D-12-3

1935893 - R8 SEMS

1

Pit-Bench-Pattern #
D-12-3

Submittal Date
3/9/91 3:40p
* 3/11/91 1:52p

BLAST HOLE

Hot HoCN Shake
and
FIRE DETERMINATIONS

DATE: 3/12/91
NAME: KW

	SAMPLE	FIRE Au.	HoCN Au.		SAMPLE	FIRE Au.	HoCN Au.
1.	249	.019	.020	25.	Standard ✓		.017
2.	250		.010	26.	617	.036	.030
3.	251-1	.007	.007	27.	618		.016
4.	251-2		.006	28.	619	.027	.027
5.	252		.010	29.	656		.008
6.	253		.010	30.	657	.021	.023
7.	254		.005	31.	658		.012
8.	Standard ✓		.015	32.	696		.006
9.	255		.003	33.			
10.	256		.004	34.			
11.	257		.004	35.	697	.024	.024
12.	258	.009	.004	36.	1003		.008
13.	259		.004	37.*	452		.013
14.	260		.003	38.	453	.013	.013
15.	455	.021	.016	39.	454	.035	.037
16.				40.	492		.015
17.				41.	493		.008
18.	456		.010	42.	Standard ✓		.014
19.	496		.015	43.	494	.053	.072
20.	✓7		.030	44.	495		.012
21.	536	.023	.024	45.	532		.015
22.	576		.010	46.	533	.022	.021
23.	577	.012	.011	47.	534		.009
24.	616		.013	48.		Std ✓	.014

KW ✓

Pit-Bench-Pattern #
D-12-3
Submittal Date
3/12/91 9:06A
* 3/12/91 2:01 p

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

DATE: 3/13/91
NAME: KW

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	242		.009	25.	Standard ✓		.014
2.	243-1	.010	.008	26.	331	.021	.015
3.	243-2		.008	27.	370	.014	.012
4.	244		.008	28.	371	.029	.022
5.	245		.009	29.	411		.015
6.	246		.004	30.	451		.015
7.	247		.005	31.*	203		.006
8.	Standard ✓		.014	32.	204		.007
9.	248	.054	.055	33.			
10.	284		.005	34.			
11.	285		.007	35.	205		.004
12.	286	.012	.009	36.	206		.007
13.	287	.010	.010	37.	207	.036	.035
14.	288		.007	38.	208	.017	.016
15.	289	.106	.101	39.	209		.007
16.				40.	210		.006
17.				41.			
18.	290		.018	42.	Standard ✓		.015
19.	291		.009	43.			
20.	327		.008	44.			
21.	328		.006	45.			
22.	329		.007	46.			
23.	V7		.030	47.			
24.	330	.091	.093	48.			

KW

2

Pit-Bench-Pattern #
D-12-3

Submittal Date
3/13/91 10:03A Cnt

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 3/14/91

NAME: KW

End pattern

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	214		.005	25.	Standard ✓		.013
2.	215		.003	26.	1001		.013
3.	216		.004	27.	V7		.031
4.	217		.002	28.			
5.	218		.003	29.			
6.	241	.022	.022	30.			
7.	803		.013	31.			
8.	Standard ✓		.014	32.			
9.	804		.006	33.			
10.	805		.006	34.			
11.	806	.008	.006	35.			
12.	807		.003	36.			
13.	808		.019	37.			
14.	809-1	.028	.026	38.			
15.	809-2		.027	39.			
16.				40.			
17.				41.			
18.	810		.033	42.	Standard ✓		
19.	811		.040	43.			
20.	812		.008	44.			
21.	813		.003	45.			
22.	814		.007	46.			
23.	815		.008	47.			
24.	816	.020	.009	48.			

KW

Pit-Bench-Pattern #
D-12-3
Submittal Date
3/13/91 10:03 A

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 3/14/91
NAME: KW

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	8		.011	25.	Standard ✓		.015
2.	47		.006	26.	133		.021
3.	48	.119	.088	27.	134	.032	.026
4.	49		.020	28.	164		.017
5.	50		.013	29.	165		.009
6.	✓7		.031	30.	166	.076	.079
7.	86		.011	31.	167		.009
8.	Standard ✓		.015	32.	168		.020
9.	87	.056	.048	33.			
10.	88	.028	.023	34.			
11.	89		.009	35.	169	.010	.008
12.	90	.015	.011	36.	170		.005
13.	91		.016	37.	171		.006
14.	92		.011	38.	172-1	.015	.011
15.	125	.042	.042	39.	172-2		.011
16.				40.	173		.010
17.				41.	174		.004
18.	126		.027	42.	Standard ✓		.014
19.	127		.018	43.	175		.009
20.	128		.008	44.	176		.007
21.	129		.009	45.	211		.005
22.	130	.010	.006	46.	212		.012
23.	131		.012	47.	213	.016	.014
24.	132		.008	48.		Std ✓	.014

KW 1

α

Pit-Bench-Pattern #
D-12-3

Submittal Date
3/11/91 1:52p Cont.

BLAST HOLE

Hot BoCN Shake and FIRE DETERMINATIONS

DATE: 3/12/91

NAME: KW

	SAMPLE	FIRE Au.	BoCN Au.		SAMPLE	FIRE Au.	BoCN Au.
1.	535		.012	25.	Standard ✓		
2.	572	.037	.027	26.			
3.	573		.006	27.			
4.	574		.009	28.			
5.	575		.016	29.			
6.	612		.014	30.			
7.	613		.009	31.			
8.	Standard ✓		.014	32.			
9.	614		.010	33.			
10.	615	.018	.014	34.			
11.	653	.024	.023	35.			
12.	654		.013	36.			
13.	655-1	.012	.008	37.			
14.	655-2		.010	38.			
15.	✓7		.029	39.			
16.				40.			
17.				41.			
18.				42.	Standard ✓		
19.				43.			
20.				44.			
21.				45.			
22.				46.			
23.				47.			
24.				48.			

