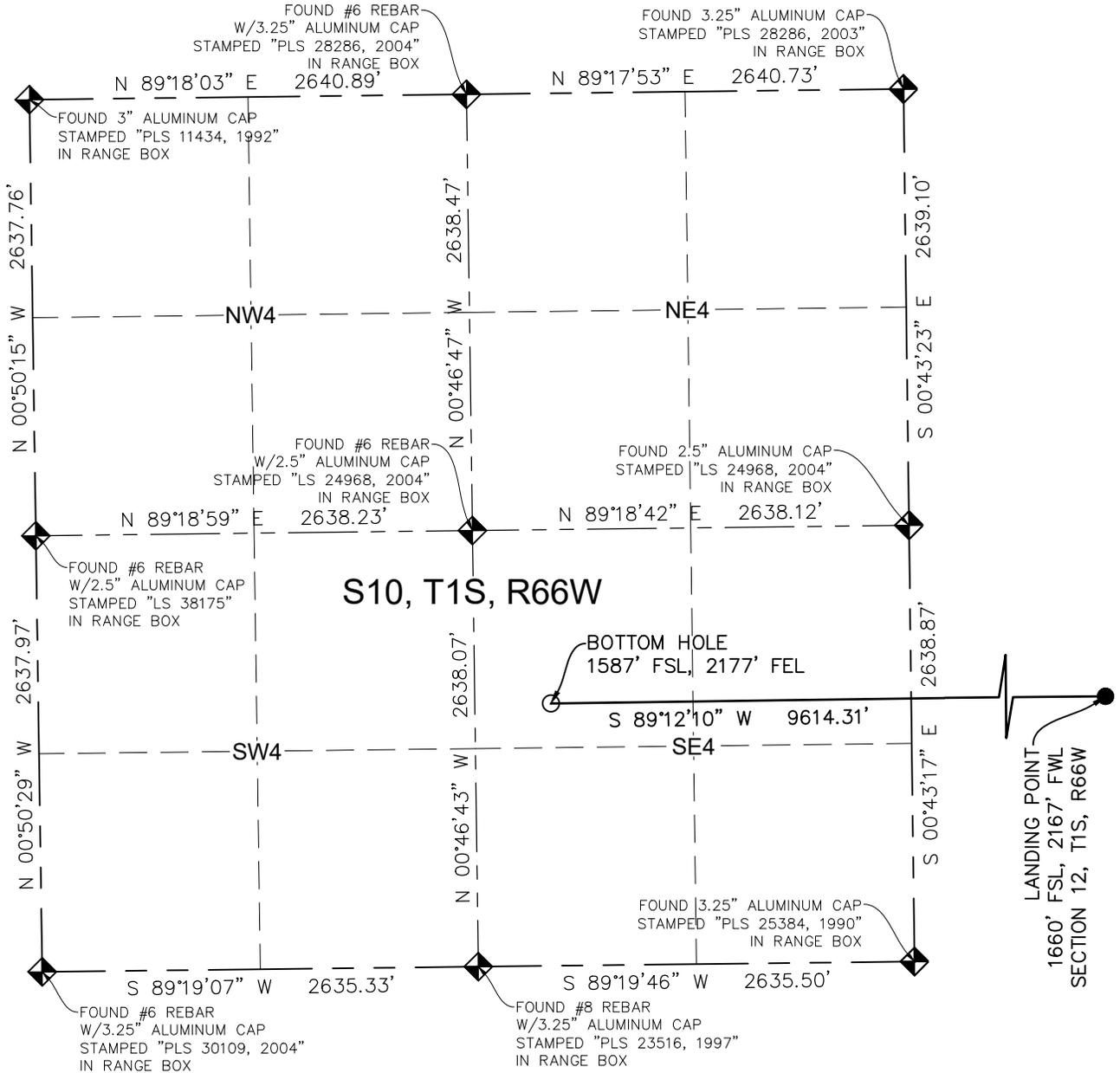
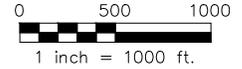
WELL LOCATION CERTIFICATE

DUCK CLUB 12W-20-9N

SHEET 3 OF 3

LEGEND

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-  = LANDING POINT
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PREPARED BY:



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FIELD DATE:

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05/24/2018

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:

