

AP. 1-5 Resultados de difracción por rayos X

AP. 1-5 RESULTADOS DE DIFRACCION POR RAYOS X

(1)

| No. | No. de muestra | Mineral Tipo de roca | Mineral | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----------------|-------------------------|----------------|--------|----------------|-----------|----------|-----------|----------|---------|--|-------------|----------------------|---------|-----------|---------|----------|------|---------|----------|-------------|-------------|----------|--------|-----------|----------|-----------------|
| | | | α-cristobalita | Cuarzo | Crino ptiloita | Melodonta | Smectita | Kaolinita | Sericita | Clorita | "Mixed layered" de sericita y smectita | Plagioclasa | Feldespatos potásico | Biotita | Turmalina | Alunita | Jarosita | Yeso | Calcita | Dolomita | Rodocrosita | Kutnahorita | Siderita | Pirita | Marcasita | Hematita | Material amolfo |
| 1 | 96H1 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 96H9 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 96H14 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 96H15 | Toba | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 96H17 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 96H18 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 96H22 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 96H23 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 96H25 | Toba lapilli | ○ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 96H28 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 96H30 | Ignimbrita | Δ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 96H31 | Toba | Δ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 96H33 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 96H34 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 96H36 | Toba | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 96H38 | Toba | Δ | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 96H39 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 96H41 | Toba | . | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 96H43 | Ignimbrita | ⊙ | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 96H47 | Ignimbrita | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 96H48 | Toba | Δ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 96H49 | Ignimbrita | ○ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 96H51 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 96H53 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 96H54 | Toba | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 96H56 | Toba | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 96H57 | Toba | ⊙ | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 96H58 | Toba | ○ | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 96H60 | Toba | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 96H62 | Toba | ○ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 96H63 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 96H65 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 96H67 | Toba | ○ | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 96H68 | Toba | ○ | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 96H69 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 96H70 | Toba | ○ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 96H71 | Toba | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 96H72 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 96H74 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 96H75 | Toba | ⊙ | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 96H76 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | 96H77 | Toba | Δ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | 96H80 | Riolita | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 96H83 | Ignimbrita | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 96H84 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | 96H85B | Andesita | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | 96H96 | Toba | | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 96H97 | Toba | | Δ | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 96H99 | Toba lapilli | Δ | ○ | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 96H100B | Riolita | ⊙ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |

⊙ : Abundante ○ : Medio Δ : Poco . : Escaso

AP. 1-5 RESULTADOS DE DIFRACCION POR RAYOS X

(2)

| No. | No. de muestra | Mineral | | α-cristobalita | Cuarzo | Crist. ptilolita | Moldenita | Smectita | Kaolinita | Sericita | Clorita | "Mixed layered" de sericita y smectita | Plagioclasa | Feldespato potasico | Biotita | Turmalina | Alunita | Jarosita | Yeso | Calcita | Dolomita | Rodocrosita | Kutnahorita | Siderita | Pirita | Marcasita | Hematita | Material amorfo |
|-----|----------------|--------------|---|----------------|--------|------------------|-----------|----------|-----------|----------|---------|--|-------------|---------------------|---------|-----------|---------|----------|------|---------|----------|-------------|-------------|----------|--------|-----------|----------|-----------------|
| | | Tipo de roca | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 96H103 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 52 | 96H104 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 53 | 96H107 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 54 | 96H110 | Toba | | ⊙ | | | | | | | | | ○ | Δ | | | | | | | | | | | | | | |
| 55 | 96H114 | Toba | | ⊙ | | | | Δ | | | | | | Δ | | | | | | | | | | | | | | |
| 56 | 96H115 | Riolita | | ⊙ | | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 57 | 96H117 | Toba | | ⊙ | | | | | | | | | | ○ | Δ | | | | | | | | | | | | | |
| 58 | 96H119 | Toba | Δ | ⊙ | Δ | Δ | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | ○ |
| 59 | 96H122 | Toba | | ⊙ | | | | Δ | | | | | | Δ | | | | | | | | | Δ | | | | | |
| 60 | 96H130 | Toba | | ○ | ⊙ | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | 96H132 | Toba | | Δ | ⊙ | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 62 | 96H134 | Toba | | Δ | ⊙ | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 63 | 96H135 | Toba | | ⊙ | ⊙ | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 64 | 96H138 | Riolita | | ⊙ | ⊙ | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 65 | 96MH154 | Toba | | ⊙ | | | | | | | | | Δ | | | | | | | | | | | | | | | |
| 66 | 96MH175 | Toba | | ⊙ | | | | | | | | | Δ | | | | | | | | | | | | | | | |
| 67 | 96MH178 | Toba | | ⊙ | | | | | | | | | Δ | | | | | | | | | | | | | | | |
| 68 | 96MH209 | Toba | | ⊙ | | | | | | | | | | Δ | | | | | Δ | | | | | | | | | |
| 69 | 96MH216 | Toba | | ⊙ | | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 70 | 96MH218 | Toba | | ⊙ | | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 71 | 96MH225 | Toba | | ⊙ | | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 72 | 96MH228 | Toba | | ⊙ | | | | Δ | | | | | | Δ | | | | | | | | | | | | | | |
| 73 | 96MH230 | Toba | | ○ | ⊙ | Δ | | Δ | Δ | | | | | Δ | | Δ | | | | | | | | | | | | ○ |
| 74 | 96MH237 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 75 | 96MH291 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 76 | 96MH180 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 77 | 96MH181 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 78 | 96MH183 | Toba | | ⊙ | | | | | | Δ | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 79 | 96MH184 | Toba | | ⊙ | | ? | | | | Δ | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 80 | 96MH185 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | Δ | | | | | | | | |
| 81 | 96MH186 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 82 | 96MH187 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 83 | 96MH188 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 84 | 96MH189 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 85 | 96MH190 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 86 | 96MH192 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 87 | 96MH194 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 88 | 96MH195 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 89 | 96MH197 | Toba | | ○ | ⊙ | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 90 | 96MH199 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 91 | 96MH200 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 92 | 96MH202 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 93 | 96MH203 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 94 | 96MH127 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 95 | 96MH128 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 96 | 96MH129 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 97 | 96MH133 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 98 | 96MH139 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 99 | 96MH141 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |
| 100 | 96MH143 | Toba | | ⊙ | | | | | | | | | Δ | Δ | | Δ | | | | | | | | | | | | |

⊙ : Abundante ○ : Medio Δ : Poco * : Escaso

AP. 1-5 RESULTADOS DE DIFRACCION POR RAYOS X

(3)

| No. | No. de muestra | Mineral Tipo de roca | Mineral | | | | | | | | | | | | | | | Material amorfo | | | | | | | | | | |
|-----|----------------|-------------------------|----------------|--------|----------------|-----------|----------|-----------|----------|---------|--|-------------|---------------------|---------|-----------|---------|----------|-----------------|------|---------|----------|-------------|-------------|----------|--------|-----------|----------|--|
| | | | α-cristobalita | Cuarzo | Crino ptaloita | Moldenita | Smectita | Kaolinita | Sericita | Clorita | "Mixed layered" de sericita y smectita | Plagioclasa | Feldespato potasico | Biotita | Turmalina | Alunita | Jarosita | | Yeso | Calcita | Dolomita | Rodocrosita | Kutnahorita | Siderita | Pirita | Marcasita | Hematita | |
| 101 | 96MH144 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | 96MH146 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | 96MH147 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104 | 96MH148 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | 96MH149 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | 96MH150 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107 | 96MH151 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 108 | 96MH152 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 109 | 96MH153 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | 96MH158 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 111 | 96MH161 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 112 | 96MH164 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 113 | 96MH167 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 114 | 96MH170 | Toba | ⊙ | | | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 115 | 96MH171 | Toba | ⊙ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 116 | 96MH239 | Toba | ⊙ | | | | | | | | | | | Δ | | | | | | | | | | | | | | |
| 117 | 96MH242 | Toba | ⊙ | | | | | | ·? | | | | Δ | Δ | | | | | | | | | | | | | | |
| 118 | 96MH245 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | ·? | | | | | | | |
| 119 | 96MH246 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 120 | 96MH247 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 121 | 96MH248 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 122 | 96MH249 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 123 | 96MH250 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 124 | 96MH251 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | ·? | | | | | | | |
| 125 | 96MH252 | Toba | ⊙ | | | | | | Δ | | | | Δ | Δ | | | | | | | | | | | | | | |
| 126 | 96MH253 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 127 | 96MH256 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 128 | 96MH258 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 129 | 96MH262 | Toba | ⊙ | | | | | | Δ | | | | Δ | Δ | | | | | | | ·? | | | | | | | |
| 130 | 96MH264 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 131 | 96MH265 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 132 | 96MH266 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 133 | 96MH268 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 134 | 96MH270 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 135 | 96MH271 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 136 | 96MH272 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 137 | 96MH273 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 138 | 96MH274 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | Δ | | | | | | | |
| 139 | 96MH275 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 140 | 96MH276 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 141 | 96MH277 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 142 | 96MH278 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 143 | 96MH279 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 144 | 96MH282 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 145 | 96MH283 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 146 | 96MH284 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 147 | 96MH285 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 148 | 96MH286 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 149 | 96MH288 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |
| 150 | 96MH289 | Toba | ⊙ | | | | | | | | | | Δ | Δ | | | | | | | | | | | | | | |

⊙ : Abundante ○ : Medio Δ : Poco · : Escaso

- AP. 3-1** Cuadro resumen de las operaciones de perforación por pozo
- AP. 3-2** Cuadro resumen de los tiempos empleados por cada pozo
- AP. 3-3** Cuadro de los principales equipos y materiales
- AP. 3-4** Cuadro de los detalles del empleo de los suministros
- AP. 3-5** Cuadro de anotaciones del uso de las brocas de diamante

AP. 3-1 CUADRO RESUMEN DE LAS OPERACIONES DE PERFORACION POR POZO

| No. Pozo | Tipo de maquina | Periodo de perforacion | Longitud perforada | Testigos | | Cantidad Perforado | turnos de perforacion | | Avance de perforacion | | Observaciones |
|----------|-----------------|------------------------|--------------------|----------|--------------|--------------------|-----------------------|-------|-----------------------|------|---------------|
| | | | | Longitud | Recuperacion | | Entubamiento y otros | Total | ★ | ★★ | |
| MJHS-1 | THS-88 | 12de Oct.'96 | 300.30 | 283.05 | 94.3 | 62 | 5 | 67 | 4.84 | 4.48 | m |
| | | 5de Nov.'96 | | | | | | | | | |
| MJHS-2 | L-38 | 28de Oct.'96 | 300.00 | 284.70 | 94.9 | 67 | 7 | 74 | 4.48 | 4.06 | m |
| | | 22de Nov.'96 | | | | | | | | | |
| MJHS-3 | THS-88 | 14de Nov.'96 | 300.30 | 292.90 | 97.5 | 48 | 4 | 52 | 6.26 | 5.78 | m |
| | | 1de Dic.'96 | | | | | | | | | |
| MJHS-4 | L-38 | 29de Nov.'96 | 300.40 | 295.80 | 98.5 | 61 | 3 | 64 | 4.92 | 4.69 | m |
| | | 20de Dic.'96 | | | | | | | | | |
| MJHS-5 | THS-88 | 5de Dic.'96 | 249.80 | 244.60 | 97.9 | 39 | 51 | 90 | 6.41 | 2.78 | m |
| | | 5de .Ene'97 | | | | | | | | | |
| Total | | | 1,450.60 | 1,401.05 | 96.6 | 277 | 70 | 347 | 5.24 | 4.18 | |

★ Perforado en un turno cubriendo operaciones netas de perforacion.

★★ Perforado en un turno cubriendo todos los trabajos.

AP. 3-2 CUADRO RESUMEN DE LOS TIEMPOS EMPLEADOS POR CADA POZO

| No. Pozo | Perforación | Levantado y bajado tuberías y i. i. | | Miscelánea | | Reparaciones | Otros | Operación traslado | Total |
|----------|------------------|-------------------------------------|------------------|-----------------|-------------------|------------------|------------------|--------------------|------------------|
| | | Tubería | Tubería interna | Bajado Casing | Escariado el pozo | | | | |
| MJHS-1 | Hora 173° 00' | Hora 36° 00' | Hora 309° 00' | Hora 10° 00' | Hora 0° 00' | Hora 24° 00' | Hora 48° 00' | Hora 64° 00' | Hora 664° 00' |
| MJHS-2 | Hora 216° 00' | Hora 16° 00' | Hora 318° 00' | Hora 2° 00' | Hora 0° 00' | Hora 40° 00' | Hora 128° 00' | Hora 64° 00' | Hora 784° 00' |
| MJHS-3 | Hora 170° 00' | Hora 27° 00' | Hora 198° 00' | Hora 10° 00' | Hora 0° 00' | Hora 16° 00' | Hora 20° 00' | Hora 36° 00' | Hora 472° 00' |
| MJHS-4 | Hora 201° 00' | Hora 30° 00' | Hora 254° 00' | Hora 2° 00' | Hora 0° 00' | Hora 20° 00' | Hora 40° 00' | Hora 45° 00' | Hora 592° 00' |
| MJHS-5 | Hora 136° 00' | Hora 54° 00' | Hora 420° 00' | Hora 10° 00' | Hora 0° 00' | Hora 100° 00' | Hora 64° 00' | Hora 48° 00' | Hora 832° 00' |
| Total | 896° 00' | 163 00' | 1,494° 00' | 34° 00' | 0° 00' | 200° 00' | 300° 00' | 257° 00' | 3,344° 00' |
| | | | 1,528° 00' | | | | | | |

AP. 3-3 CUADRO DE LOS PRINCIPALES EQUIPOS
Y MATERIALES

(1)

| Artículo | Modelo | Cantidad | Observaciones |
|------------------------|-----------------|----------|---|
| Máquina de Perforación | THS-88 | 1 | Capacidad BQ 320m Diámetro interno del mandril 80mm |
| Motor | F2L-912 | 1 | |
| Máquina de Perforación | L-38 | 1 | Capacidad BQ 725m Diámetro interno del mandril 148mm |
| Motor | F3L-912 | 1 | |
| Bomba de Perforación | MG-10 | 1 | |
| Motor de la Bomba | ND-200 | | |
| Bomba de Perforación | MD-200 | 1 | |
| Motor de la Bomba | 3XR1AAS | 1 | |
| Bomba de la agua | L-33 | 1 | |
| Con Motor | NFD-150 | 1 | |
| Mezclador | MCE-200 | 2 | |
| Torre de Perforación | DR-12 | 1 | |
| Torre de Perforación | DCP6-3 | 1 | |
| Tanque de agua | 3m ³ | 6 | |
| Tubos de Perforación | HQ-WL | 110 | 3.00 m c/u |
| Tubos de Perforación | NQ-WL | 210 | 3.00 m c/u |
| Tubos de Perforación | BQ-WL | 210 | 3.00 m c/u |
| Tubos de revestimiento | HW | 25 | 3.00 m c/u |
| Tubos de revestimiento | NW | 120 | 3.00 m c/u |
| Tubos de revestimiento | BW | 300 | 3.00 m c/u |
| Mordaza para tubo | RH-85 | 2 | |
| Cabeza de inyección | EH | 2 | |

