Pit-Bench-Pattern #
S-14-12
Submittal Date
9-4-91

BLAST HOLE ①

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 9-5
NAME: ML

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	308		.006	25.	Standard ✓		.015
2.	309	.016	.011	26.	352		.007
3.	310		.003	27.	501		.001
4.	311		.002	28.	502		.002
5.	312		.002	29.	503		.006
6.	313		.005	30.	504		.005
7.	314	.011	.010	31.	505	.004	.002
8.	Standard ✓		.015	32.	506		.001
9.	V7		.027	33.			
10.	326-1	.005	.002	34.			
11.	326-2		.002	35.	507		.006
12.	327		.001	36.	508		.003
13.	328		.001	37.	509		.003
14.	329		.006	38.	510		.006
15.	330		.004	39.	511		.008
16.				40.	512		.009
17.				41.	513		.013
18.	331		.004	42.	Standard ✓		.016
19.	332		.004	43.	514	.018	.013
20.	333	.005	.002	44.	515		.009
21.	348		.004	45.	516		.004
22.	349		.007	46.	517		.006
23.	350		.005	47.	518		.006
24.	351		.002	48.			

X

95. X

Pit-Bench-Pattern #
5-14-12

Submittal Date
9-4-91

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

(2)

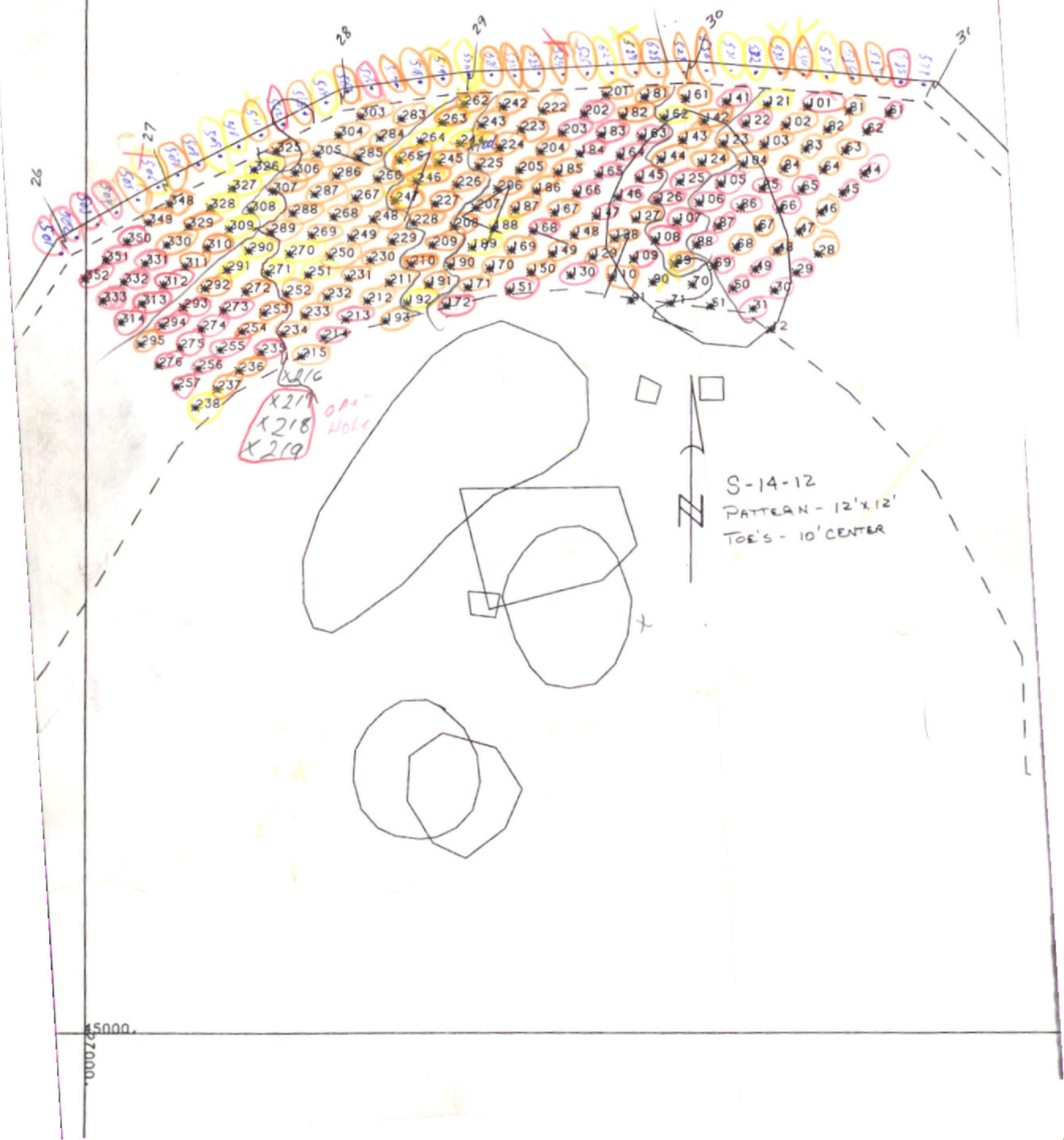
DATE: 9-5

NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	519		.004	25.	Standard ✓		.015
2.	520		.003	26.	256		.002
3.	521		.003	27.	257		.004
4.	522		.002	28.	272		.003
5.	523	.010	.008	29.	273		.003
6.	524		.006	30.	274		.003
7.	525		.004	31.	275		.003
8.	Standard ✓		.015	32.	276		.007
9.	526	.017	.012	33.			
10.	527	.025	.013	34.			
11.	528	.047	.024	35.	290		.002
12.	217		.009	36.	291		.004
13.	218		.007	37.	292	.008	.004
14.	219		.006	38.	293		.003
15.	235		.007	39.	294		.003
16.				40.	295-1		.002
17.				41.	295-2		.003
18.	236		.004	42.	Standard ✓		
19.	237		.004	43.			
20.	238		.002	44.			
21.	✓7		.027	45.			
22.	253		.001	46.			
23.	254		.003	47.			
24.	255	.015	.013	48.			

X

TS. X


26
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X216
X217
X218
X219
OPEN HOLE
S-14-12
PATTERN - 12'X12'
TOE'S - 10' CENTER
N
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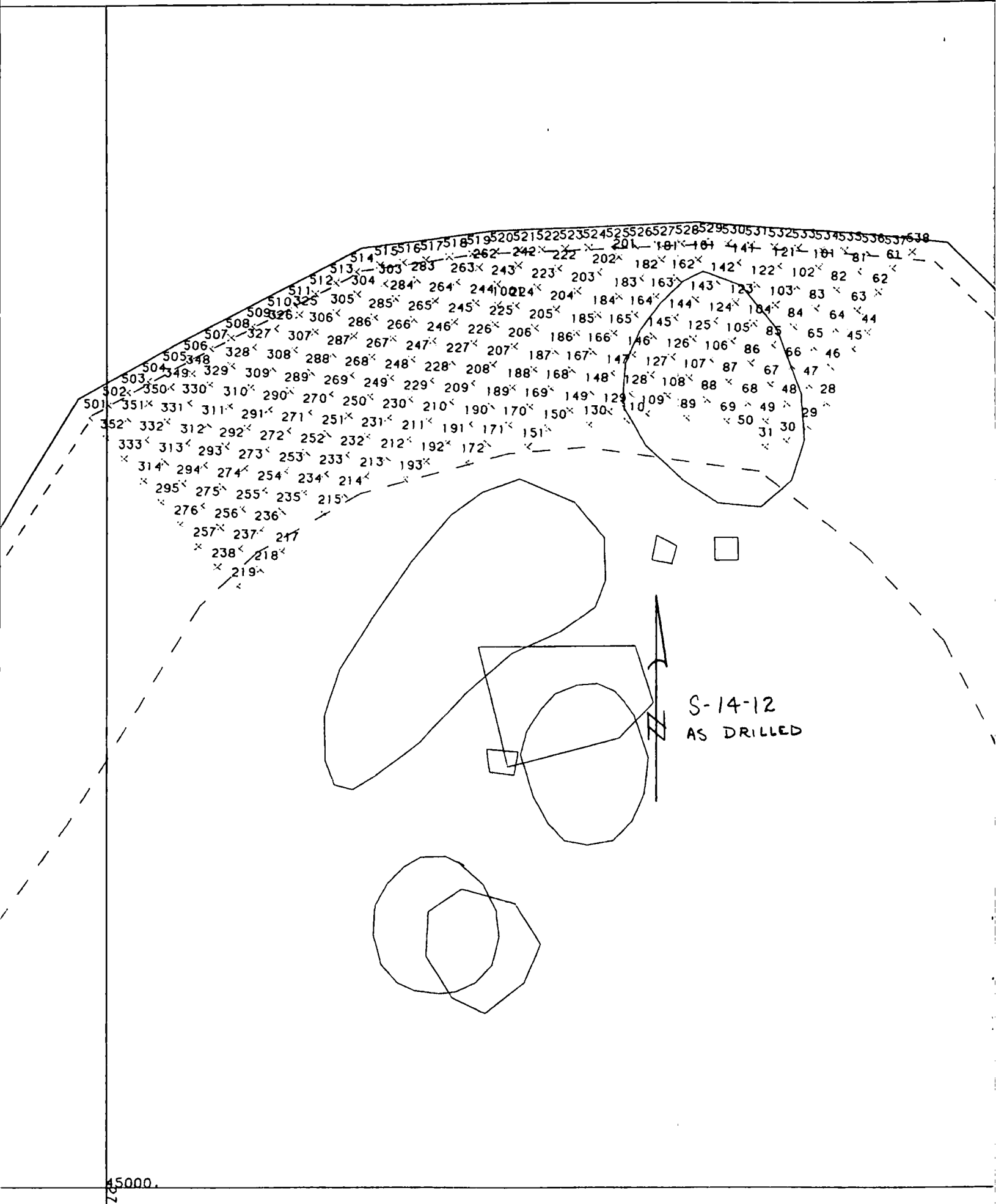
27000.


S-14-12
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45000.
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EoP

BLAST ~~HOLE ORE TYPE~~

PATTERN 514-12 DATE 9/10/91

NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI
193		X		285		X		14				39			
211		X		286		X		15				40			
212		X		287		X		16				41			
213			X	288		X		17				42			
214			X	289		X		18				43			
215		X		303		X		19				44			
229		X		304		X		20				45			
230		X		305		X		21				46			
231		X		306		X		22				47			
232		X		307		X		23				48			
233		X		325		X		24				49			
234		X						25				50			
248		X		1				26				51			
249		X		2				27				52			
250		X		3				28				53			
251	X			4				29				54			
252		X		5				30				55			
266		X		6				31				56			
267		X		7				32				57			
268		X		8				33				58			
269		X		9				34				59			
270	X			10				35				60			
271	X			11				36				61			
283		X		12				37				62			
284		X		13				38				63			

X

BLAST HOLE ORE TYPE

PATTERN S 14 12 DATE 9-6-91

NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI
28		X		86			X	530		X		16			
29			X	87			X	531	X			17			
30			X	88			X	532	X			18			
31			X	89		X		533		X		19			
44			X	101			X	534		X		20			
45			X	102		X		535	X			21			
46		X		103		X		536		X		22			
47		X		104		X		537		X		23			
48		X		105			X	538			X	24			
49			X	106			X					25			
50			X	107			X	1				26			
61			X	108			X	2				27			
62			X	121	X			3				28			
63		X		122			X	4				29			
64		X		123		X		5				30			
65			X	124		X		6				31			
66			X	125			X	7				32			
67		X		126			X	8				33			
68		X		141			X	9				34			
69			X	142		X		10				35			
81		X		143		X		11				36			
82		X		144		X		12				37			
83		X		161		X	X	13				38			
84		X		162	X			14				39			
85			X	529		X		15				40			

BLAST HOLE ORE TYPE

PATTERN S 14 12 DATE 9/9/91

NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI
109			X	183			X	227		X		12			
110		X		184			X	228		X		13			
127		X		185		X		242		X		14			
128		X		186		X		243		X		15			
129		X		187		X		244	X			16			
130			X	188	X			245		X		17			
145			X	189	X			246		X		18			
146			X	190		X		247		X		19			
147			X	191		X		262		X		20			
148		X		192	X			263		X		21			
149		X		201		X		264	X			22			
150		X		202			X	265		X		23			
151			X	203			X	1001		X		24			
163			X	204		X						25			
164			X	205		X		1				26			
165			X	206		X		2				27			
166			X	207		X		3				28			
167		X		208		X		4				29			
168			X	209		X		5				30			
169		X		210		X		6				31			
170		X		222		X		7				32			
171		X		223		X		8				33			
172			X	224		X		9				34			
181		X		225		X		10				35			
182		X		226		X		11				36			

X

BLAST HOLE ORE TYPE

PATTERN S-14-12 DATE 9-5-91

NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI
235			X	313			X	512			X	8			
236		X		314			X	513		X		9			
237		X		327	X			514	X			10			
238	X			328	X			515		X		11			
253		X		329		X		516			X	12			
254		X		330		X		517		X		13			
255			X	331			X	518		X		14			
256			X	332			X	519		X		15			
257			X	333			X	520	X			16			
272		X		348		X		521		X		17			
273			X	349		X		522		X		18			
274			X	350			X	523		X		19			
275			X	351			X	524		X		20			
276			X	352			X	525		X		21			
290	X			501			X	526	X			22			
291	X			502			X	527		X		23			
292		X		503			X	528		X		24			
293			X	504			X	326	X			25			
294			X	505		X		217			X	26			
295		X		506	X			218			X	27			
308	X			507		X		219			X	28			
309	X			508		X		4				29			
310		X		509	X			5				30			
311		X		510	X			6				31			
312			X	511		X		7				32			

Pit-Bench-Pattern #
5-14-12
Submittal Date
9-5-91 7:23a

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

(1)

DATE: 9-6
NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	28	.023	.015	25.	Standard ✓		.015
2.	29		.027	26.	69	.149	.132
3.	30		.050	27.	81	.014	.013
4.	31		.080	28.	82	.028	.025
5.	44		.041	29.	83	.038	.036
6.	45		.089	30.	84	.041	.018
7.	46	.085	.075	31.	85		.076
8.	Standard ✓		.015	32.	86		.025
9.	47	.084	.033	33.	[redacted]		
10.	48	.030	.027	34.			
11.	49	.132	.111	35.	87		.032
12.	50		.076	36.	88		.039
13.	✓7		.026	37.	101		.025
14.	61-1	.024	.022	38.	102	.024	.020
15.	61-2		.021	39.	103	.018	.014
16.	[redacted]			40.	104	.020	.017
17.				41.	105		.018
18.	62		.023	42.	Standard ✓		.015
19.	63	.039	.036	43.	106		.027
20.	64	.040	.035	44.	121	.020	.016
21.	65		.032	45.	122		.041
22.	66	.015	.014	46.	123	.029	.018
23.	67	.044	.036	47.			
24.	68	.046	.047	48.			

