5 - 12 - 13

1935906 - R8 SEMS

| BENCH NO | SHOT NO | BLASTHOLE NO | ORE TYPE | FIRE AU | AA AU | AA/FIRE | AA/RAT |
|---|---|---|---|---|---|---|---|
| S12 | 13 | 24 | 3 | | 0.005 | | 0.005 |
| S12 | 13 | 25 | 3 | 0.006 | 0.009 | 150.00% | 0.006 |
| S12 | 13 | 26 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 43 | 3 | | 0.004 | | 0.004 |
| S12 | 13 | 44 | 3 | | 0.003 | | 0.003 |
| S12 | 13 | 45 | 3 | | 0.005 | | 0.005 |
| S12 | 13 | 46 | 3 | | 0.004 | | 0.004 |
| S12 | 13 | 47 | 3 | | 0.001 | | 0.001 |
| S12 | 13 | 48 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 62 | 3 | 0.007 | 0.003 | 42.86% | 0.007 |
| S12 | 13 | 63 | 3 | 0.027 | 0.023 | 85.19% | 0.027 |
| S12 | 13 | 64 | 3 | 0.018 | 0.015 | 83.33% | 0.018 |
| S12 | 13 | 65 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 66 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 67 | 3 | | 0.005 | | 0.005 |
| S12 | 13 | 68 | 3 | 0.002 | 0.001 | 50.00% | 0.002 |
| S12 | 13 | 69 | 2 | 0.011 | 0.002 | 18.18% | 0.011 |
| S12 | 13 | 81 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 82 | 1 | | 0.000 | | 0.000 |
| S12 | 13 | 83 | 3 | | 0.006 | | 0.007 |
| S12 | 13 | 84 | 3 | 0.033 | 0.014 | 42.42% | 0.033 |
| S12 | 13 | 85 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 86 | 2 | | 0.009 | | 0.010 |
| S12 | 13 | 87 | 2 | 0.005 | 0.003 | 60.00% | 0.005 |
| S12 | 13 | 88 | 2 | | 0.004 | | 0.004 |
| S12 | 13 | 89 | 2 | | 0.006 | | 0.007 |
| S12 | 13 | 90 | 2 | 0.003 | 0.001 | 33.33% | 0.003 |
| S12 | 13 | 91 | 1 | | 0.007 | | 0.008 |
| S12 | 13 | 101 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 102 | 1 | 0.007 | 0.001 | 14.29% | 0.007 |
| S12 | 13 | 103 | 3 | | 0.006 | | 0.007 |
| S12 | 13 | 104 | 3 | | 0.010 | | 0.011 |
| S12 | 13 | 105 | 3 | 0.028 | 0.017 | 60.71% | 0.028 |
| S12 | 13 | 106 | 2 | | 0.003 | | 0.003 |
| S12 | 13 | 107 | 1 | 0.004 | 0.001 | 25.00% | 0.004 |
| S12 | 13 | 108 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 109 | 3 | | 0.010 | | 0.011 |
| S12 | 13 | 110 | 3 | 0.028 | 0.024 | 85.71% | 0.028 |
| S12 | 13 | 111 | 1 | | 0.002 | | 0.002 |
| S12 | 13 | 112 | 2 | 0.003 | 0.001 | 33.33% | 0.003 |
| S12 | 13 | 122 | 1 | | 0.005 | | 0.005 |
| S12 | 13 | 123 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 124 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 125 | 3 | | 0.003 | | 0.003 |
| S12 | 13 | 126 | 2 | 0.005 | 0.003 | 60.00% | 0.005 |
| S12 | 13 | 127 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 128 | 3 | | 0.008 | | 0.009 |
| S12 | 13 | 129 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 130 | 3 | | 0.014 | | 0.015 |
| S12 | 13 | 131 | 1 | 0.003 | 0.002 | 66.67% | 0.003 |
| S12 | 13 | 132 | 1 | 0.003 | 0.001 | 33.33% | 0.003 |
| S12 | 13 | 133 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 134 | 1 | 0.003 | 0.002 | 66.67% | 0.003 |
| S12 | 13 | 135 | 1 | | 0.001 | | 0.001 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S12 | 13 | 144 | 3 | | 0.004 | | 0.004 |
| S12 | 13 | 145 | 3 | | 0.003 | | 0.003 |
| S12 | 13 | 146 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 147 | 3 | | 0.001 | | 0.001 |
| S12 | 13 | 148 | 1 | 0.004 | 0.002 | 50.00% | 0.004 |
| S12 | 13 | 149 | 2 | | 0.001 | | 0.001 |
| S12 | 13 | 150 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 151 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 152 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 153 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 154 | 1 | | 0.002 | | 0.002 |
| S12 | 13 | 155 | 1 | 0.004 | 0.000 | 0.00% | 0.004 |
| S12 | 13 | 156 | 1 | | 0.009 | | 0.010 |
| S12 | 13 | 166 | 2 | 0.007 | 0.003 | 42.86% | 0.007 |
| S12 | 13 | 167 | 1 | | 0.002 | | 0.002 |
| S12 | 13 | 168 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 169 | 3 | | 0.006 | | 0.007 |
| S12 | 13 | 170 | 1 | | 0.002 | | 0.002 |
| S12 | 13 | 171 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 172 | 1 | | 0.002 | | 0.002 |
| S12 | 13 | 173 | 1 | 0.005 | 0.001 | 20.00% | 0.005 |
| S12 | 13 | 174 | 1 | | 0.000 | | 0.000 |
| S12 | 13 | 175 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 176 | 3 | 0.024 | 0.021 | 87.50% | 0.024 |
| S12 | 13 | 187 | 2 | | 0.001 | | 0.001 |
| S12 | 13 | 188 | 2 | | 0.003 | | 0.003 |
| S12 | 13 | 189 | 3 | | 0.006 | | 0.007 |
| S12 | 13 | 190 | 3 | | 0.013 | | 0.014 |
| S12 | 13 | 191 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 192 | 1 | | 0.002 | | 0.002 |
| S12 | 13 | 193 | 1 | | 0.003 | | 0.003 |
| S12 | 13 | 194 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 195 | 3 | | 0.006 | | 0.007 |
| S12 | 13 | 196 | 3 | | 0.010 | | 0.011 |
| S12 | 13 | 197 | 1 | 0.051 | 0.048 | 94.12% | 0.051 |
| S12 | 13 | 208 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 209 | 2 | 0.005 | 0.004 | 80.00% | 0.005 |
| S12 | 13 | 210 | 3 | 0.033 | 0.023 | 69.70% | 0.033 |
| S12 | 13 | 211 | 2 | | 0.007 | | 0.008 |
| S12 | 13 | 212 | 3 | | 0.001 | | 0.001 |
| S12 | 13 | 213 | 2 | 0.006 | 0.002 | 33.33% | 0.006 |
| S12 | 13 | 214 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 215 | 3 | 0.005 | 0.004 | 80.00% | 0.005 |
| S12 | 13 | 216 | 3 | 0.067 | 0.025 | 37.31% | 0.067 |
| S12 | 13 | 229 | 2 | | 0.006 | | 0.007 |
| S12 | 13 | 230 | 3 | | 0.008 | | 0.009 |
| S12 | 13 | 231 | 3 | | 0.003 | | 0.003 |
| S12 | 13 | 232 | 2 | | 0.006 | | 0.007 |
| S12 | 13 | 233 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 234 | 2 | | 0.005 | | 0.005 |
| S12 | 13 | 235 | 3 | | 0.004 | | 0.004 |
| S12 | 13 | 236 | 3 | | 0.014 | | 0.015 |
| S12 | 13 | 250 | 3 | 0.034 | 0.038 | 111.76% | 0.034 |
| S12 | 13 | 251 | 3 | 0.004 | 0.001 | 25.00% | 0.004 |
| S12 | 13 | 252 | 2 | | 0.002 | | 0.002 |
| S12 | 13 | 253 | 2 | 0.005 | 0.003 | 60.00% | 0.005 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S12 | 13 | 254 | 2 | 0.003 | 0.003 | 100.00% | 0.003 |
| S12 | 13 | 255 | 3 | | 0.009 | | 0.010 |
| S12 | 13 | 271 | 3 | | 0.003 | | 0.003 |
| S12 | 13 | 272 | 2 | | 0.004 | | 0.004 |
| S12 | 13 | 273 | 3 | | 0.006 | | 0.007 |
| S12 | 13 | 274 | 3 | | 0.005 | | 0.005 |
| S12 | 13 | 292 | 3 | | 0.005 | | 0.005 |
| S12 | 13 | 293 | 3 | 0.004 | 0.003 | 75.00% | 0.004 |
| S12 | 13 | 500 | 2 | 0.003 | 0.001 | 33.33% | 0.003 |
| S12 | 13 | 501 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 502 | 3 | | 0.010 | | 0.011 |
| S12 | 13 | 503 | 2 | | 0.004 | | 0.004 |
| S12 | 13 | 504 | 2 | 0.004 | 0.001 | 25.00% | 0.004 |
| S12 | 13 | 505 | 3 | | 0.004 | | 0.004 |
| S12 | 13 | 506 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 507 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 508 | 3 | 0.005 | 0.001 | 20.00% | 0.005 |
| S12 | 13 | 509 | 3 | | 0.002 | | 0.002 |
| S12 | 13 | 510 | 3 | | 0.001 | | 0.001 |
| S12 | 13 | 511 | 1 | | 0.000 | | 0.000 |
| S12 | 13 | 512 | 1 | 0.004 | 0.000 | 0.00% | 0.004 |
| S12 | 13 | 513 | 1 | 0.002 | 0.002 | 100.00% | 0.002 |
| S12 | 13 | 514 | 1 | | 0.002 | | 0.002 |
| S12 | 13 | 515 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 516 | 3 | | 0.005 | | 0.005 |
| S12 | 13 | 517 | 1 | | 0.003 | | 0.003 |
| S12 | 13 | 518 | 1 | | 0.001 | | 0.001 |
| S12 | 13 | 519 | 1 | 0.003 | 0.004 | 133.33% | 0.003 |
| S12 | 13 | 1001 | 1 | ~~0.005~~ | 0.004 | 80.00% | 0.005 |
| S12 | 13 | 1002 | 2 | 0.005 | 0.005 | | 0.005 |
| | | MEAN | | 0.012 | 0.005 | 57.79% | 0.006 |

