PATTERN S-18-4 BLAST HOLE ORE TYPE DATE 6-6-91

NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE	NO.	SULF.	MIX	OXIDE
390			X												
391		X													
392		X													
393			X												
394			X												

5-18-5

601
631
501
510
24
31
S-18-5
PATTERN - 13' x 13'
TOE'S - 10' CTR.
95 6-8-91
59 6-10-91
46 6-11-91 10:00AM
28 1:35pm
17 6-12-91 9:00 AM
35 1:30 pm
9 3:00 pm

CHECKED OK 6/18/91 BM

0 no	shot no	bh no	fire au	aa au	fire equiv (aa/ratio)	ore type	ratio	actual ratio (aa/fire)
		0						
0	1185	0			0.000		95.0%	
S18	5	1	12.000	15.000	12.000	2	100.0%	125.0%
S18	5	21		11.000	11.579	3	95.0%	
S18	5	22		12.000	14.286	2	84.0%	
S18	5	23		13.000	18.571	1	70.0%	
S18	5	41		9.000	9.474	3	95.0%	
S18	5	42		8.000	8.421	3	95.0%	
S18	5	43		2.000	2.381	2	84.0%	
S18	5	44	28.000	29.000	28.000	2	100.0%	103.6%
S18	5	45		13.000	18.571	1	70.0%	
S18	5	61		8.000	8.421	3	95.0%	
S18	5	62		9.000	9.474	3	95.0%	
S18	5	63		9.000	10.714	2	84.0%	
S18	5	64		5.000	7.143	1	70.0%	
S18	5	65		14.000	16.667	2	84.0%	
S18	5	66		12.000	14.286	2	84.0%	
S18	5	67	33.000	32.000	33.000	2	100.0%	97.0%
S18	5	81		4.000	4.762	2	84.0%	
S18	5	82		16.000	16.842	3	95.0%	
S18	5	83		13.000	15.476	2	84.0%	
S18	5	84		7.000	8.333	2	84.0%	
S18	5	85		9.000	10.714	2	84.0%	
S18	5	86		14.000	14.737	3	95.0%	
S18	5	87		14.000	14.737	3	95.0%	
S18	5	88	36.000	30.000	36.000	2	100.0%	83.3%
S18	5	89		7.000	10.000	1	70.0%	
S18	5	101		9.000	9.474	3	95.0%	
S18	5	102		7.000	8.333	2	84.0%	
S18	5	103	10.000	10.000	10.000	3	100.0%	100.0%
S18	5	104		6.000	6.316	3	95.0%	
S18	5	105		6.000	6.316	3	95.0%	
S18	5	106		7.000	7.368	3	95.0%	
S18	5	107		3.000	3.571	2	84.0%	
S18	5	108		2.000	2.857	1	70.0%	
S18	5	109	6.000	2.000	6.000	1	100.0%	33.3%
S18	5	110		4.000	5.714	1	70.0%	
S18	5	111	26.000	31.000	26.000	1	100.0%	119.2%
S18	5	123	32.000	16.000	32.000	1	100.0%	50.0%
S18	5	124		14.000	14.737	3	95.0%	
S18	5	125		11.000	11.579	3	95.0%	
S18	5	126		3.000	4.286	1	70.0%	
S18	5	127		5.000	5.263	3	95.0%	
S18	5	128		4.000	5.714	1	70.0%	
S18	5	129		5.000	7.143	1	70.0%	
S18	5	130		2.000	2.857	1	70.0%	
S18	5	131		5.000	7.143	1	70.0%	
S18	5	132	13.000	10.000	13.000	2	100.0%	76.9%
S18	5	133	139.000	111.000	139.000	2	100.0%	79.9%
S18	5	144	10.000	6.000	10.000	1	100.0%	60.0%
S18	5	145		5.000	5.263	3	95.0%	
S18	5	146		13.000	13.684	3	95.0%	
S18	5	147		3.000	4.286	1	70.0%	
S18	5	148		4.000	4.762	2	84.0%	