(2)

| Articulo | Modelo | Cantidad | Observaciones |
|---------------------|--------|----------|---------------|
| Tubo de sacatestigo | HQ-WL | 3 | 3.00 m c/u |
| Tubo de sacatestigo | NQ-WL | 3 | 3.00 m c/u |
| Tubo de sacatestigo | BQ-WL | 3 | 3.00 m c/u |
| Pinzas pescadoras | HQ-WL | 2 | Completo |
| Pinzas pescadoras | NQ-WL | 2 | Completo |
| Pinzas pescadoras | BQ-WL | 2 | Completo |
| Canion | 2t | 1 | |
| Jeep | | 3 | |

AP. 3-4 CUADRO DE LOS DETALLES DEL EMPLEO DE LOS SUMINISTROS

(1)

| Artículo | Especificaciones | Unidad | C a n t i d a d | | | | | Total |
|--------------------------------|------------------|--------|-----------------|--------|--------|--------|--------|--------|
| | | | MJHS-1 | MJHS-2 | MJHS-3 | MJHS-4 | MJHS-5 | |
| Diesel | | ℓ | 2,900 | 2,830 | 2,190 | 2,630 | 2,990 | 13,540 |
| Aceite de lubricante (máquina) | | ℓ | 5 | 10 | 11 | 10 | 7 | 43 |
| Aceite de lubricante (motor) | | ℓ | 20 | 25 | 20 | 20 | 15 | 100 |
| Aceite de hidráulico | | ℓ | 10 | 15 | 15 | 20 | 15 | 75 |
| Grasa | | Kg | 13.0 | 3.6 | 11.0 | 13.7 | 15.7 | 57.0 |
| Bentonita | | Saco | 138 | 243 | 305 | 345 | 298 | 1,329 |
| C M C | | Kg | 47 | 83.5 | 119 | 115 | 104 | 468.5 |
| Cemento | | Saco | 3 | 3 | 3 | 3 | 38 | 50 |
| Broca Metal | 116 mm | PC | 1 | 1 | 1 | 1 | 1 | 5 |
| Broca Diamante | NQ-WL | PC | 5 | 8 | 5 | 10 | 5 | 33 |
| Broca Diamante | BQ-WL | PC | 3 | — | 4 | — | 4 | 11 |
| Escariadores | HQ-WL | PC | — | — | — | — | — | — |
| Escariadores | NQ-WL | PC | 1 | 3 | 2 | 4 | 2 | 12 |
| Escariadores | BQ-WL | PC | 2 | — | 2 | — | 3 | 7 |
| Zapata de revestimiento | HW | PC | — | — | — | — | — | — |
| Zapata de revestimiento | NW | PC | 1 | 1 | 1 | 1 | 1 | 5 |
| Zapata de revestimiento | BW | PC | 1 | — | 1 | — | 1 | 3 |
| Tubo externo | HQ-WL | Juego | — | — | — | — | — | — |
| Tubo externo | NQ-WL | Juego | 1 | 1 | 1 | 1 | 1 | 5 |
| Tubo externo | BQ-WL | Juego | 1 | — | 1 | — | 1 | 3 |
| Tubo interno | HQ-WL | Juego | — | — | — | — | — | — |

(2)

| Artículo | Especificaciones | Unidad | C a n t i d a d | | | | | Total |
|------------------------------------|------------------|--------|-----------------|--------|--------|--------|--------|-------|
| | | | MJHS-1 | MJHS-2 | MJHS-3 | MJHS-4 | MJHS-5 | |
| Tubo interno | NQ-WL | Juego | 1 | 1 | 1 | 1 | 1 | 5 |
| Tubo interno | BQ-WL | Juego | 1 | — | 1 | — | 1 | 3 |
| Caja extractora | HQ-WL | PC | — | — | — | — | — | — |
| Caja extractora | NQ-WL | PC | 1 | 2 | 1 | 2 | 1 | 7 |
| Caja extractora | BQ-WL | PC | 1 | — | 2 | — | 2 | 5 |
| Resorte | HQ-WL | PC | — | — | — | — | — | — |
| Resorte | NQ-WL | PC | 2 | 3 | 2 | 3 | 2 | 12 |
| Resorte | BQ-WL | PC | 2 | — | 2 | — | 2 | 6 |
| Empaquetaduras de bomba piston | | PC | 1 | 1 | 1 | 1 | 1 | 5 |
| Filtro de aceite | | PC | 1 | 1 | 1 | 1 | 1 | 5 |
| Empaquetaduras de cabeza inyección | | PC | 1 | 2 | 1 | 2 | 1 | 7 |
| Manguera de succión | | PC | 1 | — | — | — | — | 1 |
| Porta retén | HQ-WL | PC | — | — | — | — | — | — |
| Porta retén | NQ-WL | PC | 2 | 3 | 2 | 3 | 2 | 12 |
| Porta retén | BQ-WL | PC | 2 | — | 2 | — | 2 | 6 |
| Alambre | # 12 | Kg | 10 | 10 | 10 | 10 | 10 | 50 |
| Cable | 6 mm | m | 400 | 400 | — | — | 400 | 1,200 |
| Trapo | | Kg | 3 | 4 | 3 | 5 | 3 | 18 |
| Caja de testigos | 116 mm | PC | 5 | 5 | 3 | 2 | 3 | 18 |
| Caja de testigos | NQ | PC | 24 | 39 | 24 | 24 | 28 | 136 |
| Caja de testigos | BQ | PC | 15 | — | 18 | — | 13 | 46 |

AP. 3-5 CUADRO DE ANOTACIONES DEL USO DE LAS BROCAS DE DIAMANTE

(1)

| Articulo | Tamano | Tipo | Broca No. | Metraje De Perforacion Por Pozo | | | | | Total |
|----------------|------------|------|-----------|---------------------------------|--------|--------|--------|--------|----------|
| | | | | Unidad Metro | | | | | |
| | | | | MJHS-1 | MJHS-2 | MJHS-3 | MJHS-4 | MJHS-5 | |
| 116mm Metal | 116mm | | No.1 | 30.00 | | | | | 30.00 |
| | | | No.2 | | 30.00 | | | | 30.00 |
| | | | No.3 | | | 15.00 | | | 15.00 |
| | | | No.4 | | | | 9.00 | | 9.00 |
| | | | No.5 | | | | | 18.00 | 18.00 |
| NQ | NQ-WL | E | 16001 | 31.30 | | | | | 31.30 |
| | " | " | 16002 | 33.75 | | | | | 33.75 |
| | " | " | 16003 | 37.10 | | | | | 37.10 |
| | " | " | 16004 | 36.20 | | | | | 36.20 |
| | " | " | 16005 | 30.40 | | | | | 30.40 |
| | " | " | 16006 | | 34.00 | | | | 34.00 |
| | " | " | 16007 | | 33.50 | | | | 33.50 |
| | " | " | 16008 | | 40.00 | | | | 40.00 |
| | " | " | 16009 | | 30.50 | | | | 30.50 |
| | " | " | 16010 | | 30.75 | | | | 30.75 |
| | " | " | 16011 | | 35.80 | | | | 35.80 |
| | " | " | 16012 | | 33.75 | | | | 33.75 |
| | " | " | 16013 | | 31.70 | | | | 31.70 |
| | " | " | 16014 | | | 35.30 | | | 35.30 |
| | " | " | 16015 | | | 34.70 | | | 34.70 |
| | " | " | 16016 | | | 33.00 | | | 33.00 |
| | " | " | 16017 | | | 31.30 | | | 31.30 |
| | " | " | 16018 | | | 30.70 | | | 30.70 |
| | " | " | 16019 | | | | 35.30 | | 35.30 |
| | " | " | 16020 | | | | 31.50 | | 31.50 |
| | " | " | 16021 | | | | 33.30 | | 33.30 |
| | " | " | 16022 | | | | 30.60 | | 30.60 |
| | " | " | 16023 | | | | 26.00 | | 26.00 |
| | " | " | 16024 | | | | 29.20 | | 29.20 |
| | " | " | 16025 | | | | 31.70 | | 31.70 |
| | " | " | 16026 | | | | 24.80 | | 24.80 |
| | " | " | 16027 | | | | 30.30 | | 30.30 |
| | " | " | 16028 | | | | 18.70 | | 18.70 |
| | " | " | 16029 | | | | | 38.10 | 38.10 |
| | " | " | 16030 | | | | | 35.60 | 35.60 |
| | " | " | 16031 | | | | | 21.00 | 21.00 |
| | " | " | 16032 | | | | | 30.50 | 30.50 |
| | " | " | 16033 | | | | | 16.20 | 16.20 |
| | | | Total | 198.75 | 300.00 | 180.00 | 300.40 | 159.40 | 1,138.55 |
| | Gran Total | | | 198.75 | 300.00 | 180.00 | 300.40 | 159.40 | 1,138.55 |

(2)

| Artículo | Tamato | Tipo | Broca No | Metraje De Perforación Por Pozo | | | | | Total |
|----------|--------|-------|-------------|---------------------------------|--------|--------|--------|--------|---------|
| | | | | Unidad Metro | | | | | |
| | | | | MJHS-1 | MJHS-2 | MJHS-3 | MJHS-4 | MJHS-5 | |
| BQ | BQ-WL | E | 36110 | 35.05 | | | | | 35.05 |
| | " | " | 36111 | 33.90 | | | | | 33.90 |
| | " | " | 36112 | 32.60 | | | | | 32.60 |
| | " | " | 36113 | | | 34.80 | | | 34.80 |
| | " | " | 36114 | | | 32.20 | | | 32.20 |
| | " | " | 36115 | | | 29.00 | | | 29.00 |
| | " | " | 36116 | | | 24.30 | | | 24.30 |
| | " | " | 36117 | | | | | 19.20 | 19.20 |
| | " | " | 36118 | | | | | 28.40 | 28.40 |
| | " | " | 36119 | | | | | 26.60 | 26.60 |
| | " | " | 36120 | | | | | 16.20 | 16.20 |
| | | | Total | 101.55 | - | 120.30 | - | 90.40 | 312.25 |
| | Gran | Total | | 300.30 | 300.00 | 300.30 | 300.40 | 249.80 | 1450.80 |

- AP. 3-6-1 Cuadro de los resultados operacionales de la perforación (MJHS-1)**
- AP. 3-6-2 Cuadro de los resultados operacionales de la perforación (MJHS-2)**
- AP. 3-6-3 Cuadro de los resultados operacionales de la perforación (MJHS-3)**
- AP. 3-6-4 Cuadro de los resultados operacionales de la perforación (MJHS-4)**
- AP. 3-6-5 Cuadro de los resultados operacionales de la perforación (MJHS-5)**

AP.3-6-1 CUADRO DE LOS RESULTADOS OPERACIONALES DE LA PERFORACION (MJHS-1)

| Periodo de trabajo | Periodo | | No. de días | Días actuales de trabajados | Día libre | Total de trabajadores | | |
|-------------------------|--|---|---------------------------------|-----------------------------|---|-----------------------------------|-------------------|----------------|
| | Preparación | 28de Set. '96~11de Oct. '96 | | 14 | 13 | 1 | 104 Personas | |
| | Perforación | 12de Oct. '96~ 5de Nov. '96 | | 25 | 25 | - | 410 | |
| | Traslado | 6de Nov. '96~ 8de Nov. '96 | | 3 | 3 | - | 54 | |
| | Total | 28de Set. '96~ 8de Nov. '96 | | 42 | 41 | 1 | 568 | |
| Longitud de perforacion | Longitud planeada | m 300.00 | Material estéril | m - | Recuperación de testigos por cada sección de 100m | | | |
| | Incremento o decrecimiento en longitud | m - | Longitud de testigo | m 283.05 | Profundidad del pozo (m) | Sección (%) | Total (%) | |
| | Longitud perforada | m 300.30 | Recuperación de testigos | 94.3% | 0.00~100.00 | 94.7 | 94.7 | |
| Tiempo de trabajo | Perforación | 173°00' | 28.8% | 26.1% | 200.00~300.30 | 91.7 | 94.3 | |
| | Levantado y bajado tuberías | 36°00' | 6.0% | 5.4% | | | | |
| | Lavantado y bajado T.I. | 309°00' | 51.5% | 46.5% | | | | |
| | Miscelánea | 10°00' | 1.7% | 1.5% | Eficiencia en perforación | | | |
| | Reparación | 24°00' | 4.0% | 3.6% | 300.30m/Periodo de trabajo | | 7.15m/día | |
| | Otros | 48°00' | 8.0% | 7.3% | 300.30m/Días trabajados | | 7.32m/día | |
| | Total | 600°00' | 100.0% | 90.4% | 300.30m/Periodo de perforación | | 12.01m/día | |
| | Traslado | Preparación | 56°00' | - | 8.4% | 300.30m/Días netos de perforación | | 12.01m/día |
| | | Traslado | 8°00' | - | 1.2% | Total de Trabajadores/300.30m | | 1.89 Persona/m |
| | G. Total | 664°00' | - | 100.0% | Total de Trabajadores de perforación/300.30m | | 1.36 Persona/m | |
| Tubería Casing Colocada | Tamaño de la tubería y metraje | Longitud colocada ----- ×100% Longitud perforada | Reperación de tubería de Casing | | Levantado y bajado tuberías 12 veces | Levantado y bajado T.I. 159 veces | | |
| | NW 30.00 m | 10.0 % | 100.0 % | | <u>Observaciones</u> | | | |
| | BW 198.00 m | 66.0 % | 54.0 % | | | | | |
| | | | | | | | | |

AP.3-6-2 CUADRO DE LOS RESULTADOS OPERACIONALES DE LA PERFORACION (MJHS-2)

| Período de trabajo | Período | | No. de días | Días actuales de trabajados | Día libre | Total de trabajadores | | |
|-------------------------|--|--|---------------------------------|-----------------------------|---|-----------------------------------|-----------------------|----------------|
| | Preparación | 6de Oct. '96~27de Oct. '96 | | 22 | 22 | - | 387 Personas | |
| | Perforación | 28de Oct. '96~22de Nov. '96 | | 26 | 26 | - | 472 | |
| | Traslado | 23de Nov. '96~24de Nov. '96 | | 2 | 2 | - | 32 | |
| | Total | 6de Oct. '96~24de Nov. '96 | | 50 | 50 | - | 891 | |
| Longitud de perforación | Longitud planeada | 300.00 m | Material estéril | - | Recuperación de testigos por cada sección de 100m | | | |
| | Incremento o decrecimiento en longitud | - | Longitud de testigo | 284.70 m | Profundidad del pozo (m) | Sección (%) | Total (%) | |
| | Longitud perforada | 300.00 m | Recuperación de testigos | 94.9% | 0.00~100.00 | 99.7 | 99.7 | |
| | | | | | 100.00~200.00 | 98.3 | 99.0 | |
| Tiempo de trabajo | Perforación | 216°00' | 30.0% | 27.6% | 200.00~300.00 | 86.7 | 94.4 | |
| | Levantado y bajado tuberías | 16°00' | 2.2% | 2.0% | | | | |
| | Lavado y bajado T.I. | 318°00' | 44.2% | 40.6% | | | | |
| | Miscelánea | 2°00' | 0.2% | 0.2% | Eficiencia en perforación | | | |
| | Reparación | 40°00' | 5.6% | 5.1% | 300.00m/Periodo de trabajo | | 6.00m/día | |
| | Otros | 128°00' | 17.8% | 16.3% | 300.00m/Días trabajados | | 6.00m/día | |
| | Total | 720°00' | 100.0% | 91.8% | 300.00m/Periodo de perforación | | 11.53m/día | |
| | Traslado | Preparación | 48°00' | - | 6.1% | 300.00m/Días netos de perforación | | 11.53m/día |
| | | Traslado | 16°00' | - | 2.1% | Total de Trabajadores/300.00m | | 2.97 Persona/m |
| | G. Total | 784°00' | - | 100.0% | Total de Trabajadores de perforación/300.00m | | 1.57 Persona/m | |
| Tubería Casing Colocada | Tamaño de la tubería y metraje | Longitud colocada ----- Longitud perforada | Reperación de tubería de Casing | | Levantado y bajado tuberías 16 veces | Levantado y bajado T.I. 152 veces | | |
| | NW 30.00 m | 10.0 % | 100.0 % | | Observaciones | | | |
| | | | | | | | | |

