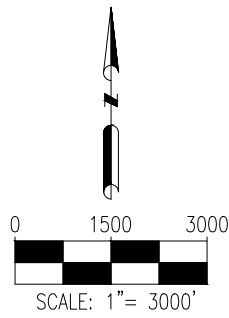
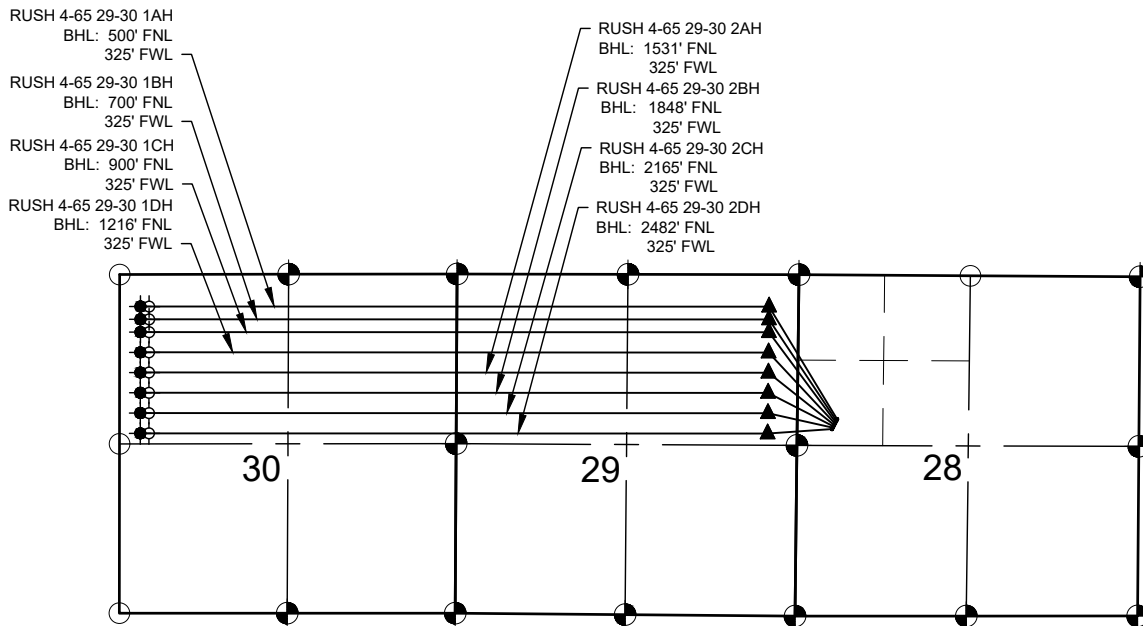


RUSH 4-65 29-30 1AH-1DH, 2AH-2DH PAD MULTI-WELL PLAN




LEGEND

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

- 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 39.696714°N, A CENTRAL MERIDIAN LONGITUDE OF 104.659538°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 SIGNATURE DATE, UNLESS OTHERWISE NOTED.

- NOTES:**
- RUSH 4-65 29-30 1AH TO BE AT 2252' FNL & 621' FWL. BOTTOM HOLE AT 500' FNL & 325' FWL, SEC. 30.
 - RUSH 4-65 29-30 1BH TO BE AT 2275' FNL & 610' FWL. BOTTOM HOLE AT 700' FNL & 325' FWL, SEC. 30.
 - RUSH 4-65 29-30 1CH TO BE AT 2297' FNL & 599' FWL. BOTTOM HOLE AT 900' FNL & 325' FWL, SEC. 30.
 - RUSH 4-65 29-30 1DH TO BE AT 2319' FNL & 588' FWL. BOTTOM HOLE AT 1216' FNL & 325' FWL, SEC. 30.
 - RUSH 4-65 29-30 2AH TO BE AT 2342' FNL & 576' FWL. BOTTOM HOLE AT 1531' FNL & 325' FWL, SEC. 30.
 - RUSH 4-65 29-30 2BH TO BE AT 2364' FNL & 565' FWL. BOTTOM HOLE AT 1848' FNL & 325' FWL, SEC. 30.
 - RUSH 4-65 29-30 2CH TO BE AT 2386' FNL & 554' FWL. BOTTOM HOLE AT 2165' FNL & 325' FWL, SEC. 30.
 - RUSH 4-65 29-30 2DH TO BE AT 2409' FNL & 543' FWL. BOTTOM HOLE AT 2482' FNL & 325' FWL, SEC. 30.