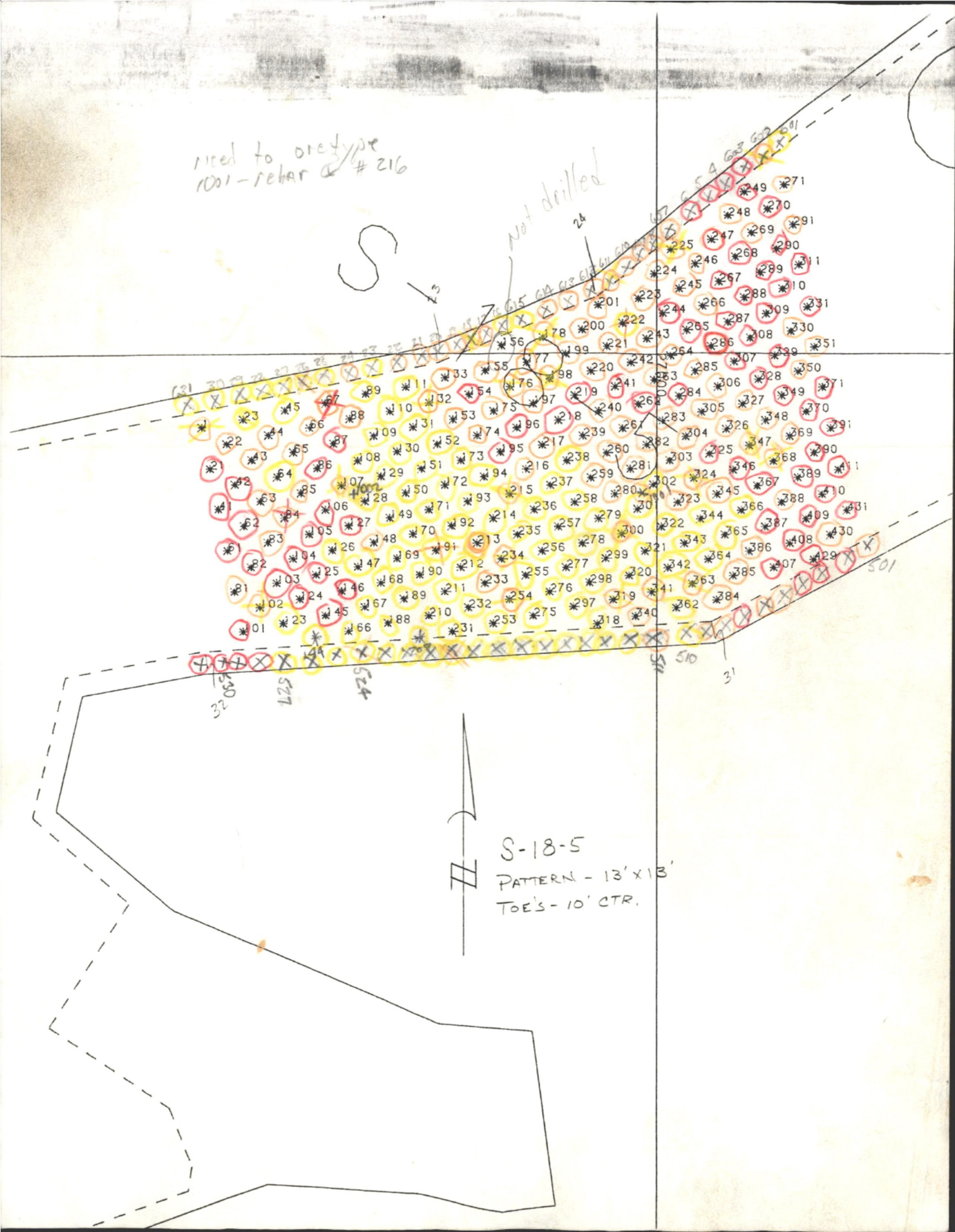
S18	5	149		4.000	5.714	1	70.0%		
S18	5	150		5.000	7.143	1	70.0%		
S18	5	151		5.000	7.143	1	70.0%		
S18	5	152		11.000	15.714	1	70.0%		
S18	5	153	50.000	42.000	50.000	2	100.0%	84.0%	
S18	5	154		39.000	41.053	3	95.0%		
S18	5	155	26.000	31.000	26.000	2	100.0%	119.2%	
S18	5	166		3.000	4.286	1	70.0%		
S18	5	167		6.000	8.571	1	70.0%		
S18	5	168		5.000	7.143	1	70.0%		
S18	5	169		4.000	5.714	1	70.0%		
S18	5	170		3.000	4.286	1	70.0%		
S18	5	171		1.000	1.429	1	70.0%		
S18	5	172		7.000	10.000	1	70.0%		
S18	5	173		5.000	7.143	1	70.0%		
S18	5	174	69.000	71.000	69.000	2	100.0%	102.9%	
S18	5	175	41.000	43.000	41.000	2	100.0%	104.9%	
S18	5	176	48.000	48.000	48.000	2	100.0%	100.0%	
S18	5	177	43.000	44.000	43.000	2	100.0%	102.3%	
S18	5	178		8.000	9.524	2	84.0%		
S18	5	188		7.000	10.000	1	70.0%		
S18	5	189		5.000	7.143	1	70.0%		
S18	5	190		8.000	11.429	1	70.0%		
S18	5	191	7.000	4.000	7.000	1	100.0%	57.1%	
S18	5	192		0.000	0.000	1	70.0%		
S18	5	193		6.000	8.571	1	70.0%		
S18	5	194	88.000	45.000	88.000	1	100.0%	51.1%	
S18	5	195		40.000	42.105	3	95.0%		
