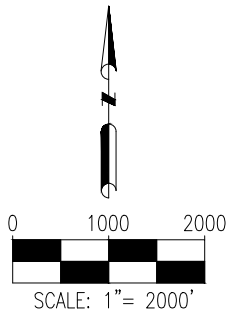
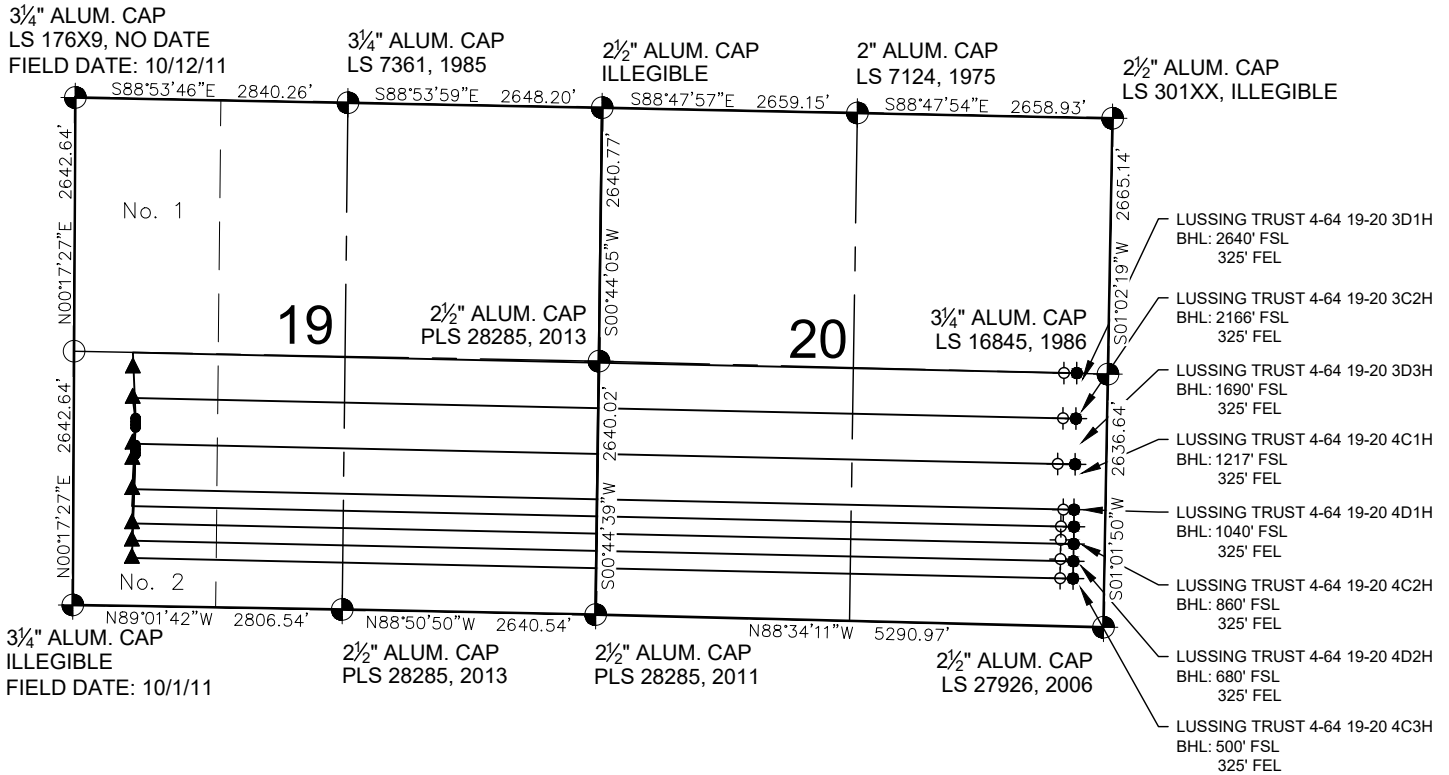


# LUSSING TRUST 4-64 19-20 3AH-3DH, 4AH-4DH PAD MULTI-WELL PLAN



## LEGEND

- = EXISTING MONUMENT
- = CALCULATED POSITION
- = PROPOSED WELL
- ◆ = EXISTING WELL
- ▲ = LANDING POINT
- ⊕ = LAST TAKE POINT
- BHL = BOTTOM HOLE LOCATION

## NOTES:

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GROUND VALUES AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO LINES SHOWN HEREON. THIS LOW DISTORTION PROJECTION (LDP) IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 39.695444°N, A CENTRAL MERIDIAN LONGITUDE OF 104.546235°W, AND A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000269 (EXACT). THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
- FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF FIELD DATE, UNLESS OTHERWISE NOTED.