 <p>7535 Hilltop Circle Denver, CO 80221 (303) 928-7128 www.ascentgeomatics.com</p>	FIELD DATE: 04-30-18	SITE NAME: RUSH 4-65 29-30 1AH-1DH, 2AH-2DH PAD	PREPARED FOR:
	DRAWING DATE: 08-30-18	SURFACE LOCATION: SW 1/4 NW 1/4 SEC. 28 T4S, R65W, 6TH P.M. ARAPAHOE COUNTY, COLORADO	
BY: JW	CHECKED: SJH		

RUSH 4-65 29-30 1AH-1DH, 2AH-2DH PAD MULTI-WELL PLAN

RUSH 4-65 29-30 1AH

			PDOP = 1.9
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'33.09" (39.675858)	LATITUDE = 39°40'50.45" (39.68068)	LATITUDE = 39°40'50.43" (39.680676)	LATITUDE = 39°40'50.43" (39.680676)
LONGITUDE = 104°40'34.82" (104.676339)	LONGITUDE = 104°40'48.39" (104.680107)	LONGITUDE = 104°42'52.27" (104.714520)	LONGITUDE = 104°42'54.00" (104.715)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'33.14" (39.675871)	LATITUDE = 39°40'50.49" (39.680692)	LATITUDE = 39°40'50.48" (39.680688)	LATITUDE = 39°40'50.48" (39.680688)
LONGITUDE = 104°40'32.93" (104.675814)	LONGITUDE = 104°40'46.49" (104.679582)	LONGITUDE = 104°42'50.38" (104.713994)	LONGITUDE = 104°42'52.11" (104.714474)
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: 1672111.093 E: 3231840.368	N: 1673857.87 E: 3230763.877	N: 1673770.734 E: 3221078.328	N: 1673769.518 E: 3220943.242
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: 672103.515 E: 2231994.262	N: 673850.251 E: 2230917.753	N: 673762.957 E: 2221232.284	N: 673761.738 E: 2221097.199

RUSH 4-65 29-30 1BH

			PDOP = 1.9
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.87" (39.675797)	LATITUDE = 39°40'48.47" (39.680131)	LATITUDE = 39°40'48.46" (39.680127)	LATITUDE = 39°40'48.46" (39.680127)
LONGITUDE = 104°40'34.97" (104.676380)	LONGITUDE = 104°40'48.42" (104.680115)	LONGITUDE = 104°42'52.28" (104.714521)	LONGITUDE = 104°42'54.00" (104.715001)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.92" (39.675810)	LATITUDE = 39°40'48.52" (39.680144)	LATITUDE = 39°40'48.50" (39.680139)	LATITUDE = 39°40'48.50" (39.680139)
LONGITUDE = 104°40'33.08" (104.675855)	LONGITUDE = 104°40'46.52" (104.679590)	LONGITUDE = 104°42'50.38" (104.713994)	LONGITUDE = 104°42'52.11" (104.714474)
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: 1672088.769 E: 3231829.029	N: 1673657.918 E: 3230763.382	N: 1673570.795 E: 3221079.9	N: 1673569.58 E: 3220944.813
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: 672081.191 E: 2231982.924	N: 673650.302 E: 2230917.261	N: 673563.02 E: 2221233.859	N: 673561.803 E: 2221098.773

RUSH 4-65 29-30 1CH

			PDOP = 1.9
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.65" (39.675736)	LATITUDE = 39°40'46.50" (39.679582)	LATITUDE = 39°40'46.48" (39.679578)	LATITUDE = 39°40'46.48" (39.679578)
LONGITUDE = 104°40'35.12" (104.676421)	LONGITUDE = 104°40'48.44" (104.680124)	LONGITUDE = 104°42'52.28" (104.714522)	LONGITUDE = 104°42'54.01" (104.715002)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.69" (39.675749)	LATITUDE = 39°40'46.54" (39.679595)	LATITUDE = 39°40'46.52" (39.679590)	LATITUDE = 39°40'46.52" (39.679590)
LONGITUDE = 104°40'33.23" (104.675896)	LONGITUDE = 104°40'46.55" (104.679598)	LONGITUDE = 104°42'50.38" (104.713995)	LONGITUDE = 104°42'52.11" (104.714475)
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: 1672066.445 E: 3231817.690	N: 1673457.966 E: 3230762.886	N: 1673370.857 E: 3221081.471	N: 1673369.642 E: 3220946.385
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: 672058.868 E: 2231971.586	N: 673450.352 E: 2230916.768	N: 673363.085 E: 2221235.433	N: 673361.867 E: 2221100.348

