S-17-3

1932582 - R8 SEMS

CHECKED & EDITTED
2/7/91

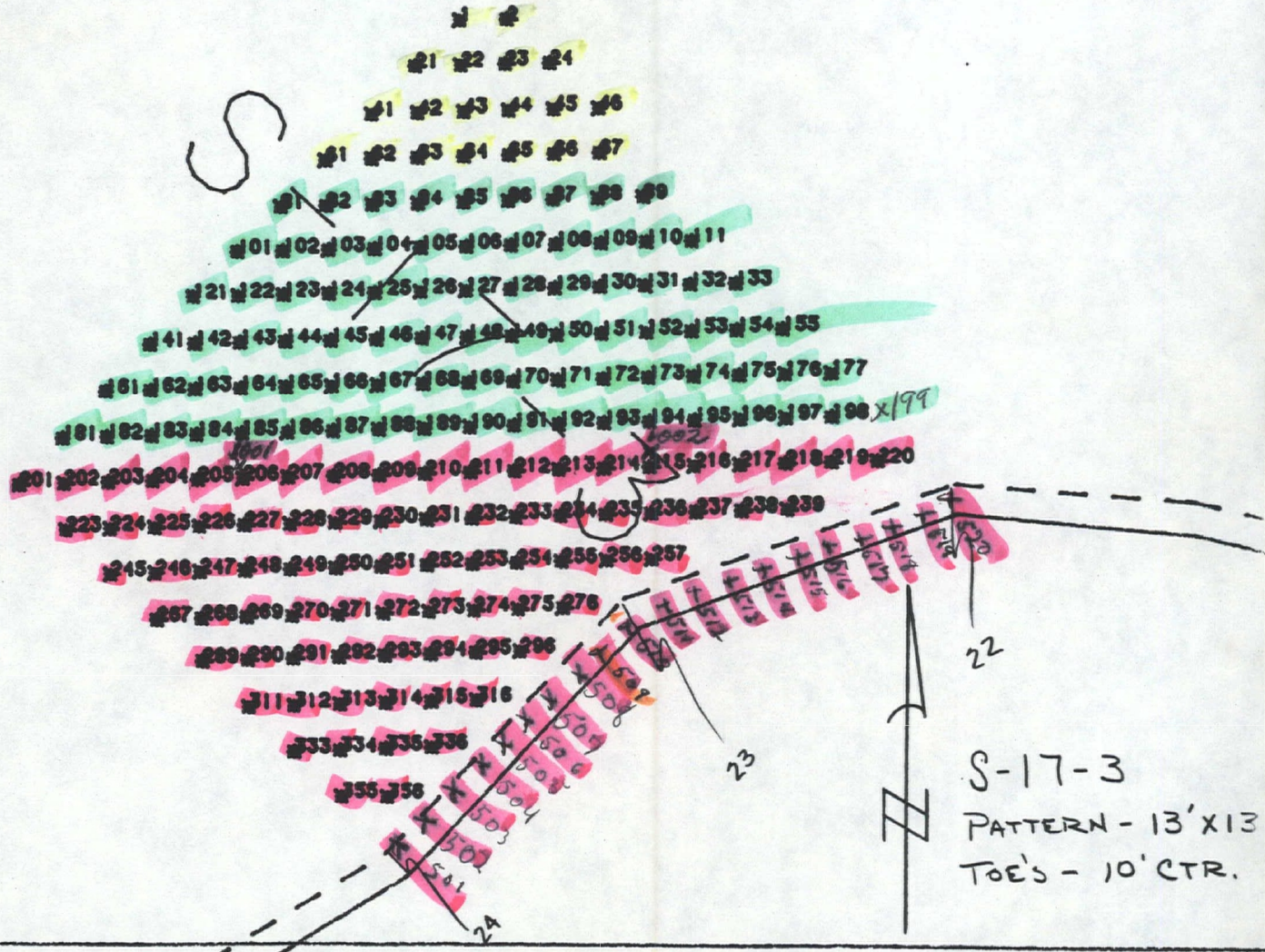
BENCH NO	SHOT NO	BLASTHOLE NO	ORE TYPE	FIRE AU	AA AU	AA/FIRE	AA/RAT	
S17	3	1	3		0.007		0.008	
S17	3	2	3	0.008	0.009	112.50%	0.008	
S17	3	21	3	0.017	0.015	88.24%	0.017	
S17	3	22	3		0.016		0.017	
S17	3	23	3		0.023		0.024	
S17	3	24	3		0.016		0.017	
S17	3	41	3		0.015		0.016	
S17	3	42	3	0.024	0.021	87.50%	0.024	
S17	3	43	3		0.026		0.028	
S17	3	44	3		0.022		0.023	
S17	3	45	3	0.019	0.017	89.47%	0.019	
S17	3	46	3	0.017	0.015	88.24%	0.017	
S17	3	61	3	0.025	0.023	92.00%	0.025	
S17	3	62	3		0.021		0.022	
S17	3	63	3		0.015		0.016	
S17	3	64	3		0.016		0.017	
S17	3	65	3		0.012		0.013	
S17	3	66	3		0.009		0.010	
S17	3	67	3	0.020	0.016	80.00%	0.020	
S17	3	81	3	0.018	0.017	94.44%	0.018	
S17	3	82	3		0.011		0.012	
S17	3	83	3		0.023		0.024	
S17	3	84	3		0.015		0.016	
S17	3	85	3		0.023		0.024	
S17	3	86	3	0.018	0.016	88.89%	0.018	
S17	3	87	3		0.019		0.020	
S17	3	88	3		0.007		0.008	
S17	3	89	3		0.011		0.012	
S17	3	101	3		0.010		0.011	
S17	3	102	3	0.028	0.028	100.00%	0.028	
S17	3	103	3		0.016		0.017	
S17	3	104	3	0.010	0.007	70.00%	0.010	
S17	3	105	3		0.009		0.010	
S17	3	106	3	0.009	0.007	77.78%	0.009	
S17	3	107	3		0.009		0.010	
S17	3	108	3		0.009		0.010	
S17	3	109	3		0.012		0.013	
S17	3	110	3	0.018	0.019	105.56%	0.018	
S17	3	111	3		0.012		0.013	
S17	3	121	3	0.013	0.010	76.92%	0.013	
S17	3	122	3		0.022		0.023	
S17	3	123	3		0.012		0.013	
S17	3	124	3		0.004		0.004	
S17	3	125	3	0.012	~~0.011~~	91.67%	0.012	.010
S17	3	126	3	0.020	0.021	105.00%	0.020	
S17	3	127	3		0.008		0.009	
S17	3	128	3		0.021		0.022	
S17	3	129	3		0.015		0.016	
S17	3	130	3		0.014		0.015	
S17	3	131	3	0.044	0.049	111.36%	0.044	
S17	3	132	3	0.022	0.022	100.00%	0.022	
S17	3	133	3		0.015		0.016	
S17	3	141	3		0.010		0.011	
S17	3	142	3		0.014		0.015	

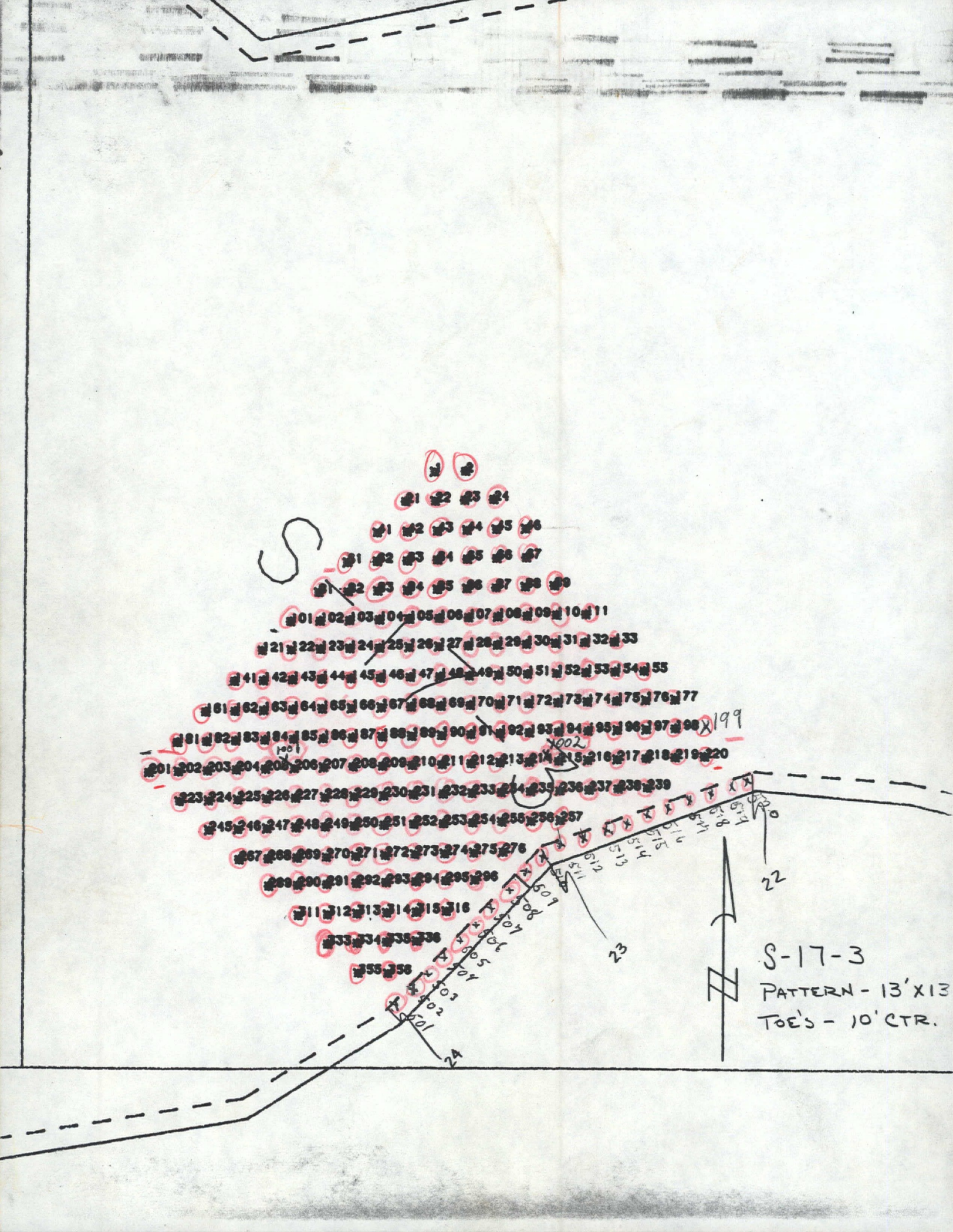
S17	3	143	3		0.007		0.008	
S17	3	144	3		0.008		0.009	
S17	3	145	3		0.010		0.011	
S17	3	146	3		0.009		0.010	
S17	3	147	3		0.008		0.009	
S17	3	148	3	0.009	0.008	88.89%	0.009	
S17	3	149	3		0.010		0.011	
S17	3	150	3		0.023		0.024	
S17	3	151	3	0.022	0.020	90.91%	0.022	
S17	3	152	3	0.012	0.009	75.00%	0.012	
S17	3	153	3		0.019		0.020	
S17	3	154	3		0.022		0.023	
S17	3	155	3	0.025	0.030	120.00%	0.025	
S17	3	161	3		0.010		0.011	
S17	3	162	3		0.009		0.010	
S17	3	163	3	~~0.028~~	0.032	114.29%	0.028	.027
S17	3	164	3		0.014		0.015	
S17	3	165	3		0.006		0.007	
S17	3	166	3		0.013		0.014	
S17	3	167	3		0.017		0.018	
S17	3	168	3		0.018		0.019	
S17	3	169	3		0.014		0.015	
S17	3	170	3	0.007	0.007	100.00%	0.007	
S17	3	171	3	0.026	0.027	103.85%	0.026	
S17	3	172	3		0.015		0.016	
S17	3	173	3		0.018		0.019	
S17	3	174	3	0.023	0.032	139.13%	0.023	
S17	3	175	3		0.025		0.027	
S17	3	176	3		0.013		0.014	
S17	3	177	3		0.006		0.007	
S17	3	181	3		0.009		0.010	
S17	3	182	3		0.013		0.014	
S17	3	183	3		0.030		0.034	
S17	3	184	3	~~0.028~~	0.023	82.14%	0.028	.030
S17	3	185	3		0.008		0.009	
S17	3	186	3		0.008		0.009	
S17	3	187	3	0.016	0.015	93.75%	0.016	
S17	3	188	3		0.013		0.014	
S17	3	189	3	0.012	0.011	91.67%	0.012	
S17	3	190	3		0.012		0.013	
S17	3	191	3	0.020	0.022	110.00%	0.020	
S17	3	192	3		0.014		0.015	
S17	3	193	3		0.011		0.012	
S17	3	194	3		0.012		0.013	
S17	3	195	3		0.007		0.008	
S17	3	196	3		0.024		0.026	
S17	3	197	3		0.022		0.023	
S17	3	198	3	0.019	0.021	110.53%	0.019	
S17	3	199	3	0.008	0.008	100.00%	0.008	
S17	3	201	3	0.030	0.011	36.67%	0.030	
S17	3	202	3		0.002		0.002	
S17	3	203	3		0.005		0.005	
S17	3	204	3		0.004		0.004	
S17	3	205	3	0.018	0.012	66.67%	0.018	
S17	3	206	3		0.009		0.010	
S17	3	207	3		0.016		0.017	