x

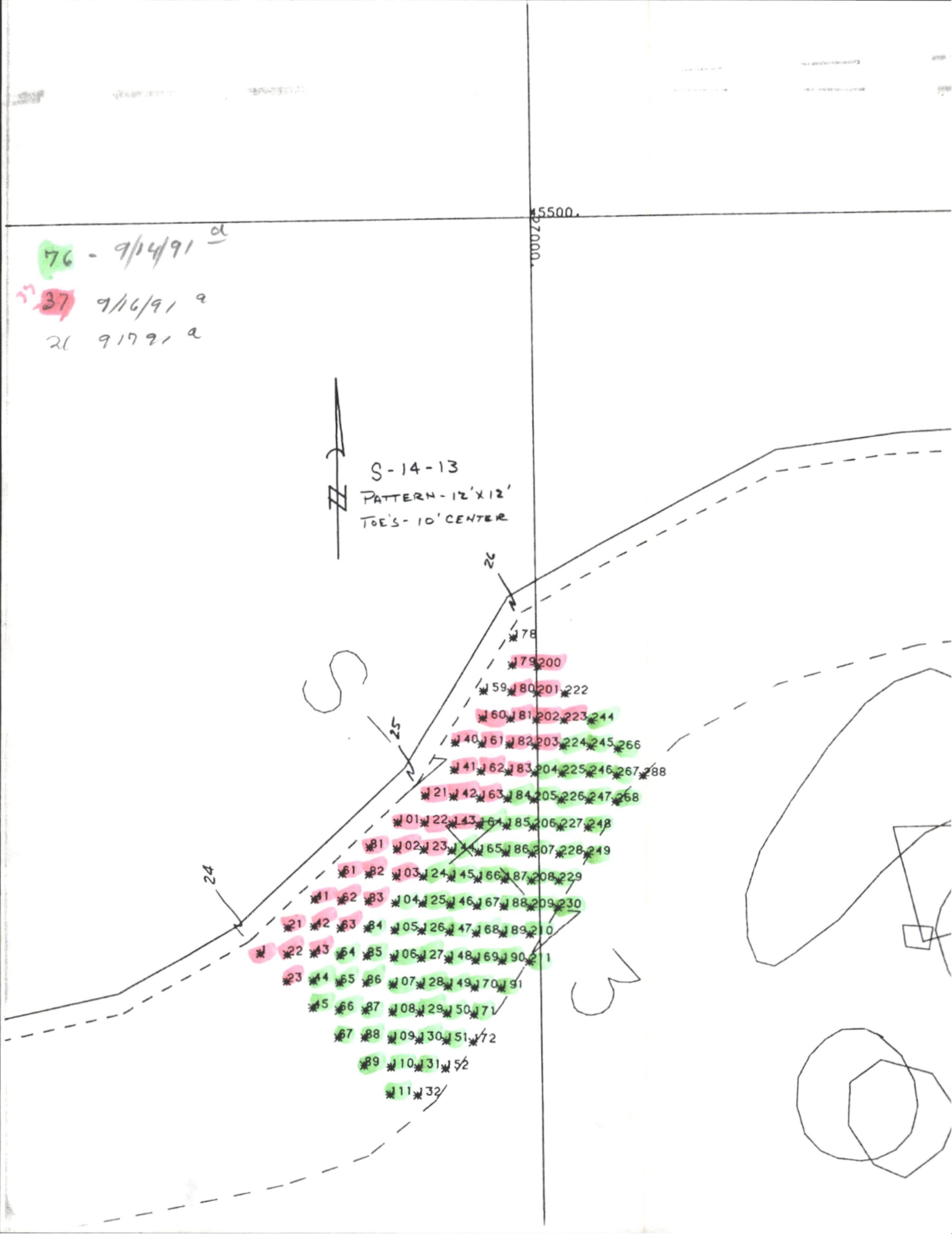
95 x

S -14 - 13

76 - 9/14/91 a

37 9/16/91 a

21 9/17/91 a



S-14-13 SEPT. 20, 1991 JR

0 no	shot no	bh no	fire au	aa au	fire equiv (aa/ratio)	ore type	ratio	actual ratio (aa/fire)
		0						
0	11413	0			0.000		95.0%	
S14	13	1		1.000	1.190	2	84.0%	
S14	13	21		0.000	0.000	2	84.0%	
S14	13	22		1.000	1.190	2	84.0%	
S14	13	23		1.000	1.429	1	70.0%	
S14	13	41		1.000	1.190	2	84.0%	
S14	13	42		1.000	1.190	2	84.0%	
S14	13	43		1.000	1.190	2	84.0%	
S14	13	44		1.000	1.429	1	70.0%	
S14	13	45		1.000	1.429	1	70.0%	
S14	13	61	3.000	3.000	3.000	2	100.0%	100.0%
S14	13	62		1.000	1.190	2	84.0%	
S14	13	63	2.000	1.000	2.000	2	100.0%	50.0%
S14	13	64		3.000	3.571	2	84.0%	
S14	13	65		1.000	1.429	1	70.0%	
S14	13	66		2.000	2.857	1	70.0%	
S14	13	67	23.000	18.000	23.000	1	100.0%	78.3%
S14	13	81		2.000	2.105	3	95.0%	
S14	13	82		2.000	2.381	2	84.0%	
S14	13	83		2.000	2.381	2	84.0%	
S14	13	84		2.000	2.381	2	84.0%	
S14	13	85		1.000	1.190	2	84.0%	
S14	13	86		2.000	2.857	1	70.0%	