RUSH 4-65 29-30 1DH

			PDOP = 1.6
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.79" (39.675775)	LATITUDE = 39°40'43.37" (39.678715)	LATITUDE = 39°40'43.36" (39.678711)	LATITUDE = 39°40'43.36" (39.67871)
LONGITUDE = 104°40'35.26" (104.676461)	LONGITUDE = 104°40'48.49" (104.680136)	LONGITUDE = 104°42'52.28" (104.714522)	LONGITUDE = 104°42'54.01" (104.715002)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.84" (39.675788)	LATITUDE = 39°40'43.42" (39.678727)	LATITUDE = 39°40'43.40" (39.678723)	LATITUDE = 39°40'43.40" (39.678723)
LONGITUDE = 104°40'33.37" (104.675936)	LONGITUDE = 104°40'46.60" (104.679611)	LONGITUDE = 104°42'50.38" (104.713996)	LONGITUDE = 104°42'52.11" (104.714476)
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: 1672080.549 E: 3231806.303	N: 1673142.042 E: 3230762.103	N: 1673054.955 E: 3221083.954	N: 1673053.739 E: 3220948.868
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: 672072.971 E: 2231960.198	N: 673134.433 E: 2230915.99	N: 673047.187 E: 2221237.92	N: 673045.968 E: 2221102.835



7535 Hilltop Circle
Denver, CO 80221
(303) 928-7128
www.ascentgeomatics.com

FIELD DATE:
04-30-18

DRAWING DATE:
08-30-18

BY:
JW

CHECKED:
SJH

SITE NAME:
RUSH 4-65 29-30 1AH-1DH, 2AH-2DH PAD

SURFACE LOCATION:
**SW 1/4 NW 1/4 SEC. 28 T4S, R65W, 6TH P.M.
ARAPAHOE COUNTY, COLORADO**

PREPARED FOR:



RUSH 4-65 29-30 1AH-1DH, 2AH-2DH PAD MULTI-WELL PLAN

RUSH 4-65 29-30 2AH

			PDOP = 1.6
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.21" (39.675614)	LATITUDE = 39°40'40.26" (39.67785)	LATITUDE = 39°40'40.25" (39.677846)	LATITUDE = 39°40'40.25" (39.677846)
LONGITUDE = 104°40'35.41" (104.676502)	LONGITUDE = 104°40'48.54" (104.680149)	LONGITUDE = 104°42'52.28" (104.714523)	LONGITUDE = 104°42'54.01" (104.715003)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.26" (39.675627)	LATITUDE = 39°40'40.31" (39.677863)	LATITUDE = 39°40'40.29" (39.677858)	LATITUDE = 39°40'40.29" (39.677858)
LONGITUDE = 104°40'33.52" (104.675977)	LONGITUDE = 104°40'46.65" (104.679624)	LONGITUDE = 104°42'50.39" (104.713997)	LONGITUDE = 104°42'52.12" (104.714477)
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: 1672021.801 E: 3231795.294	N: 1672827.118 E: 3230761.323	N: 1672740.052 E: 3221086.429	N: 1672738.836 E: 3220951.343
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: 672014.223 E: 2231949.190	N: 672819.513 E: 2230915.215	N: 672732.288 E: 2221240.4	N: 672731.069 E: 2221105.315

