S-17-4

1932583 - R8 SEMS

CHECKED & EDITTED
2/5/91

BENCH NO	SHOT NO	BLASTHOLE NO	ORE TYPE	FIRE AU	AA AU	AA/FIRE	AA/RAT		
S17	4	16	3	0.027	0.025	92.59%	0.027		
S17	4	34	3	0.047	0.041	87.23%	0.047		
S17	4	35	3		0.030		0.034		
S17	4	36	3	0.036	~~0.039~~	108.33%	0.036	.040	
S17	4	52	3		0.054		0.061		
S17	4	53	3	0.021	0.020	95.24%	0.021		
S17	4	54	3	~~0.170~~	~~0.178~~	104.71%	0.170	.173	.181
S17	4	55	3	~~0.261~~	~~0.272~~	104.21%	0.261	.264	.275
S17	4	70	3		0.044		0.049		
S17	4	71	3	0.042	0.043	102.38%	0.042		
S17	4	72	3		0.034		0.038		
S17	4	73	3	0.126	0.130	103.17%	0.126		
S17	4	74	3	0.371	0.351	94.61%	0.371		
S17	4	75	3	0.044	0.044	100.00%	0.044		
S17	4	88	3		0.030		0.034		
S17	4	89	3		0.023		0.024		
S17	4	90	3	0.037	0.037	100.00%	0.037		
S17	4	91	3	0.140	0.132	94.29%	0.140		
S17	4	92	3		0.016		0.017		
S17	4	93	3		0.068		0.078		
S17	4	94	3	0.123	0.122	99.19%	0.123		
S17	4	106	3	0.013	0.011	84.62%	0.013		
S17	4	107	3		0.018		0.019		
S17	4	108	3		0.051		0.057		
S17	4	109	3		0.050		0.056		
S17	4	110	3	0.166	0.171	103.01%	0.166		
S17	4	111	3		0.028		0.030		
S17	4	112	3		0.036		0.040		
S17	4	113	3		0.073		0.084		
S17	4	114	3		0.074		0.085		
S17	4	124	3		0.009		0.010		
S17	4	125	3		0.031		0.035		
S17	4	126	3	0.028	0.028	100.00%	0.028		
S17	4	127	3		0.012		0.013		
S17	4	128	3	0.021	0.021	100.00%	0.021		
S17	4	129	3		0.017		0.018		
S17	4	130	3	0.056	0.057	101.79%	0.056		
S17	4	131	3		0.025		0.027		
S17	4	132	3		0.026		0.028		
S17	4	133	3	0.136	0.141	103.68%	0.136		
S17	4	142	3		0.008		0.009		
S17	4	143	3		0.010		0.011		
S17	4	144	3	0.019	0.021	110.53%	0.019		
S17	4	145	3		0.034		0.038		
S17	4	146	3		0.010		0.011		
S17	4	147	3	0.009	~~0.008~~	88.89%	0.009	.009	
S17	4	148	3		~~0.010~~		0.011	.008	
S17	4	149	3	~~0.021~~	0.013	61.90%	0.021	.012	
S17	4	150	3		0.081		0.114		
S17	4	151	3	0.029	0.025	86.21%	0.029		
S17	4	152	3		0.049		0.055		
S17	4	161	3	0.014	0.013	92.86%	0.014		
S17	4	162	3	0.012	0.010	83.33%	0.012		
S17	4	163	3		0.008		0.009		