S14	13	87		2.000	2.857	1	70.0%	
S14	13	88		2.000	2.857	1	70.0%	
S14	13	89	6.000	2.000	6.000	1	100.0%	33.3%
S14	13	101		1.000	1.053	3	95.0%	
S14	13	102		5.000	5.263	3	95.0%	
S14	13	103		3.000	3.158	3	95.0%	
S14	13	104		1.000	1.190	2	84.0%	
S14	13	105		1.000	1.190	2	84.0%	
S14	13	106		1.000	1.190	2	84.0%	
S14	13	107		1.000	1.429	1	70.0%	
S14	13	108		1.000	1.190	2	84.0%	
S14	13	109		9.000	12.857	1	70.0%	
S14	13	110		1.000	1.429	1	70.0%	
S14	13	111	9.000	5.000	9.000	2	100.0%	55.6%
S14	13	121		1.000	1.190	2	84.0%	
S14	13	122		4.000	4.762	2	84.0%	
S14	13	123		4.000	4.211	3	95.0%	
S14	13	124		4.000	4.211	3	95.0%	
S14	13	125		2.000	2.381	2	84.0%	
S14	13	126		8.000	9.524	2	84.0%	
S14	13	127		1.000	1.429	1	70.0%	
S14	13	128		1.000	1.190	2	84.0%	
S14	13	129		4.000	4.762	2	84.0%	
S14	13	130		1.000	1.190	2	84.0%	
S14	13	131		4.000	4.762	2	84.0%	
S14	13	140	4.000	1.000	4.000	2	100.0%	25.0%
S14	13	141		5.000	5.263	3	95.0%	
S14	13	142		2.000	2.381	2	84.0%	
S14	13	143		4.000	4.762	2	84.0%	
S14	13	144		6.000	6.316	3	95.0%	