Pit-Bench-Pattern /
5-12-13
Submittal Date
1-21-91 1:35 pm (cont.)

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-22-91
NAME: KW MM

| | SAMPLE | FIRE Au. | NaCN Au. | | SAMPLE | FIRE Au. | NaCN Au. |
|---|---|---|---|---|---|---|---|
| * 1. | 83 | | 006 | 25. | Standard ✓ | | 014 |
| 2. | 84 | .033 | 014 | 26. | 519-1 | .003 | 003 |
| 3. | 101 | | 001 | 27. | 519-2 | | 004 |
| 4. | 102 | .007 | 001 | 28. | | | |
| 5. | 103 | | 006 | 29. | | | |
| 6. | 104 | | 010 | 30. | | | |
| 7. | 122 | | 005 | 31. | | | |
| 8. | Standard ✓ | | 014 | 32. | | | |
| 9. | 123 | | 002 | 33. | | | |
| 10. | 124 | | 002 | 34. | | | |
| 11. | 144 | | 004 | 35. | | | |
| 12. | 145 | | 003 | 36. | | | |
| 13. | 166 | .007 | 003 | 37. | | | |
| 14. | 187 | | 001 | 38. | | | |
| 15. | 208 | | 002 | 39. | | | |
| 16. | | | | 40. | | | |
| 17. | | | | 41. | | | |
| 18. | 513 | .002 | 002 | 42. | Standard ✓ | | |
| 19. | 514 | | 002 | 43. | | | |
| 20. | ✓ pulp | | 031 | 44. | | | |
| 21. | 515 | | 001 | 45. | | | |
| 22. | 516 | | 005 | 46. | | | |
| 23. | 517 | | 003 | 47. | | | |
| 24. | 518 | | 001 | 48. | | | |

LD ✓

Pit-Bench-Pattern #
5-12-13

Submittal Date
1-17-91

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-18-91

NAME: MM KW

3

| | SAMPLE | FIRE Au. | NaCN Au. | | SAMPLE | FIRE Au. | NaCN Au. |
|---|---|---|---|---|---|---|---|
| 1. | 503 | | .004 | 25. | Standard ✓ | | |
| 2. | 504 | .004 | .001 | 26. | | | |
| 3. | 505 | | .004 | 27. | | | |
| 4. | 506 | | .002 | 28. | | | |
| 5. | 507 | | .002 | 29. | | | |
| 6. | 508 | .005 | .001 | 30. | | | |
| 7. | 509 | | .002 | 31. | | | |
| 8. | Standard ✓ | | .014 | 32. | | | |
| 9. | 510 | | .001 | 33. | | | |
| 10. | 511 | | nil | 34. | | | |
| 11. | 512 | .004 | nil | 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. | | | |

MD

Pit-Bench-Pattern #
5-12-13

Submittal Date
1/18/91 11:30A Cont.

