5-17-13

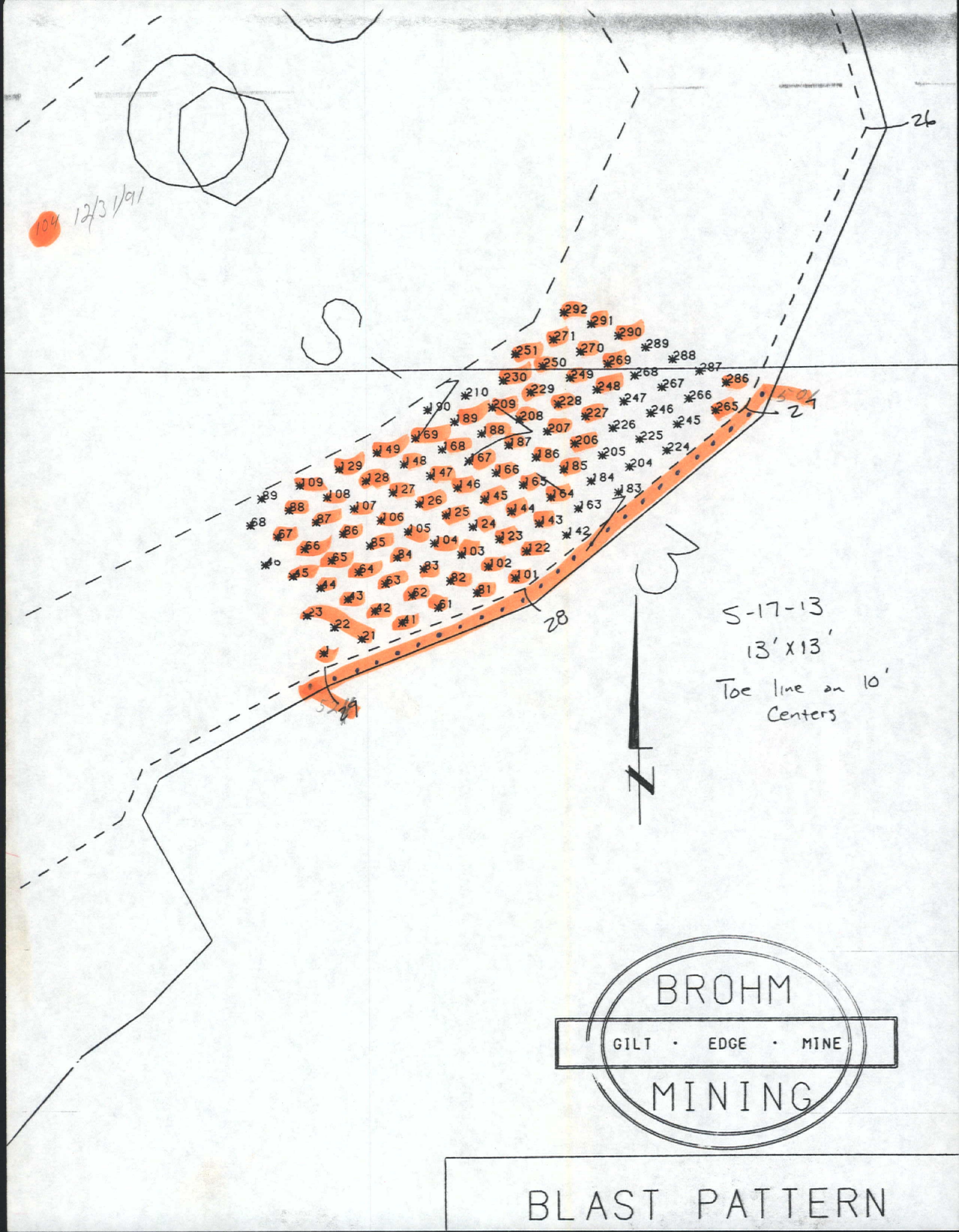
1932592 - R8 SEMS

S-17-13 1-07-92 JR

bench no	shot no	bh no	fire au	aa au	fire equiv (aa/ratio)	ore type	ratio	actual ratio (aa/fire)
		0						
0	11713	0			0.000		95.0%	
S17	13	1		3.000	4.286	1	70.0%	
S17	13	21		2.000	2.857	1	70.0%	
S17	13	22		7.000	10.000	1	70.0%	
S17	13	23		5.000	7.143	1	70.0%	
S17	13	41		5.000	5.952	2	84.0%	
S17	13	42		7.000	8.333	2	84.0%	
S17	13	43		2.000	2.857	1	70.0%	
S17	13	44		4.000	5.714	1	70.0%	
S17	13	45	14.000	12.000	14.000	1	100.0%	85.7%
S17	13	61		2.000	2.857	1	70.0%	
S17	13	62		1.000	1.429	1	70.0%	
S17	13	63		2.000	2.381	2	84.0%	
S17	13	64		8.000	9.524	2	84.0%	
S17	13	65		3.000	4.286	1	70.0%	
S17	13	66		21.000	22.105	3	95.0%	
S17	13	67	13.000	11.000	13.000	3	100.0%	84.6%
S17	13	81		6.000	8.571	1	70.0%	
S17	13	82		2.000	2.857	1	70.0%	
S17	13	83		2.000	2.857	1	70.0%	
S17	13	84		3.000	4.286	1	70.0%	
S17	13	85		3.000	4.286	1	70.0%	
S17	13	86		8.000	11.429	1	70.0%	
S17	13	87		7.000	8.333	2	84.0%	
S17	13	88	20.000	18.000	20.000	3	100.0%	90.0%
S17	13	101		2.000	2.857	1	70.0%	
S17	13	102		22.000	26.190	2	84.0%	
S17	13	103		7.000	8.333	2	84.0%	
S17	13	104		8.000	9.524	2	84.0%	
S17	13	105	17.000	14.000	17.000	2	100.0%	82.4%
S17	13	106		5.000	5.952	2	84.0%	
S17	13	107	16.000	13.000	16.000	2	100.0%	81.3%
S17	13	108	6.000	4.000	6.000	2	100.0%	66.7%
S17	13	109	17.000	14.000	17.000	2	100.0%	82.4%
S17	13	122	15.000	12.000	15.000	1	100.0%	80.0%
S17	13	123	2.000	3.000	2.000	2	100.0%	150.0%
S17	13	124		25.000	26.316	3	95.0%	
S17	13	125	8.000	8.000	8.000	2	100.0%	100.0%
S17	13	126	14.000	14.000	14.000	2	100.0%	100.0%
S17	13	127	20.000	18.000	20.000	2	100.0%	90.0%
S17	13	128	11.000	8.000	11.000	2	100.0%	72.7%
S17	13	129	13.000	11.000	13.000	2	100.0%	84.6%
S17	13	142		7.000	10.000	1	70.0%	
S17	13	143		2.000	2.857	1	70.0%	
S17	13	144	11.000	10.000	11.000	3	100.0%	90.9%
S17	13	145	3.000	4.000	3.000	2	100.0%	133.3%
S17	13	146		41.000	43.158	3	95.0%	
S17	13	147	20.000	7.000	20.000	3	100.0%	35.0%
S17	13	148	9.000	11.000	9.000	2	100.0%	122.2%
S17	13	149	13.000	12.000	13.000	2	100.0%	92.3%
S17	13	163		4.000	5.714	1	70.0%	
S17	13	164	13.000	10.000	13.000	2	100.0%	76.9%
S17	13	165		3.000	3.571	2	84.0%	

S17	13	166		26.000	27.368	3	95.0%	
S17	13	167		8.000	8.421	3	95.0%	
S17	13	168		5.000	5.263	3	95.0%	
S17	13	169	11.000	13.000	11.000	3	100.0%	118.2%
S17	13	183		1.000	1.429	1	70.0%	
S17	13	184		5.000	7.143	1	70.0%	
S17	13	185		5.000	5.952	2	84.0%	
S17	13	186		9.000	10.714	2	84.0%	
S17	13	187		8.000	9.524	2	84.0%	
S17	13	188	14.000	10.000	14.000	3	100.0%	71.4%
S17	13	189	13.000	13.000	13.000	3	100.0%	100.0%
S17	13	204		5.000	5.952	2	84.0%	
S17	13	205		4.000	4.762	2	84.0%	
S17	13	206		8.000	9.524	2	84.0%	
S17	13	207	16.000	15.000	16.000	2	100.0%	93.8%
S17	13	208	21.000	15.000	21.000	3	100.0%	71.4%
S17	13	209	19.000	16.000	19.000	3	100.0%	84.2%
S17	13	224		8.000	11.429	1	70.0%	
S17	13	225		12.000	14.286	2	84.0%	
S17	13	226		9.000	10.714	2	84.0%	
S17	13	227	23.000	15.000	23.000	2	100.0%	65.2%
S17	13	228		2.000	2.381	2	84.0%	
S17	13	229		9.000	10.714	2	84.0%	
S17	13	230		5.000	5.263	3	95.0%	
S17	13	245		2.000	2.381	2	84.0%	
S17	13	246		2.000	2.381	2	84.0%	
S17	13	247		9.000	10.714	2	84.0%	
S17	13	248		2.000	2.381	2	84.0%	
S17	13	249		4.000	4.762	2	84.0%	
S17	13	250		2.000	2.381	2	84.0%	
S17	13	251		7.000	7.368	3	95.0%	
S17	13	265		1.000	1.429	1	70.0%	
S17	13	266		7.000	10.000	1	70.0%	
S17	13	267		1.000	1.190	2	84.0%	
S17	13	268		6.000	7.143	2	84.0%	
S17	13	269		7.000	8.333	2	84.0%	
S17	13	270		8.000	8.421	3	95.0%	
S17	13	271	19.000	17.000	19.000	3	100.0%	89.5%
S17	13	286		9.000	10.714	2	84.0%	
S17	13	287		3.000	3.571	2	84.0%	
S17	13	288		3.000	3.158	3	95.0%	
S17	13	289		4.000	4.211	3	95.0%	
S17	13	290		4.000	4.762	2	84.0%	
S17	13	291		4.000	4.211	3	95.0%	
S17	13	292		5.000	5.263	3	95.0%	
S17	13	501		4.000	5.714	1	70.0%	
S17	13	502		6.000	8.571	1	70.0%	
S17	13	503		2.000	2.381	2	84.0%	
S17	13	504		1.000	1.429	1	70.0%	
S17	13	505		2.000	2.857	1	70.0%	
S17	13	506	36.000	18.000	36.000	1	100.0%	50.0%
S17	13	507		8.000	9.524	2	84.0%	
S17	13	508		4.000	4.762	2	84.0%	
S17	13	509		0.000	0.000	1	70.0%	
S17	13	510		3.000	4.286	1	70.0%	
S17	13	511		6.000	8.571	1	70.0%	

S17	13	512		4.000	5.714	1	70.0%	
S17	13	513		4.000	4.762	2	84.0%	
S17	13	514		4.000	4.762	2	84.0%	
S17	13	515		9.000	10.714	2	84.0%	
S17	13	516		1.000	1.190	2	84.0%	
S17	13	517		5.000	7.143	1	70.0%	
S17	13	518	15.000	12.000	15.000	1	100.0%	80.0%
S17	13	519		2.000	2.857	1	70.0%	
S17	13	520		2.000	2.381	2	84.0%	
S17	13	521	20.000	13.000	20.000	2	100.0%	65.0%
S17	13	522		4.000	5.714	1	70.0%	
S17	13	523		9.000	12.857	1	70.0%	
S17	13	524	24.000	15.000	24.000	1	100.0%	62.5%
S17	13	1001		4.000	4.762	2	84.0%	
	mean		15.1875	7.5246	9.2572		85.2%	22.6%


104 12/31/91
26
24
28
29
5-17-13
13' X 13'
Toe line on 10' Centers
N
BROHM
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BLAST PATTERN

PATTERN S/17/13 FIRE REQUEST SHEET DATE Jan/3/91

NO.	SULF	MIX	GRADE	NO.	SULF	MIX	GRADE	NO.	SULF	MIX	GRADE
45	X		.014	209		oxy	.019	18			
67		oxy	.013	227		X	.023	19			
88		oxy	.020	271		oxy	.019	20			
105		X	.017	506	X		.036	21			
107		X	.016	518	X		.015	22			
108		X	.006	521		X	.020	23			
109		X	.017	524	X		.024	24			
122	X		.015					25			
123		X	.002	1				26			
125		X	.008	2				27			
126		X	.014	3				28			
127		X	.020	4				29			
128		X	.011	5				30			
129		X	.013	6				31			
144		oxy	.011	7				32			
145		X	.003	8				33			
147		oxy	.020	9				34			
148		X	.009	10				35			
149		X	.013	11				36			
164		X	.013	12				37			
169		oxy	.011	13				38			
188		oxy	.014	14				39			
189		oxy	.013	15				40			
207		X	.016	16				41			
208		oxy	.021	17				42			

S-17-13 JAN. 03, 1991 JR

bench no	shot no	bh no	fire au	aa au	fire equiv (aa/ratio)	ore type	ratio	actual ratio (aa/fire)
		0						
0	11713	0			0.000		95.0%	
S17	13	1		3.000	4.286	1	70.0%	
S17	13	21		2.000	2.857	1	70.0%	
S17	13	22		7.000	10.000	1	70.0%	
S17	13	23		5.000	7.143	1	70.0%	
S17	13	41		5.000	5.952	2	84.0%	
S17	13	42		7.000	8.333	2	84.0%	
S17	13	43		2.000	2.857	1	70.0%	
S17	13	44		4.000	5.714	1	70.0%	
S17	13	45		12.000	17.143	1	70.0%	
S17	13	61		2.000	2.857	1	70.0%	
S17	13	62		1.000	1.429	1	70.0%	
S17	13	63		2.000	2.381	2	84.0%	
S17	13	64		8.000	9.524	2	84.0%	
S17	13	65		3.000	4.286	1	70.0%	
S17	13	66		21.000	22.105	3	95.0%	
S17	13	67		11.000	11.579	3	95.0%	
S17	13	81		6.000	8.571	1	70.0%	
S17	13	82		2.000	2.857	1	70.0%	
S17	13	83		2.000	2.857	1	70.0%	
S17	13	84		3.000	4.286	1	70.0%	
S17	13	85		3.000	4.286	1	70.0%	
S17	13	86		8.000	11.429	1	70.0%	
S17	13	87		7.000	8.333	2	84.0%	
S17	13	88		18.000	18.947	3	95.0%	
S17	13	101		2.000	2.857	1	70.0%	
S17	13	102		22.000	26.190	2	84.0%	
S17	13	103		7.000	8.333	2	84.0%	
S17	13	104		8.000	9.524	2	84.0%	
S17	13	105		14.000	16.667	2	84.0%	
S17	13	106		5.000	5.952	2	84.0%	
S17	13	107		13.000	15.476	2	84.0%	
S17	13	108		4.000	4.762	2	84.0%	
S17	13	109		14.000	16.667	2	84.0%	
S17	13	122		12.000	17.143	1	70.0%	
S17	13	123		3.000	3.571	2	84.0%	
S17	13	124		25.000	26.316	3	95.0%	
S17	13	125		8.000	9.524	2	84.0%	
S17	13	126		14.000	16.667	2	84.0%	
S17	13	127		18.000	21.429	2	84.0%	
S17	13	128		8.000	9.524	2	84.0%	
S17	13	129		11.000	13.095	2	84.0%	
S17	13	142		7.000	10.000	1	70.0%	
S17	13	143		2.000	2.857	1	70.0%	
S17	13	144		10.000	10.526	3	95.0%	
S17	13	145		4.000	4.762	2	84.0%	
S17	13	146		41.000	43.158	3	95.0%	
S17	13	147		7.000	7.368	3	95.0%	
S17	13	148		11.000	13.095	2	84.0%	
S17	13	149		12.000	14.286	2	84.0%	
S17	13	163		4.000	5.714	1	70.0%	
S17	13	164		10.000	11.905	2	84.0%	
S17	13	165		3.000	3.571	2	84.0%	

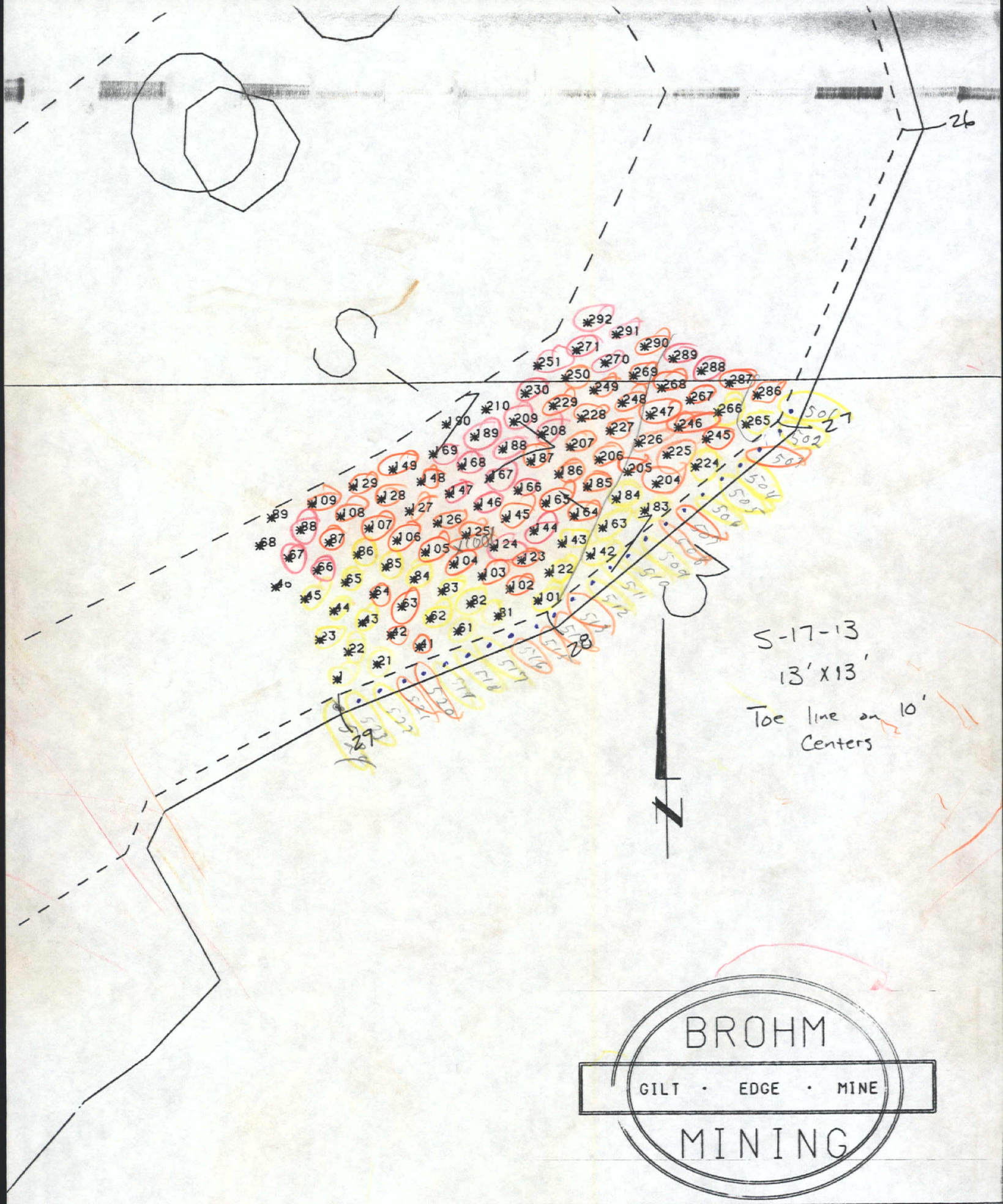
S17	13	166	26.000	27.368	3	95.0%	
S17	13	167	8.000	8.421	3	95.0%	
S17	13	168	5.000	5.263	3	95.0%	
S17	13	169	13.000	13.684	3	95.0%	
S17	13	183	1.000	1.429	1	70.0%	
S17	13	184	5.000	7.143	1	70.0%	
S17	13	185	5.000	5.952	2	84.0%	
S17	13	186	9.000	10.714	2	84.0%	
S17	13	187	8.000	9.524	2	84.0%	
S17	13	188	10.000	10.526	3	95.0%	
S17	13	189	13.000	13.684	3	95.0%	
S17	13	204	5.000	5.952	2	84.0%	
S17	13	205	4.000	4.762	2	84.0%	
S17	13	206	8.000	9.524	2	84.0%	
S17	13	207	15.000	17.857	2	84.0%	
S17	13	208	15.000	15.789	3	95.0%	
S17	13	209	16.000	16.842	3	95.0%	
S17	13	224	8.000	11.429	1	70.0%	
S17	13	225	12.000	14.286	2	84.0%	
S17	13	226	9.000	10.714	2	84.0%	
S17	13	227	15.000	17.857	2	84.0%	
S17	13	228	2.000	2.381	2	84.0%	
S17	13	229	9.000	10.714	2	84.0%	
S17	13	230	5.000	5.263	3	95.0%	
S17	13	245	2.000	2.381	2	84.0%	
S17	13	246	2.000	2.381	2	84.0%	
S17	13	247	9.000	10.714	2	84.0%	
S17	13	248	2.000	2.381	2	84.0%	
S17	13	249	4.000	4.762	2	84.0%	
S17	13	250	2.000	2.381	2	84.0%	
S17	13	251	7.000	7.368	3	95.0%	
S17	13	265	1.000	1.429	1	70.0%	
S17	13	266	7.000	10.000	1	70.0%	
S17	13	267	1.000	1.190	2	84.0%	
S17	13	268	6.000	7.143	2	84.0%	
S17	13	269	7.000	8.333	2	84.0%	
S17	13	270	8.000	8.421	3	95.0%	
S17	13	271	17.000	17.895	3	95.0%	
S17	13	286	9.000	10.714	2	84.0%	
S17	13	287	3.000	3.571	2	84.0%	
S17	13	288	3.000	3.158	3	95.0%	
S17	13	289	4.000	4.211	3	95.0%	
S17	13	290	4.000	4.762	2	84.0%	
S17	13	291	4.000	4.211	3	95.0%	
S17	13	292	5.000	5.263	3	95.0%	
S17	13	501	4.000	5.714	1	70.0%	
S17	13	502	6.000	8.571	1	70.0%	
S17	13	503	2.000	2.381	2	84.0%	
S17	13	504	1.000	1.429	1	70.0%	
S17	13	505	2.000	2.857	1	70.0%	
S17	13	506	19.000	27.143	1	70.0%	18.000 AVERAGE
S17	13	507	8.000	9.524	2	84.0%	
S17	13	508	4.000	4.762	2	84.0%	
S17	13	509	0.000	0.000	1	70.0%	
S17	13	510	3.000	4.286	1	70.0%	
S17	13	511	6.000	8.571	1	70.0%	

S17	13	512		4.000	5.714	1	70.0%	
S17	13	513		4.000	4.762	2	84.0%	
S17	13	514		4.000	4.762	2	84.0%	
S17	13	515		9.000	10.714	2	84.0%	
S17	13	516		1.000	1.190	2	84.0%	
S17	13	517		5.000	7.143	1	70.0%	
S17	13	518		12.000	17.143	1	70.0%	
S17	13	519		2.000	2.857	1	70.0%	
S17	13	520		2.000	2.381	2	84.0%	
S17	13	521		13.000	15.476	2	84.0%	
S17	13	522		4.000	5.714	1	70.0%	
S17	13	523		9.000	12.857	1	70.0%	
S17	13	524		15.000	21.429	1	70.0%	
S17	13	1001		4.000	4.762	2	84.0%	
	mean		ERR	7.5328	9.0397		81.4%	0.0%

FIRE REQUEST SHEET

PATTERN S/17/13 DATE Jan/3/92

NO.	SULF	MIX	GRADE	NO.	SULF	MIX	GRADE	NO.	SULF	MIX	GRADE
45	X			209		oxy		18			
67		oxy		227		X		19			
88		oxy		271		oxy		20			
105		X		506	X			21			
107		X		518	X			22			
108		X		521		X		23			
109		X		524	X			24			
122	X							25			
123		X		1				26			
125		X		2				27			
126		X		3				28			
127		X		4				29			
128		X		5				30			
129		X		6				31			
144		oxy		7				32			
145		X		8				33			
147		oxy		9				34			
148		X		10				35			
149		X		11				36			
164		X		12				37			
169		oxy		13				38			
188		oxy		14				39			
189		oxy		15				40			
207		X		16				41			
208		oxy		17				42			



BROHM
GILT · EDGE · MINE
MINING

BLAST PATTERN