S17	4	164	2		0.005		0.005	
S17	4	165	2	0.008	0.011	137.50%	0.008	
S17	4	166	3		0.012		0.013	
S17	4	167	3		0.009		0.010	
S17	4	168	3		0.006		0.007	
S17	4	169	3		0.083		0.117	
S17	4	170	3	0.074	0.073	98.65%	0.074	
S17	4	171	3		0.050		0.056	
S17	4	181	3		0.007		0.008	
S17	4	182	3		0.009		0.010	
S17	4	183	2		0.007		0.008	
S17	4	184	2	0.010	0.017	170.00%	0.010	
S17	4	185	1	0.013	0.012	92.31%	0.013	
S17	4	186	2	0.021	0.020	95.24%	0.021	
S17	4	187	3		0.018		0.019	
S17	4	188	3		0.025		0.027	
S17	4	189	3	0.033	0.037	112.12%	0.033	
S17	4	190	3	0.100	0.107	107.00%	0.100	
S17	4	201	3		0.005		0.005	
S17	4	202	2	0.009	0.009	100.00%	0.009	
S17	4	203	2	0.010	0.017	170.00%	0.010	
S17	4	204	1	0.014	0.013	92.86%	0.014	
S17	4	205	3		0.017		0.018	
S17	4	206	3		0.016		0.017	
S17	4	207	3	0.028	0.029	103.57%	0.028	
S17	4	208	3		0.007		0.008	
S17	4	209	3		0.013		0.014	
S17	4	221	1	0.016	0.012	75.00%	0.016	
S17	4	222	3		0.017		0.018	
S17	4	223	1	0.010	0.015	150.00%	0.010	
S17	4	224	3	0.012	0.012	100.00%	0.012	
S17	4	225	3		0.026		0.028	
S17	4	226	3		0.009		0.010	
S17	4	227	3	0.011	0.012	109.09%	0.011	
S17	4	228	3		0.015		0.016	
S17	4	241	3		0.011		0.012	
S17	4	242	1		0.009		0.010	
S17	4	243	3	0.021	0.013	61.90%	0.021	
S17	4	244	2	0.025	0.027	108.00%	0.025	
S17	4	245	3		0.036		0.040	
S17	4	246	3		0.013		0.014	
S17	4	247	3		0.036		0.040	
S17	4	261	1	0.026	0.028	107.69%	0.026	
S17	4	262	2	0.067	0.065	97.01%	0.067	
S17	4	263	3		0.059		0.066	
S17	4	264	3		0.025		0.027	
S17	4	265	3		0.029		0.031	
S17	4	266	3		0.135		0.190	.116
S17	4	281	2	0.057	0.064	112.28%	0.057	
S17	4	282	3		0.053		0.060	
S17	4	283	3	0.024	0.021	87.50%	0.024	
S17	4	284	3	0.014	0.012	85.71%	0.014	
S17	4	285	3	0.116	0.119	102.59%	0.116	
S17	4	301	3		0.031		0.035	
S17	4	302	3	0.058	0.061	105.17%	0.058	
S17	4	303	3	0.006	0.005	83.33%	0.006	

S17	4	304	2	0.049	0.051	104.08%	0.049		
S17	4	305	3	0.002	0.002	100.00%	0.002		
S17	4	321	3		0.005		0.005		
S17	4	322	3		0.050		0.056		
S17	4	323	3	0.106	0.115	108.49%	0.106		
S17	4	324	3	0.003	0.003	100.00%	0.003		
S17	4	341	3		0.064		0.074		
S17	4	342	3	0.018	0.020	111.11%	0.018		
S17	4	343	3	0.003	0.003	100.00%	0.003		
S17	4	361	3		0.031		0.035		
S17	4	362	3		0.003		0.003		
S17	4	381	3	0.007	0.010	142.86%	0.007		
S17	4	501	3	0.006	0.004	66.67%	0.006		
S17	4	502	3		0.008		0.009		
S17	4	503	3		0.003		0.003		
S17	4	504	3		0.007		0.008		
S17	4	505	3		0.001		0.001		
S17	4	506	3	0.020	0.020	100.00%	0.020		
S17	4	507	3		0.002		0.002		
S17	4	508	3		0.002		0.002		
S17	4	509	3	0.020	0.020	100.00%	0.020		
S17	4	510	3		0.045		0.051		
S17	4	511	3		0.032		0.036		
S17	4	512	3		0.050		0.056		
S17	4	513	3	0.126	~~0.133~~	105.56%	0.126	.134	
S17	4	514	3		0.082		0.115		
S17	4	515	3	~~0.151~~	~~0.157~~	103.97%	0.151	.150	.158
S17	4	516	3	~~0.106~~	0.108	101.89%	0.106	.105	
S17	4	517	3	~~0.070~~	~~0.104~~	148.57%	0.070	.085	.105
S17	4	518	3	0.047	~~0.051~~	108.51%	0.047		.052
S17	4	519	3	~~0.133~~	~~0.137~~	103.01%	0.133	.132	.139
S17	4	520	3	0.219	0.203	92.69%	0.219		
S17	4	521	3		0.025		0.027		
S17	4	522	3		0.054		0.061		
S17	4	523	3	0.009	0.007	77.78%	0.009		
S17	4	524	3	0.034	0.031	91.18%	0.034		
S17	4	525	3		0.011		0.012		
S17	4	526	3	0.010	0.008	80.00%	0.010		
S17	4	527	3	0.126	0.140	111.11%	0.126		
S17	4	528	3	0.127	0.130	102.36%	0.127		
S17	4	529	3		0.080		0.113		
S17	4	530	3		0.024		0.026		
S17	4	1001	3	0.007	0.008	114.29%	0.007		
S17	4	1002	3	0.069	0.074	107.25%	0.069		
			MEAN	0.057	0.043	102.01%	0.045		

Pit-Bench-Pattern #
SUNDAY TEST HOLES.

Submittal Date
2-7-91

S-174

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 2-8-91

NAME:

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.				25.	Standard ✓		
2.				26.			
3.				27.			
4.				28.			
5.				29.			
6.				30.			
7.				31.			
8.	Standard ✓			32.			
9.				33.			
10.				34.			
11.				35.			
12.				36.			
13.				37.			
14.				38.			
15.				39.			
16.				40.			
17.				41.			
18.				42.	Standard ✓		
19.				43.			
20.	SUNDAY Test Hole #1	.034	030	44.			
21.	" #1		031	45.			
22.	Test Hole #2	.007	006	46.			
23.	" 2		006	47.			
24.				48.			

2LD

Pit-Bench-Pattern # S-17-4

SUNDAY TEST HOLES

Submittal Date

2-7-91

BLAST HOLE

Hot NaCN Shake

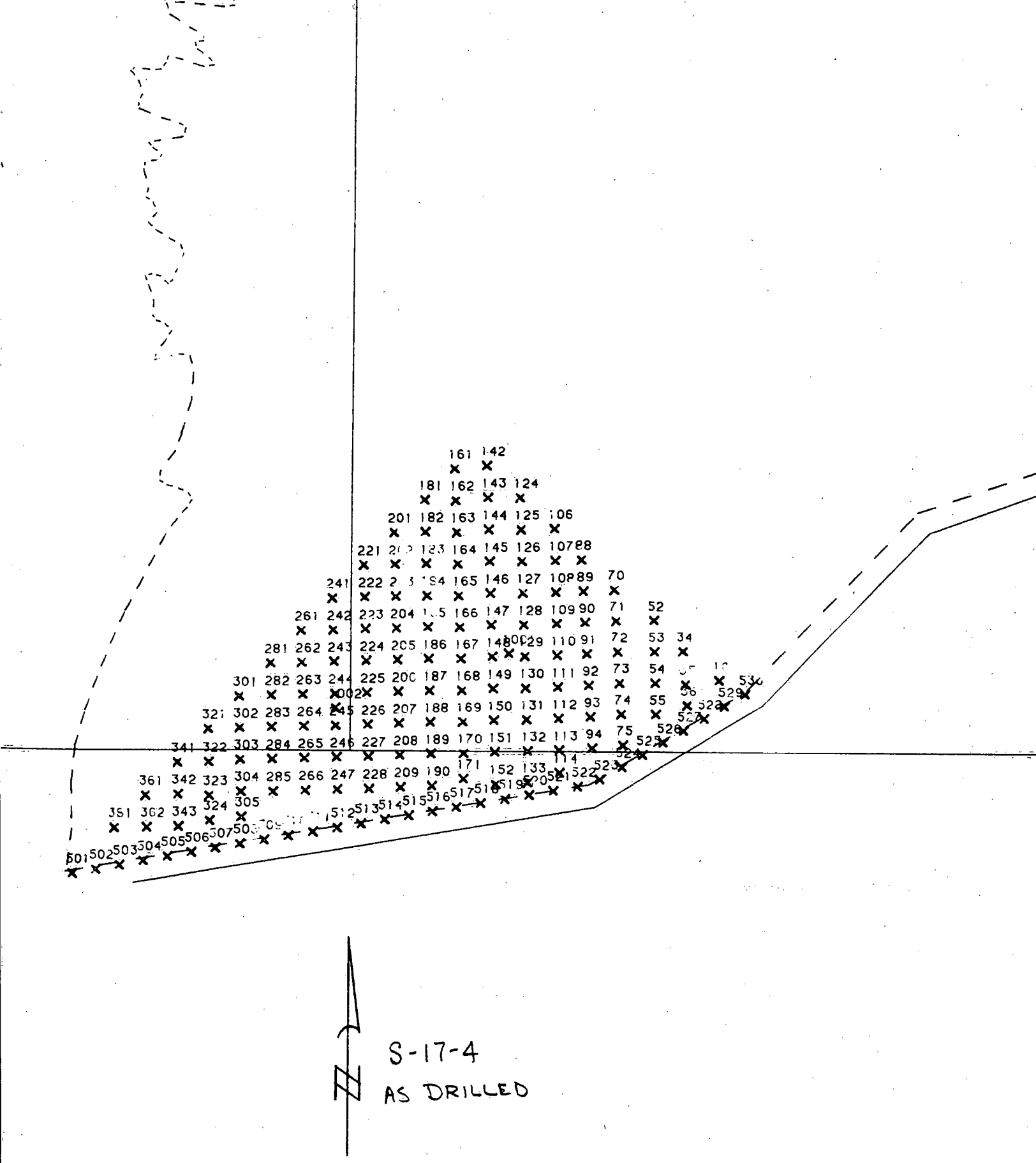
and

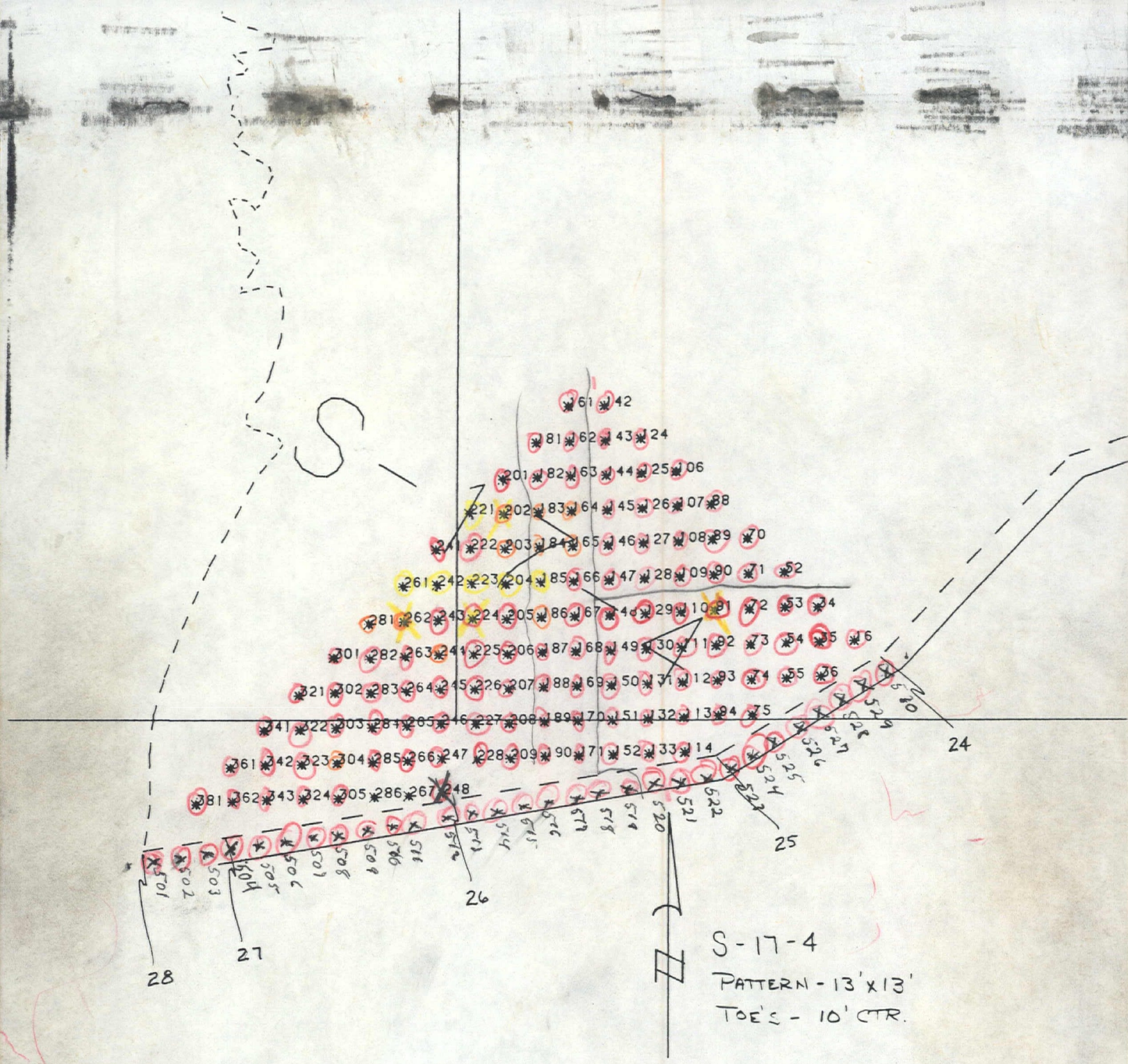
FIRE DETERMINATIONS

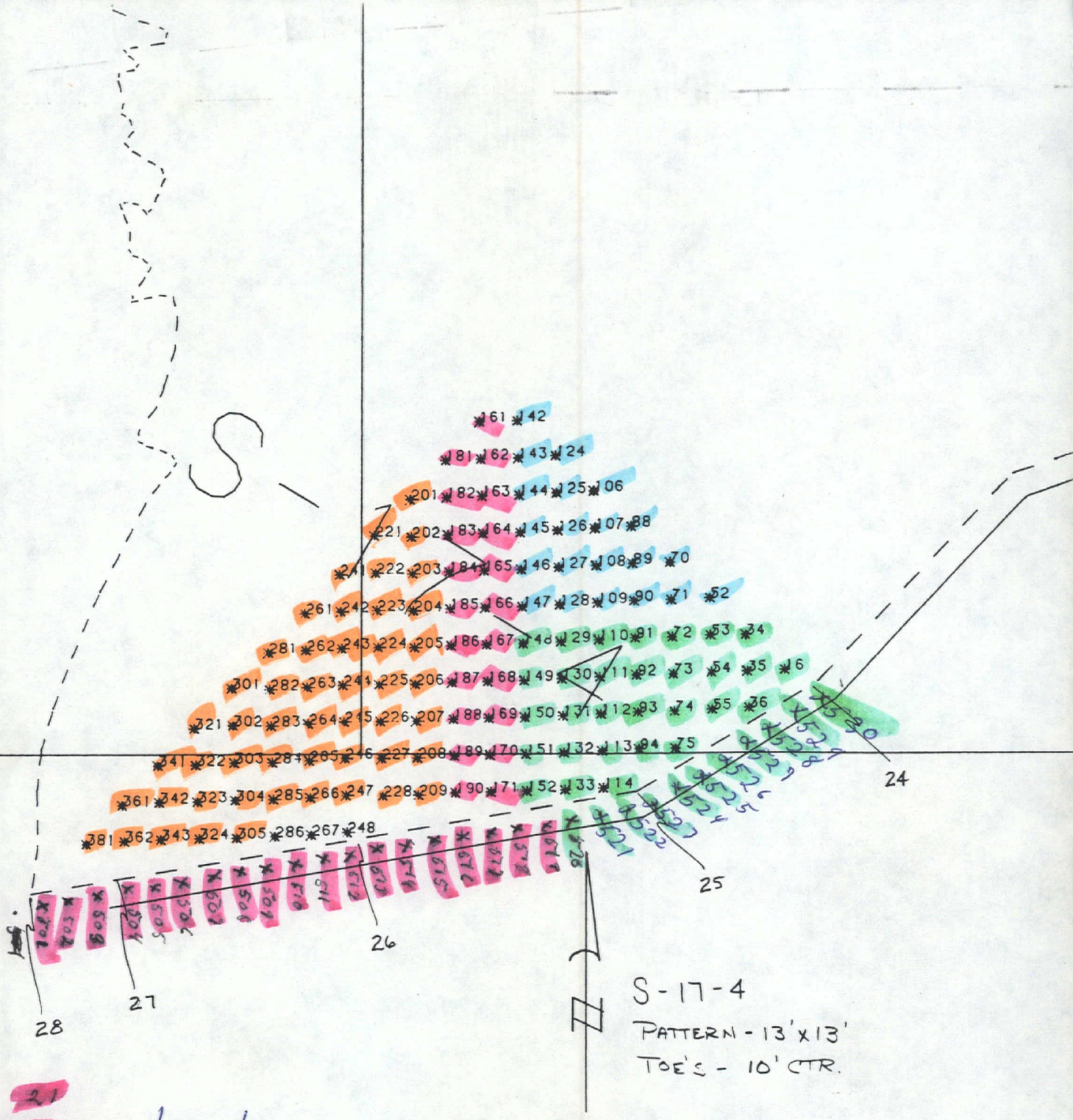
DATE: 2-8-91

NAME:

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.				25.	Standard ✓		
2.				26.			
3.				27.			
4.				28.			
5.				29.			
6.				30.			
7.				31.			
8.	Standard ✓			32.			
9.				33.			
10.				34.			
11.				35.			
12.				36.			
13.				37.			
14.				38.			
15.				39.			
16.				40.			
17.				41.			
18.				42.	Standard ✓		
19.				43.			
20.	SUNDAY Test Hole #1		030	44.			
21.	" #1		031	45.			
22.	TEST HOLE #2		006	46.			
23.	" #2		006	47.			
24.				48.			


S-17-4
AS DRILLED


S-17-4
PATTERN - 13'x13'
TOE'S - 10' CTR.
24
25
26
27
28



S-17-4
PATTERN - 13'x13'
TOE'S - 10' CTR.

21
19 - 1/22/91 - 1:45 pm
34 - 1/23/91 - 9:41 am
7 - 1/23/91 - 3:15 pm
21 1/24/91 - 1:43 pm
50 1/26/91 - 1:45 pm
2 1/28/91 - 1001 - 1002

~~151 total~~

151 total

BROHM MINING CORPORATION
BLAST HOLE ORE TYPE

PATTERN S-17-4 DATE 1/23/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
16			X	34			X								
35			X	53			X								
36			X	72			X								
				91			X								
54			X	110			X								
55			X	129			X								
				148			X								
73			X												
74			X												
75			X												
92			X												
93			X												
94			X												
111			X												