S17	3	208	3		0.011		0.012	
S17	3	209	3		0.009		0.010	
S17	3	210	3	0.012	0.011	91.67%	0.012	
S17	3	211	3		0.017		0.018	
S17	3	212	3		0.025		0.027	
S17	3	213	3		0.012		0.013	
S17	3	214	3		0.015		0.016	
S17	3	215	3		0.010		0.011	
S17	3	216	3	0.014	0.017	121.43%	0.014	
S17	3	217	3		0.015		0.016	
S17	3	218	3	0.023	0.026	113.04%	0.023	
S17	3	219	3		0.011		0.012	
S17	3	220	3	0.008	0.007	87.50%	0.008	
S17	3	223	3	0.007	0.005	71.43%	0.007	
S17	3	224	3		0.005		0.005	
S17	3	225	3		0.006		0.007	
S17	3	226	3		0.012		0.013	
S17	3	227	3	0.008	0.006	75.00%	0.008	
S17	3	228	3		0.011		0.012	
S17	3	229	3	0.008	0.007	87.50%	0.008	
S17	3	230	3		0.012		0.013	
S17	3	231	3		0.031		0.035	
S17	3	232	3	0.014	0.013	92.86%	0.014	
S17	3	233	3		0.009		0.010	
S17	3	234	3		0.023		0.024	
S17	3	235	3		0.037		0.042	
S17	3	236	3		0.052		0.058	
S17	3	237	3		0.046		0.052	
S17	3	238	3	0.035	0.036	102.86%	0.035	
S17	3	239	3	0.022	0.021	95.45%	0.022	
S17	3	245	3		0.003		0.003	
S17	3	246	3	0.008	0.005	62.50%	0.008	
S17	3	247	3		0.011		0.012	
S17	3	248	3		0.013		0.014	
S17	3	249	3		0.014		0.015	
S17	3	250	3	0.025	0.022	88.00%	0.025	
S17	3	251	3	~~0.049~~	0.055	112.24%	0.049	.050
S17	3	252	3	0.026	0.022	84.62%	0.026	
S17	3	253	3		0.056		0.063	
S17	3	254	3		0.022		0.023	
S17	3	255	3	0.037	0.041	110.81%	0.037	
S17	3	256	3	0.021	0.020	95.24%	0.021	
S17	3	257	3		0.022		0.023	
S17	3	267	3		0.013		0.014	
S17	3	268	3		0.021		0.022	
S17	3	269	3		0.032		0.036	
S17	3	270	3	0.021	0.021	100.00%	0.021	
S17	3	271	3		0.053		0.060	
S17	3	272	3		0.050		0.056	
S17	3	273	3		0.042		0.047	
S17	3	274	3		0.044		0.049	
S17	3	275	3		0.039		0.044	
S17	3	276	3	0.036	0.035	97.22%	0.036	
S17	3	289	3		0.051		0.057	
S17	3	290	3	0.104	0.109	104.81%	0.104	
S17	3	291	3		0.087		0.123	