KW ✓

Pit-Bench-Pattern #
D-12-3

Submittal Date
3/7/91 2:00p

BLAST HOLE

Hot HoCN Shake and FIRE DETERMINATIONS

DATE: 3/8/91

NAME: KW

	SAMPLE	FIRE Au.	HoCN Au.		SAMPLE	FIRE Au.	HoCN Au.
1.	332	.032	.023	25.	Standard ✓		.015
2.	V7		.033	26.	385		.013
3.	333		.013	27.	412		.013
4.	334		.008	28.	413		.013
5.	335		.006	29.	414		.016
6.	336-1	.010	.005	30.	415		.009
7.	336-2		.005	31.	416		.010
8.	Standard ✓		.014	32.	417		.010
9.	337		.003	33.			
10.	372	.020	.018	34.			
11.	373		.009	35.	418		.012
12.	374		.004	36.	419		.016
13.	375	.010	.006	37.	420		.018
14.	376		.002	38.	421	.011	.015
15.	377		.006	39.	422		.011
16.				40.	423	.023	.021
17.				41.	424		.008
18.	378		.014	42.	Standard ✓		.014
19.	379		.020	43.	425		.004
20.	380		.015	44.	426	.011	.007
21.	381	.026	.027	45.	427		.004
22.	382		.031	46.	457		.013
23.	383		.013	47.	458		.029
24.	384	.014	.014	48.		Std ✓	.013

KW

Pit-Bench-Pattern #
D-12-3

Submittal Date
3/7/91 2:00P

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 3/8/91

NAME: KW

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	459		.016	25.	Standard ✓		
2.	460	.015	.014	26.			
3.	461		.008	27.			
4.	462	.024	.026	28.			
5.	463		.011	29.			
6.	464		Nil	30.			
7.	503		.011	31.			
8.	Standard ✓		.015	32.			
9.	504		.004	33.			
10.	17		.029	34.			
11.				35.			
12.				36.			
13.				37.			
14.				38.			
15.				39.			
16.				40.			
17.				41.			
18.				42.	Standard ✓		
19.				43.			
20.				44.			
21.				45.			
22.				46.			
23.				47.			
24.				48.			

KW

Pit-Bench-Pattern #
D-12-3

Submittal Date
3/8/91 8:55A

BLAST HOLE

Hot HoCN Shake
and
FIRE DETERMINATIONS

DATE: 3/11/91

NAME: KW

	SAMPLE	FIRE Au.	HoCN Au.		SAMPLE	FIRE Au.	HoCN Au.
1.	292		.007	25.	Standard ✓		.017
2.	293		.005	26.	499	.017	.008
3.	294		.007	27.	500		.007
4.	295	.005	.003	28.	501		.008
5.	296		.001	29.	502		.008
6.	297		.001	30.	537		.007
7.	298		.002	31.	✓7		.030
8.	Standard ✓		.016	32.	538		.016
9.	299		.006	33.			
10.	300		.005	34.			
11.	301	.007	.008	35.	539	.061	.052
12.	302-1	.010	.011	36.	540		.008
13.	302-2		.010	37.	541		.007
14.	338		.003	38.	542		.003
15.	339		.009	39.	578	.013	.012
16.				40.	579		.017
17.				41.	580	.050	.045
18.	340	.021	.017	42.	Standard ✓		.015
19.	341		.007	43.	1002		.004
20.	342		.008	44.			
21.	343		.007	45.			
22.	344		.008	46.			
23.	497		.009	47.			
24.	498		.015	48.			

KW

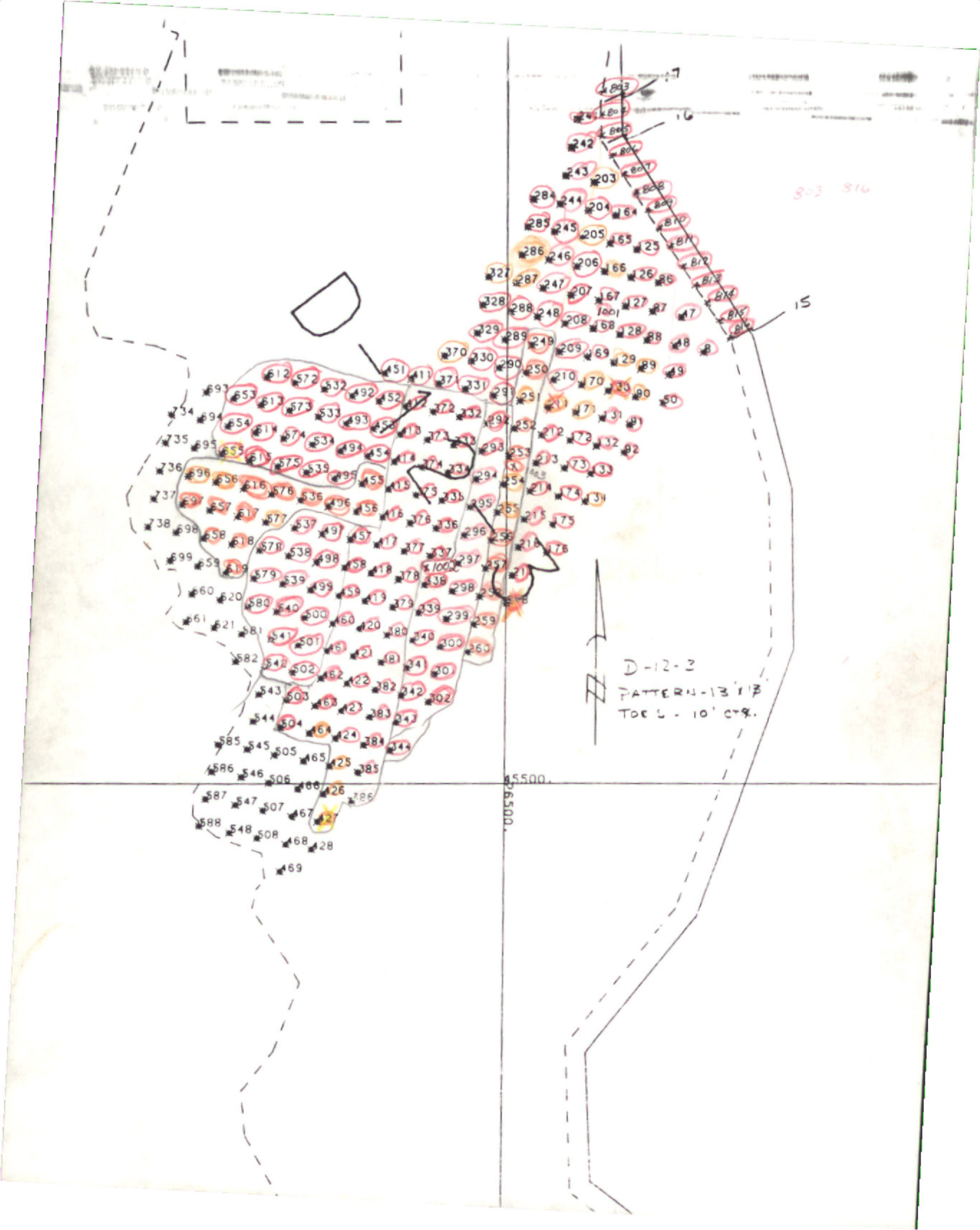
CHECKED OK
4/4/91

bench no	shot no	bh no	fire au	aa au	fire equiv (aa/ratio)	ore type	ratio	actual ratio (aa/fire)
		0						
0	0	0						
D12	3	8		0.011	0.012	3	95.0%	
D12	3	47		0.006	0.006	3	95.0%	
D12	3	48	0.119	0.088	0.119	3	100.0%	73.9%
D12	3	49		0.020	0.021	3	95.0%	
D12	3	50		0.013	0.014	3	95.0%	
D12	3	86		0.011	0.012	3	95.0%	
D12	3	87	0.056	0.048	0.056	3	100.0%	85.7%
D12	3	88	0.028	0.023	0.028	3	100.0%	82.1%
D12	3	89		0.009	0.011	2	84.0%	
D12	3	90	0.015	0.011	0.015	2	100.0%	73.3%
D12	3	91		0.016	0.017	3	95.0%	
D12	3	92		0.011	0.012	3	95.0%	
D12	3	125	0.042	0.042	0.042	3	100.0%	100.0%
D12	3	126		0.027	0.028	3	95.0%	
D12	3	127		0.018	0.019	3	95.0%	
D12	3	128		0.008	0.008	3	95.0%	
D12	3	129		0.009	0.011	2	84.0%	
D12	3	130	0.010	0.006	0.010	3	100.0%	60.0%
D12	3	131		0.012	0.013	3	95.0%	
D12	3	132		0.008	0.008	3	95.0%	
D12	3	133		0.021	0.022	3	95.0%	
D12	3	134	0.032	0.026	0.032	2	100.0%	81.3%
D12	3	164		0.017	0.018	3	95.0%	
D12	3	165		0.009	0.009	3	95.0%	
D12	3	166	0.076	0.079	0.076	2	100.0%	103.9%
D12	3	167		0.009	0.009	3	95.0%	
D12	3	168		0.020	0.021	3	95.0%	
D12	3	169	0.010	0.008	0.010	3	100.0%	80.0%
D12	3	170		0.005	0.006	2	84.0%	
D12	3	171		0.006	0.007	2	84.0%	
D12	3	172	0.015	0.011	0.015	3	100.0%	73.3%
D12	3	173		0.010	0.011	3	95.0%	
D12	3	174		0.004	0.004	3	95.0%	
D12	3	175		0.009	0.009	3	95.0%	
D12	3	176		0.007	0.007	3	95.0%	
D12	3	203		0.006	0.007	2	84.0%	
D12	3	204		0.007	0.007	3	95.0%	
D12	3	205		0.004	0.005	2	84.0%	
D12	3	206		0.007	0.007	3	95.0%	
D12	3	207	0.036	0.035	0.036	3	100.0%	97.2%
D12	3	208	0.017	0.016	0.017	3	100.0%	94.1%
D12	3	209		0.007	0.007	3	95.0%	
D12	3	210		0.006	0.006	3	95.0%	
D12	3	211		0.005	0.006	2	84.0%	
D12	3	212		0.012	0.013	3	95.0%	
D12	3	213	0.016	0.014	0.016	3	100.0%	87.5%
D12	3	214		0.005	0.005	3	95.0%	
D12	3	215		0.003	0.003	3	95.0%	
D12	3	216		0.004	0.004	3	95.0%	
D12	3	217		0.002	0.002	3	95.0%	
D12	3	218		0.003	0.003	3	95.0%	
D12	3	241	0.022	0.022	0.022	3	100.0%	100.0%
D12	3	242		0.009	0.009	3	95.0%	
D12	3	243	0.010	0.008	0.010	3	100.0%	80.0%
D12	3	244		0.008	0.008	3	95.0%	
D12	3	245		0.009	0.009	3	95.0%	
D12	3	246		0.004	0.004	3	95.0%	
D12	3	247		0.005	0.005	3	95.0%	
D12	3	248	0.054	0.055	0.054	3	100.0%	101.9%
D12	3	249	0.019	0.020	0.019	3	100.0%	105.3%

D12	3	250		0.010	0.011	3	95.0%	
D12	3	251	0.007	0.007	0.007	2	100.0%	100.0%
D12	3	252		0.010	0.011	3	95.0%	
D12	3	253		0.010	0.011	3	95.0%	
D12	3	254		0.005	0.006	2	84.0%	
D12	3	255		0.003	0.004	2	84.0%	
D12	3	256		0.004	0.004	3	95.0%	
D12	3	257		0.004	0.004	3	95.0%	
D12	3	258	0.009	0.004	0.009	3	100.0%	44.4%
D12	3	259		0.004	0.004	3	95.0%	
D12	3	260		0.003	0.003	3	95.0%	
D12	3	284		0.005	0.005	3	95.0%	
D12	3	285		0.007	0.007	3	95.0%	
D12	3	286	0.012	0.009	0.012	2	100.0%	75.0%
D12	3	287	0.010	0.010	0.010	2	100.0%	100.0%
D12	3	288		0.007	0.007	3	95.0%	
D12	3	289	0.106	0.101	0.106	3	100.0%	95.3%
D12	3	290		0.018	0.019	3	95.0%	
D12	3	291		0.009	0.009	3	95.0%	
D12	3	292		0.007	0.007	3	95.0%	
D12	3	293		0.005	0.005	3	95.0%	
D12	3	294		0.007	0.007	3	95.0%	
D12	3	295	0.005	0.003	0.005	3	100.0%	60.0%
D12	3	296		0.001	0.001	3	95.0%	
D12	3	297		0.001	0.001	3	95.0%	
D12	3	298		0.002	0.002	3	95.0%	
D12	3	299		0.006	0.006	3	95.0%	
D12	3	300		0.005	0.005	3	95.0%	
D12	3	301	0.007	0.008	0.007	3	100.0%	114.3%
D12	3	302	0.010	0.011	0.010	3	100.0%	110.0%
D12	3	327		0.008	0.010	2	84.0%	
D12	3	328		0.006	0.006	3	95.0%	
D12	3	329		0.007	0.007	3	95.0%	
D12	3	330	0.091	0.093	0.091	3	100.0%	102.2%
D12	3	331	0.021	0.015	0.021	3	100.0%	71.4%
D12	3	332	0.032	0.023	0.032	3	100.0%	71.9%
D12	3	333		0.013	0.014	3	95.0%	
D12	3	334		0.008	0.008	3	95.0%	
D12	3	335		0.006	0.006	3	95.0%	
D12	3	336	0.010	0.005	0.010	3	100.0%	50.0%
D12	3	337		0.003	0.003	3	95.0%	
D12	3	338		0.003	0.003	3	95.0%	
D12	3	339		0.009	0.009	3	95.0%	
D12	3	340	0.021	0.017	0.021	3	100.0%	81.0%
D12	3	341		0.007	0.007	3	95.0%	
D12	3	342		0.008	0.008	3	95.0%	
D12	3	343		0.007	0.007	3	95.0%	
D12	3	344		0.008	0.008	3	95.0%	
D12	3	370	0.014	0.012	0.014	2	100.0%	85.7%
D12	3	371	0.029	0.022	0.029	3	100.0%	75.9%
D12	3	372	0.020	0.018	0.020	3	100.0%	90.0%
D12	3	373		0.009	0.009	3	95.0%	
D12	3	374		0.004	0.004	3	95.0%	
D12	3	375	0.010	0.006	0.010	3	100.0%	60.0%
D12	3	376		0.002	0.002	3	95.0%	
D12	3	377		0.006	0.006	3	95.0%	
D12	3	378		0.014	0.015	3	95.0%	
D12	3	379		0.020	0.021	3	95.0%	
D12	3	380		0.015	0.016	3	95.0%	
D12	3	381	0.026	0.027	0.026	3	100.0%	103.8%
D12	3	382		0.031	0.033	3	95.0%	
D12	3	383		0.013	0.014	3	95.0%	
D12	3	384	0.014	0.014	0.014	3	100.0%	100.0%
D12	3	385		0.013	0.014	3	95.0%	
D12	3	411		0.015	0.016	3	95.0%	
D12	3	412		0.013	0.014	3	95.0%	

D12	3	413		0.013	0.014	3	95.0%	
D12	3	414		0.016	0.017	3	95.0%	
D12	3	415		0.009	0.009	3	95.0%	
D12	3	416		0.010	0.011	3	95.0%	
D12	3	417		0.010	0.011	3	95.0%	
D12	3	418		0.012	0.013	3	95.0%	
D12	3	419		0.016	0.017	3	95.0%	
D12	3	420		0.018	0.019	3	95.0%	
D12	3	421	0.011	0.015	0.011	3	100.0%	136.4%
D12	3	422		0.011	0.012	3	95.0%	
D12	3	423	0.023	0.021	0.023	3	100.0%	91.3%
D12	3	424		0.008	0.008	3	95.0%	
D12	3	425		0.004	0.005	2	84.0%	
D12	3	426	0.011	0.007	0.011	2	100.0%	63.6%
D12	3	427		0.004	0.005	2	84.0%	
D12	3	451		0.015	0.016	3	95.0%	
D12	3	452		0.013	0.014	3	95.0%	
D12	3	453	0.013	0.013	0.013	3	100.0%	100.0%
D12	3	454	0.035	0.037	0.035	3	100.0%	105.7%
D12	3	455	0.021	0.016	0.021	3	100.0%	76.2%
D12	3	456		0.010	0.011	3	95.0%	
D12	3	457		0.013	0.014	3	95.0%	
D12	3	458		0.029	0.031	3	95.0%	
D12	3	459		0.016	0.017	3	95.0%	
D12	3	460	0.015	0.014	0.015	3	100.0%	93.3%
D12	3	461		0.008	0.008	3	95.0%	
D12	3	462	0.024	0.026	0.024	3	100.0%	108.3%
D12	3	463		0.011	0.012	3	95.0%	
D12	3	464		0.000	0.000	2	84.0%	
D12	3	492		0.015	0.016	3	95.0%	
D12	3	493		0.008	0.008	3	95.0%	
D12	3	494	0.053	0.072	0.053	3	100.0%	135.8%
D12	3	495		0.012	0.013	3	95.0%	
D12	3	496		0.015	0.016	3	95.0%	
D12	3	497		0.009	0.009	3	95.0%	
D12	3	498		0.015	0.016	3	95.0%	
D12	3	499	0.017	0.008	0.017	3	100.0%	47.1%
D12	3	500		0.007	0.007	3	95.0%	
D12	3	501		0.008	0.008	3	95.0%	
D12	3	502		0.008	0.008	3	95.0%	
D12	3	503		0.011	0.012	3	95.0%	
D12	3	504		0.004	0.004	3	95.0%	
D12	3	532		0.015	0.016	3	95.0%	
D12	3	533	0.022	0.021	0.022	3	100.0%	95.5%
D12	3	534		0.009	0.009	3	95.0%	
D12	3	535		0.012	0.013	3	95.0%	
D12	3	536	0.023	0.024	0.023	3	100.0%	104.3%
D12	3	537		0.007	0.007	3	95.0%	
D12	3	538		0.016	0.017	3	95.0%	
D12	3	539	0.061	0.052	0.061	3	100.0%	85.2%
D12	3	540		0.008	0.008	3	95.0%	
D12	3	541		0.007	0.007	3	95.0%	
D12	3	542		0.003	0.003	3	95.0%	
D12	3	572	0.037	0.027	0.037	3	100.0%	73.0%
D12	3	573		0.006	0.006	3	95.0%	
D12	3	574		0.009	0.009	3	95.0%	
D12	3	575		0.016	0.017	3	95.0%	
D12	3	576		0.010	0.011	3	95.0%	
D12	3	577	0.012	0.011	0.012	2	100.0%	91.7%
D12	3	578	0.013	0.012	0.013	3	100.0%	92.3%
D12	3	579		0.017	0.018	3	95.0%	
D12	3	580	0.050	0.045	0.050	3	100.0%	90.0%
D12	3	612		0.014	0.015	3	95.0%	
D12	3	613		0.009	0.009	3	95.0%	
D12	3	614		0.010	0.011	3	95.0%	
D12	3	615	0.018	0.014	0.018	3	100.0%	77.8%

D12	3	616		0.013	0.014	3	95.0%	
D12	3	617	0.036	0.030	0.036	3	100.0%	83.3%
D12	3	618		0.016	0.017	3	95.0%	
D12	3	619	0.027	0.027	0.027	3	100.0%	100.0%
D12	3	653	0.024	0.023	0.024	3	100.0%	95.8%
D12	3	654		0.013	0.014	3	95.0%	
D12	3	655	0.012	0.009	0.012	3	100.0%	75.0%
D12	3	656		0.008	0.010	2	84.0%	
D12	3	657	0.021	0.023	0.021	3	100.0%	109.5%
D12	3	658		0.012	0.013	3	95.0%	
D12	3	696		0.006	0.007	2	84.0%	
D12	3	697	0.024	0.024	0.024	3	100.0%	100.0%
D12	3	803		0.013	0.014	3	95.0%	
D12	3	804		0.006	0.006	3	95.0%	
D12	3	805		0.006	0.006	3	95.0%	
D12	3	806	0.008	0.006	0.008	3	100.0%	75.0%
D12	3	807		0.003	0.003	3	95.0%	
D12	3	808		0.019	0.020	3	95.0%	
D12	3	809	0.028	0.027	0.028	3	100.0%	96.4%
D12	3	810		0.033	0.035	3	95.0%	
D12	3	811		0.040	0.042	3	95.0%	
D12	3	812		0.008	0.008	3	95.0%	
D12	3	813		0.003	0.003	3	95.0%	
D12	3	814		0.007	0.007	3	95.0%	
D12	3	815		0.008	0.008	3	95.0%	
D12	3	816	0.020	0.009	0.020	3	100.0%	45.0%
D12	3	1001		0.013	0.014	3	95.0%	
D12	3	1002		0.004	0.004	3	95.0%	
D12	3	1003		0.008	0.008	3	95.0%	
	mean		27	14	0		95.7%	25.0%