## NOTES:

- LUSSING TRUST 4-64 19-20 3D1H TO BE AT 1957' FSL & 645' FWL. BOTTOM HOLE AT 2640' FSL & 325' FEL, SEC. 20.
- LUSSING TRUST 4-64 19-20 3C2H TO BE AT 1925' FSL & 645' FWL. BOTTOM HOLE AT 2166' FSL & 325' FEL, SEC. 20.
- LUSSING TRUST 4-64 19-20 3D3H TO BE AT 1893' FSL & 645' FWL. BOTTOM HOLE AT 1690' FSL & 325' FEL, SEC. 20.
- LUSSING TRUST 4-64 19-20 4C1H TO BE AT 1861' FSL & 645' FWL. BOTTOM HOLE AT 1217' FSL & 325' FEL, SEC. 20.
- LUSSING TRUST 4-64 19-20 4D1H TO BE AT 1676' FSL & 645' FWL. BOTTOM HOLE AT 1040' FSL & 325' FEL, SEC. 20.
- LUSSING TRUST 4-64 19-20 4C2H TO BE AT 1644' FSL & 645' FWL. BOTTOM HOLE AT 860' FSL & 325' FEL, SEC. 20.
- LUSSING TRUST 4-64 19-20 4D2H TO BE AT 1612' FSL & 645' FWL. BOTTOM HOLE AT 680' FSL & 325' FEL, SEC. 20.
- LUSSING TRUST 4-64 19-20 4C3H TO BE AT 1580' FSL & 645' FWL. BOTTOM HOLE AT 500' FSL & 325' FEL, SEC. 20.

# LUSSING TRUST 4-64 19-20 3AH-3DH, 4AH-4DH PAD MULTI-WELL PLAN

## LUSSING TRUST 4-64 19-20 3D1H

			PDOP = 1.3
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'13.51" (39.687087)	LATITUDE = 39°41'20.27" (39.688963)	LATITUDE = 39°41'18.22" (39.688394)	LATITUDE = 39°41'18.19" (39.688385)
LONGITUDE = 104°36'04.04" (104.601122)	LONGITUDE = 104°36'04.41" (104.601224)	LONGITUDE = 104°34'00.40" (104.566778)	LONGITUDE = 104°33'58.68" (104.566299)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'13.56" (39.687100)	LATITUDE = 39°41'20.31" (39.688963)	LATITUDE = 39°41'18.27" (39.688394)	LATITUDE = 39°41'18.23" (39.688385)
LONGITUDE = 104°36'02.16" (104.600599)	LONGITUDE = 104°36'02.52" (104.601224)	LONGITUDE = 104°33'58.52" (104.566778)	LONGITUDE = 104°33'58.80" (104.566299)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676402.031 E: 3252971.094	N: 1677085.08 E: 3252935.39	N: 1676975.570 E: 3262631.080	N: 1676973.62 E: 3262766.03
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676394.738 E: 2253124.749	N: 677077.777 E: 2253089.034	N: 676968.426 E: 2262784.646	N: 676967.123 E: 2262919.595

## LUSSING TRUST 4-64 19-20 3C2H



			PDOP = 1.3
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'13.20" (39.687000)	LATITUDE = 39°41'15.58" (39.687662)	LATITUDE = 39°41'13.54" (39.687094)	LATITUDE = 39°41'13.50" (39.687084)
LONGITUDE = 104°36'04.04" (104.601122)	LONGITUDE = 104°36'04.44" (104.601232)	LONGITUDE = 104°34'00.50" (104.566808)	LONGITUDE = 104°33'58.78" (104.566329)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'13.25" (39.687013)	LATITUDE = 39°41'15.63" (39.687662)	LATITUDE = 39°41'13.59" (39.687094)	LATITUDE = 39°41'13.55" (39.687084)
LONGITUDE = 104°36'02.16" (104.600599)	LONGITUDE = 104°36'02.55" (104.601232)	LONGITUDE = 104°33'58.63" (104.566808)	LONGITUDE = 104°33'56.91" (104.566329)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676370.038 E: 3252971.268	N: 1676611.19 E: 3252937.97	N: 1676501.7 E: 3262627.53	N: 1676499.750 E: 3262762.481
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676362.746 E: 2253124.923	N: 676603.894 E: 2253091.622	N: 676494.563 E: 2262781.104	N: 676492.615 E: 2262916.054

