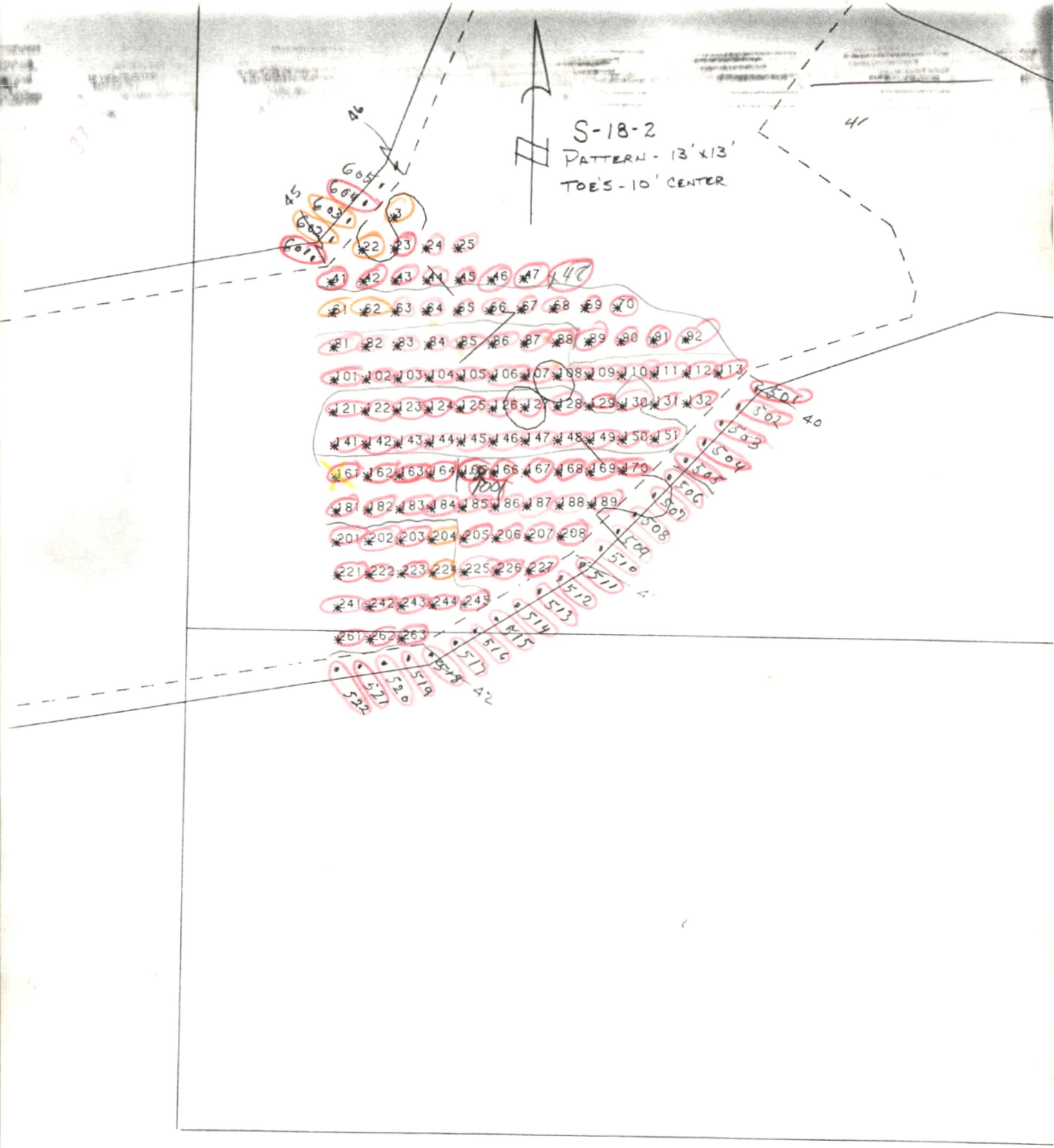
S18	2	125		13.000	13.684	3	95.0%	
S18	2	126		18.000	18.947	3	95.0%	
S18	2	127		25.000	26.316	3	95.0%	
S18	2	128		38.000	40.000	3	95.0%	
S18	2	129	45.000	45.000	45.000	3	100.0%	100.0%
S18	2	130		56.000	58.947	3	95.0%	
S18	2	131		54.000	56.842	3	95.0%	
S18	2	132		30.000	31.579	3	95.0%	
S18	2	141		15.000	15.789	3	95.0%	
S18	2	142		17.000	17.895	3	95.0%	
S18	2	143		25.000	26.316	3	95.0%	
S18	2	144		12.000	12.632	3	95.0%	
S18	2	145		12.000	12.632	3	95.0%	
S18	2	146		27.000	28.421	3	95.0%	
S18	2	147	35.000	32.000	35.000	3	100.0%	91.4%
S18	2	148		76.000	80.000	3	95.0%	
S18	2	149		69.000	72.632	3	95.0%	
S18	2	150		36.000	37.895	3	95.0%	
S18	2	151	109.000	113.000	109.000	3	100.0%	103.7%
S18	2	161	9.000	7.000	9.000	3	100.0%	77.8%
S18	2	162		30.000	31.579	3	95.0%	
S18	2	163	80.000	77.000	80.000	3	100.0%	96.3%
S18	2	164		18.000	18.947	3	95.0%	
S18	2	165		73.000	76.842	3	95.0%	
S18	2	166	173.000	173.000	173.000	3	100.0%	100.0%
S18	2	167		67.000	70.526	3	95.0%	
S18	2	168		31.000	32.632	3	95.0%	
S18	2	169		20.000	21.053	3	95.0%	
S18	2	170		34.000	35.789	3	95.0%	
S18	2	181		19.000	20.000	3	95.0%	
S18	2	182		10.000	10.526	3	95.0%	
S18	2	183	65.000	68.000	65.000	3	100.0%	104.6%
S18	2	184		43.000	45.263	3	95.0%	
S18	2	185	17.000	14.000	17.000	3	100.0%	82.4%
S18	2	186		27.000	28.421	3	95.0%	
S18	2	187		39.000	41.053	3	95.0%	
S18	2	188		33.000	34.737	3	95.0%	
S18	2	189		19.000	20.000	3	95.0%	
S18	2	201		7.000	7.368	3	95.0%	
S18	2	202		12.000	12.632	3	95.0%	
S18	2	203		76.000	80.000	3	95.0%	
S18	2	204	183.000	199.000	183.000	2	100.0%	108.7%
S18	2	205		68.000	71.579	3	95.0%	
S18	2	206	23.000	22.000	23.000	3	100.0%	95.7%
S18	2	207	103.000	98.000	103.000	3	100.0%	95.1%
S18	2	208	38.000	37.000	38.000	3	100.0%	97.4%
S18	2	221	15.000	14.000	15.000	3	100.0%	93.3%
S18	2	222	33.000	36.000	33.000	3	100.0%	109.1%
S18	2	223	23.000	21.000	23.158	3	95.0%	
S18	2	224	36.000	37.000	44.048	2	84.0%	
S18	2	225	20.000	20.000	21.053	3	95.0%	
S18	2	226		55.000	57.895	3	95.0%	
S18	2	227		58.000	61.053	3	95.0%	
S18	2	241	16.000	15.000	16.842	3	95.0%	
S18	2	242	33.000	29.000	33.684	3	95.0%	
S18	2	243	36.000	35.000	180.000	3	100.0%	20.0%

S18	2	244	178.000	186.000	204.396	3	91.0%	
S18	2	245	35.000	28.000	31.579	3	95.0%	
S18	2	261	21.000	17.000	13.684	3	95.0%	
S18	2	262	16.000	12.000	131.868	3	91.0%	
S18	2	263	119.000	119.000	118.000	3	100.0%	14.4%
S18	2	501		34.000	35.789	3	95.0%	
S18	2	502		40.000	42.105	3	95.0%	
S18	2	503		55.000	57.895	3	95.0%	
S18	2	504		48.000	50.526	3	95.0%	
S18	2	505		32.000	33.684	3	95.0%	
S18	2	506		43.000	45.263	3	95.0%	
S18	2	507		24.000	25.263	3	95.0%	
S18	2	508		20.000	21.053	3	95.0%	
S18	2	509		29.000	30.526	3	95.0%	
S18	2	510		20.000	21.053	3	95.0%	
S18	2	511		44.000	46.316	3	95.0%	
S18	2	512		50.000	52.632	3	95.0%	
S18	2	513	126.000	127.000	126.000	3	100.0%	100.8%
S18	2	514	202.000	206.000	202.000	3	100.0%	102.0%
S18	2	515	152.000	159.000	152.000	3	100.0%	104.6%
S18	2	516	88.000	80.000	88.000	3	100.0%	90.9%
S18	2	517	102.000	105.000	102.000	3	100.0%	102.9%
S18	2	518	332.000	327.000	332.000	3	100.0%	98.5%
S18	2	519	96.000	97.000	96.000	3	100.0%	101.0%
S18	2	520	150.000	158.000	150.000	3	100.0%	105.3%
S18	2	521		19.000	20.000	3	95.0%	
S18	2	522	12.000	8.000	12.000	3	100.0%	66.7%
S18	2	601		4.000	4.211	3	95.0%	
S18	2	602		5.000	5.952	2	84.0%	
S18	2	603		5.000	5.952	2	84.0%	
S18	2	604		9.000	9.474	3	95.0%	
S18	2	1001	41.000	39.000	41.000	3	100.0%	95.1%
	mean		84.2258	37.2286	40.1469		95.6%	20.2%