RUSH 4-65 29-30 2BH

			PDOP = 1.6
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'31.99" (39.675553)	LATITUDE = 39°40'37.13" (39.67698)	LATITUDE = 39°40'37.11" (39.676976)	LATITUDE = 39°40'37.11" (39.676976)
LONGITUDE = 104°40'35.55" (104.676542)	LONGITUDE = 104°40'48.58" (104.680162)	LONGITUDE = 104°42'52.29" (104.714524)	LONGITUDE = 104°42'54.01" (104.715004)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'32.04" (39.675566)	LATITUDE = 39°40'37.17" (39.676993)	LATITUDE = 39°40'37.16" (39.676988)	LATITUDE = 39°40'37.16" (39.676988)
LONGITUDE = 104°40'33.66" (104.676017)	LONGITUDE = 104°40'46.69" (104.679637)	LONGITUDE = 104°42'50.39" (104.713998)	LONGITUDE = 104°42'52.12" (104.714477)
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: 1671999.480 E: 3231784.237	N: 1672510.194 E: 3230760.537	N: 1672423.15 E: 3221088.92	N: 1672421.934 E: 3220953.834
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: 671991.903 E: 2231938.134	N: 672502.593 E: 2230914.434	N: 672415.39 E: 2221242.896	N: 672414.171 E: 2221107.811

RUSH 4-65 29-30 2CH

			PDOP = 1.6
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'31.77" (39.675492)	LATITUDE = 39°40'34.00" (39.67611)	LATITUDE = 39°40'33.98" (39.676106)	LATITUDE = 39°40'33.98" (39.676106)
LONGITUDE = 104°40'35.70" (104.676583)	LONGITUDE = 104°40'48.63" (104.680175)	LONGITUDE = 104°42'52.29" (104.714525)	LONGITUDE = 104°42'54.02" (104.715005)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'31.82" (39.675505)	LATITUDE = 39°40'34.04" (39.676123)	LATITUDE = 39°40'34.03" (39.676118)	LATITUDE = 39°40'34.03" (39.676118)
LONGITUDE = 104°40'33.81" (104.676058)	LONGITUDE = 104°40'46.74" (104.679650)	LONGITUDE = 104°42'50.39" (104.713998)	LONGITUDE = 104°42'52.12" (104.714478)
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: 1671977.156 E: 3231772.898	N: 1672193.27 E: 3230759.752	N: 1672106.248 E: 3221091.411	N: 1672105.032 E: 3220956.325
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: 671969.579 E: 2231926.795	N: 672185.673 E: 2230913.654	N: 672098.492 E: 2221245.392	N: 672097.273 E: 2221110.307

RUSH 4-65 29-30 2DH

			PDOP = 1.6
NAD 83 (SURFACE LOCATION)	NAD 83 (BEG. PROD. INTERVAL)	NAD 83 (ENDING PROD. INTERVAL)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'31.55" (39.675431)	LATITUDE = 39°40'30.87" (39.67524)	LATITUDE = 39°40'30.85" (39.675236)	LATITUDE = 39°40'30.85" (39.675236)
LONGITUDE = 104°40'35.84" (104.676623)	LONGITUDE = 104°40'48.68" (104.680188)	LONGITUDE = 104°42'52.29" (104.714526)	LONGITUDE = 104°42'54.02" (104.715006)
NAD 27 (SURFACE LOCATION)	NAD 27 (BEG. PROD. INTERVAL)	NAD 27 (ENDING PROD. INTERVAL)	NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 39°40'31.60" (39.675444)	LATITUDE = 39°40'39.91" (39.675253)	LATITUDE = 39°40'30.89" (39.675248)	LATITUDE = 39°40'30.89" (39.675248)
LONGITUDE = 104°40'33.35" (104.675098)	LONGITUDE = 104°40'46.79" (104.679663)	LONGITUDE = 104°42'50.40" (104.713999)	LONGITUDE = 104°42'52.13" (104.714479)
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: 1671954.835 E: 3231761.841	N: 1671876.346 E: 3230758.966	N: 1671789.346 E: 3221093.902	N: 1671788.13 E: 3220958.815
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: 671947.258 E: 2231915.738	N: 671868.754 E: 2230912.873	N: 671781.594 E: 2221247.887	N: 671780.375 E: 2221112.801



7535 Hilltop Circle
Denver, CO 80221
(303) 928-7128
www.ascentgeomatics.com

FIELD DATE:
04-30-18

DRAWING DATE:
08-30-18

BY:
JW

CHECKED:
SJH

SITE NAME:
RUSH 4-65 29-30 1AH-1DH, 2AH-2DH PAD

SURFACE LOCATION:
**SW 1/4 NW 1/4 SEC. 28 T4S, R65W, 6TH P.M.
ARAPAHOE COUNTY, COLORADO**

PREPARED FOR:

