S-17-6

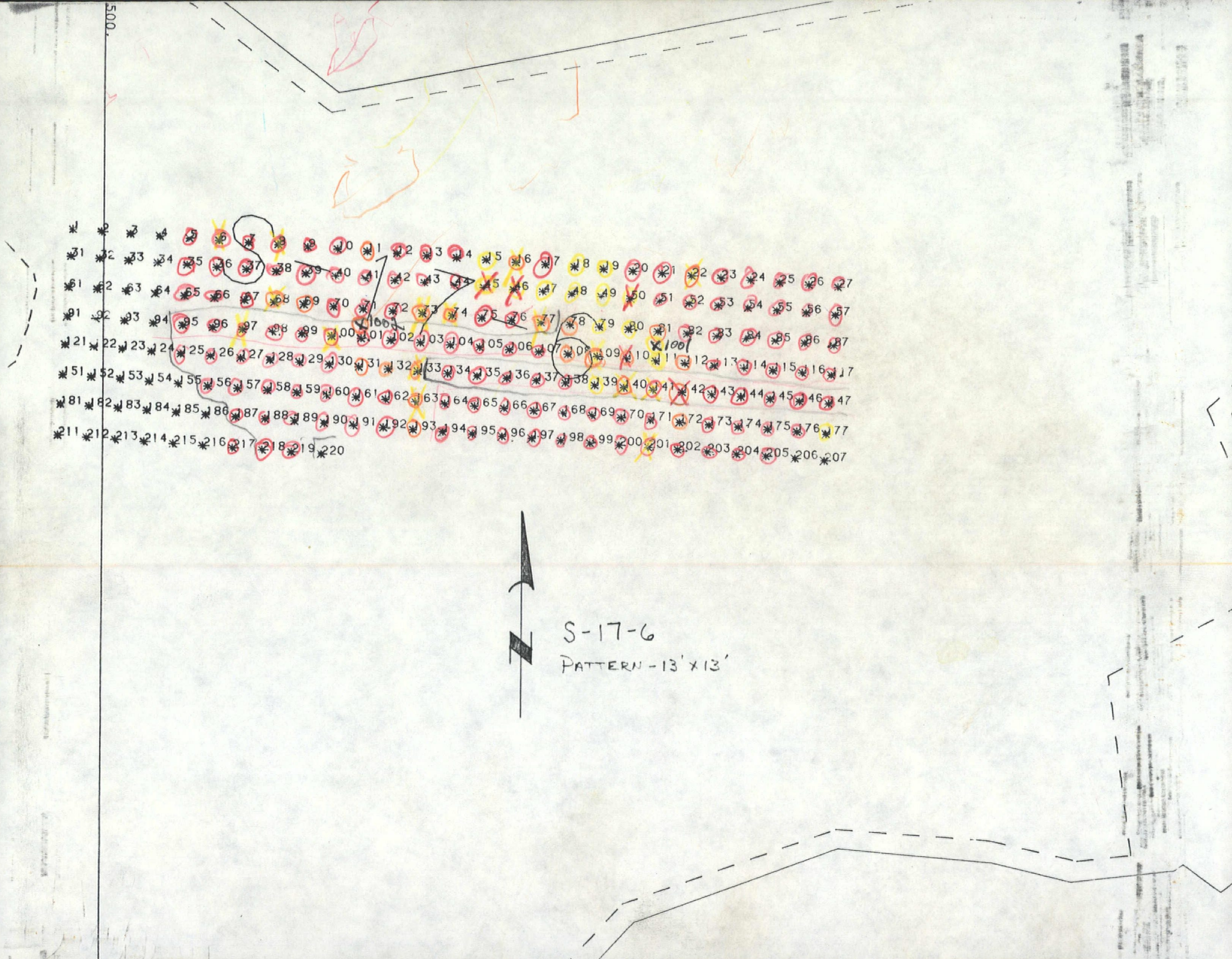
1932585 - R8 SEMS

CHECKED & EDITTED
3-9-91 BM

BENCH NO	SHOT NO	BLASTHOLE NO	ORE TYPE	FIRE AU	AA AU	AA/FIRE	AA/RAT
S17	6	5	3		0.009		0.010
S17	6	6	3		0.011		0.012
S17	6	7	3	0.007	0.004	57.14%	0.007
S17	6	8	3		0.014		0.015
S17	6	9	3		0.005		0.005
S17	6	10	3		0.012		0.013
S17	6	11	2	0.015	0.014	93.33%	0.015
S17	6	12	3		0.007		0.008
S17	6	13	3		0.006		0.007
S17	6	14	3	0.014	0.012	85.71%	0.014
S17	6	15	1		0.006		0.007
S17	6	16	2		0.006		0.007
S17	6	17	3		0.004		0.004
S17	6	18	1	0.005	0.003	60.00%	0.005
S17	6	19	1		0.003		0.003
S17	6	20	3		0.003		0.003
S17	6	21	3		0.006		0.007
S17	6	22	2		0.004		0.004
S17	6	23	3		0.005		0.005
S17	6	24	3	0.008	0.006	75.00%	0.008
S17	6	25	3		0.003		0.003
S17	6	26	3		0.006		0.007
S17	6	27	3		0.007		0.008
S17	6	35	3		0.011		0.012
S17	6	36	3		0.012		0.013
S17	6	37	3		0.003		0.003
S17	6	38	3		0.006		0.007
S17	6	39	3		0.010		0.011
S17	6	40	3	0.034	0.025	73.53%	0.034
S17	6	41	3	0.014	0.013	92.86%	0.014
S17	6	42	3		0.011		0.012
S17	6	43	3		0.010		0.011
S17	6	44	3		0.008		0.009
S17	6	45	1		0.007		0.008
S17	6	46	1		0.001		0.001
S17	6	47	1	0.008	0.002	25.00%	0.008
S17	6	48	1		0.002		0.002
S17	6	49	1		0.001		0.001
S17	6	50	1		0.002		0.002
S17	6	51	3		0.002		0.002
S17	6	52	3		0.004		0.004
S17	6	53	3		0.006		0.007
S17	6	54	3		0.003		0.003
S17	6	55	3		0.006		0.007
S17	6	56	3	0.023	0.019	82.61%	0.023
S17	6	57	3		0.006		0.007
S17	6	65	3		0.014		0.015
S17	6	66	3	0.030	0.028	93.33%	0.030
S17	6	67	3		0.010		0.011
S17	6	68	2		0.007		0.008
S17	6	69	2	0.013	0.006	46.15%	0.013
S17	6	70	3		0.003		0.003
S17	6	71	3		0.008		0.009
S17	6	72	3		0.008		0.009

S17	6	73	2		0.004		0.004
S17	6	74	2		0.003		0.003
S17	6	75	3		0.004		0.004
S17	6	76	3	0.008	0.005	62.50%	0.008
S17	6	77	2	0.013	0.010	76.92%	0.013
S17	6	78	2	0.007	0.002	28.57%	0.007
S17	6	79	1		0.002		0.002
S17	6	80	1		0.002		0.002
S17	6	81	2	0.005	0.004	80.00%	0.005
S17	6	82	3		0.004		0.004
S17	6	83	3		0.005		0.005
S17	6	84	3		0.006		0.007
S17	6	85	3		0.008		0.009
S17	6	86	3		0.003		0.003
S17	6	87	3	0.008	0.006	75.00%	0.008
S17	6	95	3		0.021		0.022
S17	6	96	3	0.014	0.020	142.86%	0.014
S17	6	97	3		0.013		0.014
S17	6	98	3		0.004		0.004
S17	6	99	3		0.008		0.009
S17	6	100	3		0.009		0.010
S17	6	101	3		0.008		0.009
S17	6	102	3		0.006		0.007
S17	6	103	3		0.004		0.004
S17	6	104	3	0.009	0.005	55.56%	0.009
S17	6	105	3		0.006		0.007
S17	6	106	3		0.007		0.008
S17	6	107	3		0.006		0.007
S17	6	108	2		0.004		0.004
S17	6	109	2	0.005	0.005	100.00%	0.005
S17	6	110	2		0.002		0.002
S17	6	111	1		0.003		0.003
S17	6	112	2		0.004		0.004
S17	6	113	3		0.009		0.010
S17	6	114	3	0.008	0.009	112.50%	0.008
S17	6	115	3		0.009		0.010
S17	6	116	3		0.013		0.014
S17	6	117	3		0.004		0.004
S17	6	125	3	0.018	0.014	77.78%	0.018
S17	6	126	3	0.020	0.019	95.00%	0.020
S17	6	127	3	0.019	0.018	94.74%	0.019
S17	6	128	3		0.004		0.004
S17	6	129	3		0.023		0.024
S17	6	130	3		0.009		0.010
S17	6	131	2		0.004		0.004
S17	6	132	2		0.005		0.005
S17	6	133	2	0.007	0.010	142.86%	0.007
S17	6	134	3		0.006		0.007
S17	6	135	3		0.004		0.004
S17	6	136	3	0.006	0.005	83.33%	0.006
S17	6	137	3		0.004		0.004
S17	6	138	3		0.007		0.008
S17	6	139	1		0.002		0.002
S17	6	140	2		0.004		0.004
S17	6	141	3		0.002		0.002
S17	6	142	2	0.017	0.009	52.94%	0.017

S17	6	143	3		0.005		0.005	
S17	6	144	3		0.005		0.005	
S17	6	145	3		0.002		0.002	
S17	6	146	3		0.024		0.026	
S17	6	147	3		0.006		0.007	
S17	6	156	3	0.017	0.017	100.00%	0.017	
S17	6	157	3	0.022	0.023	104.55%	0.022	
S17	6	158	3		0.008		0.009	
S17	6	159	3		0.007		0.008	
S17	6	160	3		0.008		0.009	
S17	6	161	3		0.007		0.008	
S17	6	162	3	0.012	0.010	83.33%	0.012	
S17	6	163	2	~~0.020~~	0.002	10.00%	0.020	No fire
S17	6	164	3		0.008		0.009	
S17	6	165	3		0.006		0.007	
S17	6	166	3		0.013		0.014	
S17	6	167	3	0.016	0.022	137.50%	0.016	
S17	6	168	3		0.022		0.023	
S17	6	169	3		0.006		0.007	
S17	6	170	3	0.010	0.008	80.00%	0.010	
S17	6	171	3		0.003		0.003	
S17	6	172	2		0.004		0.004	
S17	6	173	3		0.007		0.008	
S17	6	174	3		0.005		0.005	
S17	6	175	3		0.008		0.009	
S17	6	176	3		0.003		0.003	
S17	6	177	1	0.005	0.003	60.00%	0.005	
S17	6	187	3	.020	0.017		0.018	
S17	6	188	3		0.013		0.014	
S17	6	189	3		0.005		0.005	
S17	6	190	3	0.007	0.001	14.29%	0.007	
S17	6	191	3		0.003		0.003	
S17	6	192	3		0.003		0.003	
S17	6	193	2		0.003		0.003	
S17	6	194	3		0.004		0.004	
S17	6	195	3		0.005		0.005	
S17	6	196	3	0.011	0.009	81.82%	0.011	
S17	6	197	3		0.038		0.043	
S17	6	198	3		0.037		0.042	
S17	6	199	3	0.036	0.032	88.89%	0.036	
S17	6	200	3		0.005		0.005	
S17	6	201	3		0.003		0.003	
S17	6	202	3		0.003		0.003	
S17	6	203	3		0.006		0.007	
S17	6	204	3		0.006		0.007	
S17	6	205	3		0.004		0.004	
S17	6	217	3	0.017	0.014	82.35%	0.017	
S17	6	218	3		0.007		0.008	
S17	6	219	3	0.010	0.007	70.00%	0.010	
S17	6	1001	1		0.001		0.001	
S17	6	1002	2		0.003		0.003	
		MEAN		0.014	0.008	78.37%	0.009	


500'
S-17-6
PATTERN - 13' X 13'

Pit-Bench-Pattern #
5-17-6

Submittal Date
2-21-91 10:56 A.m. (cont-)