** BLAST PATTERN 1"=50' **

05-15-91

Pit-Bench-Pattern #
S-18-2

Submittal Date
5-22-91 8:17 Am

BLAST HOLE

Bot BoCN Shale and FIRE DETERMINATIONS

(2)

DATE: 5-23-91

NAME: MM

	SAMPLE	FIRE Au.	BoCN Au.		SAMPLE	FIRE Au.	BoCN Au.
1.	61	.016	.018	25.	Standard ✓		.015
2.	62		.006	26.	183	.065	.068
3.	63		.006	27.	184		.043
4.	64		.006	28.	185	.017	.014
5.	65		.004	29.	186		.027
6.	66		.010	30.	187		.039
7.	67	.007	.006	31.	188		.033
8.	Standard ✓		.015	32.	189		.019
9.	68		.007	33.			
10.	69		.006	34.			
11.	70		.012	35.	205		.068
12.	89		.006	36.	206	.023	.022
13.	90		.020	37.	207	.103	.098
14.	91		.022	38.	208	.038	.037
15.	92		.008	39.	226		.055
16.				40.	227		.058
17.				41.	501		.034
18.	167		.028	42.	Standard ✓		.015
19.	161	.009	.007	43.	502		.040
20.	162		.030	44.	503		.055
21.	163	.080	.022	45.	504		.048
22.	164		.018	46.	505-1		.032
23.	181		.019	47.	505-2		.032
24.	182		.010	48.			

TS

Pit-Bench-Pattern #
S-18-2

Submittal Date
5-21-91 1:33 pm

BLAST HOLE (1)

Hot HoCN Shake
and
FIRE DETERMINATIONS

DATE: 5-23-91

NAME: MM

	SAMPLE	FIRE Au.	HoCN Au.		SAMPLE	FIRE Au.	HoCN Au.
1.	81		.010	25.	Standard ✓		.014
2.	82		.004	26.	✓7		.030
3.	83		.003	27.	129-1	.045	.046 .045
4.	84		.003	28.	129-2		.044
5.	85		.013	29.	131		.054
6.	86		.011	30.	132		.030
7.	87		.008	31.	201		.007
8.	Standard ✓		.015	32.	202		.012
9.	88		.011	33.			
10.	101		.011	34.			
11.	102	.011	.010	35.	203		.076
12.	103		.007	36.	204	.183	.199
13.	104		.008	37.	221	.015	.014
14.	105		.009	38.	222	.033	.036
15.	106		.010	39.	223	.023	.021 ~~.022~~
16.				40.	224	.036	.037 .037
17.				41.	225	.020	.020 .020
18.	107		.015	42.	Standard ✓		.015
19.	108		.016	43.	241	.016	.015 .016
20.	109		.028	44.	242	.033	~~.032~~ .029 .029
21.	110		.053	45.	243	~~.180~~ .036	~~.036~~ .035
22.	111		.076	46.	244	.178	.186
23.	112	.042	.040	47.	245	.035	.028 .030
24.	113		.063	48.	261	.021	~~.013~~ .017
				49	262	.016	~~.120~~ .012
				50	263	~~.118~~ .119	~~.017~~ .119

.118 Rerun FA

Pit-Bench-Pattern #
S-18-2 EOP

Submittal Date
5-22-91 10:12am

(3)