112			X												
113			X												
114			X												
130			X												
131			X												
132			X												
133			X												
149			X												
150			X												
151			X												
152			X												
			/												
520			X												
521			X												
522			X												
523			X												
524			X												
525			X												
526			X												
527			X												
528			X												
529			X												
530			X												

BROHM MINING CORPORATION
BLAST HOLE ORE TYPE

PATTERN S-17-4 DATE 1/24/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF	MIX	OXIDE
52			X												
70			X												
71			X												
88			X												
89			X												
90			X												
106			X												
107			X												
108			X												
109			X												
124			X												
125			X												
126			X												
127			X												
128			X												
142			X												
143			X												
144			X												
145			X												
146			X												
147			X												

BROWN MINING CORPORATION

BLAST HOLE ORE TYPE

PATTERN S-17-4 DATE 1/26/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
161			X	228			X	381			X				
162			X												
163			X	241			X	1001			X				
164		X		242	X			1002			X				
165		X		243			X								
166			X	244		X									
167			X	245			X								
168			X	246			X								
169			X	247			X								
170			X												
171			X	261	X										
				262		X									
181			X	263			X								
182			X	264			X								
183		X		265			X								
184		X		266			X								
185	X														
186		X		281		X									
187			X	282			X								
188			X	283			X								
189			X	284			X								
190			X	285			X								
201			X	301			X								
202		X		302			X								
203		X		303			X								
204	X			304		X									
205			X	305			X								
206			X												
207			X	321			X								
208			X	322			X								
209			X	323			X								
				324			X								
221	X														
222			X	341			X								
223	X			342			X								
224			X	343			X								
225			X												
226			X	361			X								
227			X	362			X								