D-12-3
PATTERN-13'x13'
TOE S - 10' CTR.
45500.
26500.
15
16
17
803 816

CHECKED & EDITTED
3-19-91

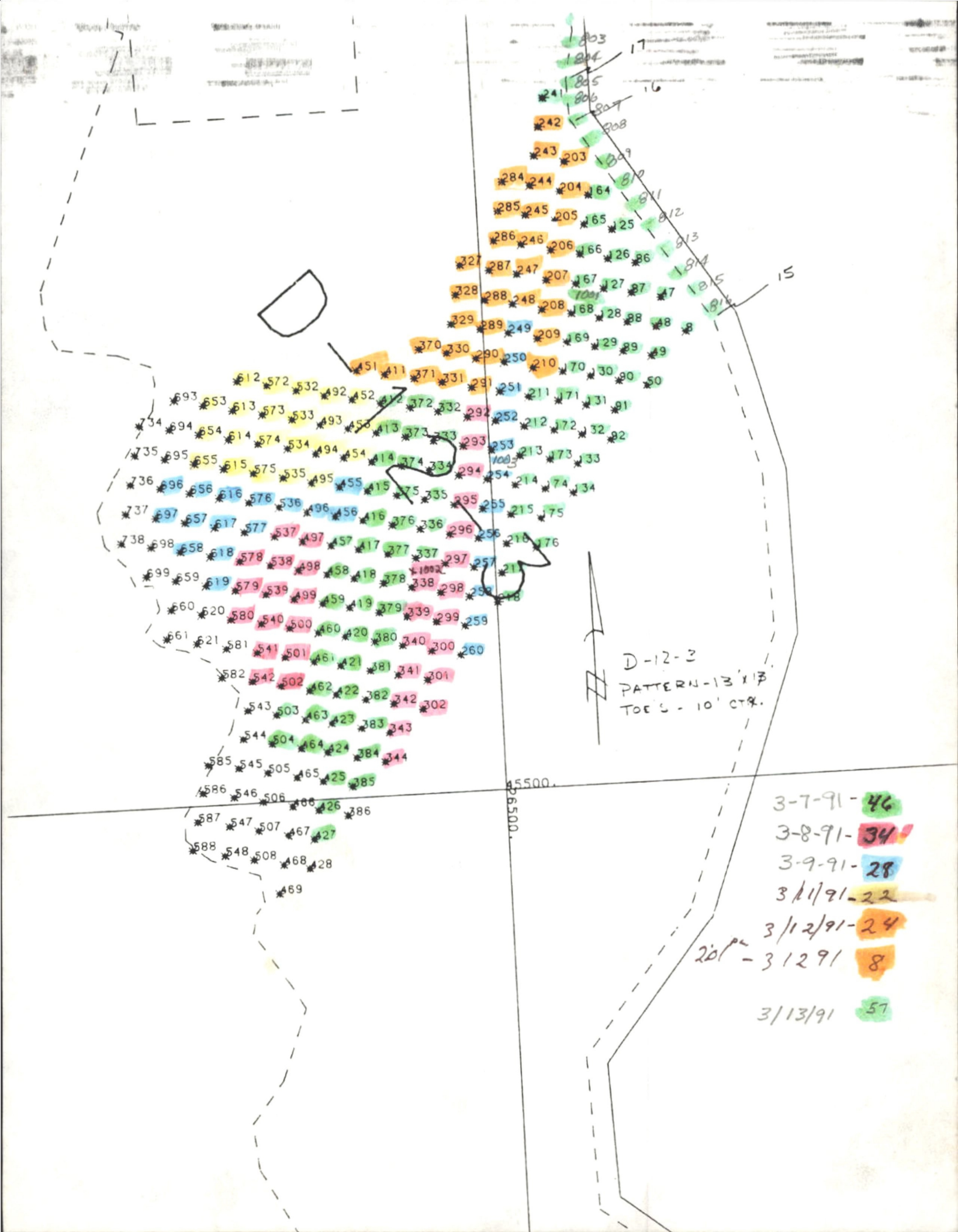
bench no	shot no	bh no	fire au	aa au	fire equiv (aa/ratio)	ore type	ratio	actual ratio (aa/fire)
		0						
0	2123	0			0		0.92	
D12	3	8		0.011	0.012	3	92.0%	
D12	3	47		0.006	0.007	3	92.0%	
D12	3	48	0.119	0.088	0.119	3	100.0%	73.9%
D12	3	49		0.020	0.021	3	94.0%	
D12	3	50		0.013	0.014	3	92.0%	
D12	3	86		0.011	0.012	3	92.0%	
D12	3	87	0.056	0.048	0.056	3	100.0%	85.7%
D12	3	88	0.028	0.023	0.028	3	100.0%	82.1%
D12	3	89		0.009	0.010	2	92.0%	
D12	3	90	0.015	0.011	0.015	2	100.0%	73.3%
D12	3	91		0.016	0.017	3	94.0%	
D12	3	92		0.011	0.012	3	92.0%	
D12	3	125	0.042	0.042	0.042	3	100.0%	100.0%
D12	3	126		0.027	0.029	3	94.0%	
D12	3	127		0.018	0.019	3	94.0%	
D12	3	128		0.008	0.009	3	92.0%	
D12	3	129		0.009	0.010	2	92.0%	
D12	3	130	0.010	0.006	0.010	3	100.0%	60.0%
D12	3	131		0.012	0.013	3	92.0%	
D12	3	132		0.008	0.009	3	92.0%	
D12	3	133		0.021	0.022	3	94.0%	
D12	3	134	0.032	0.026	0.032	2	100.0%	81.3%
D12	3	164		0.017	0.018	3	94.0%	
D12	3	165		0.009	0.010	3	92.0%	
D12	3	166	0.076	0.079	0.076	2	100.0%	103.9%
D12	3	167		0.009	0.010	3	92.0%	
D12	3	168		0.020	0.021	3	94.0%	
D12	3	169	0.010	0.008	0.010	3	100.0%	80.0%
D12	3	170		0.005	0.005	2	92.0%	
D12	3	171		0.006	0.007	2	92.0%	
D12	3	172	0.015	0.011	0.015	3	100.0%	73.3%
D12	3	173		0.010	0.011	3	92.0%	
D12	3	174		0.004	0.004	3	92.0%	
D12	3	175		0.009	0.010	3	92.0%	
D12	3	176		0.007	0.008	3	92.0%	
D12	3	203		0.006	0.007	2	92.0%	
D12	3	204		0.007	0.008	3	92.0%	
D12	3	205		0.004	0.004	2	92.0%	
D12	3	206		0.007	0.008	3	92.0%	
D12	3	207	0.036	0.035	0.036	3	100.0%	97.2%
D12	3	208	0.017	0.016	0.017	3	100.0%	94.1%
D12	3	209		~~0.006~~	0.007	3	92.0%	.007
D12	3	211		0.005	0.005	2	92.0%	210 .006
D12	3	212		0.012	0.013	3	92.0%	
D12	3	213	0.016	0.014	0.016	3	100.0%	87.5%
D12	3	214		0.005	0.005	3	92.0%	
D12	3	215		0.003	0.003	3	92.0%	
D12	3	216		0.004	0.004	3	92.0%	
D12	3	217		0.002	0.002	3	92.0%	
D12	3	218		0.003	0.003	~~2~~	92.0%	3
D12	3	241	0.022	0.022	0.022	3	100.0%	100.0%
D12	3	242		0.009	0.010	3	92.0%	

D12	3	243	0.010	0.008	0.010	3	100.0%	80.0%	
D12	3	244		0.008	0.009	3	92.0%		
D12	3	245		0.009	0.010	3	92.0%		
D12	3	246		0.004	0.004	3	92.0%		
D12	3	247		0.005	0.005	3	92.0%		
D12	3	248	0.054	0.055	0.054	3	100.0%	101.9%	
D12	3	249	0.019	0.020	0.019	3	100.0%	105.3%	
D12	3	250		0.010	0.011	3	92.0%		
D12	3	251	0.007	0.007	0.007	2	100.0%	100.0%	
D12	3	252		0.010	0.011	3	92.0%		
D12	3	253		0.010	0.011	3	92.0%		
D12	3	254		0.005	0.005	2	92.0%		
D12	3	255		0.003	0.003	2	92.0%		
D12	3	256		0.004	0.004	3	92.0%		
D12	3	257		0.004	0.004	3	92.0%		
D12	3	258	0.009	0.004	0.009	3	100.0%	44.4%	
D12	3	259		0.004	0.004	3	92.0%		
D12	3	260		0.003	0.003	3	92.0%		
D12	3	284		0.005	0.005	3	92.0%		
D12	3	285		0.007	0.008	3	92.0%		
D12	3	286	0.012	0.009	0.012	2	100.0%	75.0%	
D12	3	287	0.010	0.010	0.010	2	100.0%	100.0%	
D12	3	288		0.007	0.008	3	92.0%		
D12	3	289	0.106	0.101	0.106	3	100.0%	95.3%	
D12	3	290		0.018	0.019	3	94.0%		
D12	3	291		0.009	0.010	3	92.0%		
D12	3	292		0.007	0.008	3	92.0%		
D12	3	293		0.005	0.005	3	92.0%		
D12	3	294		0.007	0.008	3	92.0%		
D12	3	295	0.005	0.003	0.005	3	100.0%	60.0%	
D12	3	296		0.001	0.001	3	92.0%		
D12	3	297		0.001	0.001	3	92.0%		
D12	3	298		0.002	0.002	3	92.0%		
D12	3	299		0.006	0.007	3	92.0%		
D12	3	300		0.005	0.005	3	92.0%		
D12	3	301	0.007	0.008	0.007	3	100.0%	114.3%	
D12	3	302	0.010	0.011	0.010	3	100.0%	110.0%	
D12	3	327		0.008	0.009	2	92.0%		
D12	3	328		0.006	0.007	3	92.0%		
D12	3	329		0.007	0.008	3	92.0%		
D12	3	330	0.091	0.093	0.091	3	100.0%	102.2%	
D12	3	331	0.021	0.015	0.021	3	100.0%	71.4%	
D12	3	332	0.032	0.023	0.032	3	100.0%	71.9%	
D12	3	333		~~0.033~~	0.037	3	89.0%		.013
D12	3	334		0.008	0.009	3	92.0%		
D12	3	335		0.006	0.007	3	92.0%		
D12	3	336	0.010	0.005	0.010	3	100.0%	50.0%	
D12	3	337		0.003	0.003	3	92.0%		
D12	3	338		0.003	0.003	3	92.0%		
D12	3	339		0.009	0.010	3	92.0%		
D12	3	340	0.021	0.017	0.021	3	100.0%	81.0%	
D12	3	341		0.007	0.008	3	92.0%		
D12	3	342		0.008	0.009	3	92.0%		
D12	3	343		0.007	0.008	3	92.0%		
D12	3	344		0.008	0.009	3	92.0%		
D12	3	370	0.014	0.012	0.014	2	100.0%	85.7%	