## LUSSING TRUST 4-64 19-20 3D3H

			PDOP = 1.4
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'12.88" (39.686912)	LATITUDE = 39°41'10.88" (39.686356)	LATITUDE = 39°41'08.83" (39.685787)	LATITUDE = 39°41'08.80" (39.685778)
LONGITUDE = 104°36'04.04" (104.601123)	LONGITUDE = 104°36'04.46" (104.601239)	LONGITUDE = 104°34'00.62" (104.566838)	LONGITUDE = 104°33'58.89" (104.566359)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'12.93" (39.686912)	LATITUDE = 39°41'10.93" (39.686356)	LATITUDE = 39°41'08.88" (39.685787)	LATITUDE = 39°41'08.85" (39.685778)
LONGITUDE = 104°36'02.16" (104.601123)	LONGITUDE = 104°36'02.58" (104.601239)	LONGITUDE = 104°33'58.74" (104.566838)	LONGITUDE = 104°33'57.01" (104.566359)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676338.05 E: 3252971.62	N: 1676135.30 E: 3252940.55	N: 1676025.84 E: 3262623.97	N: 1676023.89 E: 3262758.92
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676330.754 E: 2253125.097	N: 676128.011 E: 2253094.209	N: 676018.711 E: 2262777.552	N: 676022.763 E: 2262912.501

## LUSSING TRUST 4-64 19-20 4C1H

			PDOP = 1.4
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'12.57" (39.686824)	LATITUDE = 39°41'06.21" (39.685058)	LATITUDE = 39°41'04.16" (39.684489)	LATITUDE = 39°41'04.13" (39.684480)
LONGITUDE = 104°36'04.04" (104.601123)	LONGITUDE = 104°36'04.49" (104.601247)	LONGITUDE = 104°34'00.72" (104.566868)	LONGITUDE = 104°33'59.00" (104.566389)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'12.61" (39.686837)	LATITUDE = 39°41'06.26" (39.685058)	LATITUDE = 39°41'04.21" (39.684489)	LATITUDE = 39°41'04.18" (39.684480)
LONGITUDE = 104°36'02.16" (104.600600)	LONGITUDE = 104°36'02.61" (104.601247)	LONGITUDE = 104°33'58.85" (104.566868)	LONGITUDE = 104°33'57.12" (104.566389)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676338.04 E: 3252971.44	N: 1675662.40 E: 3252943.12	N: 1675552.97 E: 3262620.43	N: 1675551.02 E: 3262755.38
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676298.761 E: 2253125.271	N: 675655.119 E: 2253096.787	N: 67554.849 E: 2262774.020	N: 675543.901 E: 226908.969

 <b>ASCENT</b> <small>GEOMATICS SOLUTIONS</small>	FIELD DATE: <b>12-05-17</b>	SITE NAME: <b>LUSSING TRUST 4-64 19-20 3AH-3DH, 4AH-4DH PAD</b>	PREPARED FOR:  	
	DRAWING DATE: <b>07-24-18</b>	SURFACE LOCATION: <b>LOT 2 SW 1/4 SEC. 19, T4S, R64W, 6TH P.M.</b>		
	BY: <b>JAG</b>	<b>ARAPAHOE COUNTY, COLORADO</b>		
	CHECKED: <b>IJM</b>			

# LUSSING TRUST 4-64 19-20 3AH-3DH, 4AH-4DH PAD MULTI-WELL PLAN

## LUSSING TRUST 4-64 19-20 4D1H

			PDOP = 1.4
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'10.74" (39.686316)	LATITUDE = 39°41'04.46" (39.684572)	LATITUDE = 39°41'02.41" (39.684004)	LATITUDE = 39°41'02.38" (39.683995)
LONGITUDE = 104°36'04.05" (104.601126)	LONGITUDE = 104°36'04.50" (104.601250)	LONGITUDE = 104°34'00.76" (104.566879)	LONGITUDE = 104°33'59.04" (104.566400)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'10.79" (39.686329)	LATITUDE = 39°41'04.51" (39.684585)	LATITUDE = 39°41'02.46" (39.684017)	LATITUDE = 39°41'02.43" (39.684008)
LONGITUDE = 104°36'02.17" (104.600603)	LONGITUDE = 104°36'02.62" (104.600727)	LONGITUDE = 104°33'58.89" (104.566357)	LONGITUDE = 104°33'57.16" (104.565878)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676121.094 E: 3252972.619	N: 1675485.443 E: 3252944.079	N: 1675376.022 E: 3262619.105	N: 1675374.071 E: 3262754.056
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676113.728 E: 2253126.278	N: 675478.165 E: 2253097.749	N: 675368.903 E: 226772.698	N: 675366.955 E: 2262907.648