S14	13	145		1.000	1.429	1	70.0%		
S14	13	146	5.000	2.000	5.000	1	100.0%	40.0%	
S14	13	147		2.000	2.381	2	84.0%		
S14	13	148		2.000	2.381	2	84.0%		
S14	13	149		0.000	0.000	2	84.0%		
S14	13	150		3.000	3.571	2	84.0%		
S14	13	151		3.000	3.571	2	84.0%		
S14	13	159		2.000	2.381	2	84.0%		
S14	13	160		3.000	3.571	2	84.0%		
S14	13	161		1.000	1.190	2	84.0%		
S14	13	162		3.000	3.158	3	95.0%		
S14	13	163		2.000	2.381	2	84.0%		
S14	13	164		4.000	4.762	2	84.0%		
S14	13	165		6.000	6.316	3	95.0%		
S14	13	166		3.000	4.286	1	70.0%		
S14	13	167		6.000	7.143	2	84.0%		
S14	13	168	4.000	2.000	4.000	1	100.0%	50.0%	
S14	13	169		4.000	5.714	1	70.0%		
S14	13	170		2.000	2.381	2	84.0%		
S14	13	171	2.000	3.000	2.000	2	100.0%	150.0%	
S14	13	179		6.000	6.316	3	95.0%		
S14	13	180		4.000	4.211	3	95.0%		
S14	13	181	3.000	2.000	3.000	2	100.0%	66.7%	
S14	13	182		5.000	5.263	3	95.0%		
S14	13	183		2.000	2.381	2	84.0%		
S14	13	184		3.000	3.571	2	84.0%		
S14	13	185		5.000	5.263	3	95.0%		
S14	13	186	13.000	14.000	13.000	2	100.0%	107.7%	
S14	13	187		3.000	4.286	1	70.0%		
S14	13	188		2.000	2.381	2	84.0%		
S14	13	189		2.000	2.857	1	70.0%		
S14	13	190	6.000	2.000	6.000	1	100.0%	33.3%	
S14	13	191		1.000	1.429	1	70.0%		
S14	13	200		8.000	8.421	3	95.0%		
S14	13	201	13.000	10.000	13.000	3	100.0%	76.9%	
S14	13	202		4.000	4.211	3	95.0%		
S14	13	203		9.000	9.474	3	95.0%		
S14	13	204		2.000	2.381	2	84.0%		
S14	13	205		5.000	5.952	2	84.0%		
S14	13	206		4.000	4.762	2	84.0%		
S14	13	207		3.000	3.571	2	84.0%		
S14	13	208	17.000	10.000	17.000	2	100.0%	58.8%	
S14	13	209		1.000	1.429	1	70.0%		
S14	13	210		1.000	1.429	1	70.0%		
S14	13	211		3.000	3.571	2	84.0%		
S14	13	223		6.000	6.316	3	95.0%		
S14	13	224		2.000	2.105	3	95.0%		
S14	13	225	8.000	10.000	8.000	3	100.0%	125.0%	
S14	13	226		5.000	5.263	3	95.0%		
S14	13	227		6.000	6.316	3	95.0%		
S14	13	228		4.000	4.211	3	95.0%		
S14	13	229		7.000	8.333	2	84.0%		
S14	13	230		8.000	9.524	2	84.0%		
S14	13	244		3.000	3.158	3	95.0%		
S14	13	245		5.000	5.263	3	95.0%		
S14	13	246		4.000	4.211	3	95.0%		

S14	13	247		8.000	9.524	2	84.0%	
S14	13	248	9.000	4.000	9.000	1	100.0%	44.4%
S14	13	249		4.000	4.211	3	95.0%	
S14	13	266		4.000	4.762	2	84.0%	
S14	13	267		5.000	5.952	2	84.0%	
S14	13	268		4.000	4.762	2	84.0%	
S14	13	501		2.000	2.381	2	84.0%	
S14	13	502		5.000	5.263	3	95.0%	
S14	13	503	57.000	43.000	57.000	3	100.0%	75.4%
S14	13	504		5.000	5.952	2	84.0%	
S14	13	505		2.000	2.105	3	95.0%	
S14	13	506		3.000	3.158	3	95.0%	
S14	13	507		2.000	2.381	2	84.0%	
S14	13	508		2.000	2.857	1	70.0%	
S14	13	509		1.000	1.190	2	84.0%	
S14	13	510	3.000	3.000	3.000	2	100.0%	100.0%
S14	13	511		3.000	3.158	3	95.0%	
S14	13	512		5.000	5.263	3	95.0%	
S14	13	513		2.000	2.105	3	95.0%	
S14	13	514	4.000	3.000	4.000	3	100.0%	75.0%
S14	13	515		3.000	3.571	2	84.0%	
S14	13	516		2.000	2.381	2	84.0%	
S14	13	517		1.000	1.190	2	84.0%	
S14	13	518		1.000	1.190	2	84.0%	
S14	13	519		1.000	1.190	2	84.0%	
S14	13	1001	10.000	8.000	10.000	3	100.0%	80.0%
	MEAN		10.0500	3.6269	4.4523		86.8%	10.6%