S17	3	292	3	0.037	0.039	105.41%	0.037	
S17	3	293	3		0.027		0.029	
S17	3	294	3		0.045		0.051	
S17	3	295	3		0.049		0.055	
S17	3	296	3		0.041		0.046	
S17	3	311	3		0.083		0.117	
S17	3	312	3	0.103	0.101	98.06%	0.103	
S17	3	313	3	0.020	0.019	95.00%	0.020	
S17	3	314	3		0.021		0.022	
S17	3	315	3	0.022	0.022	100.00%	0.022	
S17	3	316	3	0.019	0.020	105.26%	0.019	
S17	3	333	3	0.024	0.026	108.33%	0.024	
S17	3	334	3		0.023		0.024	
S17	3	335	3		0.022		0.023	
S17	3	336	3		0.018		0.019	
S17	3	355	3		0.058		0.065	
S17	3	356	3		0.012		0.013	
S17	3	501	3	0.022	0.022	100.00%	0.022	
S17	3	502	3		0.010		0.011	
S17	3	503	3		0.014		0.015	
S17	3	504	3		0.013		0.014	
S17	3	505	3	0.017	0.015	88.24%	0.017	
S17	3	506	3		0.026		0.028	
S17	3	507	3		0.016		0.017	
S17	3	508	3	~~0.051~~	0.052	101.96%	0.051	.049
S17	3	509	3		0.031		0.035	
S17	3	510	3		0.026		0.028	
S17	3	511	3		0.021		0.022	
S17	3	512	3	0.019	0.020	105.26%	0.019	
S17	3	513	3		0.043		0.048	
S17	3	514	3	0.032	0.037	115.63%	0.032	
S17	3	515	3		0.045		0.051	
S17	3	516	3		0.056		0.063	
S17	3	517	3		0.022		0.023	
S17	3	518	3	0.014	0.009	64.29%	0.014	
S17	3	519	3		0.008		0.009	
S17	3	520	3		0.019		0.020	
S17	3	1001	3	0.010	0.012	120.00%	0.010	
S17	3	1002	3	0.018	0.025	138.89%	0.018	
		MEAN		0.023	0.021	95.87%	0.022	