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

DATE: 5-23-91

NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	3		.005	25.	Standard ✓		.013
2.	22		.008	26.	602		.005
3.	23		.005	27.	603		.005
4.	24		.008	28.	604		.009
5.	25		.007	29.	1001-1	.041	.038
6.	41		.006	30.	1001-2		.039
7.	42		.005	31.			
8.	Standard ✓		.014	32.			
9.	43		.004	33.			
10.	44		.009	34.			
11.	45	.008	.007	35.			
12.	46		.006	36.			
13.	47		.004	37.			
14.	48		.020	38.			
15.	V7		.028	39.			
16.				40.			
17.				41.			
18.	165		.073	42.	Standard ✓		
19.	166	.173	.173	43.			
20.	167		.067	44.			
21.	168		.031	45.			
22.	169		.020	46.			
23.	170		.034	47.			
24.	601		.004	48.			

TS ✓

Pit-Bench-Pattern #
S-18-2

Submittal Date
5-21-91 8:12am

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

(1)

DATE: 5-22-91

NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	121		.034	25.	Standard ✓		.014
2.	122		.008	26.	506		.043
3.	123		.007	27.	507		.024
4.	124		.010	28.	508		.020
5.	125		.013	29.	509		.029
6.	126		.018	30.	510		.020
7.	127		.025	31.	511		.044
8.	Standard ✓		.014	32.	512		.050
9.	128		.038	33.			
10.	✓7		.029	34.			
11.	130		.056	35.	513	.126	.127
12.	141		.015	36.	514	.202	.206
13.	142		.017	37.	515	.152	.159
14.	143		.025	38.	516	.088	.080
15.	144		.012	39.	517	.102	.105
16.				40.	518	.332	.327
17.				41.	519	.096	.097
18.	145		.012	42.	Standard ✓		.015
19.	146		.027	43.	520	.150	.158
20.	147	.035	.032	44.	521		.019
21.	148		.076	45.	522-1	.012	.008
22.	149		.069	46.	522-2		.008
23.	150		.036	47.			
24.	151	.109	.113	48.			

X

95 ✓

Pit-Bench-Pattern #
5-18-2 [redacted]

Submittal Date
5-29-91

BLAST HOLE

Hot HeCN Stain and FIRE DETERMINATIONS

DATE: 5-30-91

NAME: MM

	SAMPLE	FIRE Au.	HeCN Au.		SAMPLE	FIRE Au.	HeCN Au.
1.				25.	Standard ✓		.015
2.				26.	263-2		.119
3.				27.			
4.				28.			
5.				29.			
6.				30.			
7.				31.			
8.	Standard ✓			32.			
9.				33.	[redacted]		
10.				34.	[redacted]		
11.	223		.021	35.			
12.	224		.037	36.			
13.	225		.020	37.			
14.	241		.015	38.			
15.	242		.029	39.			
16.	[redacted]			40.			
17.				41.			
18.	243		.035	42.	Standard ✓		
19.	244		.186	43.			
20.	245		.028	44.			
21.	✓7		.027	45.			
22.	261		.017	46.			
23.	262		.012	47.			
24.	263-1		.119	48.			

α

Pit-Bench-Pattern #
S-18-2 Reruns

Submittal Date
5-29-91

BLAST HOLE

Hot HaCN Shake and FIRE DETERMINATIONS

DATE: 5-30-91

NAME: MM

	SAMPLE	FIRE Au.	HaCN Au.		SAMPLE	FIRE Au.	HaCN Au.
1.				25.	Standard ✓		.015
2.				26.	263-2		.119
3.				27.			
4.				28.			
5.				29.			
6.				30.			
7.				31.			
8.	Standard ✓			32.			
9.				33.			
10.				34.			
11.	223	.023	.021	35.	223		.022
12.	224	.036	.037	36.	224		.037
13.	225	.020	.020	37.	225		.020
14.	241	.016	.015	38.	241		.016
15.	242	.033	.029	39.	242		.032
16.				40.	~~243~~		
17.				41.	~~243~~ 243		
18.	243	.036	.035	42.	Standard ✓	.180	.036
19.	244	.178	.186	43.	244		.186
20.	245	.035	.028	44.	245		.030
21.	✓7	.031	.027	45.	—		
22.	261	.021	.017	46.	261		.013
23.	262	.016	.012	47.	262		.120
24.	263-1	.119	.119	48.	263	.118	.017