45500.
92000.
S-14-13
PATTERN-12'X12'
TOE'S-10' CENTER
26
25
24
1001

BLAST HOLE ORE TYPE

PATTERN S-1413 DATE 9/16/98

NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI
44	x			129		x		190	x			268		x	
45	x			130		x		191	x						
64		x		131		x		204		x		1			
65	x			144			x	205		x		2			
66	x			145	x			206		x		3			
67	x			146	x			207		x		4			
84		x		147		x		208		x		5			
85		x		148		x		209	x			6			
86	x			149		x		210	x			7			
87	x			150		x		211		x		8			
88	x			151		x		224			x	9			
89	x			164		x		225			x	10			
104		x		165			x	226			x	11			
105		x		166	x			227			x	12			
106		x		167		x		228			x	13			
107	x			168	x			229		x		14			
108		x		169	x			230		x		15			
109	x			170		x		244			x	16			
110	x			171		x		245			x	17			
111		x		184		x		246			x	18			
124			x	185			x	247		x		19			
125		x		186		x		248	x			20			
126		x		187	x			249			x	21			
127	x			188		x		266		x		22			
128		x		189	x			267		x		23			

BLAST HOLE ORE TYPE

PATTERN S-14-13 DATE 9/17/91

NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI
1		X		162			X	13				38			
21		X		163		X		14				39			
22		X		179			X	15				40			
23	X			180			X	16				41			
41		X		181		X		17				42			
42		X		182			X	18				43			
43		X		183		X		19				44			
61		X		200			X	20				45			
62		X		201			X	21				46			
63		X		202			X	22				47			
81			X	203			X	23				48			
82		X		223			X	24				49			
83		X						25				50			
101			X	1				26				51			
102			X	2				27				52			
103			X	3				28				53			
121		X		4				29				54			
122		X		5				30				55			
123			X	6				31				56			
140		X		7				32				57			
141			X	8				33				58			
142		X		9				34				59			
143		X		10				35				60			
160		X		11				36				61			
161		X		12				37				62			

Pit-Bench-Pattern #
S-14-13

Submittal Date
9-16-91 9:29a

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

(1)

DATE: 9-17

NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	1		.001	25.	Standard ✓		.014
2.	21		nil	26.	140	.004	.001
3.	22		.001	27.	141		.005
4.	23		.001	28.	142		.002
5.	41		.001	29.	143		.004
6.	42		.001	30.	160		.003
7.	43		.001	31.	161		.001
8.	Standard ✓		.014	32.	162		.003
9.	r7		.027	33.			
10.	61-1	.003	.002	34.			
11.	61-2		.003	35.	163		.002
12.	62		.001	36.	179		.006
13.	63	.002	.001	37.	180		.004
14.	81		.002	38.	181	.003	.002
15.	82		.002	39.	182		.005
16.				40.	183		.002
17.				41.	200		.008
18.	83		.002	42.	Standard ✓		.015
19.	101		.001	43.	201	.013	.010
20.	102		.005	44.	202		.004
21.	103		.003	45.	203		.009
22.	121		.001	46.	223		.006
23.	122		.004	47.			
24.	123		.004	48.			