68 - 1/16/91 9:30 am
34 1/16/91 1:30 pm
64 1/16/91 9:25 am
20 1/16/91 1:45 pm
28 1/17/91 - 9:00 am




S-17-3
PATTERN - 13'X13'
TOE'S - 10' CTR.

Pit-Bench-Pattern #
S-17-3 Pattern Complete
Submittal Date
1-17-91 9:00 am

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-18-91
NAME: MM KW

(1)

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	1		.007	25.	Standard ✓		.015
2.	2	.008	.009	26.	66		.009
3.	21	.016	.015	27.	67	.020	.016
4.	21C	.017	.015	28.			
5.	22		.016	29.			
6.	23		.023	30.			
7.	✓ Pulp		.030	31.			
8.	Standard ✓		.015	32.			
9.	24		.016	33.			
10.	41		.015	34.			
11.	42	.024	.021	35.			
12.	43		.026	36.			
13.	44		.022	37.			
14.	45	.019	.017	38.			
15.	46	.017	.015	39.			
16.				40.			
17.				41.			
18.	46C	.017	.015	42.	Standard ✓		
19.	61-1	.025	.023	43.			
20.	61-2		.024	44.			
21.	62		.021	45.			
22.	63		.015	46.			
23.	64		.016	47.			
24.	65		.012	48.			

LLD

Pit-Bench-Pattern #

S-17-3

Submittal Date

1-15-91 9:30 am

BLAST HOLE

Hot RoCN Shake and FIRE DETERMINATIONS

DATE: 1-16-91

NAME: MM

	SAMPLE	FIRE Au.	RoCN Au.		SAMPLE	FIRE Au.	RoCN Au.
1.	223	.007	.005	25.	Standard ✓		.014
2.	224		.005	26.	239C	.022	.021
3.	225		.006	27.	245		.003
4.	226		.012	28.	246	.008	.005
5.	227	.006	.005	29.	247		.011
6.	227C	.008	.006	30.	248		.013
7.	228		.011	31.	249		.014
8.	Standard ✓		.015	32.	250	.025	.022
9.	229	.011	.008	33.			
10.	229C	.008	.007	34.			
11.	✓ Pulp		.031	35.	251	.050	.055 Rerun .049
12.	230		.012	36.	252	.022	.023
13.	231		.031	37.	252C	.026	.022
14.	232	.014	.013	38.	253		.056
15.	233		.009	39.	254		.022
16.				40.	255	.037	.041
17.				41.	256	.021	.020
18.	234		.023	42.	Standard ✓		.015
19.	235		.037	43.	257		.022
20.	236		.052	44.	267		.013
21.	237		.046	45.	268		.021
22.	238-1	.033	.034	46.	269		.032
23.	238-2	.037	.038	47.	270	.021	.021
24.	239	.023	.023	48.		Std ✓	.015

LD ✓

Pit-Bench-Pattern #
S-17-3
Submittal Date
1-16-91

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-17-91
NAME: MM

(1)

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.	
1.	121	.013	.010	25.	Standard ✓		.015	
2.	122		.022	26.	146		.009	
3.	123		.012	27.	147		.008	
4.	124		.004	28.	148-1	.009	.007	
5.	125	.012	.011	29.	148-2		.008	
6.	125C	.012	.010	30.	149		.010	
7.	126	.020	.021	31.	150		.023	
8.	Standard ✓		.015	32.	151	.022	.020	
9.	127		.008	33.				
10.	128		.021	34.				
11.	129		.015	35.	152	.020	.013	
12.	✓Pulp		.031	36.	152C	.012	.009	
13.	130		.014	37.	153		.019	
14.	131	.052	.060	38.	154		.022	
15.	131C	.044	.049	39.	155	.031	.034	Rerun .028
16.				40.	155C	.025	.030	Rerun .025
17.				41.	161		.010	
18.	132	.022	.022	42.	Standard ✓		.015	
19.	133		.015	43.	162		.009	
20.	141		.010	44.	163	.026	.032	Rerun .028
21.	142		.014	45.	164		.014	
22.	143		.007	46.	165		.006	
23.	144		.008	47.		Std ✓	.015	
24.	145		.010	48.				