S18	5	196		32.000	33.684	3	95.0%		
S18	5	197	66.000	41.000	66.000	2	100.0%	62.1%	
S18	5	198	125.000	125.000	125.000	2	100.0%	100.0%	
S18	5	199		4.000	4.762	2	84.0%		
S18	5	200	75.000	15.000	75.000	2	100.0%	20.0%	
S18	5	201		9.000	10.714	2	84.0%		
S18	5	209		5.000	7.143	1	70.0%		
S18	5	210		6.000	8.571	1	70.0%		
S18	5	211		6.000	8.571	1	70.0%		
S18	5	212		3.000	4.286	1	70.0%		
S18	5	213		3.000	3.571	2	84.0%		
S18	5	214		6.000	8.571	1	70.0%		
S18	5	215	14.000	15.000	14.000	2	100.0%	107.1%	
S18	5	216	21.000	23.000	21.000	2	100.0%	109.5%	
S18	5	217	61.000	46.000	61.000	2	100.0%	75.4%	
S18	5	218		41.000	43.158	3	95.0%		
S18	5	219		34.000	35.789	3	95.0%		
S18	5	220	24.000	20.000	24.000	2	100.0%	83.3%	
S18	5	221	18.000	18.000	18.000	2	100.0%	100.0%	
S18	5	222		12.000	17.143	1	70.0%		
S18	5	223	56.000	61.000	56.000	2	100.0%	108.9%	
S18	5	224	76.000	65.000	76.000	2	100.0%	85.5%	
S18	5	225	49.000	26.000	49.000	2	100.0%	53.1%	
S18	5	231	5.000	3.000	5.000	1	100.0%	60.0%	
S18	5	232		3.000	4.286	1	70.0%		
S18	5	233		6.000	7.143	2	84.0%		
S18	5	234		5.000	5.952	2	84.0%		
S18	5	235		3.000	4.286	1	70.0%		