X

PATTERN S-18-2 BLAST HOLE ORE TYPE DATE 5-22-91

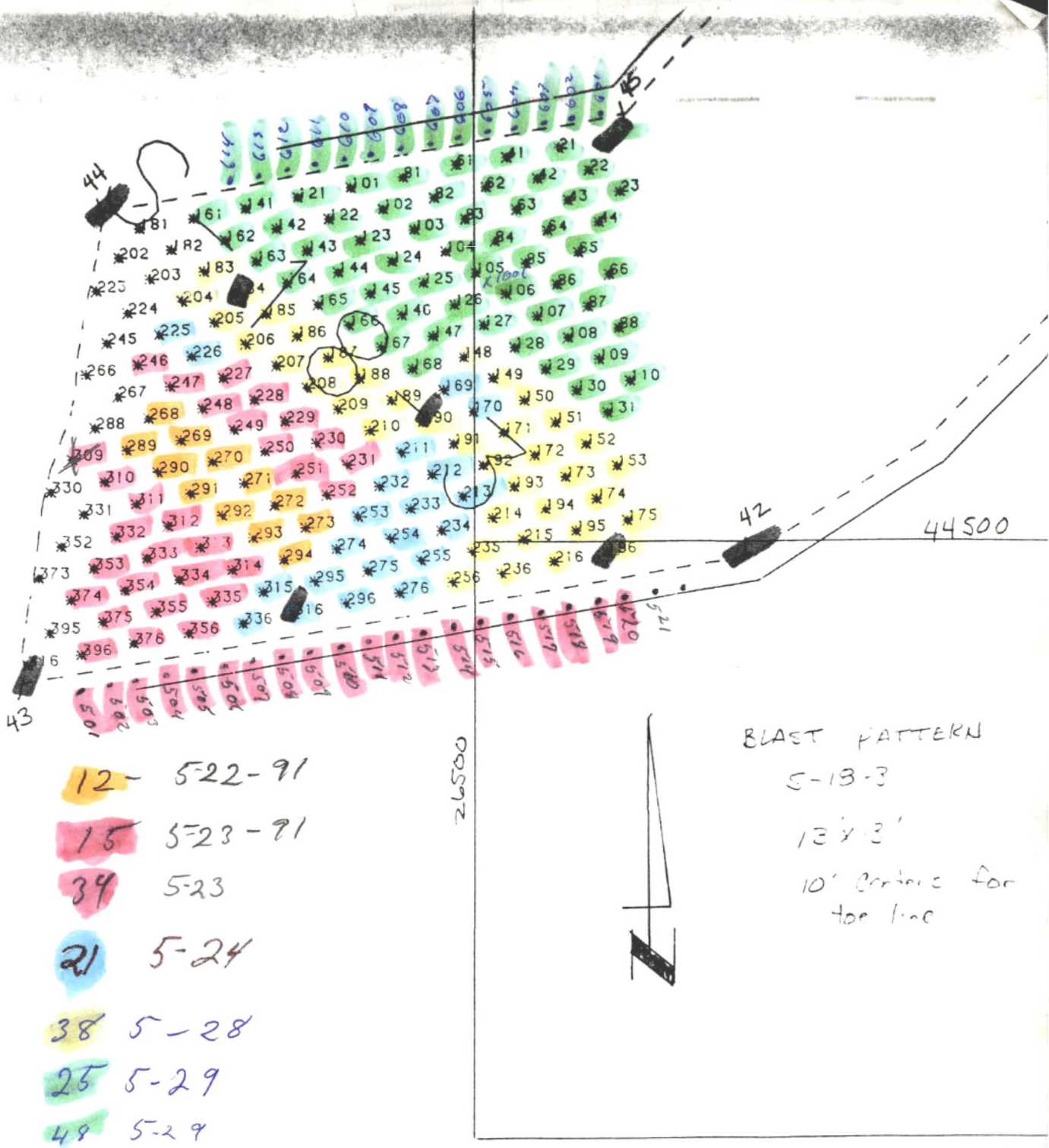
NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
3		X		184			X								
22		X		185			X								
23			X	186			X								
24			X	187			X								
25			X	188			X								
41			X	189			X								
42			X	205			X								
43			X	206			X								
44			X	207			X								
45			X	208			X								
46			X	226			X								
47			X	227			X								
48			X	501			X								
61		X		502			X								
62		X		503			X								
63			X	504			X								
64			X	505			X								
65			X	601			X								
66			X	602		X									
67			X	603		X									
68			X	604			X								
69			X	1001			X								
70			X	225			X								
89			X												
90			X												
91			X												
92			X												
161			X												
162			X												
163			X												
164			X												
165			X												
166			X												
167			X												
168			X												
169			X												
170			X												
181			X												
182			X												
183			X												