.031 Rerun
Rerun .044

LLD ✓

Pit-Bench-Pattern #

S-17-3

Submittal Date

1-15-91 9:30 am

BLAST HOLE

Bot BoCN Shale and FIRE DETERMINATIONS

DATE: 1-16-91

NAME: MM

	SAMPLE	FIRE Au.	BoCN Au.
1.	271		.053
2.	272		.050
3.	273		.042
4.	274		.044
5.	275		.039
6.	276	.045	.047
7.	Vpulp		.031
8.	Standard ✓		.015
9.	289		.051
10.	290	.103	.109
11.	291		.087
12.	292	.037	.039
13.	293		.027
14.	294		.045
15.	295		.049
16.			
17.			
18.	296		.041
19.	311		.083
20.	312	.103	.101
21.	313	.020	.019
22.	314		.021
23.	315	.024	.022
24.	315C	.022	.022
25.	Standard ✓		.014
26.	276C	.036	.035
27.	333	.024	.026
28.	334		.023
29.	335		.022
30.	336		.018
31.	355		.058
32.	356		.012
33.			
34.			
35.	501-1	.022	.022
36.	501-2		.021
37.	502		.010
38.	503		.014
39.	504		.013
40.	505	.017	.015
41.	506		.026
42.	Standard ✓		.015
43.	507		.016
44.	508	.046	.052
45.	316	.019	.020
46.		Std ✓	.014
47.			
48.			

Rerun .104

Rerun .051

LD ✓

Pit-Bench-Pattern /
S-17-3

Submittal Date
1-16-91

BLAST HOLE
Hot RoCK Shale
and
FIRE DETERMINATIONS

DATE: 1-17-91
NAME: MM

	SAMPLE	FIRE Au.	RoCK Au.		SAMPLE	FIRE Au.	RoCK Au.
1.	166		013	25.	Standard ✓		
2.	167		017	26.	187	.016	015
3.	168		018	27.	188		013
4.	169		014	28.	189-1	.012	011
5.	170	.007	007	29.	189-2		011
6.	170C		007	30.	190		012
7.	171	.026	027	31.	191	.020	022
8.	Standard ✓			32.	192		014
9.	172		015	33.			
10.	173		018	34.			
11.	174	.085	032	35.	193		011
12.	V Pulp		033	36.	194		012
13.	175		025	37.	195		007
14.	176		013	38.	196		024
15.	177		006	39.	197		022
16.				40.	198	.019	021
17.				41.	199	.008	007
18.	181		009	42.	Standard ✓		
19.	182		013	43.	199C	.008	008
20.	183		030	44.			
21.	184	.038	022	45.			
22.	184C	.028	023	46.			
23.	185		008	47.			
24.	186		008	48.			

Rerun .023

Rerun .031

Rerun .032

LLD

Pit-Bench-Pattern #

S-17-3

Submittal Date

1-15-91 1:30pm

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

DATE: 1-16-91

NAME: MM

3

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	201	.030	.011	25.	Standard ✓		
2.	202		.002	26.	219		.011
3.	203		.005	27.	220-1	.008	.007
4.	204		.004	28.	220-2		.007
5.	205	.012	.010	29.	509		.031
6.	205C	.018	.012	30.	510		.026
7.	206		.009	31.	511		.021
8.	Standard ✓			32.	512	.019	.020
9.	207		.016	33.			
10.	208		.011	34.			
11.	209		.009	35.	513		.043
12.	Pulp		.032	36.	514	.034	.033
13.	210	.012	.011	37.	514C	.032	.037
14.	211		.017	38.	515		.045
15.	212		.025	39.	516		.056
16.				40.	517		.022
17.				41.	518	.014	.009
18.	213		.012	42.	Standard ✓		
19.	214		.015	43.	519		.008
20.	215		.010	44.	520		.019
21.	216	.013	.012	45.	1001	.010	.012
22.	216C	.014	.017	46.	1002	.018	.025
23.	217		.015	47.			
24.	218	.023	.026	48.			