BROHM MINING CORPORATION
BLAST HOLE ORE TYPE

PATTERN S-17-4

DATE 1/22/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
501			X												
502			X												
503			X												
504			X												
505			X												
506			X												
507			X												
508			X												
509			X												
510			X												
511			X												
512			X												
513			X												
514			X												
515			X												
516			X												
517			X												
518			X												
519			X												

Pit-Bench-Pattern #
S-17-4
Submittal Date
1-23-91 9:41 Am

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-24-91
NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	16	.027	.025	25.	Standard ✓		.015
2.	35		.030	26.	131		.025
3.	36	.036	.036	27.	132		.026
4.	36C	.036	.040 .039	28.	133	.136	.141
5.	✓Pulp		.034	29.	149	.012	.013
6.	54	.173 .170	.181 .178	30.	150		.081
7.	55	.264 .261	.275 .272	31.	151	.028	.029
8.	Standard ✓		.015	32.	151C	.029	.025
9.	73	.126	.130	33.	[redacted]		
10.	74	.371	.351	34.			
11.	75-1	.044	.045	35.	152		.049
12.	75-2		.043	36.	520	.219	.203
13.	92		.016	37.	521		.025
14.	93		.068	38.	522		.054
15.	94	.116	.119	39.	523	.009	.007
16.	[redacted]			40.	524	.031	.029
17.				41.	524C	.034	.031
18.	94C	.123	.122	42.	Standard ✓		.015
19.	111		.028	43.	525		.011
20.	112		.036	44.	526	.010	.008
21.	113		.073	45.	527	.126	.140
22.	114		.074	46.	528	.127	.130
23.	130	.044	.056	47.	529		.080
24.	130C	.056	.057	48.	530		.024

Std ✓ .014 LLD

FA AA
035 .037 Rerun
036 Rerun .041
176 .183 Rerun
266 Rerun .277

Pit-Bench-Pattern #
S-17-4

Submittal Date
1-23-91 & 1-24-91*

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

DATE: 1-25-91

NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	34	.047	.041	25.	Standard ✓		.015
2.	53	.022	.019	26.	109		.050
3.	53 C	.021	.020	27.	124		.009
4.	72		.034	28.	125		.031
5.	✓Pulp		.031	29.	126	.028	.028
6.	91	.140	.132	30.	127		.012
7.	110	.179	.188	31.	128	.021	.023
8.	Standard ✓		.015	32.	128 C	.021	.021
9.	110 C	.166	.171	33.			
10.	129		.017	34.			
11.	148		.008	35.	142		.008
* 12.	52		.054	36.	143		.010
13.	70		.044	37.	144	.019	.021
14.	71	.042	.043	38.	145		.034
15.	88		.030	39.	146		.010
16.				40.	147	.009	.008
17.				41.	147 C		.010
18.	89		.023	42.	Standard ✓		.015
19.	90-1	.037	.037	43.			
20.	90-2		.036	44.			
21.	106	.009	.008	45.			
22.	106 C	.013	.011	46.			
23.	107		.018	47.			
24.	108		.051	48.			

LLD ✓

Pit-Bench-Pattern #
S-17-4

Submittal Date
1-25-91 10:15 am

BLAST HOLE

Hot HaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-28-91

NAME: RD 441

	SAMPLE	FIRE Au.	HaCN Au.		SAMPLE	FIRE Au.	HaCN Au.
1.	161	.014	Ø13	25.	Standard ✓		Ø16
2.	162	.009	ØØ8	26.	189	.033	Ø37
3.	162C	.012	Ø1Ø	27.	190	.090	Ø97
4.	163		ØØ8	28.	190C	.100	1Ø7
5.	164		ØØ5	29.			
6.	165	.008	Ø11	30.			
7.	166		Ø12	31.			
8.	Standard ✓		Ø15	32.			
9.	167		ØØ9	33.			
10.	168		ØØ6	34.			
11.	169		Ø83	35.			
12.	170	.074	Ø74	36.			
13.	170-C	.074	Ø73	37.			
14.	171		Ø5Ø	38.			
15.	181		ØØ7	39.			
16.				40.			
17.				41.			
18.	182		ØØ9	42.	Standard ✓		
19.	183		ØØ7	43.			
20.	184	.010	Ø17	44.			
21.	185	.013	Ø12	45.			
22.	186	.021	Ø2Ø	46.			
23.	187		Ø18	47.			
24.	188		Ø25	48.			