S18	5	236		6.000	8.571	1	70.0%		
S18	5	237		11.000	15.714	1	70.0%		
S18	5	238		6.000	8.571	1	70.0%		
S18	5	239	37.000	26.000	37.000	2	100.0%	70.3%	
S18	5	240	78.000	66.000	78.000	2	100.0%	84.6%	
S18	5	241		16.000	16.842	3	95.0%		
S18	5	242		9.000	10.714	2	84.0%		
S18	5	243	34.000	27.000	34.000	2	100.0%	79.4%	
S18	5	244	125.000	121.000	125.000	3	100.0%	96.8%	
S18	5	245	49.000	43.000	49.000	2	100.0%	87.8%	
S18	5	246	48.000	50.000	48.000	2	100.0%	104.2%	
S18	5	247		49.000	51.579	3	95.0%		
S18	5	248	22.000	21.000	22.000	2	100.0%	95.5%	
S18	5	249		57.000	60.000	3	95.0%		
S18	5	253		1.000	1.429	1	70.0%		
S18	5	254		3.000	3.571	2	84.0%		
S18	5	255	8.000	2.000	8.000	1	100.0%	25.0%	
S18	5	256		7.000	10.000	1	70.0%		
S18	5	257	6.000	4.000	6.000	1	100.0%	66.7%	
S18	5	258		4.000	5.714	1	70.0%		
S18	5	259		13.000	15.476	2	84.0%		
S18	5	260	36.000	24.000	36.000	2	100.0%	66.7%	
S18	5	261	26.000	26.000	26.000	2	100.0%	100.0%	
S18	5	262		18.000	18.947	3	95.0%		
S18	5	263	32.000	26.000	32.000	2	100.0%	81.3%	
S18	5	264		13.000	15.476	2	84.0%		
S18	5	265		34.000	35.789	3	95.0%		
S18	5	266	71.000	57.000	71.000	2	100.0%	80.3%	
S18	5	267	15.000	11.000	15.000	3	100.0%	73.3%	
S18	5	268		58.000	61.053	3	95.0%		
S18	5	269	18.000	16.000	18.000	2	100.0%	88.9%	
S18	5	270		28.000	29.474	3	95.0%		
S18	5	271	154.000	93.000	154.000	2	100.0%	60.4%	
S18	5	275		4.000	5.714	1	70.0%		
S18	5	276		5.000	7.143	1	70.0%		
S18	5	277		3.000	4.286	1	70.0%		
S18	5	278		10.000	14.286	1	70.0%		
S18	5	279		4.000	5.714	1	70.0%		
S18	5	280	29.000	22.000	29.000	2	100.0%	75.9%	
S18	5	281		13.000	15.476	2	84.0%		
S18	5	282	75.000	41.000	75.000	2	100.0%	54.7%	
S18	5	283	18.000	17.000	18.000	2	100.0%	94.4%	
S18	5	284		11.000	11.579	3	95.0%		
S18	5	285	73.000	55.000	73.000	2	100.0%	75.3%	
S18	5	286		45.000	47.368	3	95.0%		
S18	5	287		40.000	42.105	3	95.0%		
S18	5	288		12.000	12.632	3	95.0%		
S18	5	289		33.000	34.737	3	95.0%		
S18	5	290		54.000	56.842	3	95.0%		
S18	5	291		26.000	30.952	2	84.0%		
S18	5	297		8.000	11.429	1	70.0%		
S18	5	298		8.000	11.429	1	70.0%		
S18	5	299		3.000	4.286	1	70.0%		
S18	5	300	20.000	14.000	20.000	2	100.0%	70.0%	
S18	5	301	54.000	24.000	54.000	1	100.0%	44.4%	
S18	5	302		4.000	5.714	1	70.0%		

S18	5	303	39.000	31.000	39.000	2	100.0%	79.5%
S18	5	304	104.000	56.000	104.000	2	100.0%	53.8%
S18	5	305		7.000	8.333	2	84.0%	
S18	5	306	21.000	21.000	21.000	2	100.0%	100.0%
S18	5	307		33.000	34.737	3	95.0%	
S18	5	308		43.000	45.263	3	95.0%	
S18	5	309		16.000	16.842	3	95.0%	
S18	5	310		36.000	37.895	3	95.0%	
S18	5	311		79.000	83.158	3	95.0%	
S18	5	318		9.000	12.857	1	70.0%	
S18	5	319	18.000	17.000	18.000	2	100.0%	94.4%
S18	5	320		7.000	10.000	1	70.0%	
S18	5	321		8.000	11.429	1	70.0%	
S18	5	322	37.000	19.000	37.000	1	100.0%	51.4%
S18	5	323	56.000	21.000	56.000	2	100.0%	37.5%
S18	5	324		12.000	14.286	2	84.0%	
S18	5	325		24.000	25.263	3	95.0%	
S18	5	326	29.000	27.000	29.000	2	100.0%	93.1%
S18	5	327	32.000	33.000	32.000	2	100.0%	103.1%
S18	5	328	22.000	16.000	22.000	3	100.0%	72.7%
S18	5	329		44.000	46.316	3	95.0%	
S18	5	330		4.000	4.762	2	84.0%	
S18	5	331		32.000	33.684	3	95.0%	
S18	5	340	19.000	18.000	19.000	2	100.0%	94.7%
S18	5	341		5.000	5.952	2	84.0%	
S18	5	342		4.000	5.714	1	70.0%	
S18	5	343		13.000	18.571	1	70.0%	
S18	5	344	37.000	23.000	37.000	1	100.0%	62.2%
S18	5	345	38.000	25.000	38.000	2	100.0%	65.8%
S18	5	346		87.000	91.579	3	95.0%	
S18	5	347	55.000	35.000	55.000	2	100.0%	63.6%
S18	5	348	61.000	45.000	61.000	2	100.0%	73.8%
S18	5	349		27.000	28.421	3	95.0%	
S18	5	350	38.000	39.000	38.000	2	100.0%	102.6%
S18	5	351		12.000	14.286	2	84.0%	
S18	5	362		10.000	14.286	1	70.0%	
S18	5	363	94.000	32.000	94.000	2	100.0%	34.0%
S18	5	364	44.000	23.000	44.000	1	100.0%	52.3%
S18	5	365		14.000	20.000	1	70.0%	
S18	5	366	84.000	12.000	84.000	1	100.0%	14.3%
S18	5	367	179.000	122.000	179.000	3	100.0%	68.2%
S18	5	368	28.000	16.000	28.000	2	100.0%	57.1%
S18	5	369	57.000	55.000	57.000	2	100.0%	96.5%
S18	5	370		26.000	27.368	3	95.0%	
S18	5	371	156.000	130.000	156.000	3	100.0%	83.3%
S18	5	384	70.000	46.000	70.000	2	100.0%	65.7%
S18	5	385	13.000	12.000	13.000	2	100.0%	92.3%
S18	5	386	81.000	61.000	81.000	2	100.0%	75.3%
S18	5	387	161.000	138.000	161.000	3	100.0%	85.7%
S18	5	388	368.000	144.000	368.000	2	100.0%	39.1%
S18	5	389		50.000	52.632	3	95.0%	
S18	5	390		20.000	21.053	3	95.0%	
S18	5	391	38.000	37.000	38.000	3	100.0%	97.4%
S18	5	407	314.000	195.000	314.000	3	100.0%	62.1%
S18	5	408	543.000	394.000	543.000	3	100.0%	72.6%
S18	5	409	201.000	133.000	201.000	3	100.0%	66.2%

S18	5	410		63.000	66.316	3	95.0%	
S18	5	411		22.000	23.158	3	95.0%	
S18	5	429		55.000	57.895	3	95.0%	
S18	5	430	280.000	174.000	280.000	2	100.0%	62.1%
S18	5	431		32.000	33.684	3	95.0%	
S18	5	501	36.000	32.000	36.000	2	100.0%	88.9%
S18	5	502	371.000	265.000	371.000	3	100.0%	71.4%
S18	5	503		39.000	41.053	3	95.0%	
S18	5	504	316.000	239.000	316.000	3	100.0%	75.6%
S18	5	505		8.000	9.524	2	84.0%	
S18	5	506	44.000	16.000	44.000	2	100.0%	36.4%
S18	5	507		30.000	31.579	3	95.0%	
S18	5	508	64.000	23.000	64.000	2	100.0%	35.9%
S18	5	509	86.000	33.000	86.000	2	100.0%	38.4%
S18	5	510		6.000	8.571	1	70.0%	
S18	5	511		10.000	11.905	2	84.0%	
S18	5	512	23.000	16.000	23.000	1	100.0%	69.6%
S18	5	513		4.000	5.714	1	70.0%	
S18	5	514	14.000	7.000	14.000	1	100.0%	50.0%
S18	5	515		7.000	10.000	1	70.0%	
S18	5	516		6.000	8.571	1	70.0%	
S18	5	517		2.000	2.857	1	70.0%	
S18	5	518		4.000	5.714	1	70.0%	
S18	5	519		9.000	12.857	1	70.0%	
S18	5	520		0.000	0.000	1	70.0%	
S18	5	521		1.000	1.429	1	70.0%	
S18	5	522		1.000	1.429	1	70.0%	
S18	5	523	8.000	1.000	8.000	1	100.0%	12.5%
S18	5	524	7.000	2.000	7.000	1	100.0%	28.6%
S18	5	525		0.000	0.000	1	70.0%	
S18	5	526		0.000	0.000	1	70.0%	
S18	5	527		0.000	0.000	1	70.0%	
S18	5	528		4.000	4.211	3	95.0%	
S18	5	529		6.000	6.316	3	95.0%	
S18	5	530		12.000	12.632	3	95.0%	
S18	5	531	5.000	3.000	5.000	3	100.0%	60.0%
S18	5	601		2.000	2.857	1	70.0%	
S18	5	602	32.000	27.000	32.000	2	100.0%	84.4%
S18	5	603		59.000	62.105	3	95.0%	
S18	5	604		32.000	33.684	3	95.0%	
S18	5	605		34.000	35.789	3	95.0%	
S18	5	606		58.000	61.053	3	95.0%	
S18	5	607		10.000	11.905	2	84.0%	
S18	5	608	28.000	25.000	28.000	2	100.0%	89.3%
S18	5	609	20.000	22.000	20.000	2	100.0%	110.0%
S18	5	610		13.000	15.476	2	84.0%	
S18	5	611	31.000	19.000	31.000	2	100.0%	61.3%
S18	5	612	29.000	22.000	29.000	2	100.0%	75.9%
S18	5	613	35.000	26.000	35.000	2	100.0%	74.3%
S18	5	614	35.000	34.000	35.000	2	100.0%	97.1%
S18	5	615		9.000	12.857	1	70.0%	
S18	5	616	126.000	20.000	126.000	1	100.0%	15.9%
S18	5	617	43.000	51.000	43.000	2	100.0%	118.6%
S18	5	618	51.000	33.000	51.000	2	100.0%	64.7%
S18	5	619	61.000	60.000	61.000	2	100.0%	98.4%
S18	5	620	37.000	41.000	37.000	2	100.0%	110.8%

S18	5	621	41.000	30.000	41.000	2	100.0%	73.2%
S18	5	622	22.000	22.000	22.000	2	100.0%	100.0%
S18	5	623	16.000	15.000	16.000	1	100.0%	93.8%
S18	5	624	25.000	22.000	25.000	2	100.0%	88.0%
S18	5	625		11.000	15.714	1	70.0%	
S18	5	626	30.000	23.000	30.000	1	100.0%	76.7%
S18	5	627		9.000	12.857	1	70.0%	
S18	5	628		10.000	14.286	1	70.0%	
S18	5	629		7.000	10.000	1	70.0%	
S18	5	630		9.000	12.857	1	70.0%	
S18	5	631	14.000	10.000	14.000	1	100.0%	71.4%
S18	5	1001		12.000	14.286	2	84.0%	
S18	5	1002	9.000	7.000	9.000	1	100.0%	77.8%
	mean		63.5739	26.5433	35.1607		88.9%	30.1%



need to ore type
1001 - rebar @ # 216
Not drilled
S
S-18-5
PATTERN - 13' x 13'
TOE'S - 10' CTR.

Pit-Bench-Pattern #
S-18-5

Submittal Date
6-10-91 1:52 pm Cont

BLAST HOLE (1)

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 6-12-91

NAME: MM

RERUNS IN RED.
AVERAGE CIRCLED

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	218		.041	25.	Standard ✓		.014
2.	219		.034	26.	300	.020	.014
3.	232		.003	27.	301	.054	.013 (.034) (.024)
4.	237		.011	28.	303	.039	.031
5.	238		.006	29.	305		.007
6.	239	.037	.026	30.	321		.008
7.	240	.078	.066	31.	322	.037	.019
8.	Standard ✓		.014	32.	323	.056	.021
9.	253		.001	33.	[redacted]		
10.	258		.004	34.			
11.	259		.013	35.	324		.012
12.	260	.036	.024	36.	326	.029	.027
13.	261	.026	.026	37.	343		.013
14.	263	.032	.026	38.	344	.037	.023
15.	264		.013	39.	345-1	.038	.026
16.	[redacted]			40.	345-2		.024 .025
17.				41.	347	.055	.035
18.	V7		.027	42.	Standard ✓		.014
19.	279		.004	43.	366	.084	.006 (.018) (.012)
20.	280	.029	.022	44.	368	.028	.016
21.	281		.013	45.	389		.050
22.	282	.075	.041	46.	431		.032
23.	284		.011	47.	1001		.012
24.	285	.073	.055	48.			

B

Pit-Bench-Pattern #
S-18-5

Submittal Date
6-11-91 10:00 Am

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

(2)

DATE: 6-12-91

NAME: MM

RERUN IN RED, AVERAGE CIRCLED

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	61		.008	25.	Standard ✓		.014
2.	81		.004	26.	201		.009
3.	82		.016	27.	215	.014	.015
4.	83		.013	28.	221	.018	.018
5.	84		.007	29.	222		.012
6.	101		.009	30.	236		.006
7.	102		.007	31.	242		.009
8.	Standard ✓		.015	32.	243	.034	.027
9.	103	.010	.010	33.	[redacted]		
10.	104		.006	34.			
11.	105		.006	35.	257-1	.006	.003
12.	123	.032	.016	36.	257-2		.004
13.	124		.014	37.	278		.010
14.	125		.011	38.	299		.003
15.	✓7		.030	39.	302		.004
16.	[redacted]			40.	320		.007
17.				41.	341		.005
18.	173		.005	42.	Standard ✓		.014
19.	194	.088	.045	43.	342		.004
20.	195		.040	44.	362		.010
21.	196		.032	45.	363	.094	.036 .032 .028
22.	197	.066	.041	46.	364	.044	.023
23.	198	.125	.125	47.	365		.014
24.	200	.075	.014 .015 ✓	48.			

B

Pit-Bench-Pattern #
S-18-5

Submittal Date
6-12-91 AM
1:30 pm *

BLAST HOLE (1)

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 6-13-91

NAME: MM

	SAMPLE	FIRE Au.	NaCN Au.		SAMPLE	FIRE Au.	NaCN Au.
1.	45		.013	25.	Standard ✓		.015
2.	66		.012	26.	170		.003
3.	87		.014	27.	171		.001
4.	108		.002	28.	191	.007	.004
5.	109	.006	.002	29.	192		nil
6.	129		.005	30.	212		.003
7.	130		.002	31.	213		.003
8.	Standard ✓		.015	32.	233		.006
9.	151		.005	33.	[redacted]		
10.	✓7		.029	34.			
11.	172		.007	35.	234		.005
12.	193		.006	36.	254		.003
13.	214		.006	37.	255	.008	.002
14.	235		.003	38.	275		.004
15.	256		.007	39.	276		.005
16.	[redacted]			40.	297		.008 *2
17.				41.	318		.009
18.	277		.003	42.	Standard ✓		.014
19.	298		.008	43.	511		.010
20.	319	.018	.017	44.	512	.023	.016
21.	340	.019	.018	45.	513		.004
* 22.	128		.004	46.	514-1	.014	.006
23.	149		.004	47.	514-2		.007
24.	150		.005	48.			

thru 528

TS