

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-20-7N WELL TO BE 2436' FSL, 687' 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 2440' FSL, 2178' FSL, 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

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.

NA	D 83 LATITUDE	AND LONGITUD	E.
SURFACE LOCATION:		LANDING POIL	NT:
LATITUDE:	N39.97899	LATITUDE:	N39.97909
LONGITUDE:	W104.73095	LONGITUDE:	W104.72566
ELEVATION:	5037		
PDOP:	1.3	BOTTOM HOLI	E:
QTR/QTR:	NW4/SW4	LATITUDE:	N39.97910
	100000000000000000000000000000000000000	LONGITUDE:	W104 75999

NEAREST CULTURAL ITEMS: BUILDING: BUILDING UNIT: 1444'± W HIGH OCC. BLDG UNIT: 4222'± DES. OUTSIDE ACTIVITY AREA: 5280'+ PUBLIC ROAD: ABOVE GROUND UTILITY: 700'± SW 910'± NW PROPERTY LINE 284'± NW

NOTES:

- 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.
- HORIZONTAL DATUM IS NAD83.
- VERTICAL DATUM IS NAVD88 AND ORIGINATES FROM THE TRIMBLE VRS NETWORK, UTILIZING THE GEOID12B MODEL. SEE LOCATION DRAWING FOR VISIBLE IMPROVEMENTS WITHIN 500' OF PROPOSED DISTURBED AREA.
- INS. OPERATOR: KEITH TAPHORN

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FIELD DATE: 02/01/2018	PARCEL ID: 0156900000278
DRAWING DATE:	SURFACE LOCATION:
03/23/2018 DRAWN BY:	THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 12.
BJP/CBS/SKY	TOWNSHIP 1 SOUTH, RANGE 66 WEST OF
CHECKED BY: BJP	THE SIXTH PRINCIPAL MERIDIAN, ADAMS COUNTY, COLORADO

BRIAN J. PFOHI FOR AND ON BEHALF OF MANHARD CONSULTING

PREPARED FOR

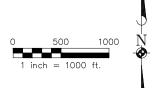
PLS 38445

SECTION: 12 TOWNSHIP: 1 SOUTH RANGE: 66 WEST WELL LOCATION CERTIFICATE DUCK CLUB 12W-20-7N SHEET 2 OF 3 **LEGEND** 500 1000 = SECTION CORNER inch = 1000 ft. WH) PROPOSED WELL LANDING POINT BOTTOM HOLE FOUND 3.25" ALUMINUM CAP-FOUND 2.5" PIPE-W/3.25" ALUMINUM CAP STAMPED "LS 37971, 2008" STAMPED "PLS 6973, 1993" IN RANGE BOX N 89°21'46" E 2639.33 N 89°23'42" E 2636.66 FOUND 3.25" ALUMINUM CAP STAMPED "PLS 28286, 2003" IN RANGE BOX 50, 2639.10 2653.5 2669. ≥ ш ≥ NW4 , [0 00*43'17" 00.43,23" 00.36 ~BOTTOM HOLE 2440' FSL, 2178' F SECTION 10, T1S, F FOUND NO. 6 REBAR-S W/2" ALUMINUM CAP STAMPED "PLS 30830, 2007" -FOUND 2.5" ALUMINUM CAP STAMPED "LS 24968, 2004" NO MONUMENT IN RANGE BOX FOUND OR SET N 89°42'29" E N 89°42'29" E 2633.76 2636.65 ´9618.64' S 89°31'11" W S11, T1S, R66W LANDING POINT-FSL, 2171' FWL 12, T1S, R66W 2669.35 2638.87 2653.63, 2460' FSL, 3 SECTION 12, T ≥ 00*43'17" 00.43,58" 00*43'17" S FOUND 3.25" ILLEGIBLE-ALUMINUM CAP 2634.45 N 89°58'17" W N 89°57'01" W 2636.80 -FOUND 3.25" ALUMINUM CAP STAMPED "PLS 25384, 1990" IN RANGE BOX FOUND 3.25" ALUMINUM CAP STAMPED "PLS 23519, 1989" IN RANGE BOX PREPARED BY PREPARED FOR 02/01/2018 DRAWING DATE 0156900000278 SURFACE LOCATION: 03/23/2018 THE NORTHWEST QUARTER OF THE DRAWN BY: BJP/CBS/SKY SOUTHWEST QUARTER OF SECTION 12. TOWNSHIP 1 SOUTH, RANGE 66 WEST OF CHECKED BY: THE SIXTH PRINCIPAL MERIDIAN, © 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED ADAMS COUNTY, COLORADO 3/23/2018 2:07 PM

SECTION: 12 TOWNSHIP: 1 SOUTH RANGE: 66 WEST

WELL LOCATION CERTIFICATE DUCK CLUB 12W-20-7N

SHEET 3 OF 3



LEGEND

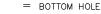
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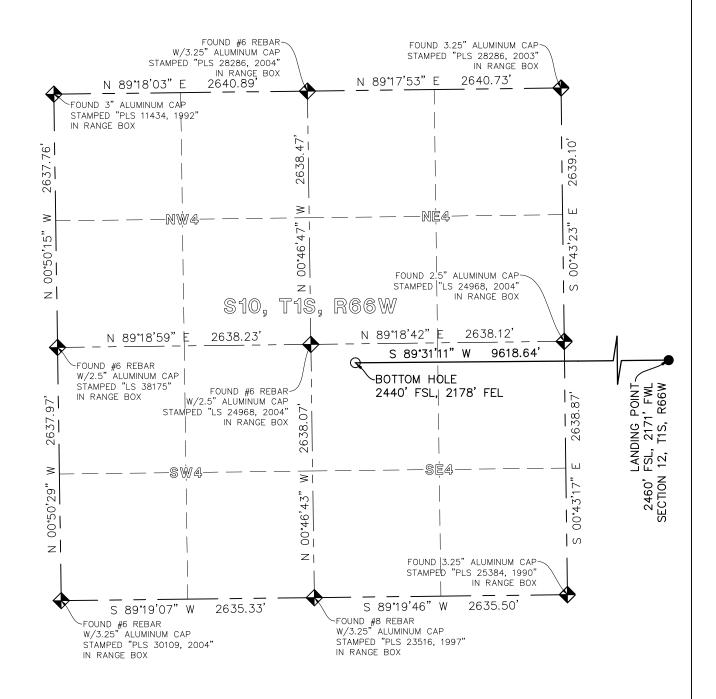
= SECTION CORNER

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= PROPOSED WELL

= LANDING POINT







3/23/2018 2:07 PM

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03/23/2018	THE NORTHWEST QUARTER OF THE
DRAWN BY:	SOUTHWEST QUARTER OF SECTION 12,
BJP/CBS/SKY	TOWNSHIP 1 SOUTH, RANGE 66 WEST OF
CHECKED BY:	THE SIXTH PRINCIPAL MERIDIAN,
BJP	ADAMS COUNTY, COLORADO



PREPARED FOR