AP.3-6-3 CUADRO DE LOS RESULTADOS OPERACIONALES DE LA PERFORACION (MJHS-3)

| Periodo do trabajo | Período | | No. de días | Días actuales de trabajados | Día libre | Total de trabajadores | | |
|-------------------------|--|--|---------------------------------|-----------------------------|---|-----------------------------------|----------------|----------------|
| | Preparación | 9de Nov. '96~13de Nov. '96 | | 5 | 5 | - | 90 Personas | |
| | Perforación | 14de Nov. '96~ 1de Dic. '96 | | 18 | 18 | - | 318 | |
| | Traslado | 2de Dic. '96~ 3de Dic. '96 | | 2 | 2 | - | 30 | |
| | Total | 9de Nov. '96~ 3de Dic. '96 | | 25 | 25 | - | 438 | |
| Longitud de perforación | Longitud planeada | n 300.00 | Material estéril | m - | Recuperación de testigos por cada sección de 100m | | | |
| | Incremento o decrecimiento en longitud | m - | Longitud de testigo | m 292.90 | Profundidad del pozo (m) | Sección (%) | Total (%) | |
| | Longitud perforada | n 300.00 | Recuperación de testigos | m 97.5% | 0.00~100.00 | 94.7 | 94.7 | |
| | | | | | 100.00~200.00 | 97.9 | 96.3 | |
| Tiempo de trabajo | Perforación | 170°00' | 39.0% | 36.0% | 200.00~300.00 | 100.0 | 97.5 | |
| | Levantado y bajado tuberías | 27°00' | 6.2% | 5.8% | | | | |
| | Lavariado y bajado T.I. | 193°00' | 44.3% | 40.9% | | | | |
| | Miscelánea | 10°00' | 2.3% | 2.1% | Eficiencia en perforación | | | |
| | Reparación | 16°00' | 3.7% | 3.4% | 300.30m/Periodo de trabajo | | 12.01m/día | |
| | Otros | 20°00' | 4.5% | 4.2% | 300.30m/Días trabajados | | 12.01m/día | |
| | Total | 436°00' | 100.0% | 92.4% | 300.30m/Periodo de perforación | | 16.68m/día | |
| | Traslado | Preparación | 20°00' | . % | 4.2% | 300.30m/Días netos de perforación | | 16.68m/día |
| | | Traslado | 16°00' | . % | 3.4% | Total de Trabajadores/300.30m | | 1.46 Persona/m |
| | G. Total | 472°00' | . % | 100.0% | Total de Trabajadores de perforación/300.30m | | 1.05 Persona/m | |
| Tubería Casing Colocada | Tamaño de la tubería y metraje | Longitud colocada ----- Longitud perforada | Reperación de tubería de Casing | | Levantado y bajado tuberías 16 veces | Levantado y bajado T.I. 177 veces | | |
| | NW 15.00 m | 5.0 % | 100.0 % | | Observaciones | | | |
| | BW 180.00 m | 59.9 % | 25.0 % | | | | | |
| | | | | | | | | |
| | | | | | | | | |

AP.3-6-4 CUADRO DE LOS RESULTADOS OPERACIONALES DE LA PERFORACION (MJHS-4)

| Periodo de trabajo | Periodo | | No. de dias | Dias actuales de trabajados | Día libre | Total de trabajadores | | |
|-------------------------|--|-----------------------------|--------------------------|-----------------------------------|---|-----------------------------------|----------------|--|
| | Preparación | 25de Nov. '96~29de Nov. '96 | | 4.3 | 4.3 | - | 83 Personas | |
| | Perforación | 29de Nov. '96~20de Dic. '96 | | 21.7 | 21.7 | - | 400 | |
| | Traslado | 21de Dic. '96~26de Dic. '96 | | 6.0 | 6.0 | - | 113 | |
| | Total | 25de Nov. '96~26de Dic. '96 | | 32.0 | 32.0 | - | 596 | |
| Longitud de perforación | Longitud planeada | 300.00 m | Material estéril | - | Recuperación de testigos por cada sección de 100m | | | |
| | Incremento o decrecimiento en longitud | - | Longitud de testigo | 295.80 m | Profundidad del pozo (m) | Sección (%) | Total (%) | |
| | Longitud perforada | 300.40 m | Recuperación de testigos | 98.5% | 0.00~100.00 | 97.5 | 97.5 | |
| Tiempo de trabajo | Perforación | 201°00' | 36.7% | 34.0% | 100.00~200.00 | 99.2 | 98.4 | |
| | Levantado y bajado tuberías | 30°00' | 5.5% | 5.1% | 200.00~300.00 | 98.9 | 98.5 | |
| | Lavado y bajado T.I. | 254°00' | 46.4% | 42.9% | Eficiencia en perforación | | | |
| | Miscelánea | 2°00' | 0.4% | 0.3% | 300.40m/Periodo de trabajo | | | |
| | Reparación | 20°00' | 3.7% | 3.4% | 9.38m/día | | | |
| | Otros | 40°00' | 7.3% | 6.7% | 300.40m/Dias trabajados | | | |
| | Total | 547°00' | 100.0% | 92.4% | 300.40m/Periodo de perforación | | | |
| | Traslado | Preparación | 24°00' | - | 4.1% | 300.40m/Dias netos de perforación | | |
| | | Traslado | 21°00' | - | 3.5% | 13.84m/día | | |
| | G. Total | 592°00' | - | 100.0% | Total de Trabajadores/300.40m | | | |
| Tubería Casing Colocada | Tamaño de la tubería y metraje | | Longitud colocada ×100% | Recuperación de tubería de Casing | Total de Trabajadores de perforación/300.40m | | 1.33 Persona/m | |
| | NW | 18.00 m | 6.0 % | 100.0% | Levantado y bajado tuberías 20 veces | Levantado y bajado T.I. 186 veces | | |
| | | | | | Observaciones | | | |
| | | | | | | | | |

AP.3-6-5 CUADRO DE LOS RESULTADOS OPERACIONALES DE LA PERFORACION (MJHS-5)

| Periodo de trabajo | Periodo | | No. de dtas | Días actuales de trabajados | Día libre | Total de trabajadores | | |
|-------------------------|--|---|---------------------------------|-----------------------------|---|-----------------------------------|-----------------------------------|----------------|
| | Preparación | 4de Dic. '96~ 5de Dic. '96 | | 1.7 | 1.7 | - | 24 Personas | |
| | Perforación | 5de Dic. '96~ 5de Ene. '97 | | 31.3 | 30.6 | 0.7 | 552 | |
| | Traslado | 6de Ene. '97~15de Ene. '97 | | 10.0 | 10.0 | - | 180 | |
| | Total | 4de Dic. '96~15de Ene. '97 | | 43.0 | 42.3 | 0.7 | 756 | |
| Longitud de perforación | Longitud planeada | m 300.00 | Material estéril | m - | Recuperación de testigos por cada sección de 100m | | | |
| | Incremento o decrecimiento en longitud | m -50.20 | Longitud de testigo | m 244.60 | Profundidad del pozo (m) | Sección (%) | Total (%) | |
| | Longitud perforada | m 249.80 | Recuperación de testigos | % 97.9% | 0.00~100.00 | 99.7 | 99.7 | |
| Tiempo de trabajo | Perforación | 136°00' | 17.3% | 16.3% | 200.00~249.80 | 98.6 | 97.9 | |
| | Levantado y bajado tuberías | 54°00' | 6.9% | 6.5% | | | | |
| | Lavantado y bajado T.I. | 420°00' | 53.5% | 50.5% | | | | |
| | Miscelánea | 10°00' | 1.3% | 1.2% | Eficiencia en perforación | | | |
| | Reparación | 100°00' | 12.8% | 12.0% | 249.80m/Periodo de trabajo | | 5.80m/día | |
| | Otros | 64°00' | 8.2% | 7.7% | 249.80m/Días trabajados | | 5.90m/día | |
| | Total | 784°00' | 100.0% | 94.2% | 249.80m/Periodo de perforación | | 7.98m/día | |
| | Traslado | Preparación | 24°00' | - | 2.9% | 249.80m/Días netos de perforación | | 8.16m/día |
| | | Traslado | 24°00' | - | 2.9% | Total de Trabajadores/249.80m | | 3.02 Persona/m |
| | G. Total | 832°00' | - | 100.0% | Total de Trabajadores de perforación/249.80m | | 2.20 Persona/m | |
| Tubería Casing Colocada | Tamaño de la tubería y metraje | Longitud colocada -----×100% Longitud perforada | Reperación de tubería de Casing | | Levantado y bajado tuberías 18 veces | | Levantado y bajado T.I. 166 veces | |
| | NW 18.00 m | 7.2 % | 100.0 % | | Observaciones | | | |
| | BW 159.60 m | 63.9 % | 37.0 % | | | | | |
| | | | | | | | | |
| | | | | | | | | |

AP. 3-7-1 Cuadro de los resultados de los estudios por perforación MJHS-1

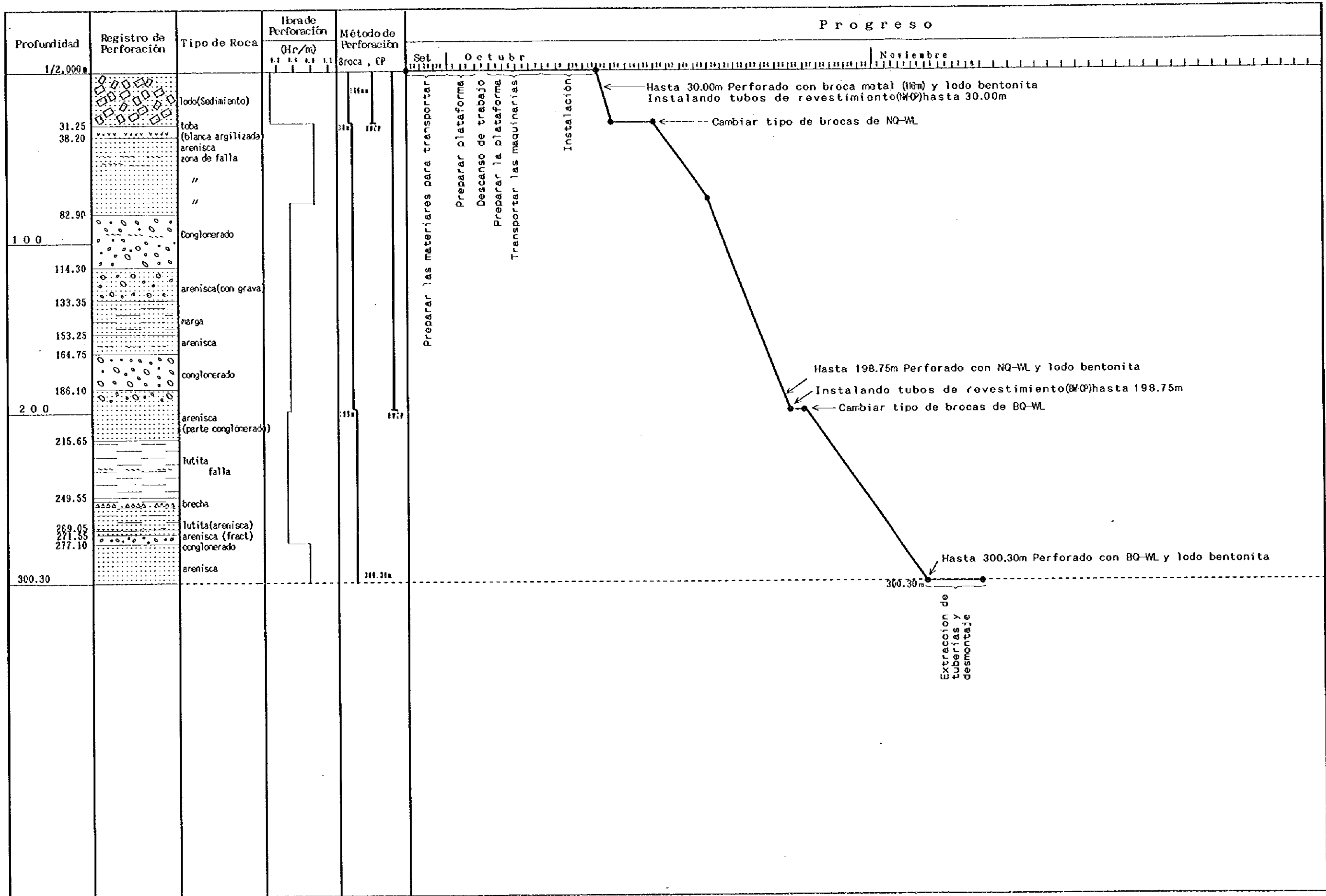
AP. 3-7-2 Cuadro de los resultados de los estudios por perforación MJHS-2

AP. 3-7-3 Cuadro de los resultados de los estudios por perforación MJHS-3

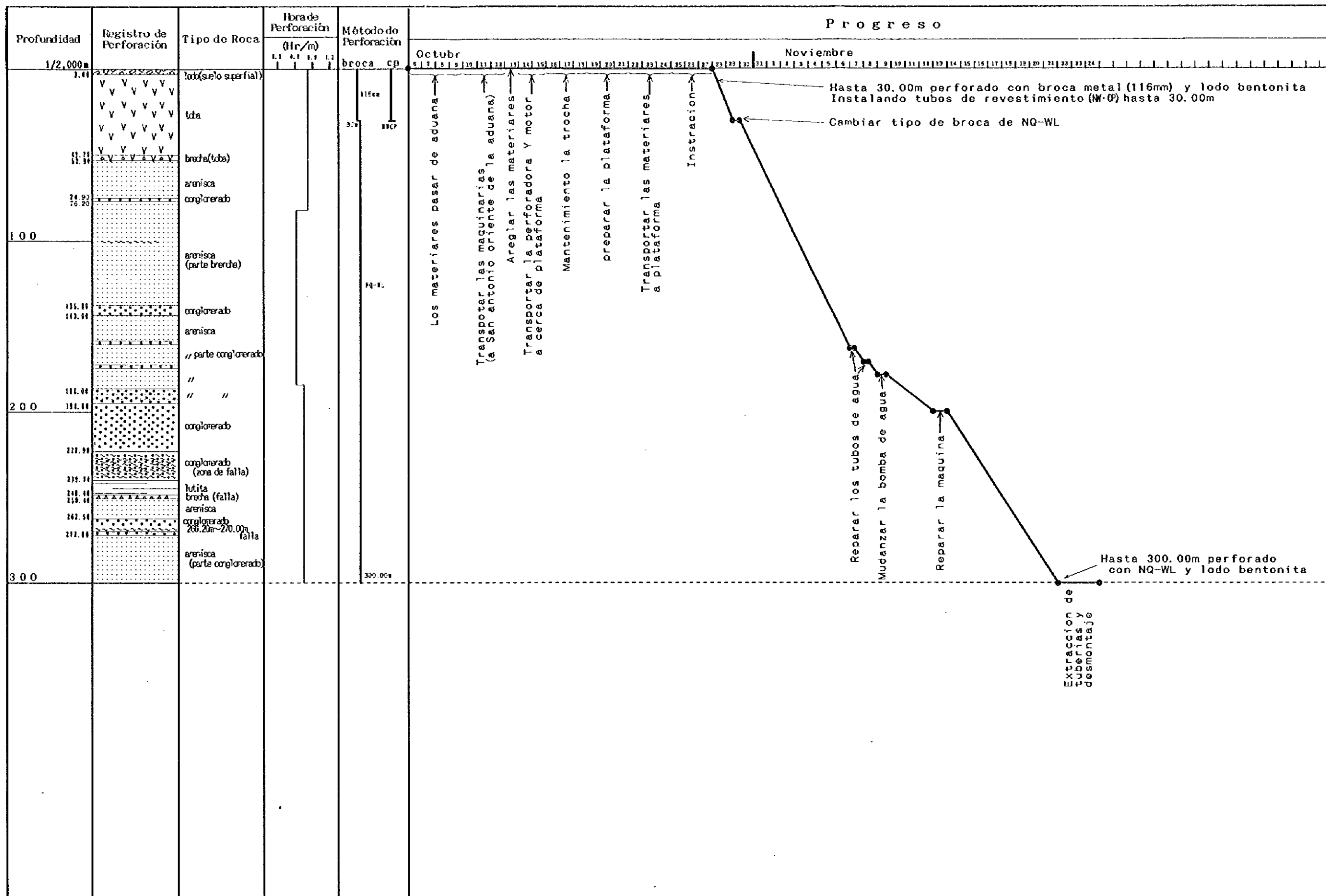
AP. 3-7-4 Cuadro de los resultados de los estudios por perforación MJHS-4

AP. 3-7-5 Cuadro de los resultados de los estudios por perforación MJHS-5

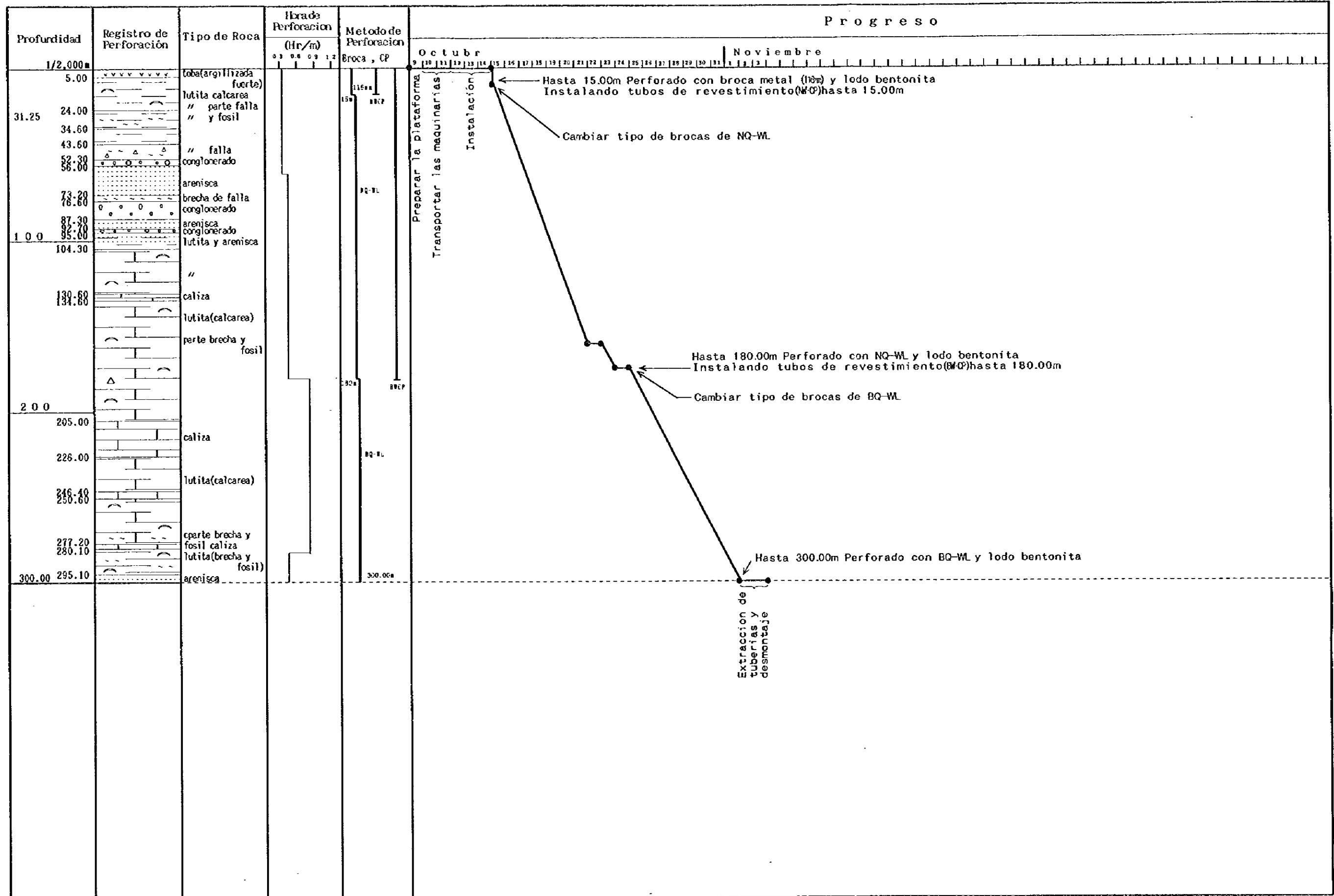
AP. 3-7-1 Cuadro de los resultados de los estudios por perforación MJHS-1



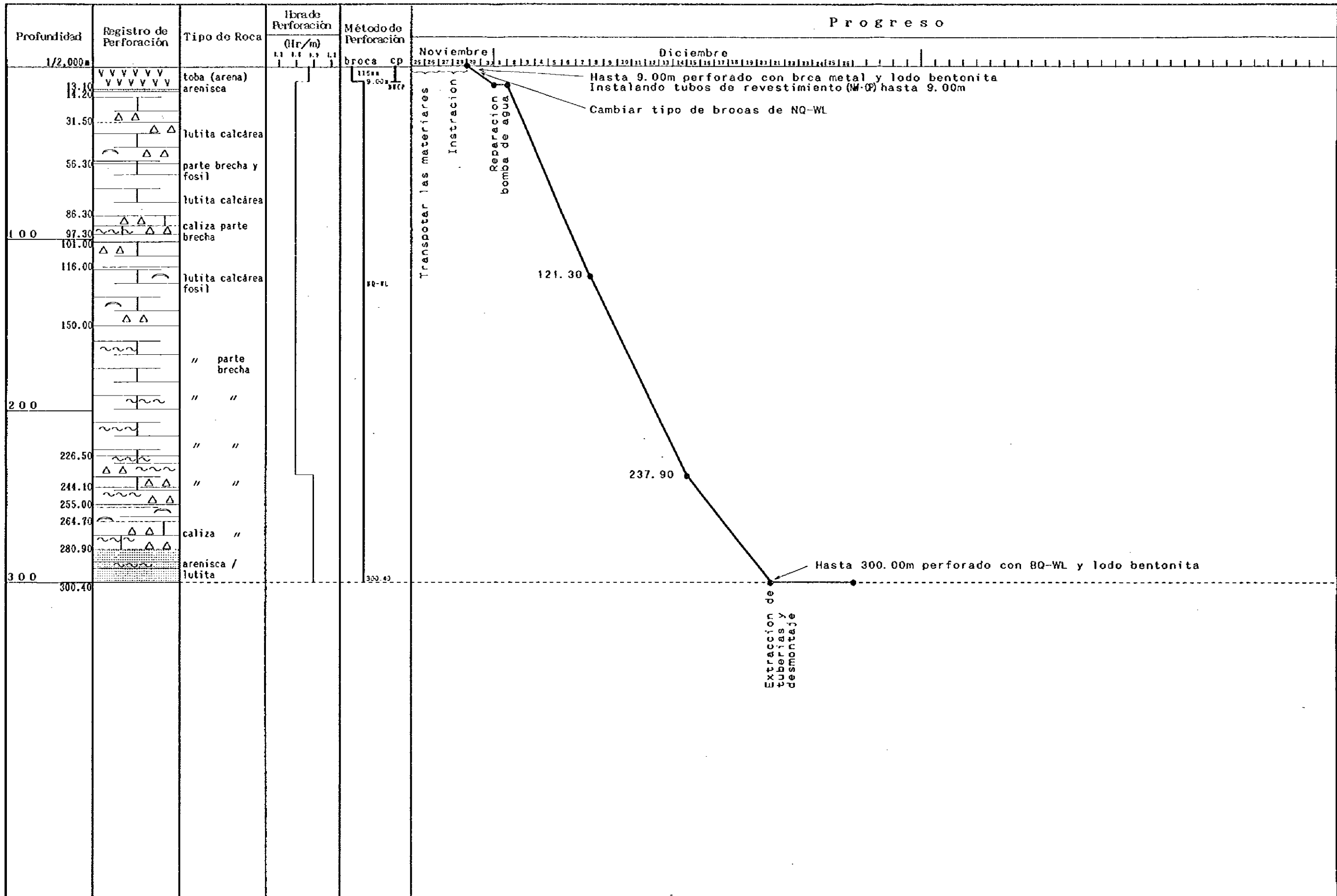
AP. 3-7-2 Cuadro de los resultados de los estudios por perforación MJHS-2



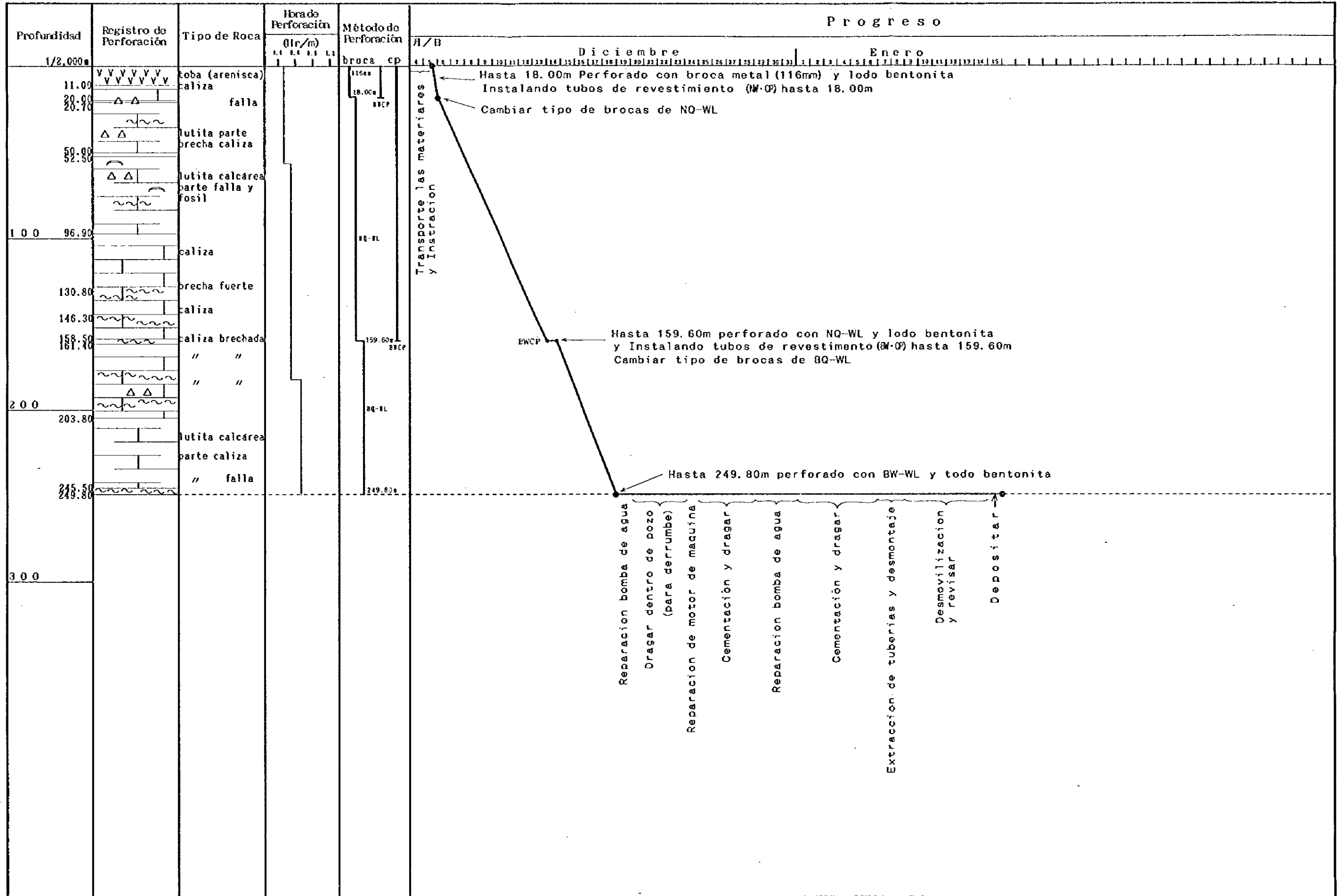
AP. 3-7-3 Cuadro de los resultados de los estudios por perforación MJHS-3



AP. 3-7-4 Cuadro de los resultados de los estudios por perforación MJHS-4



AP. 3-7-5 Cuadro de los resultados de los estudios por perforación MJ-IS-5

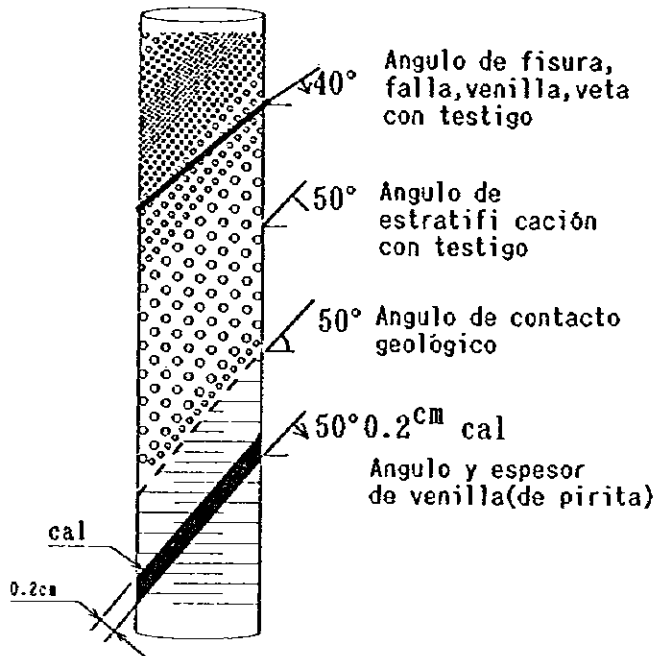


- AP. 3-8.1 Columna de perforación (MJHS-1)**
- AP. 3-8.2 Columna de perforación (MJHS-2)**
- AP. 3-8.3 Columna de perforación (MJHS-3)**
- AP. 3-8.4 Columna de perforación (MJHS-4)**
- AP. 3-8.5 Columna de perforación (MJHS-5)**