L.D. ✓

Pit-Bench-Pattern #
S-17-3

Submittal Date
1-16-91

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-17-91

NAME: MM

(3)

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	81	.018	017	25.	Standard ✓		
2.	82		011	26.	109		012
3.	83		023	27.	110	.018	019
4.	84		015	28.	111		012
5.	85		023	29.			
6.	86		014	30.			
7.	86C	.018	016	31.			
8.	Standard ✓			32.			
9.	87		019	33.	[redacted]		
10.	88		007	34.			
11.	89		011	35.			
12.	Vpulp		032	36.			
13.	101		010	37.			
14.	102	.028	028	38.			
15.	103		016	39.			
16.	[redacted]			40.			
17.				41.			
18.	104	.011	008	42.	Standard ✓		
19.	104 C	.010	007	43.			
20.	105		009	44.			
21.	106-1	.009	006	45.			
22.	106-2		007	46.			
23.	107		009	47.			
24.	108		009	48.			

H.D

BROHM MINING CORPORATION
BLAST HOLE ORE TYPE

PATTERN S-17-3 DATE 1/15/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF	MIX	OXIDE
223			x	275			x	515			x				
224			x	276			x	516			x				
225			x					517			x				
226			x	289			x	518			x				
227			x	290			x	519			x				
228			x	291			x	520			x				
229			x	292			x								
230			x	293			x	201			x				
231			x	294			x	202			x				
232			x	295			x	203			x				
233			x	296			x	204			x				
234			x					205			x				
235			x	311			x	206			x				
236			x	312			x	207			x				
237			x	313			x	208			x				
238			x	314			x	209			x				
239			x	315			x	210			x				
				316			x	211			x				
245			x					212			x				
246			x	333			x	213			x				
247			x	334			x	214			x				
248			x	335			x	215			x				
249			x	336			x	216			x				
250			x					217			x				
251			x	355			x	218			x				
252			x	356			x	219			x				
253			x					220			x				
254			x	501			x								
255			x	502			x	1001			x				
256			x	503			x	1002			x				
257			x	504			x								
				506			x								
267			x	507			x								
268			x	508			x								
269			x	509			x								
270			x	510			x								
271			x	511			x								
272			x	512			x								
273			x	513			x								
274			x	514			x								

BROHM MINING CORPORATION
BLAST HOLE ORE TYPE

PATTERN 5-17-3 DATE 1/16/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF	MIX	OXIDE
181			x	143			x	81			x				
182			x	144			x	82			x				
183			x	145			x	83			x				
184			x	146			x	84			x				
185			x	147			x	85			x				
186			x	148			x	86			x				
187			x	149			x	87			x				
188			x	150			x	88			x				
189			x	151			x	89			x				
190			x	152			x								
191			x	153			x								
192			x	154			x								
193			x	155			x								
194			x												
195			x	121			x								
196			x	122			x								
197			x	123			x								
198			x	124			x								
199			x	125			x								
				126			x								
161			x	127			x								
162			x	128			x								
163			x	129			x								
164			x	130			x								
165			x	131			x								
166			x	132			x								
169			x	133			x								
168			x												
169			x	101			x								
170			x	102			x								
171			x	103			x								
172			x	104			x								
173			x	105			x								
174			x	106			x								
175			x	107			x								
176			x	108			x								
177			x	109			x								
				110			x								
141			x	111			x								
142			x												

BROHM MINING CORPORATION
BLAST HOLE ORE TYPE

PATTERN S-17-3

DATE 1/17/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF	MIX	OXIDE
1			X												
2			X												
21			X												
22			X												
23			X												
24			X												
41			X												
42			X												
43			X												
44			X												
45			X												
46			X												
61			X												
62			X												
63			X												
64			X												
65			X												
66			X												
67			X												