LLD

Pit-Bench-Pattern #
S-17-4

Submittal Date
1-26-91

BLAST HOLE

Hot ReCH Shake and FIRE DETERMINATIONS

DATE: 1-29-91

NAME: MM

	SAMPLE	FIRE Au.	ReCH Au.		SAMPLE	FIRE Au.	ReCH Au.
1.	201		005	25.	Standard ✓		015
2.	202	.009	009	26.	241		011
3.	203	.010	016	27.	242		009
4.	203C	.010	017	28.	243	.021	013
5.	204	.014	013	29.	244	.025	027
6.	✓Pulp		031	30.	245		036
7.	205		017	31.	246		013
8.	Standard ✓		015	32.	247		036
9.	206		016	33.			
10.	207	.028	029	34.			
11.	208		007	35.	261	.026	028
12.	209		013	36.	262	.047	052
13.	221	.016	012	37.	262C	.067	065
14.	222		017	38.	263		059
15.	223	.010	015	39.	264		025
16.				40.	265		029
17.				41.	266	.116	.135
18.	224-1	.012	012	42.	Standard ✓		015
19.	224-2	.012	011	43.	281	.057	064
20.	225		026	44.	282		053
21.	226		009	45.	283	.024	021
22.	227		011	46.	284	.014	012
23.	227C	.011	012	47.	285	.116	.119
24.	228		015	48.			

ND

Pit-Bench-Pattern #
S-17-4 & ~~S-17-5~~ *

Submittal Date
1-26-91 & 1-28-91

BLAST HOLE
Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-29-91

NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	301		031	25.	Standard ✓		015
2.	302	.058	061	26.	2		019
3.	303	.006	005	27.	2C		015
4.	304	.049	051	28.	3		016
5.	305	.002	002	29.	4		011
6.	Pulp		030	30.	5		014
7.	321		005	31.	6		008
8.	Standard ✓		015	32.	7		020
9.	322		050	33.			
10.	323	.106	115	34.			
11.	324	.003	003	35.	8		017
12.	341		064	36.	41		009
13.	342	.018	020	37.	42		014
14.	343	.004	003	38.	43		008
15.	343C	.003	003	39.	44		008
16.				40.	45		007
17.				41.	46		007
18.	361		031	42.	Standard ✓		015
19.	362		003	43.	47		012
20.	381	.007	010	44.	81		005
21.	Rear 1001	.007	008	45.	82		006
22.	Rear 1002	.069	074	46.	83		006
23.	1-1		029	47.	84		009
24.	1-2		028	48.			

END of Pattern

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LD

Pit-Bench-Pattern #
S-17-4

Submittal Date
1/22/91

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1/23/91

NAME: KW

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.	
1.	501	.006	.004	25.	Standard ✓		.015	FA .100 .105 A
2.	502		.008	26.	517C	.085 .070	.105 .104	Rerun .047
3.	✓7		.030	27.	518	.047 ✓	.052 .051	Rerun .053
4.	503		.003	28.	519	.132 .133	.139 .137	Rerun .130 .140
5.	504		.007	29.				
6.	505		.001	30.				
7.	506	.020	.020	31.				
8.	Standard ✓		.015	32.				
9.	507		.002	33.				
10.	508		-001	34.				
11.	508C		.002	35.				
12.	509	.020	.020	36.				
13.	510		.045	37.				
14.	511		.032	38.				
15.	512		.050	39.				
16.				40.				
17.				41.				
18.	513	.083	.112	42.	Standard ✓			
19.	513C	.126	.133 .134	43.				
20.	514		.082	44.				
21.	515-1	.150 .151	.158 .157	45.				
22.	515-2		-157	46.				
23.	516	.105 .106	.108	47.				
24.	517	.108	.113 .112	48.				

FA .092 AA .116 Rerun
.126 Rerun .134
.149 .158 Rerun
.104 .107 Rerun
.108 Rerun .114

S-12-13 Rerun 216 .036

LLD