BLAST HOLE

Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1/21/91

NAME: KW

| | SAMPLE | FIRE Au. | NaCN Au. | | SAMPLE | FIRE Au. | NaCN Au. |
|---|---|---|---|---|---|---|---|
| 1. | 196 | | 010 | 25. | Standard ✓ | | |
| 2. | 197 | .051 | 048 | 26. | | | |
| 3. | 214 | | 002 | 27. | | | |
| 4. | 215 | .005 | 004 | 28. | | | |
| Rerun 5. | 216 | .067 | 025 | 29. | | | |
| 6. | 234 | | 005 | 30. | | | |
| 7. | 235 | | 004 | 31. | | | |
| 8. | Standard ✓ | | 015 | 32. | | | |
| 9. | 236 | | 014 | 33. | | | |
| 10. | 254 | .003 | 003 | 34. | | | |
| 11. | 255 | | 009 | 35. | | | |
| 12. | 274 | | 005 | 36. | | | |
| 13. | 293 | .004 | 003 | 37. | | | |
| 14. | 500-1 | .003 | 001 | 38. | | | |
| 15. | 500-2 | | 001 | 39. | | | |
| 16. | | | | 40. | | | |
| 17. | | | | 41. | | | |
| 18. | ✓7 | | 030 | 42. | Standard ✓ | | |
| 19. | 156 | | 009 | 43. | | | |
| 20. | | | | 44. | | | |
| 21. | | | | 45. | | | |
| 22. | | | | 46. | | | |
| 23. | | | | 47. | | | |
| 24. | | | | 48. | | | |

LLD

Pit-Bench-Pattern #
S-12-13
Submittal Date
1-17-91 12:00 pm

BLAST HOLE
Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-18-91
NAME: MM KW

| | SAMPLE | FIRE Au. | NaCN Au. | | SAMPLE | FIRE Au. | NaCN Au. |
|---|---|---|---|---|---|---|---|
| 1. | | | | 25. | Standard ✓ | | |
| 2. | | | | 26. | | | |
| 3. | | | | 27. | | | |
| 4. | | | | 28. | 112 | .003 | .001 |
| 5. | | | | 29. | 132 | .003 | .001 |
| 6. | | | | 30. | 133 | | .001 |
| 7. | | | | 31. | 152 | | .001 |
| 8. | Standard ✓ | | | 32. | 153 | | .001 |
| 9. | | | | 33. | | | |
| 10. | | | | 34. | | | |
| 11. | | | | 35. | 172 | | .002 |
| 12. | | | | 36. | 173 | .005 | .001 |
| 13. | | | | 37. | 192 | | .002 |
| 14. | | | | 38. | 193 | | .003 |
| 15. | | | | 39. | 212 | | .001 |
| 16. | | | | 40. | 213 | .006 | .002 |
| 17. | | | | 41. | 232 | | .006 |
| 18. | | | | 42. | Standard ✓ | | .015 |
| 19. | | | | 43. | 233 | | .002 |
| 20. | | | | 44. | 252 | | .002 |
| 21. | | | | 45. | 253 | .005 | .003 |
| 22. | | | | 46. | 272 | | .004 |
| 23. | | | | 47. | 273 | | .006 |
| 24. | | | | 48. | 501 | | .002 |
| | | | | 49 | 502 | | .010 |

Pit-Bench-Pattern #
5-12-13
Submittal Date
1-21-91 9:18 AM
* 1-21-91 1:35 pm

BLAST HOLE
Bot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1-22-91
NAME:

| | SAMPLE | FIRE Au. | NaCN Au. | | SAMPLE | FIRE Au. | NaCN Au. |
|---|---|---|---|---|---|---|---|
| 1. | 69 | .011 | .002 | 25. | Standard ✓ | | .015 |
| 2. | ✓pulp | | .033 | 26. | 209 | .005 | .004 |
| 3. | 89 | | .006 | 27. | 210 | .033 | .023 |
| 4. | 90-1 | .003 | .001 | 28. | 211 | | .007 |
| 5. | 90-2 | | .001 | 29. | 229 | | .006 |
| 6. | 91 | | .007 | 30. | 230 | | .008 |
| 7. | 109 | | .010 | 31. | 231 | | .003 |
| 8. | Standard ✓ | | .015 | 32. | 250 | .034 | .038 |
| 9. | 110 | .028 | .024 | 33. | | | |
| 10. | 111 | | .002 | 34. | | | |
| 11. | 129 | | .002 | 35. | 251 | .004 | 001 |
| 12. | 130 | | .014 | 36. | 271 | | 003 |
| 13. | 131 | .003 | .002 | 37. | 292 | | 005 |
| 14. | 149 | | .001 | 38. | 1002 | .005 | 005 |
| 15. | 150 | | .001 | 39. | 24 | | 005 * |
| 16. | | | | 40. | 43 | | 001 |
| 17. | | | | 41. | 44 | | 003 |
| 18. | 151 | | .001 | 42. | Standard ✓ | | 015 |
| 19. | 169 | | .006 | 43. | 62 | .007 | 003 |
| 20. | 170 | | .002 | 44. | 63 | .027 | 023 |
| 21. | 171 | | .001 | 45. | 64 | .018 | 015 |
| 22. | 189 | | .006 | 46. | 81 | | 001 |
| 23. | 190 | | .013 | 47. | 82 | | NIL |
| 24. | 191 | | .001 | 48. | | | |

LD

Pit-Bench-Pattern #
5-12-13

Submittal Date
1/18/91 8:45A
*1/18/91 11:30A

BLAST HOLE

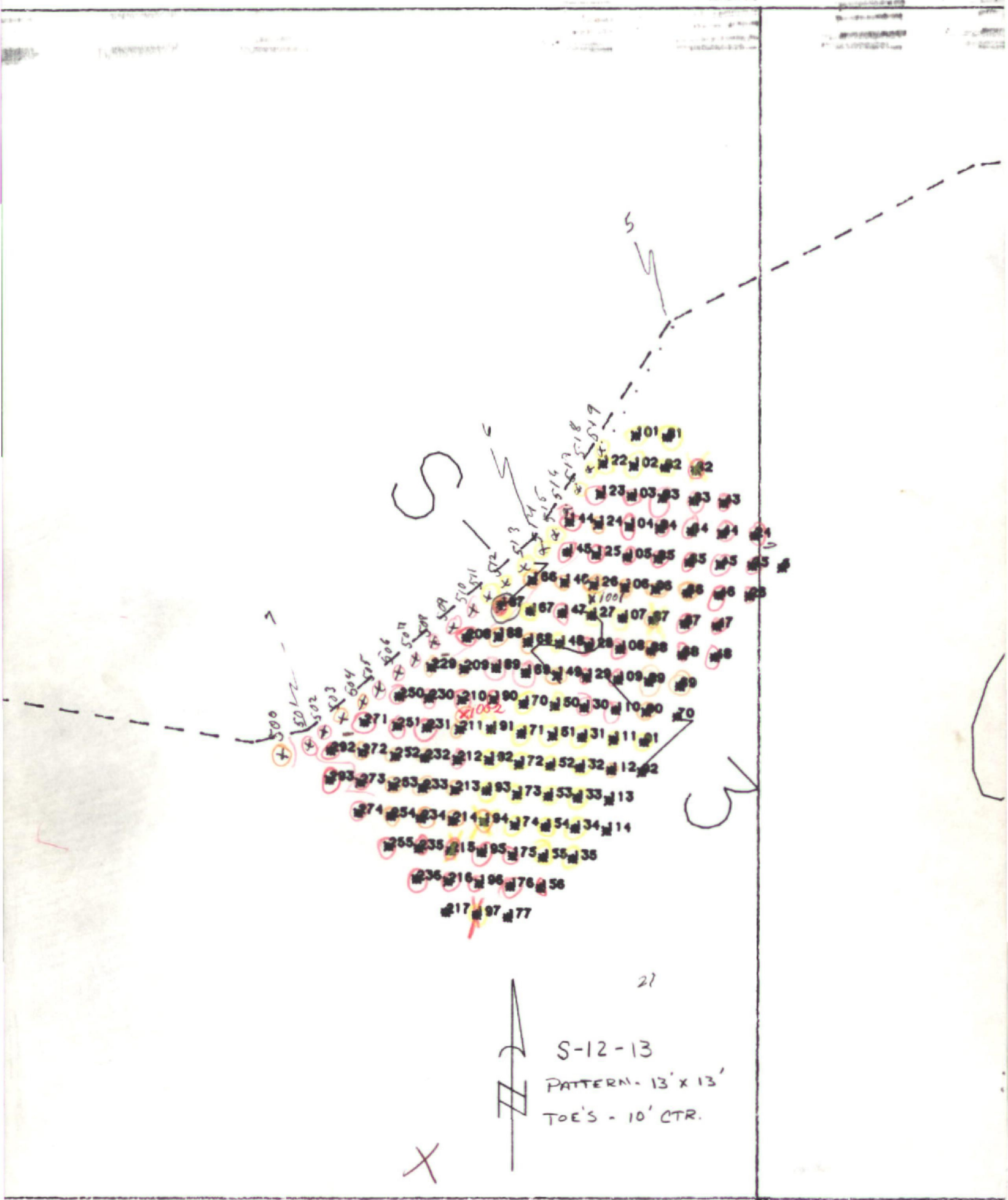
Hot NaCN Shake
and
FIRE DETERMINATIONS

DATE: 1/21/91

NAME: [illegible]

| | SAMPLE | FIRE Au. | NaCN Au. | | SAMPLE | FIRE Au. | NaCN Au. |
|---|---|---|---|---|---|---|---|
| 1. | 25 | .006 | 009 | 25. | Standard ✓ | | 015 |
| 2. | 26 | | 002 | 26. | 126 | .005 | 003 |
| 3. | 45 | | 005 | 27. | 127 | | 001 |
| 4. | 46 | | 004 | 28. | 128 | | 008 |
| 5. | 47 | | 001 | 29. | 146 | | 002 |
| 6. | 48 | | 002 | 30. | 147 | | 001 |
| 7. | ✓7 | | 031 | 31. | 148 | .004 | 002 |
| 8. | Standard ✓ | | 014 | 32. | 167 | | 002 |
| 9. | 65 | | 002 | 33. | | | |
| 10. | 66 | | 002 | 34. | | | |
| 11. | 67 | | 005 | 35. | 168 | | 002 |
| 12. | 68 | .002 | 001 | 36. | 188 | | 003 |
| 13. | 85 | | 002 | 37. | 1001 | | 004 |
| 14. | 86 | | 009 | 38.* | 134 | .003 | 002 |
| 15. | 87 | .005 | 003 | 39. | 135 | | 001 |
| 16. | | | | 40. | 154 | | 002 |
| 17. | | | | 41. | 155 | .004 | NIL |
| 18. | 88 | | 004 | 42. | Standard ✓ | | 014 |
| 19. | 105-1 | .028 | 016 | 43. | 174 | | NIL |
| 20. | 105-2 | | 017 | 44. | 175 | | 002 |
| 21. | 106 | | 003 | 45. | 176 | .024 | 021 |
| 22. | 107 | .004 | 001 | 46. | 194 | | 002 |
| 23. | 108 | | 002 | 47. | 195 | | 006 |
| 24. | 125 | | 003 | 48. | | | |

LLD


S-12-13
PATTERN - 13' x 13'
TOE'S - 10' CTR.

29 1/17/91 - 12:00

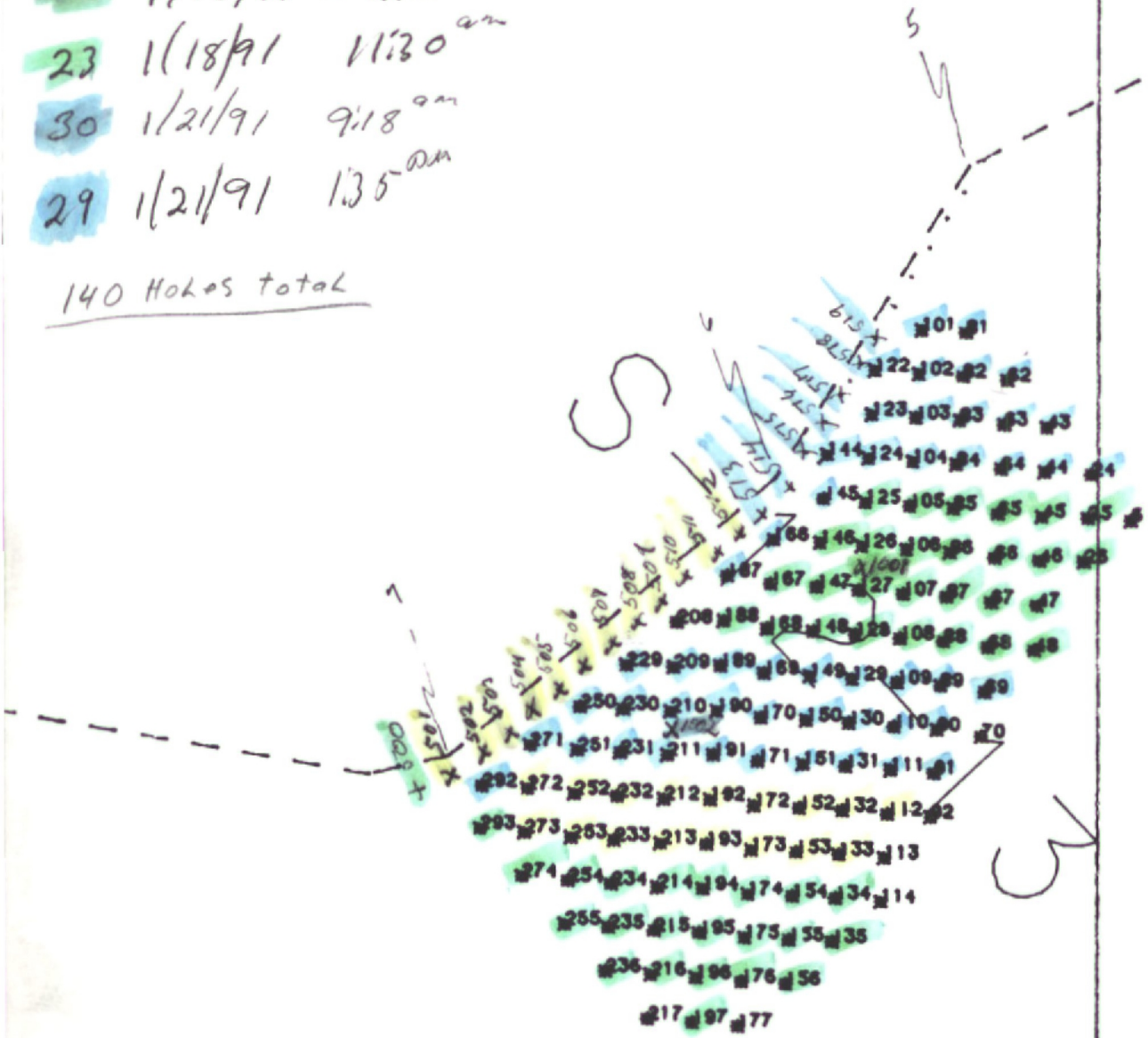
29 1/18/91 - 8:45 am

23 1/18/91 11:30 am

30 1/21/91 9:18 am

29 1/21/91 1:35 pm

140 Holes total



S-12-13

PATTERN - 13' x 13'

TOE'S - 10' CTR.

BROHM MINING CORPORATION
BLAST HOLE ORE TYPE

PATTERN S-12-13 X Corrections DATE 1/23/91

| NO. | SULF. | MIX | OXIDE | NO. | SULF. | MIX | OXIDE | NO. | SULF. | MIX | OXIDE | NO. | SULF | MIX | OXIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | | | X | | | | | | | | | | | | |
| 152 | X | | | | | | | | | | | | | | |
| 153 | X | | | | | | | | | | | | | | |
| 154 | X | | | | | | | | | | | | | | |
| 155 | X | | | | | | | | | | | | | | |
| 156 | X | | | | | | | | | | | | | | |
| 292 | | | X | | | | | | | | | | | | |
| [illegible] | | | | | | | | | | | | | | | |
| 500 | | X | | | | | | | | | | | | | |