## LUSSING TRUST 4-64 19-20 4C2H



			PDOP = 1.4
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'10.42" (39.686228)	LATITUDE = 39°41'02.68" (39.684078)	LATITUDE = 39°41'00.64" (39.683510)	LATITUDE = 39°41'00.60" (39.683501)
LONGITUDE = 104°36'04.06" (104.601127)	LONGITUDE = 104°36'04.51" (104.601253)	LONGITUDE = 104°34'00.81" (104.566891)	LONGITUDE = 104°33'59.08" (104.566411)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'10.47" (39.686241)	LATITUDE = 39°41'02.73" (39.684091)	LATITUDE = 39°41'00.68" (39.683524)	LATITUDE = 39°41'00.65" (39.683514)
LONGITUDE = 104°36'02.18" (104.600604)	LONGITUDE = 104°36'02.63" (104.600730)	LONGITUDE = 104°33'58.93" (104.566369)	LONGITUDE = 104°33'57.20" (104.565889)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676089.101 E: 3252972.793	N: 1675305.484 E: 3252945.056	N: 1675196.074 E: 3262617.758	N: 1675194.122 E: 3262752.709
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676081.814 E: 2253126.453	N: 675298.208 E: 2253098.729	N: 675188.958 E: 2262771.354	N: 675187.009 E: 2262906.304

## LUSSING TRUST 4-64 19-20 4D2H

			PDOP = 1.4
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'10.11" (39.686140)	LATITUDE = 39°41'00.90" (39.683584)	LATITUDE = 39°40'58.86" (39.683016)	LATITUDE = 39°40'58.83" (39.683007)
LONGITUDE = 104°36'04.06" (104.601127)	LONGITUDE = 104°36'04.52" (104.601255)	LONGITUDE = 104°34'00.85" (104.566902)	LONGITUDE = 104°33'59.13" (104.566423)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'10.15" (39.686153)	LATITUDE = 39°41'00.95" (39.683597)	LATITUDE = 39°40'58.91" (39.683029)	LATITUDE = 39°40'58.87" (39.683020)
LONGITUDE = 104°36'02.18" (104.600604)	LONGITUDE = 104°36'02.64" (104.600732)	LONGITUDE = 104°33'58.97" (104.566380)	LONGITUDE = 104°33'57.25" (104.565901)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676057.108 E: 3252972.967	N: 1675125.525 E: 3252946.033	N: 1675016.125 E: 3262616.411	N: 1675014.174 E: 3262751.341
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676049.821 E: 2253126.627	N: 675118.252 E: 2253099.709	N: 675009.012 E: 2262770.010	N: 675007.064 E: 2262904.939

## LUSSING TRUST 4-64 19-20 4C3H

			PDOP = 1.4
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'09.79" (39.686053)	LATITUDE = 39°40'59.12" (39.683090)	LATITUDE = 39°40'57.079" (39.682522)	LATITUDE = 39°40'57.05" (39.682513)
LONGITUDE = 104°36'04.06" (104.601128)	LONGITUDE = 104°36'04.53" (104.601258)	LONGITUDE = 104°34'00.89" (104.566913)	LONGITUDE = 104°33'59.16" (104.566434)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°41'09.84" (39.686066)	LATITUDE = 39°40'59.17" (39.683103)	LATITUDE = 39°40'57.13" (39.682535)	LATITUDE = 39°40'57.09" (39.682526)
LONGITUDE = 104°36'02.18" (104.600605)	LONGITUDE = 104°36'02.65" (104.600735)	LONGITUDE = 104°33'59.01" (104.566391)	LONGITUDE = 104°33'57.28" (104.565912)
STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)	STATE PLANE NAD 83 (CO. CENTRAL)
N: 1676025.116 E: 3252973.140	N: 1674945.565 E: 3252947.01	N: 1674836.176 E: 3262615.065	N: 1674834.226 E: 3262749.947
STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)	STATE PLANE NAD 27 (CO. CENTRAL)
N: 676017.829 E: 2253126.801	N: 674938.295 E: 2253100.689	N: 674829.066 E: 2262768.667	N: 674827.118 E: 2262903.548

 <div>7535 Hilltop Circle Denver, CO 80221 (303) 928-7128 www.ascentgeomatics.com</div>	FIELD DATE: 12-05-17		SITE NAME: LUSSING TRUST 4-64 19-20 3AH-3DH, 4AH-4DH PAD	PREPARED FOR: 
	DRAWING DATE: 07-24-18			
	BY: JAG		SURFACE LOCATION: LOT 2 SW 1/4 SEC. 19, T4S, R64W, 6TH P.M. ARAPAHOE COUNTY, COLORADO	
	CHECKED: IJM			