D12	3	371	0.029	0.022	0.029	3	100.0%	75.9%
D12	3	372	0.020	0.018	0.020	3	100.0%	90.0%
D12	3	373		0.009	0.010	3	92.0%	
D12	3	374		0.004	0.004	3	92.0%	
D12	3	375	0.010	0.006	0.010	3	100.0%	60.0%
D12	3	376		0.002	0.002	3	92.0%	
D12	3	377		0.006	0.007	3	92.0%	
D12	3	378		0.014	0.015	3	92.0%	
D12	3	379		0.020	0.021	3	94.0%	
D12	3	380		0.015	0.016	3	94.0%	
D12	3	381	0.026	0.027	0.026	3	100.0%	103.8%
D12	3	382		0.031	0.035	3	89.0%	
D12	3	383		0.013	0.014	3	92.0%	
D12	3	384	0.014	0.014	0.014	3	100.0%	100.0%
D12	3	385		0.013	0.014	3	92.0%	
D12	3	411		0.015	0.016	3	94.0%	
D12	3	412		0.013	0.014	3	92.0%	
D12	3	413		0.013	0.014	3	92.0%	
D12	3	414		0.016	0.017	3	94.0%	
D12	3	415		0.009	0.010	3	92.0%	
D12	3	416		0.010	0.011	3	92.0%	
D12	3	417		0.010	0.011	3	92.0%	
D12	3	418		0.012	0.013	3	92.0%	
D12	3	419		0.016	0.017	3	94.0%	
D12	3	420		0.018	0.019	3	94.0%	
D12	3	421	0.011	0.015	0.011	3	100.0%	136.4%
D12	3	422		0.011	0.012	3	92.0%	
D12	3	423	0.023	0.021	0.023	3	100.0%	91.3%
D12	3	424		0.008	0.009	3	92.0%	
D12	3	425		0.004	0.004	2	92.0%	
D12	3	426	0.011	0.007	0.011	2	100.0%	63.6%
D12	3	427		0.004	0.004	2	92.0%	
D12	3	451		0.015	0.016	3	94.0%	
D12	3	452		0.013	0.014	3	92.0%	
D12	3	453	0.013	0.013	0.013	3	100.0%	100.0%
D12	3	454	0.035	0.037	0.035	3	100.0%	105.7%
D12	3	455	0.021	0.016	0.021	3	100.0%	76.2%
D12	3	456		0.010	0.011	3	92.0%	
D12	3	457		0.013	0.014	3	92.0%	
D12	3	458		0.029	0.031	3	94.0%	
D12	3	459		0.016	0.017	3	94.0%	
D12	3	460	0.015	0.014	0.015	3	100.0%	93.3%
D12	3	461		0.008	0.009	3	92.0%	
D12	3	462	0.024	0.026	0.024	3	100.0%	108.3%
D12	3	463		0.011	0.012	3	92.0%	
D12	3	464		0.000	0.000	2	92.0%	
D12	3	492		0.015	0.016	3	94.0%	
D12	3	493		0.008	0.009	3	92.0%	
D12	3	494	0.053	0.072	0.053	3	100.0%	135.8%
D12	3	495		0.012	0.013	3	92.0%	
D12	3	496		0.015	0.016	3	94.0%	
D12	3	497		0.009	0.010	3	92.0%	
D12	3	498		0.015	0.016	3	94.0%	
D12	3	499	0.017	0.008	0.017	3	100.0%	47.1%
D12	3	500		0.007	0.008	3	92.0%	
D12	3	501		0.008	0.009	3	92.0%	