DESCRIPCION GEOLOGICA DE POZO

LEYENDA

| | |
|---|-----------------------|
|  | Sin testigo |
|  | Terraza fluvial |
|  | Tobas |
|  | Brecha tobacea |
|  | lutita o Marga |
|  | Lutita calcárea |
|  | Arenisca |
|  | Conglomerado |
|  | Caliza |
|  | Zona fracturada |
|  | brecha |
|  | fosil |
|  | Contacto concordancia |
|  | Contacto discordancia |
|  | Contacto con fisura |



abreviación

| | |
|-----|--------------|
| py | : pirita |
| sp | : esfalerita |
| gn | : galena |
| hem | : hematita |
| cal | : calcita |
| qz | : cuarzo |
| cl | : arcilla |
| bx | : brecha |



AP. 3-8.1 Coluina de perforación (MJHS-1)

HONDURAS SAN ANTONIO PROYECTO

MJHS - 1

COORDENADAS: X 2.398 COTA : 1.160m
Y 162 N RUMBO : -

INCLINACIÓN: -90°
LONGITUD : 300.30m

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCIÓN | | ENSAYO | | | | | | | | | | | | | | | |
|-----------|-------------------|---|---|-------------------|----------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|--|
| | | GEOLOGIA | MINERALIZACIÓN | PROF. # | ESPEZ. # | Au (g/t) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | Pb (ppm) | Cu (ppm) | |
| 0 | [Dotted pattern] | lodo (terrazas) | | | | | | | | | | | | | | | | | |
| 10 | | " | | | | | | | | | | | | | | | | | |
| 20 | | " | | | | | | | | | | | | | | | | | |
| 30 | | " | | | | | | | | | | | | | | | | | |
| 31.50 | | " | gravas de ignimbrita naranja y loba blanca | | | | | | | | | | | | | | | | |
| 32.50 | | " | lobo blanca argilizada | pirita diseminada | | | | | | | | | | | | | | | |
| 33.50 | | " | " | " | | | | | | | | | | | | | | | |
| 34.50 | | " | " | " | | | | | | | | | | | | | | | |
| 35.50 | | " | " | " | | | | | | | | | | | | | | | |
| 36.50 | | " | arenisca gris clara grano gruesa | " | | | | | | | | | | | | | | | |
| 40 | " | " | " | | | | | | | | | | | | | | | | |
| 45 | " | " | " | | | | | | | | | | | | | | | | |
| 50 | " | zona de fallas con arenilla | " | | | | | | | | | | | | | | | | |
| 55 | " | " | " | | | | | | | | | | | | | | | | |
| 56 | " | arenisca blanca grano medio | " | | | | | | | | | | | | | | | | |
| 57 | " | arenisca arcillosa grano grueso- medio (parte grava de qz) | " | | | | | | | | | | | | | | | | |
| 60 | " | " | " | | | | | | | | | | | | | | | | |
| 65 | " | " | " | | | | | | | | | | | | | | | | |
| 67 | " | grano medio-fino | " | | | | | | | | | | | | | | | | |
| 70 | " | grano grueso part. grava de qtz (< 0.1 mm) | " | | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|--|--|---------|-----------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. m | ESPESES a | As (g/l) | Hg (g/l) | Cu (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Cu (ppm) |
| 70 | | arenisca arcósica grano grueso | | | | | | | | | | | | | | | | |
| 80 | | " | " | | | | | | | | | | | | | | | |
| 85 | | conglomerado blanco granulo-cascajo de qz, sh, ss | " | | | | | | | | | | | | | | | |
| 90 | | " | " | | | | | | | | | | | | | | | |
| 95 | | " | " | | | | | | | | | | | | | | | |
| 100 | | zona de falla | " | | | | | | | | | | | | | | | |
| 105 | | conglomerado gris claro (granulo-cascajo argilizado) | poca pirita dis. | | | | | | | | | | | | | | | |
| 110 | | trapel fuerte | " | | | | | | | | | | | | | | | |
| 115 | | " | " | | | | | | | | | | | | | | | |
| 120 | | arenisca arcósica grano fino | pirita dis. | | | | | | | | | | | | | | | |
| 125 | | arenisca arcósica (grano medio-grueso) | " | | | | | | | | | | | | | | | |
| 130 | | conglomerado marrón claro, argilizado, fall. | " | | | | | | | | | | | | | | | |
| 135 | | arenisca gris clara | poca pirita dis. | | | | | | | | | | | | | | | |
| 140 | | conglomerado blanco duro grava abundante | " | | | | | | | | | | | | | | | |
| 145 | | " | " | | | | | | | | | | | | | | | |
| 150 | | arenisca gris clara grano fino-medio fino | pirita dis y stockwork (venilla) | | | | | | | | | | | | | | | |
| 155 | | arenisca gris clara con arena arcósica sobre carga gris marrón verdosa | poca pirita pirita dis y stockwork (venilla) | | | | | | | | | | | | | | | |
| 160 | | " | " | | | | | | | | | | | | | | | |
| 165 | | conglomerado marrón carga gris arcillosa conglomerado gris claro verdoso | pirita dis y stockwork (venilla) | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|--|---------------------------------|---------|-----------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PRUF. n | ESPESS. n | As (g/t) | Ag (g/t) | Ce (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | Fe (ppm) | Ca (ppm) |
| 140.00 | | conglomerado gris claro arenisca gris clara, (grano grueso, part. grava) | pirita dis | | | | | | | | | | | | | | | |
| 141.50 | | conglomerado gris claro arenilloso grava (sh, qz, ss) | " | | | | | | | | | | | | | | | |
| 147.05 | | marga gris clara verdosa | pirita dis, stockwork (venilla) | | | | | | | | | | | | | | | |
| 150.00 | | arenisca gris clara, botix | pirita dis | | | | | | | | | | | | | | | |
| 151.00 | | conglomerado oscuro gris | " | | | | | | | | | | | | | | | |
| 152.00 | | marga gris clara | " | | | | | | | | | | | | | | | |
| 153.00 | | marga marron rosada | " | | | | | | | | | | | | | | | |
| 154.00 | | arenisca marron rosada | " | | | | | | | | | | | | | | | |
| 155.00 | | conglomerado | choco arenca | | | | | | | | | | | | | | | |
| 156.00 | | marga marron rosada | " | | | | | | | | | | | | | | | |
| 157.00 | | arenisca marron rosada | " | | | | | | | | | | | | | | | |
| 158.00 | | falla? argilizada | " | | | | | | | | | | | | | | | |
| 159.00 | | arenisca gris, rosada | pirita dis | | | | | | | | | | | | | | | |
| 160.00 | | conglomerado gris rosado | " | | | | | | | | | | | | | | | |
| 161.00 | | marga gris marronosa | " | | | | | | | | | | | | | | | |
| 162.00 | | argilizada, falla | " | | | | | | | | | | | | | | | |
| 163.00 | | arenisca gris clara | " | | | | | | | | | | | | | | | |
| 164.00 | | conglomerado gris, dura | " | | | | | | | | | | | | | | | |
| 165.00 | | arenisca gris clara | " | | | | | | | | | | | | | | | |
| 166.00 | | conglomerado gris claro grava abundante ($\phi 5^m$) | poca pirita dis | | | | | | | | | | | | | | | |
| 170.00 | | " | " | | | | | | | | | | | | | | | |
| 171.00 | | " | " | | | | | | | | | | | | | | | |
| 172.00 | | " | " | | | | | | | | | | | | | | | |
| 173.00 | | " | " | | | | | | | | | | | | | | | |
| 174.00 | | " | " | | | | | | | | | | | | | | | |
| 175.00 | | " | " | | | | | | | | | | | | | | | |
| 176.00 | | " | " | | | | | | | | | | | | | | | |
| 177.00 | | " | " | | | | | | | | | | | | | | | |
| 178.00 | | arenisca gris clara, fina | pirita dis | | | | | | | | | | | | | | | |
| 179.00 | | conglomerado gris claro ($\phi 5^m$, qz, ss, sh) grava abund | poca pirita dis | | | | | | | | | | | | | | | |
| 180.00 | | " | " | | | | | | | | | | | | | | | |
| 181.00 | | arenisca gris clara, (grano grueso - fino) | pirita dis | | | | | | | | | | | | | | | |
| 182.00 | | conglomerado gris claro arenisca gris marronosa (grano fino) | " | | | | | | | | | | | | | | | |
| 183.00 | | conglomerado gris claro | " | | | | | | | | | | | | | | | |
| 184.00 | | arenisca gris clara arcillosa (grano fino-medio) | " | | | | | | | | | | | | | | | |
| 185.00 | | conglomerado arenisca gris clara arcillosa grano fino | " | | | | | | | | | | | | | | | |
| 186.00 | | arenisca gris clara arcillosa grano grueso-medio | " | | | | | | | | | | | | | | | |
| 187.00 | | " grano fino | " | | | | | | | | | | | | | | | |
| 188.00 | | " grano medio | " | | | | | | | | | | | | | | | |
| 189.00 | | " | " | | | | | | | | | | | | | | | |
| 190.00 | | " | " | | | | | | | | | | | | | | | |
| 191.00 | | marga gris | " | | | | | | | | | | | | | | | |
| 192.00 | | arenisca gris clara arcillosa (grano medio-fino) | " | | | | | | | | | | | | | | | |
| 193.00 | | " | " | | | | | | | | | | | | | | | |
| 194.00 | | gruesa/medio | " | | | | | | | | | | | | | | | |
| 195.00 | | " | " | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|---|-------------------|---------|---------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. # | ESPE. # | As (g/t) | Ag (g/t) | Cu (g) | Pb (g) | Zn (g) | Fa (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppm) | Cd (ppm) | Co (ppm) | Ga (ppm) |
| 210 | | 30" de conglomerado (d. 0.5") arenisca arenosa | " | | | | | | | | | | | | | | | |
| 212.75 | | lutita negra 10" | " | | | | | | | | | | | | | | | |
| 214.45 | | lutita negra 5" | " | | | | | | | | | | | | | | | |
| 216.45 | | conglomerado grueso lutita gris oscura - negra arenisca arenosa arenisca arenosa arenisca arenosa | " | | | | | | | | | | | | | | | |
| 220 | | lutita gris oscura masiva con calcita (venilla) | " | | | | | | | | | | | | | | | |
| 230 | | zona de falla | " | | | | | | | | | | | | | | | |
| 232.11 | | lutita gris oscura masiva | " | | | | | | | | | | | | | | | |
| 240 | | lutita gris oscura, calcarea (~calcita negra?) con calcita (venilla) | " | | | | | | | | | | | | | | | |
| 248 | | zona de falla (brecha) | " | | | | | | | | | | | | | | | |
| 250 | | brecha de falla | pirita diseminada | | | | | | | | | | | | | | | |
| 251.38 | | arenisca gris gruesa - media | noy poca pirita | | | | | | | | | | | | | | | |
| 253.95 | | lutita negra (30") | " | | | | | | | | | | | | | | | |
| 255.15 | | arenisca fina oscura | " | | | | | | | | | | | | | | | |
| 257.15 | | lutita negra (arenisca gris) | " | | | | | | | | | | | | | | | |
| 260 | | lutita gris oscura | " | | | | | | | | | | | | | | | |
| 264.45 | | lutita gris argilosa (masiva) | pirita dis | | | | | | | | | | | | | | | |
| 266.35 | | lutita gris | " | | | | | | | | | | | | | | | |
| 270 | | arenisca gris clara, fino arcasira, fract fuerte | " | | | | | | | | | | | | | | | |
| 276.55 | | conglomerado blanco (grava: max 0.5") | " | | | | | | | | | | | | | | | |
| 280 | | arenisca blanca gris clara, grano fino, arcasira | " | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | | |
|-----------|-------------------|----------------------------------|---|---------|----------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|--|
| | | GEOLOGIA | MINERALIZACION | PROF. m | ESPRS. m | As (g/l) | Ag (g/l) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Ca (ppm) | |
| 280 | | " | " | | | | | | | | | | | | | | | | |
| | | 0.5° clz | carb py | | | | | | | | | | | | | | | | |
| | | " | " | py | | | | | | | | | | | | | | | |
| | | fract fuerte | gn, sp (285.75) | | | | | | | | | | | | | | | | |
| | | " | " | " | | | | | | | | | | | | | | | |
| | | " | " | " | | | | | | | | | | | | | | | |
| 290 | | | " | py | | | | | | | | | | | | | | | |
| | | | " | py | | | | | | | | | | | | | | | |
| | | | " | py | | | | | | | | | | | | | | | |
| | | | arenisca gris clara (part 0.1-0.2cm lutita estrato) | " | | | | | | | | | | | | | | | |
| 297.10 | | " | py | | | | | | | | | | | | | | | | |
| 299.10 | | litol. negro/arenisca gris clara | py | | | | | | | | | | | | | | | | |
| 300 | | arenisca gris clara, fina | py | | | | | | | | | | | | | | | | |
| 300.10 | | Fin | | | | | | | | | | | | | | | | | |
| 310 | | | | | | | | | | | | | | | | | | | |
| 320 | | | | | | | | | | | | | | | | | | | |
| 330 | | | | | | | | | | | | | | | | | | | |
| 340 | | | | | | | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | | | | | | | |

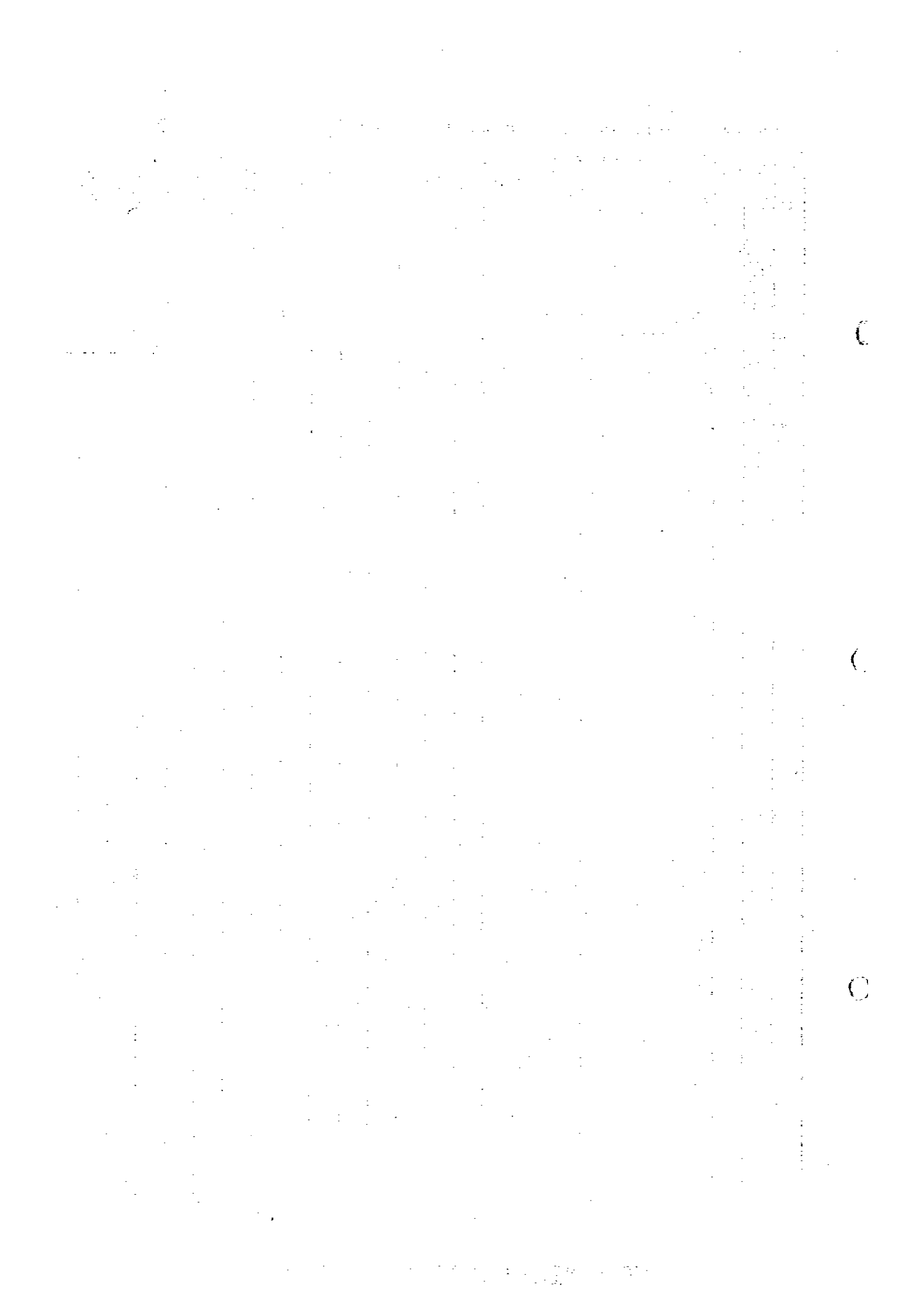
[The page contains extremely faint and illegible text, likely bleed-through from the reverse side of the document. The text is scattered across the page and cannot be transcribed accurately.]