BLAST HOLE ORE TYPE

PATTERN S-18-2 DATE 5-22-91

NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI	NO.	SUL	MIX	OXI
81			X	125			X	223		X	X	521			X
82			X	126			X	224			X	522			X
83			X	127			X	241			X				
84			X	128			X	242			X	1			
85			X	129			X	243			X	2			
86			X	130			X	244			X	3			
87			X	131			X	245			X	4			
88			X	132			X	261			X	5			
101			X	141			X	262			X	6			
102			X	142			X	263			X	7			
103			X	143			X	506			X	8			
104		X	X	144			X	507			X	9			
105			X	145			X	508			X	10			
106			X	146			X	509			X	11			
107			X	147			X	510			X	12			
108			X	148			X	511			X	13			
109			X	149			X	512			X	14			
110			X	150			X	513			X	15			
111			X	151			X	514			X	16			
112			X	201			X	515			X	17			
113			X	202			X	516			X	18			
121			X	203			X	517			X	19			
122			X	204		X	X	518			X	20			
123			X	221			X	519			X	21			
124		X	X	222			X	520			X	22			

S-18-3



12 - 5-22-91

15 5-23-91

34 5-23

21 5-24

38 5-28

25 5-29

48 5-29

Checked and edited 6/13/91
BM

no	0 shot no	bh no	fire au	aa au	fire equiv (aa/ratio)	ore type	ratio	actual ratio (aa/fire)
		0						
	0 1183	0			0.000		95.0%	
S18	3	1		9.000	9.474	3	95.0%	
S18	3	21		5.000	5.952	2	84.0%	
S18	3	22		7.000	10.000	1	70.0%	
S18	3	23		5.000	5.952	2	84.0%	
S18	3	41		3.000	3.158	3	95.0%	
S18	3	42		5.000	5.263	3	95.0%	
S18	3	43		4.000	4.762	2	84.0%	
S18	3	44		13.000	13.684	3	95.0%	
S18	3	61		6.000	6.316	3	95.0%	
S18	3	62	5.000	4.000	5.000	3	100.0%	80.0%
S18	3	63		2.000	2.381	2	84.0%	
S18	3	64		5.000	5.952	2	84.0%	
S18	3	65		9.000	10.714	2	84.0%	
S18	3	66	11.000	10.000	11.000	3	100.0%	90.9%
S18	3	81		12.000	12.632	3	95.0%	
S18	3	82		7.000	7.368	3	95.0%	
S18	3	83		4.000	4.211	3	95.0%	
S18	3	84		9.000	9.474	3	95.0%	
S18	3	85		5.000	5.952	2	84.0%	
S18	3	86	10.000	7.000	10.000	3	100.0%	70.0%
S18	3	87		8.000	8.421	3	95.0%	
S18	3	88		10.000	10.526	3	95.0%	
S18	3	101		44.000	46.316	3	95.0%	
S18	3	102		4.000	4.211	3	95.0%	
S18	3	103		5.000	5.263	3	95.0%	
S18	3	104		4.000	4.762	2	84.0%	
S18	3	105		3.000	3.571	2	84.0%	
S18	3	106		3.000	4.286	1	70.0%	
S18	3	107		4.000	5.714	1	70.0%	
S18	3	108	11.000	7.000	11.000	2	100.0%	63.6%
S18	3	109		11.000	11.579	3	95.0%	
S18	3	110		4.000	5.714	1	70.0%	
S18	3	121		14.000	16.667	2	84.0%	
S18	3	122		15.000	15.789	3	95.0%	
S18	3	123		5.000	5.263	3	95.0%	
S18	3	124		3.000	4.286	1	70.0%	
S18	3	125		4.000	4.762	2	84.0%	
S18	3	126		8.000	9.524	2	84.0%	
S18	3	127		9.000	12.857	1	70.0%	
S18	3	128	42.000	38.000	42.000	1	100.0%	90.5%
S18	3	129		4.000	5.714	1	70.0%	
S18	3	130		11.000	11.579	3	95.0%	
S18	3	131		7.000	7.368	3	95.0%	
S18	3	141		12.000	12.632	3	95.0%	
S18	3	142		5.000	5.952	2	84.0%	
S18	3	143	29.000	24.000	29.000	2	100.0%	82.8%
S18	3	144	24.000	17.000	24.000	2	100.0%	70.8%
S18	3	145		11.000	13.095	2	84.0%	
S18	3	146		8.000	9.524	2	84.0%	
S18	3	147	11.000	6.000	11.000	1	100.0%	54.5%
S18	3	148		3.000	4.286	1	70.0%	
S18	3	149	43.000	30.000	43.000	1	100.0%	69.8%