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

DATE: 2-22-91

NAME: VA KW

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	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	50		.002	25.	Standard ✓		.014
2.	51		.002	26.	77	.013	.010
3.	52		.004	27.	134		.006
4.	53		.006	28.	135		.004
5.	54		.003	29.	136	.006	.005
6.	55		.006	30.	137		.004
7.	56	.023	.019	31.	138		.007
8.	Standard ✓		.014	32.	139		.002
9.	57		.006	33.	[redacted]		
10.	65		.014	34.	[redacted]		
11.	66	.030	.028	35.	140		.004
12.	67		.010	36.	141		.002
13.	68		.007	37.	142	.017	.009
14.	69	.013	.006	38.	✓ prep		.030
15.	70		.003	39.	143		.005
16.	[redacted]			40.	144		.005
17.	[redacted]			41.	145		.002
18.	71		.008	42.	Standard ✓		.015
19.	72		.008	43.	146		.024
20.	73		.004	44.	147		.006
21.	74		.003	45.	217	.017	.014
22.	75		.004	46.	1001		.001
23.	76-1	.008	.004	47.	1002		.003
24.	76-2		.005	48.		std ✓	.014

Pit-Bench-Pattern #
S-17-6
Submittal Date
2/20/91 8:12 A Cont
* 1:43P

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 2/21/91
NAME: [illegible]

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	168		.022	25.	Standard ✓		.014
2.	169		.006	26.	205		.004
3.	170	.010	.008	27.*	125	.018	.014
4.	171		.003	28.	✓7		.029
5.	172		.004	29.	126	.020	.019
6.	173		.007	30.	127	.019	.018
7.	174		.005	31.	128		.004
8.	Standard ✓		.015	32.	129		.023
9.	175		.008	33.	[redacted]		
10.	176		.003	34.			
11.	177	.005	.003	35.	130		.009
12.	194		.004	36.	131		.004
13.	195		.005	37.	132		.005
14.	196	.011	.009	38.	133	.007	.010
15.	197		.038	39.	156	.017	.017
16.	[redacted]			40.	157	.022	.023
17.				41.	158		.008
18.	198		.037	42.	Standard ✓		.015
19.	199	.036	.032	43.	159		.007
20.	200		.005	44.	160		.008
21.	201		.003	45.	161		.007
22.	202		.003	46.	162-1	.012	.009
23.	203		.006	47.	162-2		.010
24.	204		.006	48.		Std ✓	.015

x LLD/VDY

Pit-Bench-Pattern #
S-17-6

Submittal Date
2/20/91 1:43p Cont

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 2/21/91

NAME: KW VO

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	163		.002	25.	Standard ✓		
2.	187	.020	.017	26.			
3.	188		.013	27.			
4.	189		.005	28.			
5.	190	.007	.001	29.			
6.	191		.003	30.			
7.	192		.003	31.			
8.	Standard ✓		.014	32.			
9.	193		.003	33.			
10.	218		.007	34.			
11.	219	.010	.007	35.			
12.	V7		.031	36.			
13.		Std ✓	.014	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/VO

Pit-Bench-Pattern #
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BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 2/21/91
NAME: KW VD

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.				25.	Standard ✓		.015
2.	78	.007	.002	26.	104	.009	.005
3.	79		.002	27.	105		.006
4.	80		.002	28.	106		.007
5.	81-1	.005	.003	29.	107		.006
6.	81-2		.004	30.	108		.004
7.	82		.004	31.	109	.005	.005
8.	Standard ✓		.015	32.	110		.002
9.	83		.005	33.			
10.	84		.006	34.			
11.	85		.008	35.	111		.003
12.	86		.003	36.	112		.004
13.	87	.008	.006	37.	113		.009
14.	95		.021	38.	114	.008	.009
15.	96	.014	.020	39.	115		.009
16.				40.	116		.013
17.				41.	117		.004
18.	97		.013	42.	Standard ✓		.016
19.	98		.004	43.	✓7		.032
20.	99		.008	44.	164		.008
21.	100		.009	45.	165		.006
22.	101		.008	46.	166		.013
23.	102		.006	47.	167	.016	.022
24.	103		.004	48.		Std ✓	.015

LED/

Pit-Bench-Pattern #
S-17-6

Submittal Date
2-21-91 10:56 Am.

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 2-22-91

NAME: VD, KW

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.	
1.	5		.009	25.	Standard ✓		.015	
2.	✓pulp		.030	26.	24	.008	.006	
3.	6		.011	27.	25		.003	
4.	7-1	.007	.004	28.	26		.006	
5.	7-2		.003	29.	27		.007	
6.	8		.014	30.	35		.011	
7.	9		.005	31.	36		.012	
8.	Standard ✓		.015	32.	37		.003	
9.	10		.012	33.				
10.	11	.015	.014	34.				
11.	12		.007	35.	38		.006	
12.	13		.006	36.	39		.010	
13.	14	.014	.012	37.	40	.034	.025	
14.	15		.006	38.	41	.014	.013	
15.	16		.006	39.	42		.011	
16.				40.	43		.010	
17.				41.	44		.008	floc
18.	17		.004	42.	Standard ✓		.014	
19.	18	.005	.003	43.	45		.007	floc
20.	19		.003	44.	46		.001	
21.	20		.003	45.	47	.008	.002	
22.	21		.006	46.	48		.002	
23.	22		.004	47.	49		.001	
24.	23		.005	48.				

LLD/yr

Pit-Bench-Pattern #
S-17-6

Submittal Date
2-21-91 10:56 Am.

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

DATE: 2-22-91

NAME: VD, KW

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.	
1.	5		.009	25.	Standard ✓		.015	
2.	✓pulp		.030	26.	24		.006	
3.	6		.011	27.	25		.003	
4.	7-1		.004	28.	26		.006	
5.	7-2		.003	29.	27		.007	
6.	8		.014	30.	35		.011	
7.	9		.005	31.	36		.012	
8.	Standard ✓		.015	32.	37		.003	
9.	10		.012	33.	[redacted]			
10.	11		.014	34.				
11.	12		.007	35.	38		.006	
12.	13		.006	36.	39		.010	
13.	14		.012	37.	40		.025	
14.	15		.006	38.	41		.013	
15.	16		.006	39.	42		.011	
16.	[redacted]			40.	43		.010	
17.				41.	44		.008	floc
18.	17		.004	42.	Standard ✓		.014	
19.	18		.003	43.	45		.007	floc
20.	19		.003	44.	46		.001	
21.	20		.003	45.	47		.002	
22.	21		.006	46.	48		.002	
23.	22		.004	47.	49		.001	
24.	23		.005	48.				

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Pit-Bench-Pattern #
S-17-6
Submittal Date
2/20/91 8:12A

2

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 2/21/91
NAME: KW VD

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.				25.	Standard ✓		.015
2.	78		.002	26.	104		.005
3.	79		.002	27.	105		.006
4.	80		.002	28.	106		.007
5.	81-1		.003	29.	107		.006
6.	81-2		.004	30.	108		.004
7.	82		.004	31.	109		.005
8.	Standard ✓		.015	32.	110		.002
9.	83		.005	33.	[redacted]		
10.	84		.006	34.			
11.	85		.008	35.	111		.003
12.	86		.003	36.	112		.004
13.	87		.006	37.	113		.009
14.	95		.021	38.	114		.009
15.	96		.020	39.	115		.009
16.	[redacted]			40.	116		.013
17.				41.	117		.004
18.	97		.013	42.	Standard ✓		.016
19.	98		.004	43.	V7		.032
20.	99		.008	44.	164		.008
21.	100		.009	45.	165		.006
22.	101		.008	46.	166		.013
23.	102		.006	47.	167		.022
24.	103		.004	48.		Std ✓	.015

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Pit-Bench-Pattern #
S-17-6

Submittal Date
2/20/91 8:12 A Cont
* 1:43 P

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

DATE: 2/21/91
NAME: [illegible]

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	168		.022	25.	Standard ✓		.014
2.	169		.006	26.	205		.004
3.	170		.008	27. *	125		.014
4.	171		.003	28.	✓7		.029
5.	172		.004	29.	126		.019
6.	173		.007	30.	127		.018
7.	174		.005	31.	128		.004
8.	Standard ✓		.015	32.	129		.023
9.	175		.008	33.	[redacted]		
10.	176		.003	34.			
11.	177		.003	35.	130		.009
12.	194		.004	36.	131		.004
13.	195		.005	37.	132		.005
14.	196		.009	38.	133		.010
15.	197		.038	39.	156		.017
16.	[redacted]			40.	157		.023
17.				41.	158		.008
18.	198		.037	42.	Standard ✓		.015
19.	199		.032	43.	159		.007
20.	200		.005	44.	160		.008
21.	201		.003	45.	161		.007
22.	202		.003	46.	162-1		.009
23.	203		.006	47.	162-2		.010
24.	204		.006	48.		Std ✓	.015

9

Pit-Bench-Pattern #
S-17-6

Submittal Date
2/20/91 1:43p Cont

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 2/21/91

NAME: KW VO

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	163		.002	25.	Standard ✓		
2.	187		.017	26.			
3.	188		.013	27.			
4.	189		.005	28.			
5.	190		.001	29.			
6.	191		.003	30.			
7.	192		.003	31.			
8.	Standard ✓		.014	32.			
9.	193		.003	33.			
10.	218		.007	34.			
11.	219		.007	35.			
12.	V7		.031	36.			
13.		std ✓	.014	37.			
14.				38.			
15.				39.			
16.				40.			
17.				41.			
18.				42.	Standard ✓		
19.				43.			
20.				44.			
21.				45.			
22.				46.			
23.				47.			
24.				48.			

Pit-Bench-Pattern #
S-17-6

Submittal Date
2-21-91 10:56 Am. (cont.)

BLAST HOLE

Hot NaCN Shake and FIRE DETERMINATIONS

3 2

DATE: 2-22-91

NAME: VD KW

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	50		.002	25.	Standard ✓		.014
2.	51		.002	26.	77		.010
3.	52		.004	27.	134		.006
4.	53		.006	28.	135		.004
5.	54		.003	29.	136		.005
6.	55		.006	30.	137		.004
7.	56		.019	31.	138		.007
8.	Standard ✓		.014	32.	139		.002
9.	57		.006	33.	[redacted]		
10.	65		.014	34.			
11.	66		.028	35.	140		.004
12.	67		.010	36.	141		.002
13.	68		.007	37.	142		.009
14.	69		.006	38.	✓ pulp		.030
15.	70		.003	39.	143		.005
16.	[redacted]			40.	144		.005
17.				41.	145		.002
18.	71		.008	42.	Standard ✓		.015
19.	72		.008	43.	146		.024
20.	73		.004	44.	147		.006
21.	74		.003	45.	217		.014
22.	75		.004	46.	1001		.001
23.	76-1		.004	47.	1002		.003
24.	76-2		.005	48.		std ✓	.014

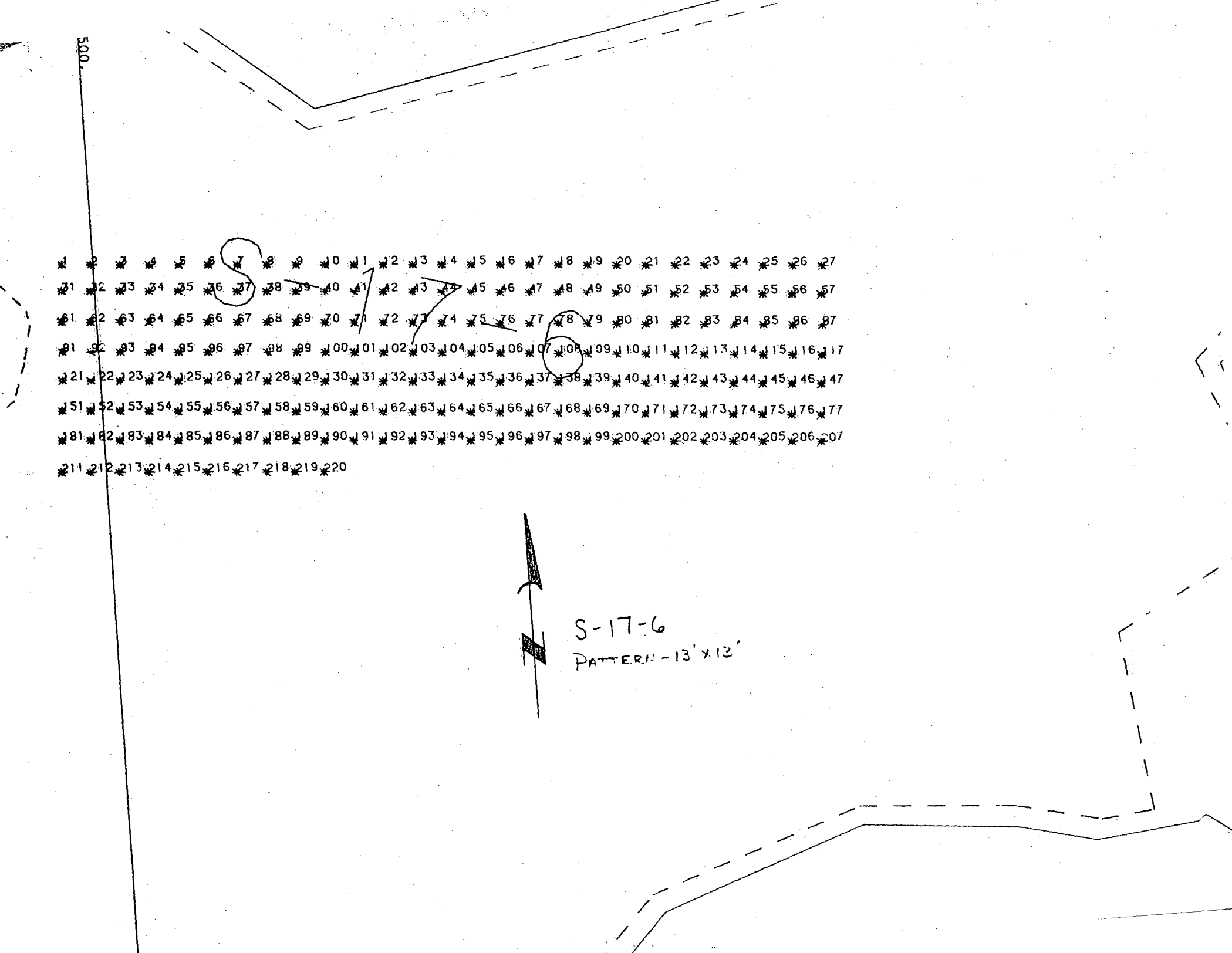
X

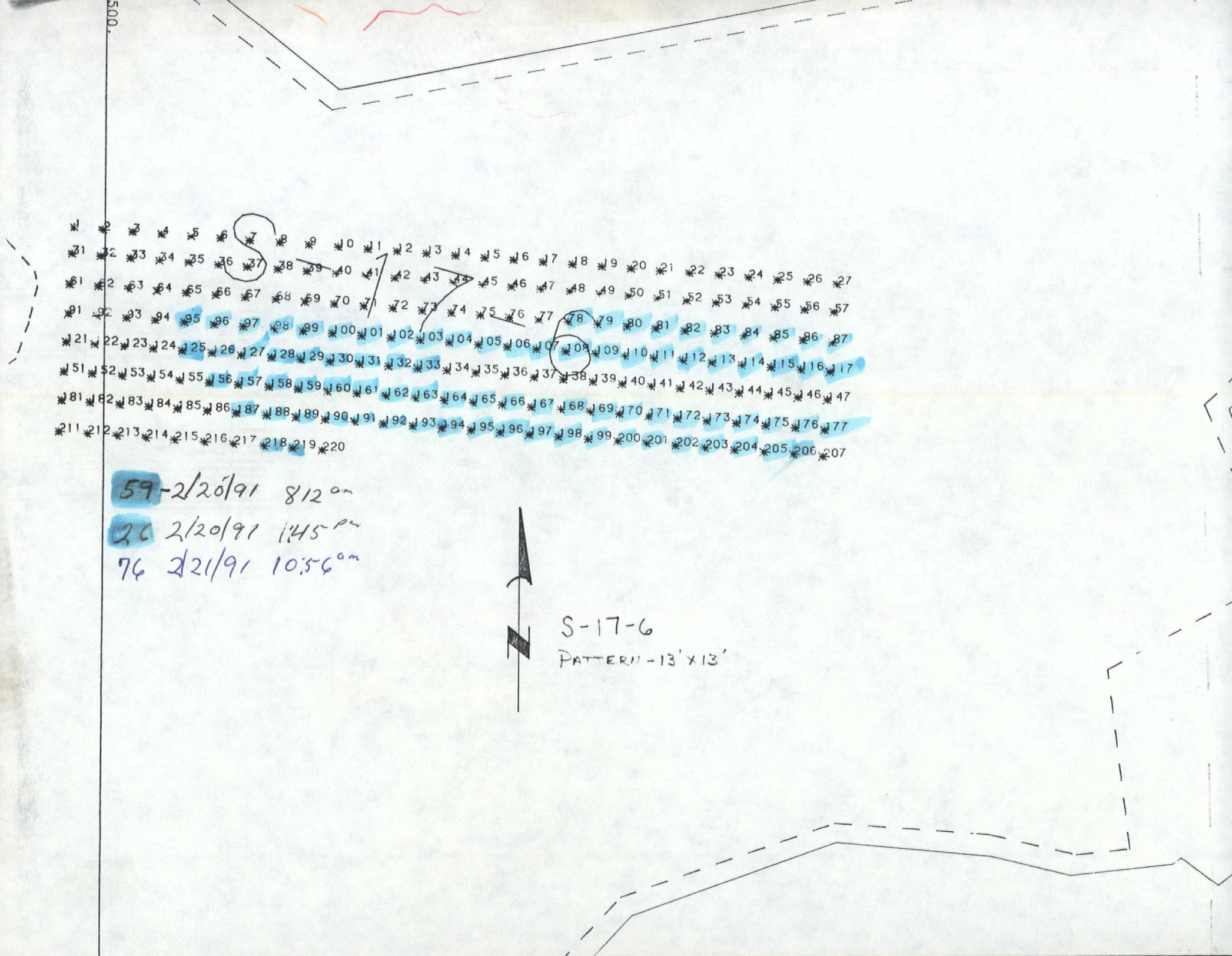
EXXON MINING CORPORATION

BLAST HOLE ORE TYPE

PATTERN S-17-6 DATE 2/20/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
78		X		169			X	163		X					
79	X			170			X								
80	X			171			X	187			X				
81		X		172		X		188			X				
82			X	173			X	189			X				
83			X	174			X	190			X				
84			X	175			X	191			X				
85			X	176			X	192			X				
86			X	177	X			193		X					
87			X												
				194			X	218			X				
95			X	195			X	219			X				
96			X	196			X								
97			X	197			X								
98			X	198			X								
99			X	199			X								
100			X	200			X								
101			X	201			X								
102			X	202			X								
103			X	203			X								
104			X	205			X								
105			X	206			X								
106			X												
107			X	125			X								
108		X		126			X								
109		X		127			X								
110		X		128			X								
111	X			129			X								
112		X		130			X								
113			X	131		X									
114			X	132		X									
115			X	133		X									
116			X												
117			X	156			X								
				157			X								
164			X	158			X								
165			X	159			X								
166			X	160			X								
167			X	161			X								
168			X	162			X								


500
S-17-6
PATTERN - 13' x 13'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S-17-6
59-2/20/91 8:12 am
26 2/20/91 1:45 pm
76 2/21/91 10:56 am
S-17-6
PATTERN-13'x13'

BROWN MINING CORPORATION

BLAST HOLE ORE TYPE

PATTERN S-17-6 DATE 2/21/91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
5			X	51			X	1002		X					
6			X	52			X								
7			X	53			X								
8			X	54			X								
9			X	55			X								
10			X	56			X								
11		X		57			X								
12			X												
13			X	65			X								
14			X	66			X								
15	X			67			X								
16		X		68		X									
17			X	69		X									
18	X			70			X								
19	X			71			X								
20			X	72			X								
21			X	73		X									
22		X		74		X									
23			X	75			X								
24			X	76			X								
25			X	77		X									
26			X												
27			X	134			X								
				135			X								
35			X	136			X								
36			X	137			X								
37			X	138			X								
38			X	139	X										
39			X	140		X									
40			X	141			X								
41			X	142		X									
42				143			X								
43				144			X								
44				145			X								
45	X			146			X								
46	X			147			X								
47	X														
48	X			217			X								
49	X														
50	X			1001	X										