D12	3	502		0.008	0.009	3	92.0%		
D12	3	503		0.011	0.012	3	92.0%		
D12	3	504		0.004	0.004	3	92.0%		
D12	3	532		0.015	0.016	3	94.0%		
D12	3	533	0.022	0.021	0.022	3	100.0%	95.5%	
D12	3	534		0.009	0.010	3	92.0%		
D12	3	535		0.012	0.013	3	92.0%		
D12	3	536	0.023	0.024	0.023	3	100.0%	104.3%	
D12	3	537		0.007	0.008	3	92.0%		
D12	3	538		0.016	0.017	3	94.0%		
D12	3	539	0.061	0.052	0.061	3	100.0%	85.2%	
D12	3	540		0.008	0.009	3	92.0%		
D12	3	541		0.007	0.008	3	92.0%		
D12	3	542		0.003	0.003	3	92.0%		
D12	3	572	0.037	0.027	0.037	3	100.0%	73.0%	
D12	3	573		0.006	0.007	3	92.0%		
D12	3	574		0.009	0.010	3	92.0%		
D12	3	575		0.016	0.017	3	94.0%		
D12	3	576		0.010	0.011	3	92.0%		
D12	3	577	0.012	0.011	0.012	2	92.0%	—	
D12	3	578	0.013	0.012	0.013	3	100.0%	92.3%	
D12	3	579		0.017	0.018	3	94.0%		
D12	3	580	0.050	0.045	0.050	3	100.0%	90.0%	
D12	3	612		0.014	0.015	3	92.0%		
D12	3	613		0.009	0.010	3	92.0%		
D12	3	614		0.010	0.011	3	92.0%		
D12	3	615	0.018	0.014	0.018	3	100.0%	77.8%	
D12	3	616		0.013	0.014	3	92.0%		
D12	3	617	0.036	0.030	0.036	3	100.0%	83.3%	
D12	3	618		0.016	0.017	3	94.0%		
D12	3	619	0.027	0.027	0.027	3	100.0%	100.0%	
D12	3	653	0.024	0.023	0.024	3	100.0%	95.8%	
D12	3	654		0.013	0.014	3	92.0%		
D12	3	655	0.012	0.009	0.012	3	100.0%	75.0%	
D12	3	656		0.008	0.009	2	92.0%		
D12	3	657	0.021	0.023	0.021	3	100.0%	109.5%	
D12	3	658		0.012	0.013	3	92.0%		
D12	3	696		0.006	0.007	2	92.0%		
D12	3	697	0.024	0.024	0.024	3	100.0%	100.0%	
D12	3	803		0.013	0.014	3	92.0%		
D12	3	804		0.006	0.007	3	92.0%		
D12	3	805		0.006	0.007	3	92.0%		
D12	3	806	0.008	0.006	0.008	3	100.0%	75.0%	
D12	3	807		0.003	0.003	3	92.0%		
D12	3	808		0.019	0.020	3	94.0%		
D12	3	809	0.028	0.027	0.028	3	100.0%	96.4%	
D12	3	810		0.033	0.037	3	89.0%		
D12	3	811		0.040	0.045	3	89.0%		
D12	3	812		0.008	0.009	3	92.0%		
D12	3	813		0.003	0.003	3	92.0%		
D12	3	814		0.007	0.008	3	92.0%		
D12	3	815		0.008	0.009	3	92.0%		
D12	3	816	0.020	0.009	0.020	3	100.0%	45.0%	
D12	3	1001	~~0.013~~	0.013	0.013	3	100.0%	100.0%	No Fire
D12	3	1002		0.004	0.004	3	92.0%		
D12	3	1003		0.008	0.009	3	92.0%		

mean	0.027	0.014	0.015	94.5%	25.1%


D-12-3
PATTERN-13'x13'
TOES - 10' CTR.
45500.
26500.
3-7-91 - 46
3-8-91 - 34
3-9-91 - 28
3/11/91 - 22
3/12/91 - 24
3/29/91 - 8
3/13/91 57

[illegible]

BLAST HOLE ORE TYPE

PATTERN D-12-3 **DATE** 3-13-91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
8			X	211		X									
				212			X								
47			X	213			X								
48			X	214			X								
49			X	215			X								
50			X	216			X								
				217			X								
86			X	218			X								
87			X												
88			X	241			X								
89		X													
90		X		803			X								
91			X	804			X								
92			X	805			X								
				806			X								
125			X	807			X								
126			X	808			X								
127			X	809			X								
128			X	810			X								
129		X		811			X								
130			X	812			X								
131			X	813			X								
132			X	814			X								
133			X	815			X								
134		X		816			X								
164			X	1001			X								
165			X												
166		X													
167			X												
168			X												
169			X												
170		X													
171		X													
172			X												
173			X												
174			X												
175			X												
176			X												

SIERRA MINING CORPORATION

BLAST HOLE ORE TYPE

PATTERN D-12-3 DATE 3-13-91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
203		X													
204			X												
205		X													
206			X												
207			X												
208			X												
209			X												
210			X												

SIERRA MINING CORPORATION

BLAST HOLE ORE TYPE

PATTERN D-12-3 DATE 3/12/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
242			x												
243			x												
244			x												
246			x												
247			x												
248			x												
284			x												
285			x												
286		x													
287		x													
288			x												
289			x												
290			x												
291			x												
327		x													
328			x												
329			x												
330			x												
331			x												
370		x													
371			x												
411			x												
451			x												

ARCHER MINING CORPORATION

BLAST HOLE ORE TYPE

PATTERN D-12-2 DATE 3/11/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
249			X												
250			X												
251		X													
252			X												
253			X												
254		X													
255		X													
256			X												
257			X												
258			X												
259			X												
260			X												
455			X												
456			X												
496			X												
536			X												
576			X												
577		X													
616			X												
617			X												
618			X												
619			X												
656		X													
657			X												
658			X												
696		X													
697			X												
1003			X												

EXXON MINING CORPORATION

PATTERN D-12-3

BLAST HOLE ORE TYPE

DATE

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
292			X												
293			X												
294			X												
295			X												
296			X												
297			X												
298			X												
299			X												
300			X												
301			X												
302			X												
338			X												
339			X												
340			X												
341			X												
342			X												
343			X												
344			X												
497			X												
498			X												
499			X												
500			X												
501			X												
502			X												
537			X												
538			X												
539			X												
540			X												
541			X												
542			X												
578			X												
579			X												
580			X												
1002			X												

BROHM MINING CORPORATION

BLAST HOLE ORE TYPE

PATTERN D-12-3

DATE 3-7-91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
332			X	457			X								
333			X	458			X								
334			X	459			X								
335			X	460			X								
336			X	461			X								
337			X	462			X								
				463			X								
				464		X									
372			X												
373			X	503			X								
374			X	504			X								
375			X												
376			X												
377			X												
378			X												
379			X												
380			X												
381			X												
382			X												
383			X												
384			X												
385			X												
412			X												
413			X												
414			X												
415			X												
416			X												
417			X												
418			X												
419			X												
420			X												
421			X												
422			X												
423			X												
424			X												
425		X													
426		X													
427		X													