S18	3	150		7.000	10.000	1	70.0%	
S18	3	151		8.000	9.524	2	84.0%	
S18	3	152		13.000	13.684	3	95.0%	
S18	3	153		8.000	8.421	3	95.0%	
S18	3	161		15.000	15.789	3	95.0%	
S18	3	162		16.000	16.842	3	95.0%	
S18	3	163		12.000	12.632	3	95.0%	
S18	3	164		13.000	15.476	2	84.0%	
S18	3	165	40.000	31.000	40.000	1	100.0%	77.5%
S18	3	166		11.000	13.095	2	84.0%	
S18	3	167		6.000	7.143	2	84.0%	
S18	3	168		6.000	7.143	2	84.0%	
S18	3	169		1.000	1.429	1	70.0%	
S18	3	170		2.000	2.857	1	70.0%	
S18	3	171	20.000	17.000	20.000	1	100.0%	85.0%
S18	3	172	32.000	17.000	32.000	2	100.0%	53.1%
S18	3	173	57.000	37.000	57.000	2	100.0%	64.9%
S18	3	174	17.000	16.000	17.000	3	100.0%	94.1%
S18	3	175		10.000	10.526	3	95.0%	
S18	3	183		32.000	33.684	3	95.0%	
S18	3	184		20.000	21.053	3	95.0%	
S18	3	185	73.000	68.000	73.000	2	100.0%	93.2%
S18	3	186		33.000	34.737	3	95.0%	
S18	3	187		10.000	11.905	2	84.0%	
S18	3	188	26.000	26.000	26.000	2	100.0%	100.0%
S18	3	189		12.000	17.143	1	70.0%	
S18	3	190		5.000	7.143	1	70.0%	
S18	3	191	45.000	44.000	45.000	2	100.0%	97.8%
S18	3	192	46.000	34.000	46.000	2	100.0%	73.9%
S18	3	193	20.000	15.000	20.000	2	100.0%	75.0%
S18	3	194		11.000	13.095	2	84.0%	
S18	3	195	35.000	31.000	35.000	2	100.0%	88.6%
S18	3	196	14.000	13.000	14.000	3	100.0%	92.9%
S18	3	204		29.000	30.526	3	95.0%	
S18	3	205		62.000	65.263	3	95.0%	
S18	3	206	78.000	73.000	78.000	2	100.0%	93.6%
S18	3	207	65.000	63.000	65.000	2	100.0%	96.9%
S18	3	208	25.000	17.000	25.000	2	100.0%	68.0%
S18	3	209	20.000	22.000	20.000	2	100.0%	110.0%
S18	3	210	72.000	15.000	72.000	1	100.0%	20.8%
S18	3	211	25.000	25.000	25.000	2	100.0%	100.0%
S18	3	212	35.000	31.000	35.000	2	100.0%	88.6%
S18	3	213	20.000	16.000	20.000	2	100.0%	80.0%
S18	3	214	15.000	0.000	15.000	2	100.0%	0.0%
S18	3	215		11.000	11.579	3	95.0%	
S18	3	216		14.000	14.737	3	95.0%	
S18	3	225		34.000	35.789	3	95.0%	
S18	3	226		32.000	33.684	3	95.0%	
S18	3	227		79.000	83.158	3	95.0%	
S18	3	228	150.000	146.000	150.000	3	100.0%	97.3%
S18	3	229		34.000	35.789	3	95.0%	
S18	3	230	24.000	25.000	24.000	2	100.0%	104.2%
S18	3	231	20.000	18.000	20.000	2	100.0%	90.0%
S18	3	232		61.000	64.211	3	95.0%	
S18	3	233	80.000	54.000	80.000	2	100.0%	67.5%
S18	3	234	24.000	21.000	24.000	2	100.0%	87.5%