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|-------------|----------------|---------|-----------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. # | ESPESES # | Au (g/L) | Ag (g/L) | Cu (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Ga (ppm) |
| 70 | | | | | | | | | | | | | | | | | | |
| 72.50 | | | | | | | | | | | | | | | | | | |
| 73.50 | | | | | | | | | | | | | | | | | | |
| 74.50 | | | | | | | | | | | | | | | | | | |
| 76.25 | | | | | | | | | | | | | | | | | | |
| 78.00 | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | |
| 81.50 | | | | | | | | | | | | | | | | | | |
| 83.50 | | | | | | | | | | | | | | | | | | |
| 84.50 | | | | | | | | | | | | | | | | | | |
| 86.50 | | | | | | | | | | | | | | | | | | |
| 88.50 | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | |
| 91.50 | | | | | | | | | | | | | | | | | | |
| 93.50 | | | | | | | | | | | | | | | | | | |
| 95.50 | | | | | | | | | | | | | | | | | | |
| 97.50 | | | | | | | | | | | | | | | | | | |
| 99.50 | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | |
| 101.50 | | | | | | | | | | | | | | | | | | |
| 103.50 | | | | | | | | | | | | | | | | | | |
| 105.50 | | | | | | | | | | | | | | | | | | |
| 107.50 | | | | | | | | | | | | | | | | | | |
| 109.50 | | | | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | | |
| 111.50 | | | | | | | | | | | | | | | | | | |
| 113.50 | | | | | | | | | | | | | | | | | | |
| 115.50 | | | | | | | | | | | | | | | | | | |
| 117.50 | | | | | | | | | | | | | | | | | | |
| 119.50 | | | | | | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | | | | | | |
| 121.50 | | | | | | | | | | | | | | | | | | |
| 123.50 | | | | | | | | | | | | | | | | | | |
| 125.50 | | | | | | | | | | | | | | | | | | |
| 127.50 | | | | | | | | | | | | | | | | | | |
| 129.50 | | | | | | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | | | | | |
| 131.50 | | | | | | | | | | | | | | | | | | |
| 133.50 | | | | | | | | | | | | | | | | | | |
| 135.50 | | | | | | | | | | | | | | | | | | |
| 137.50 | | | | | | | | | | | | | | | | | | |
| 139.50 | | | | | | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|-------------|--|-----------------|-----------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. # | ESPESES # | Au (g/t) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppm) | Cd (ppm) | Mn (ppm) | Ca (ppm) |
| 140 | | | " | | | | | | | | | | | | | | | |
| 142.50 | | | " | | | | | | | | | | | | | | | |
| 143.50 | | | arenisca gris clara (grano medio-groeso) | | | | | | | | | | | | | | | |
| 144.50 | | | conglomerado gris claro < φ 2.5" | mu poca pirita | | | | | | | | | | | | | | |
| 145.50 | | | arenisca gris clara (grano grueso-medio) | | | | | | | | | | | | | | | |
| 146.50 | | | " | | | | | | | | | | | | | | | |
| 147.50 | | | arenisca marron gruesa (part conglomerado) | | | | | | | | | | | | | | | |
| 148.50 | | | " | | | | | | | | | | | | | | | |
| 149.50 | | | " | Arrel | | | | | | | | | | | | | | |
| 150.50 | | | " (grano medio-fino) | Arrel | | | | | | | | | | | | | | |
| 151.50 | | | " | | | | | | | | | | | | | | | |
| 152.50 | | | arenisca gris clara | Arrel | | | | | | | | | | | | | | |
| 153.50 | | | arenisca gris (grano fino-medio) | Arrel | | | | | | | | | | | | | | |
| 154.50 | | | " | | | | | | | | | | | | | | | |
| 155.50 | | | conglomerado gris claro (grava < φ 5") (verdoso) | | | | | | | | | | | | | | | |
| 156.50 | | | " | | | | | | | | | | | | | | | |
| 157.50 | | | arenisca marron (grano grueso) | | | | | | | | | | | | | | | |
| 158.50 | | | " | | | | | | | | | | | | | | | |
| 159.50 | | | conglomerado marron (grava < φ 2") | | | | | | | | | | | | | | | |
| 160.50 | | | " | | | | | | | | | | | | | | | |
| 161.50 | | | arenisca marron, media | Arrel | | | | | | | | | | | | | | |
| 162.50 | | | arenisca gris clara gruesa | | | | | | | | | | | | | | | |
| 163.50 | | | " | | | | | | | | | | | | | | | |
| 164.50 | | | conglomerado gris clara | poca pirita dis | | | | | | | | | | | | | | |
| 165.50 | | | arenisca gris clara, gruesa | | | | | | | | | | | | | | | |
| 166.50 | | | conglomerado gris claro | | | | | | | | | | | | | | | |
| 167.50 | | | " | | | | | | | | | | | | | | | |
| 168.50 | | | arenisca gris clara gruesa | | | | | | | | | | | | | | | |
| 169.50 | | | " | | | | | | | | | | | | | | | |
| 170.50 | | | conglomerado gris claro (grava < φ 4") | | | | | | | | | | | | | | | |
| 171.50 | | | " | | | | | | | | | | | | | | | |
| 172.50 | | | " | | | | | | | | | | | | | | | |
| 173.50 | | | " | | | | | | | | | | | | | | | |
| 174.50 | | | conglomerado gris blanco grava abund | pirita dis | | | | | | | | | | | | | | |
| 175.50 | | | acilla de falla | | | | | | | | | | | | | | | |
| 176.50 | | | " | | | | | | | | | | | | | | | |
| 177.50 | | | conglomerado gris/claro (grava mediana) | poca pirita dis | | | | | | | | | | | | | | |
| 178.50 | | | " | | | | | | | | | | | | | | | |
| 179.50 | | | " | | | | | | | | | | | | | | | |
| 180.50 | | | " | | | | | | | | | | | | | | | |
| 181.50 | | | " | | | | | | | | | | | | | | | |
| 182.50 | | | " | | | | | | | | | | | | | | | |
| 183.50 | | | " | | | | | | | | | | | | | | | |
| 184.50 | | | " | | | | | | | | | | | | | | | |
| 185.50 | | | " | | | | | | | | | | | | | | | |
| 186.50 | | | " | | | | | | | | | | | | | | | |
| 187.50 | | | " | | | | | | | | | | | | | | | |
| 188.50 | | | " | | | | | | | | | | | | | | | |
| 189.50 | | | " | | | | | | | | | | | | | | | |
| 190.50 | | | " | | | | | | | | | | | | | | | |
| 191.50 | | | " | | | | | | | | | | | | | | | |
| 192.50 | | | " | | | | | | | | | | | | | | | |
| 193.50 | | | " | | | | | | | | | | | | | | | |
| 194.50 | | | " | | | | | | | | | | | | | | | |
| 195.50 | | | " | | | | | | | | | | | | | | | |
| 196.50 | | | " | | | | | | | | | | | | | | | |
| 197.50 | | | " | | | | | | | | | | | | | | | |
| 198.50 | | | " | | | | | | | | | | | | | | | |
| 199.50 | | | " | | | | | | | | | | | | | | | |
| 200.50 | | | " | | | | | | | | | | | | | | | |
| 201.50 | | | " | | | | | | | | | | | | | | | |
| 202.50 | | | " | | | | | | | | | | | | | | | |
| 203.50 | | | " | | | | | | | | | | | | | | | |
| 204.50 | | | " | | | | | | | | | | | | | | | |
| 205.50 | | | " | | | | | | | | | | | | | | | |
| 206.50 | | | " | | | | | | | | | | | | | | | |
| 207.50 | | | " | | | | | | | | | | | | | | | |
| 208.50 | | | " | | | | | | | | | | | | | | | |
| 209.50 | | | " | | | | | | | | | | | | | | | |
| 210 | | | " | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|---|------------------------|---------|-----------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. m | ESPESS. m | As (g/l) | Ag (g/l) | Cu (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Ga (ppm) |
| 210 | | | | | | | | | | | | | | | | | | |
| 210.50 | | brecha de folia | | | | | | | | | | | | | | | | |
| 212.50 | | conglomerado gris claro | | | | | | | | | | | | | | | | |
| 215.50 | | conglomerado blanco, falla? | pirita dis | | | | | | | | | | | | | | | |
| 216.50 | | conglomerado gris claro | " | | | | | | | | | | | | | | | |
| 218.50 | | conglomerado gris, alterado | " | | | | | | | | | | | | | | | |
| 220 | | conglomerado gris, alterado, grava < 0.4" | " | | | | | | | | | | | | | | | |
| 221.50 | | conglomerado gris | " | | | | | | | | | | | | | | | |
| 222.50 | | blanco | " | | | | | | | | | | | | | | | |
| 223.50 | | " | " | | | | | | | | | | | | | | | |
| 224.50 | | " | " | | | | | | | | | | | | | | | |
| 225.50 | | " | " | | | | | | | | | | | | | | | |
| 226.50 | | " | " | | | | | | | | | | | | | | | |
| 227.50 | | zona de falla | " | | | | | | | | | | | | | | | |
| 228.50 | | " | " | | | | | | | | | | | | | | | |
| 229.50 | | " | " | | | | | | | | | | | | | | | |
| 230.50 | | conglomerado marron claro | " | | | | | | | | | | | | | | | |
| 232.50 | | 232.50 | " | | | | | | | | | | | | | | | |
| 234.50 | | lutita marron clara (~ariga) | pirita dis, stockwork | | | | | | | | | | | | | | | |
| 235.50 | | " | " | | | | | | | | | | | | | | | |
| 236.50 | | " | " | | | | | | | | | | | | | | | |
| 237.50 | | " | " | | | | | | | | | | | | | | | |
| 238.50 | | " | " | | | | | | | | | | | | | | | |
| 239.50 | | " | " | | | | | | | | | | | | | | | |
| 240 | | bx falla | " | | | | | | | | | | | | | | | |
| 241.50 | | arenisca arenosa, fina | poca pirita dis | | | | | | | | | | | | | | | |
| 242.50 | | " | " | | | | | | | | | | | | | | | |
| 243.50 | | " gruesa (marga?) fina | pirita dis | | | | | | | | | | | | | | | |
| 244.50 | | " | " | | | | | | | | | | | | | | | |
| 245.50 | | " media-fina | " | | | | | | | | | | | | | | | |
| 246.50 | | " | " | | | | | | | | | | | | | | | |
| 247.50 | | arenisca gris clara, fina | " | | | | | | | | | | | | | | | |
| 248.50 | | arenisca p. gruesa, fina | noy poca pirita dis | 248.50 | 1.00 | 0.075 | 0.0 | <0.01 | 0.04 | 0.10 | 0.30 | 1.62 | 0.95 | 12.0 | 10 | <0.5 | <2 | <10 |
| 249.50 | | " | esferulita dis (24<12) | 249.50 | 1.00 | 0.040 | 0.0 | <0.01 | 0.01 | 0.07 | 2.08 | 1.53 | 0.36 | 0.0 | 10 | <0.5 | <2 | <10 |
| 250.50 | | " | " | 250.50 | 1.00 | 0.065 | 0.0 | <0.01 | 0.11 | 0.15 | 1.06 | 1.24 | 0.70 | 12.0 | 30 | <0.5 | <2 | <10 |
| 251.50 | | " | " | 251.50 | 0.70 | 0.095 | 0.0 | <0.01 | 0.04 | 0.05 | 0.97 | 0.25 | 0.30 | 10.0 | 80 | <0.5 | 2 | <10 |
| 252.50 | | arenisca arenosa, media | pirita dis | 252.50 | | | | | | | | | | | | | | |
| 253.50 | | " | " | | | | | | | | | | | | | | | |
| 254.50 | | zona de falla | " | | | | | | | | | | | | | | | |
| 255.50 | | " | " | | | | | | | | | | | | | | | |
| 256.50 | | arenisca p. gruesa, fina | " | | | | | | | | | | | | | | | |
| 257.50 | | arenisca arenosa media | " | | | | | | | | | | | | | | | |
| 258.50 | | conglomerado gris arenoso | " | | | | | | | | | | | | | | | |
| 259.50 | | bx arenisca gris arenosa grano fino | pirita dis | | | | | | | | | | | | | | | |
| 260 | | conglomerado | " | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCIÓN | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|--------------------------|----------------|---------|------------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACIÓN | PROF. m | ESPESES. m | Au (g/t) | Ag (g/t) | Cu (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppm) | Cd (ppm) | Te (ppm) | Ga (ppm) |
| 280 | | arenisca gris blanca | " | | | | | | | | | | | | | | | |
| | | " | " | | | | | | | | | | | | | | | |
| 285 | | conglomerado gris blanco | sp iap < 0.1% | | | | | | | | | | | | | | | |
| | | " | pirita dis | | | | | | | | | | | | | | | |
| 290 | | arenisca marron | " | | | | | | | | | | | | | | | |
| | | " | " | | | | | | | | | | | | | | | |
| 300 | | conglomerado marron | " | | | | | | | | | | | | | | | |
| | | " | " | | | | | | | | | | | | | | | |
| 300 | | Fin | | | | | | | | | | | | | | | | |
| 310 | | | | | | | | | | | | | | | | | | |
| 320 | | | | | | | | | | | | | | | | | | |
| 330 | | | | | | | | | | | | | | | | | | |
| 340 | | | | | | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | | | | | | |



AP. 3-8.3 Columna de perforación (MJHS-3)

HONDURAS SAN ANTONIO PROYECTO

MJHS-3

COORDENADAS: X 2,500 COTA : 1,092m
Y 80 S RUMBO : —

INCLINACION: -90°
LÓNGITUD : 300.30m

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCIÓN | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|---|----------------|---------|---------------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACIÓN | PROF. m | ESPESES (g/g) | An (g/L) | Ag (g/L) | Cu (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppm) | Cd (ppm) | Mn (ppm) | Ga (ppm) |
| 0 | V V V V V | lodo loda arenosa clara argillizada fuerte | | | | | | | | | | | | | | | | |
| 5.00 | V | lodo lutita gris oscura calcareas | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 15.00 | | lutita gris oscura gris calcarea (caliza) | | | | | | | | | | | | | | | | |
| 20.00 | | lutita gris oscura gris calcarea (caliza) fossil de bivalvia (ch. 4.5 m) | | | | | | | | | | | | | | | | |
| 25.00 | | brecha de falla lutita calcarea (fossil bivalvia) zona de falla | | | | | | | | | | | | | | | | |
| 30.00 | | brecha de falla lutita gris oscura calcareas, fossil | | | | | | | | | | | | | | | | |
| 40.00 | | lutita gris oscura calcareas, part fossil | | | | | | | | | | | | | | | | |
| 50.00 | | brecha de falla brecha | | | | | | | | | | | | | | | | |
| 60.00 | | lutita gris calcarea brecha de falla arenisca gris calcarea conglomerado gris claro calcareas | | | | | | | | | | | | | | | | |
| 70.00 | | arenisca gris clara calcareas | | | | | | | | | | | | | | | | |
| 80.00 | | arenisca gris clara calcareas | | | | | | | | | | | | | | | | |
| 90.00 | | arenisca gris clara calcareas | | | | | | | | | | | | | | | | |
| 100.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 110.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 120.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 130.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 140.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 150.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 160.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 170.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 180.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 190.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |
| 200.00 | | gris clara calcareas | | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|-------------|----------------|-----------|-------------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. (m) | ESPES. (cm) | As (g/t) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Cu (ppm) |
| 70 | | | | | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | | | | | | | |
| 94 | | | | | | | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | | | | | | | |
| 98 | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | |
| 102 | | | | | | | | | | | | | | | | | | |
| 104 | | | | | | | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | | | | | | | |
| 108 | | | | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | | | | | | | |
| 114 | | | | | | | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | | | | | | | |
| 122 | | | | | | | | | | | | | | | | | | |
| 124 | | | | | | | | | | | | | | | | | | |
| 126 | | | | | | | | | | | | | | | | | | |
| 128 | | | | | | | | | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | | | | | |
| 132 | | | | | | | | | | | | | | | | | | |
| 134 | | | | | | | | | | | | | | | | | | |
| 136 | | | | | | | | | | | | | | | | | | |
| 138 | | | | | | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCIÓN | | ENSAYO | | | | | | | | | | | | | | |
|---------------|----------------------|---|--|------------|------------|-------------|-------------|-----------|-----------|-----------|-----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | GEOLOGIA | MINERALIZACIÓN | PROF. A | ESPE- S | As (g/t) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | 1n (ppm) | Ga (ppm) |
| 140 142.18 | | caliza gris, brechada, dura | | | | | | | | | | | | | | | | |
| | | lutita negra (marga gris oscura) calcarea | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 145.51 | | caliza gris brechada dura fósil bivalvia | cal stockwork | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 150 | | marga-lutita gris oscura calcarea, part fósil | pirita dis y fin cal venilla stockwork | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 160 | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | fract fuerte part fósil | " " " " | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 170 | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | fract fuerte part fósil | " " " " | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | drusa de cal | " " " " | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " part fósil | " " " " | | | | | | | | | | | | | | | |
| 180 | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | fract fuerte (falla) part fósil | " " " " | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 189.78 | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 190 | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | fract fuerte | " " " " | | | | | | | | | | | | | | | |
| | | " " part fósil | " " " " | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 200 | | lutita gris oscura calcarea | peca py dis y fin cal venilla | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 205.01 | | caliza gris | cal venilla abund | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| | | " " " " " " " " " " | | | | | | | | | | | | | | | | |
| 210 | | lutita gris oscura calcarea | peca cal venilla | | | | | | | | | | | | | | | |

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|--------------|----------------------|---|----------------|------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | GEOLOGIA | MINERALIZACION | PROP. # | ESPES. m | As (g/l) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Ga (ppm) |
| 210 | | bl. clay | | | | | | | | | | | | | | | | |
| 212.10 | | caliza gris masiva (lutila gris oscura calcarea) | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 220 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 224.10 | | lutila gris oscura calcarea (part. caliza gris 10" espes) | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 230 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 240 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 242.10 | | caliza gris | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 244.10 | | lutila gris oscura | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 246.10 | | caliza gris | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 248.10 | | lutila gris oscura | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 250 | | caliza gris masiva | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 252.10 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 254.10 | | lutila gris oscura calcarea masiva (fossilifera) | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 256.10 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 258.10 | | caliza gris masiva | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 260 | | lutila gris oscura calcarea | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 262.10 | | caliza gris | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 264.10 | | lutila gris oscura calcarea | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 266.10 | | caliza gris masiva | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 268.10 | | lutila gris oscura calcarea | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 270 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 272.10 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 274.10 | | caliza gris masiva | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 276.10 | | lutila gris oscura calcarea | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 278.10 | | " | Kor 1.1.1.1 | | | | | | | | | | | | | | | |
| 280 | | caliza gris | Kor 1.1.1.1 | | | | | | | | | | | | | | | |

| PROF. (m) | COLETA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|------------------|-------------------------|----------------|---------|---------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. m | SPES. m | Aw (g/t) | Ag (g/L) | Cu (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Ga (ppm) |
| 280 | | 0.5m caliza | 0.5 cal | | | | | | | | | | | | | | | |
| 281.50 | | caliza | " | | | | | | | | | | | | | | | |
| 283.00 | | caliza | " | | | | | | | | | | | | | | | |
| 284.50 | | 0.5m sard | " | | | | | | | | | | | | | | | |
| 286.00 | | " | " | | | | | | | | | | | | | | | |
| 287.50 | | " fósil abund | " | | | | | | | | | | | | | | | |
| 289.00 | | caliza | " | | | | | | | | | | | | | | | |
| 290.50 | | caliza | " | | | | | | | | | | | | | | | |
| 292.00 | | 15cm caliza gris masiva | " | | | | | | | | | | | | | | | |
| 293.50 | | caliza gris cristalina | " | | | | | | | | | | | | | | | |
| 295.00 | | 10cm grano muy fino | " | | | | | | | | | | | | | | | |
| 296.50 | | " | " | | | | | | | | | | | | | | | |
| 298.00 | | banda turbidita | " | | | | | | | | | | | | | | | |
| 300 | | Fin | | | | | | | | | | | | | | | | |
| 310 | | | | | | | | | | | | | | | | | | |
| 320 | | | | | | | | | | | | | | | | | | |
| 330 | | | | | | | | | | | | | | | | | | |
| 340 | | | | | | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | | | | | | |

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This not only helps in tracking expenses but also ensures compliance with tax regulations.

In the second section, the author outlines the various methods used to collect and analyze data. These include surveys, interviews, and focus groups. Each method has its own strengths and weaknesses, and the choice depends on the specific research objectives.

The third section delves into the statistical analysis of the collected data. It covers topics such as descriptive statistics, inferential statistics, and regression analysis. The goal is to identify patterns and trends in the data that can inform decision-making.

Finally, the document concludes with a summary of the findings and recommendations. It highlights the key insights gained from the research and provides practical advice for implementing these findings in a business context.

AP. 3-8.4 Columna de perforación (MJHS-4)

HONDURAS SAN ANTONIO PROYECTO

MJHS-4

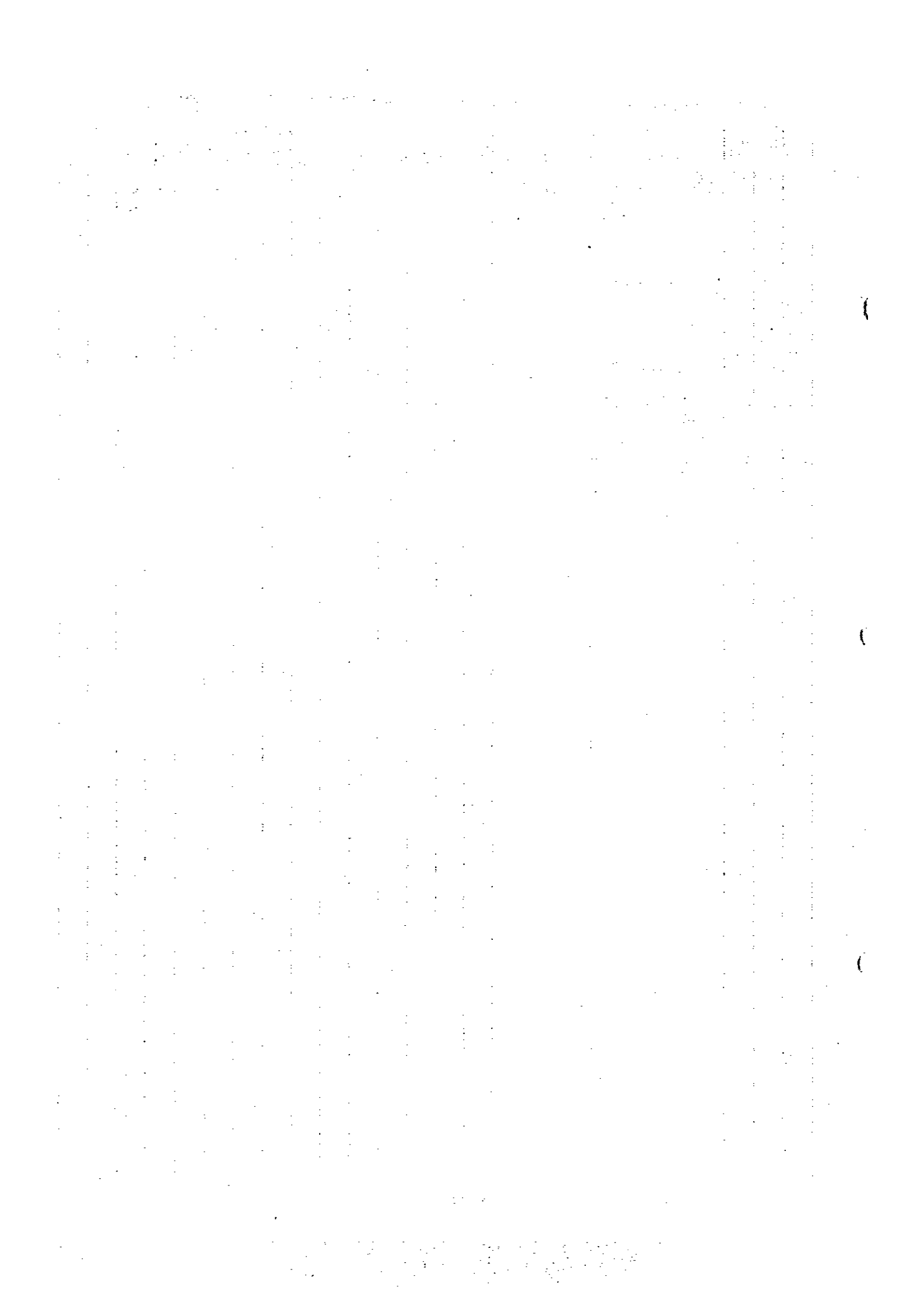
COORDENADAS: X 2.402 COTA : 1.101m
Y 63 5 RUNRO: -

INCLINACION: -90°
LONGITUD : 300.40m

| PROF (m) | COLUMNA GEOLOGICA | DESCRIPCIÓN | | ENSAYO | | | | | | | | | | | | | | |
|----------|-------------------|---|------------------------------|--------|------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACIÓN | PROF | ESPE | Au (g/t) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Ga (ppm) |
| 0 | V | lodofarena saccon clara | | | | | | | | | | | | | | | | |
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| | V | " | | | | | | | | | | | | | | | | |
| | V | " | | | | | | | | | | | | | | | | |
| | V | " | | | | | | | | | | | | | | | | |
| 10 | V | loba blanca | | | | | | | | | | | | | | | | |
| 11 | V | breccha gris (g) (loba lapilli?) | poca pirita dis (grano fino) | | | | | | | | | | | | | | | |
| 12 | V | arenisca gris, silicificada | part. bon | | | | | | | | | | | | | | | |
| 13 | V | caliza gris, masiva fract. cuert. | " | | | | | | | | | | | | | | | |
| 14 | V | " | " | | | | | | | | | | | | | | | |
| 15 | V | " | " | | | | | | | | | | | | | | | |
| 16 | V | " | " | | | | | | | | | | | | | | | |
| 17 | V | lutita negra, calcarea fosilifera | " | | | | | | | | | | | | | | | |
| 18 | V | " | " | | | | | | | | | | | | | | | |
| 19 | V | " | " | | | | | | | | | | | | | | | |
| 20 | V | " | " | | | | | | | | | | | | | | | |
| 21 | V | lutita gris oscura/caliza gris masiva | " | | | | | | | | | | | | | | | |
| 22 | V | " | " | | | | | | | | | | | | | | | |
| 23 | V | lutita negra masiva calcarea | " | | | | | | | | | | | | | | | |
| 24 | V | " | " | | | | | | | | | | | | | | | |
| 25 | V | " | " | | | | | | | | | | | | | | | |
| 26 | V | " | " | | | | | | | | | | | | | | | |
| 27 | V | " | " | | | | | | | | | | | | | | | |
| 28 | V | " | " | | | | | | | | | | | | | | | |
| 29 | V | " | " | | | | | | | | | | | | | | | |
| 30 | V | ba(cly) | " | | | | | | | | | | | | | | | |
| 31 | V | " | " | | | | | | | | | | | | | | | |
| 32 | V | lutita gris oscura calcarea, fosilifera | " | | | | | | | | | | | | | | | |
| 33 | V | " | " | | | | | | | | | | | | | | | |
| 34 | V | " | " | | | | | | | | | | | | | | | |
| 35 | V | " | " | | | | | | | | | | | | | | | |
| 36 | V | " | " | | | | | | | | | | | | | | | |
| 37 | V | " | " | | | | | | | | | | | | | | | |
| 38 | V | " | " | | | | | | | | | | | | | | | |
| 39 | V | " | " | | | | | | | | | | | | | | | |
| 40 | V | " | " | | | | | | | | | | | | | | | |
| 41 | V | " | " | | | | | | | | | | | | | | | |
| 42 | V | " | " | | | | | | | | | | | | | | | |
| 43 | V | " | " | | | | | | | | | | | | | | | |
| 44 | V | " | " | | | | | | | | | | | | | | | |
| 45 | V | " | " | | | | | | | | | | | | | | | |
| 46 | V | " | " | | | | | | | | | | | | | | | |
| 47 | V | ba falla | ba de falla | | | | | | | | | | | | | | | |
| 48 | V | " | " | | | | | | | | | | | | | | | |
| 49 | V | " | " | | | | | | | | | | | | | | | |
| 50 | V | " | " | | | | | | | | | | | | | | | |
| 51 | V | " | " | | | | | | | | | | | | | | | |
| 52 | V | " | " | | | | | | | | | | | | | | | |
| 53 | V | " | " | | | | | | | | | | | | | | | |
| 54 | V | " | " | | | | | | | | | | | | | | | |
| 55 | V | " | " | | | | | | | | | | | | | | | |
| 56 | V | " | " | | | | | | | | | | | | | | | |
| 57 | V | " | " | | | | | | | | | | | | | | | |
| 58 | V | " | " | | | | | | | | | | | | | | | |
| 59 | V | " | " | | | | | | | | | | | | | | | |
| 60 | V | " | " | | | | | | | | | | | | | | | |
| 61 | V | " | " | | | | | | | | | | | | | | | |
| 62 | V | " | " | | | | | | | | | | | | | | | |
| 63 | V | " | " | | | | | | | | | | | | | | | |
| 64 | V | " | " | | | | | | | | | | | | | | | |
| 65 | V | " | " | | | | | | | | | | | | | | | |
| 66 | V | " | " | | | | | | | | | | | | | | | |
| 67 | V | " | " | | | | | | | | | | | | | | | |
| 68 | V | " | " | | | | | | | | | | | | | | | |
| 69 | V | " | " | | | | | | | | | | | | | | | |
| 70 | V | " | " | | | | | | | | | | | | | | | |

| PROF (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-------------|----------------------|--|-----------------------------------|-----------|-----------|-------------|-------------|-----------|-----------|-----------|-----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | GEOLOGIA | MINERALIZACION | PROF a | ESPE s | Au (g/t) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Ga (ppm) |
| 140 | | caliza gris lutita gris oscura negra (poca caliza) | " | | | | | | | | | | | | | | | |
| 145 | | " | " | | | | | | | | | | | | | | | |
| 150 | | lutita gris oscura, calcareo | poca cal venilla pirita dia | | | | | | | | | | | | | | | |
| 155 | | caliza gris | " | | | | | | | | | | | | | | | |
| 160 | | lutita negra-gris oscura | " | | | | | | | | | | | | | | | |
| 165 | | masiva | " | | | | | | | | | | | | | | | |
| 170 | | fract. fuerte masiva | " | | | | | | | | | | | | | | | |
| 175 | | fract. fuerte poca fosil | " | | | | | | | | | | | | | | | |
| 180 | | fosilifera | " | | | | | | | | | | | | | | | |
| 185 | | " | " | | | | | | | | | | | | | | | |
| 190 | | " | " | | | | | | | | | | | | | | | |
| 195 | | " | " | | | | | | | | | | | | | | | |
| 200 | | lutita (narga) negra, calca | " | | | | | | | | | | | | | | | |
| 205 | | masiva fosilifera | " | | | | | | | | | | | | | | | |
| 210 | | sol de caliza poca fosil | " | | | | | | | | | | | | | | | |

| PROF (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|----------|-------------------|---|----------------|--------|---------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------------------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF # | ESPESES | Au (g/t) | Ag (g/t) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | I ₂ (ppm) | Ga (ppm) |
| 280 | | Ar 3 ^a ba lutita gris oscura | " | | | | | | | | | | | | | | | |
| 280.10 | | Ar 3 ^a ba lutita gris clara, calcarea (grano fino-medio) | poca py dia | | | | | | | | | | | | | | | |
| | | Ar 3 ^a " grana medio/grueso | " | | | | | | | | | | | | | | | |
| | | " | " | | | | | | | | | | | | | | | |
| 281.10 | | " | " | | | | | | | | | | | | | | | |
| 281.10 | | Ar 3 ^a ba arcasica gris verfososa (grano fino-grueso) | " | | | | | | | | | | | | | | | |
| 281.10 | | " | " | | | | | | | | | | | | | | | |
| 282.10 | | " | " | | | | | | | | | | | | | | | |
| 282.10 | | Ar 3 ^a ba arcasica marron oscuro (grano medio-grueso) | " | | | | | | | | | | | | | | | |
| 283.10 | | Ar 3 ^a ba " lutita/arcasica gris | " | | | | | | | | | | | | | | | |
| 284.10 | | Ar 20 ^a ba arcasica marron rosada (fino-medio) | " | | | | | | | | | | | | | | | |
| 284.10 | | Ar 20 ^a ba arcasica marron rosada (fino-medio) | " | | | | | | | | | | | | | | | |
| 300 | | Ar 20 ^a conglomerado | " | | | | | | | | | | | | | | | |
| 300 | | Ar 20 ^a conglomerado | " | | | | | | | | | | | | | | | |
| 310 | | Fin | | | | | | | | | | | | | | | | |



AP. 3-8.5 Columna de perforación (MJHS-5)

HONDURAS SAN ANTONIO PROYECTO

M J H S - 5

COORDENADAS: X 2,309 COTA : 1,116m
Y 71 S RUMBO: —

INCLINACION: -90°
LONGITUD : 249.80m

| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCIÓN | | ENSAYO | | | | | | | | | | | | | | |
|--------------|----------------------|---|-----------------|--------|------------|-------------|-------------|-----------|-----------|-----------|-----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | GEOLOGIA | MINERALIZACIÓN | PROF. | ESPE- S | As (g/L) | Ag (g/L) | Cu (%) | Pb (%) | Zn (%) | Fe (%) | S (%) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | IN (ppm) | Ca (ppm) |
| 0 | V | lolo (bl toba ^a) | | | | | | | | | | | | | | | | |
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| 10 | V | " | | | | | | | | | | | | | | | | |
| 11.112 | V | lodo (caliza gris?) (lutita calcárea?) | | | | | | | | | | | | | | | | |
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| 20 | | caliza gris | | | | | | | | | | | | | | | | |
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| 21 | | lutita gris oscura, calcárea | poca pirita dis | | | | | | | | | | | | | | | |
| 22.10 | | " | | | | | | | | | | | | | | | | |
| 23.14 | | " | | | | | | | | | | | | | | | | |
| 24.10 | | " | | | | | | | | | | | | | | | | |
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| PROF. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | |
|-----------|-------------------|--|-----------------------------|-----------|--------------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|
| | | GEOLOGIA | MINERALIZACION | PROF. (m) | ESPESES (cm) | Au (g/L) | Ag (g/L) | Cu (g/L) | Pb (g/L) | Zn (g/L) | Fe (g/L) | S (g/L) | As (ppm) | Sb (ppm) | Hg (ppm) | Cd (ppm) | Co (ppm) | Ga (ppm) |
| 140 | | zona de brecha | poca pirita dis | | | | | | | | | | | | | | | |
| 140.30 | | fract fuerte | " | | | | | | | | | | | | | | | |
| 140.40 | | " | " | | | | | | | | | | | | | | | |
| 140.50 | | " | " | | | | | | | | | | | | | | | |
| 140.60 | | " | " | | | | | | | | | | | | | | | |
| 140.70 | | caliza gris-gris oscura masiva | " | | | | | | | | | | | | | | | |
| 140.80 | | fract fuerte | " | | | | | | | | | | | | | | | |
| 140.90 | | " | " | | | | | | | | | | | | | | | |
| 141.00 | | " | " | | | | | | | | | | | | | | | |
| 141.10 | | ba(falla) | " | | | | | | | | | | | | | | | |
| 141.20 | | " | " | | | | | | | | | | | | | | | |
| 141.30 | | masiva | " | | | | | | | | | | | | | | | |
| 141.40 | | caliza brechada por lutita | pirita dis | | | | | | | | | | | | | | | |
| 141.50 | | " | " | | | | | | | | | | | | | | | |
| 141.60 | | caliza gris, masiva | poca pirita dis | | | | | | | | | | | | | | | |
| 141.70 | | fract | " | | | | | | | | | | | | | | | |
| 141.80 | | " | " | | | | | | | | | | | | | | | |
| 141.90 | | " | " | | | | | | | | | | | | | | | |
| 142.00 | | fract | " | | | | | | | | | | | | | | | |
| 142.10 | | " | " | | | | | | | | | | | | | | | |
| 142.20 | | " | " | | | | | | | | | | | | | | | |
| 142.30 | | fract | " | | | | | | | | | | | | | | | |
| 142.40 | | " | " | | | | | | | | | | | | | | | |
| 142.50 | | " | " | | | | | | | | | | | | | | | |
| 142.60 | | fract | " | | | | | | | | | | | | | | | |
| 142.70 | | " | " | | | | | | | | | | | | | | | |
| 142.80 | | " | " | | | | | | | | | | | | | | | |
| 142.90 | | lutita negra, calcarea | pirita dis (rico en lutita) | | | | | | | | | | | | | | | |
| 143.00 | | caliza gris brechada por lutita (calizas>lutita) | " | | | | | | | | | | | | | | | |
| 143.10 | | " | " | | | | | | | | | | | | | | | |
| 143.20 | | " | " | | | | | | | | | | | | | | | |
| 143.30 | | " | " | | | | | | | | | | | | | | | |
| 143.40 | | " | " | | | | | | | | | | | | | | | |
| 143.50 | | " | " | | | | | | | | | | | | | | | |
| 143.60 | | " | " | | | | | | | | | | | | | | | |
| 143.70 | | " | " | | | | | | | | | | | | | | | |
| 143.80 | | " | " | | | | | | | | | | | | | | | |
| 143.90 | | ba de falla | " | | | | | | | | | | | | | | | |
| 144.00 | | " | " | | | | | | | | | | | | | | | |
| 144.10 | | caliza gris | " | 170.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.60 | 0.80 | 18 | 6.4 | 10 | <0.5 | <2 | <10 |
| 144.20 | | " | " | 182.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.50 | 1.09 | 14 | 6.8 | <10 | <0.5 | <2 | <10 |
| 144.30 | | " | " | 184.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.50 | 0.77 | 18 | 3.8 | <10 | <0.5 | <2 | <10 |
| 144.40 | | " | " | 186.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 2.50 | 1.16 | 4 | 1.6 | <10 | <0.5 | <2 | 11 |
| 144.50 | | " | " | 188.00 | 2.0 | <0.001 | 0.2 | <0.01 | <0.01 | <0.01 | 1.60 | 1.01 | 10 | 0.4 | 10 | <0.5 | 4 | <10 |
| 144.60 | | fosil | " | 190.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.50 | 0.91 | 6 | 0.4 | <10 | <0.5 | <2 | <10 |
| 144.70 | | lutita negra (con poca caliza) | " | 192.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.10 | 0.75 | 9 | 0.8 | <10 | <0.5 | 2 | <10 |
| 144.80 | | " | " | 194.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.30 | 0.75 | 1 | <0.2 | <10 | <0.5 | <2 | <10 |
| 144.90 | | " | " | 196.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.50 | 0.93 | 1 | <0.2 | <10 | <0.5 | 2 | <10 |
| 145.00 | | caliza gris (con lutita) | " | 200.00 | 2.0 | <0.001 | <0.2 | <0.01 | <0.01 | <0.01 | 1.90 | 1.19 | 1 | 0.4 | <10 | <0.5 | 4 | <10 |

| PROP. (m) | COLUMNA GEOLOGICA | DESCRIPCION | | ENSAYO | | | | | | | | | | | | | | | |
|-----------|-----------------------------|--|----------------|-----------|-------------|----------|----------|--------|--------|--------|--------|-------|----------|----------|----------|----------|----------|----------|--|
| | | GEOLOGIA | MINERALIZACION | PROF. (m) | ESPESS. (m) | As (g/t) | Ag (g/t) | Cu (g) | Pb (g) | Zn (g) | Fe (g) | S (g) | As (ppm) | Sb (ppm) | Hg (ppb) | Cd (ppm) | In (ppm) | Cu (ppm) | |
| 210.00 | [Geological Column Diagram] | lutita gris oscura con calizas | " | 210.00 | 2.0 | 0.015 | <0.2 | <0.01 | <0.01 | <0.01 | 1.35 | 0.79 | 1 | 0.2 | <10 | <0.5 | 4 | <10 | |
| 212.00 | | caliza gris con lutita stockwork | " | 212.00 | 2.0 | 0.015 | <0.2 | <0.01 | <0.01 | <0.01 | 1.40 | 0.83 | 4 | 0.2 | <10 | <0.5 | 2 | <10 | |
| 214.00 | | lutita negra calcarea poco fosil | " | 214.00 | 2.0 | 0.100 | <0.2 | <0.01 | <0.01 | <0.01 | 1.80 | 0.94 | 1 | 0.0 | <10 | <0.5 | <2 | <10 | |
| 216.00 | | " | " | 216.00 | 2.0 | 0.015 | <0.2 | <0.01 | <0.01 | <0.01 | 1.85 | 1.27 | 8 | 1.4 | <10 | <0.5 | 4 | <10 | |
| 218.00 | | " | " | 218.00 | 2.0 | 0.100 | <0.2 | <0.01 | <0.01 | 0.01 | 2.20 | 1.00 | 1 | 0.8 | 10 | <0.5 | 4 | <10 | |
| 220.00 | | " | " | 220.00 | 2.0 | 0.010 | <0.2 | <0.01 | <0.01 | 0.01 | 2.42 | 1.15 | 4 | 0.6 | 10 | <0.5 | <2 | 10 | |
| 222.00 | | " | " | 222.00 | | | | | | | | | | | | | | | |
| 224.00 | | " | " | 224.00 | | | | | | | | | | | | | | | |
| 226.00 | | " | " | 226.00 | | | | | | | | | | | | | | | |
| 228.00 | | " | " | 228.00 | | | | | | | | | | | | | | | |
| 230.00 | [Geological Column Diagram] | caliza gris con lutita stockwork, poca fosil | " | 230.00 | | | | | | | | | | | | | | | |
| 232.00 | | lutita negra, calcarea poco fosil | " | 232.00 | | | | | | | | | | | | | | | |
| 234.00 | | " | " | 234.00 | | | | | | | | | | | | | | | |
| 236.00 | | caliza gris, poca fosil | " | 236.00 | | | | | | | | | | | | | | | |
| 238.00 | | lutita gris oscura calcarea (part caliza) | " | 238.00 | | | | | | | | | | | | | | | |
| 240.00 | | caliza gris con lutita | cal stockwork | 240.00 | | | | | | | | | | | | | | | |
| 242.00 | | caliza gris oscura, cal | cal | 242.00 | | | | | | | | | | | | | | | |
| 244.00 | | caliza gris con lutita | cal stockwork | 244.00 | | | | | | | | | | | | | | | |
| 246.00 | | lutita negra con calizas | " | 246.00 | | | | | | | | | | | | | | | |
| 248.00 | | " | " | 248.00 | | | | | | | | | | | | | | | |
| 250.00 | [Geological Column Diagram] | caliza gris con lutita negra | " | 250.00 | | | | | | | | | | | | | | | |
| 252.00 | | lutita gris oscura | " | 252.00 | | | | | | | | | | | | | | | |
| 254.00 | | (falla) | " | 254.00 | | | | | | | | | | | | | | | |
| 256.00 | | fract fuerte | " | 256.00 | | | | | | | | | | | | | | | |
| 258.00 | | " | " | 258.00 | | | | | | | | | | | | | | | |
| 260.00 | | " | " | 260.00 | | | | | | | | | | | | | | | |
| 262.00 | | " | " | 262.00 | | | | | | | | | | | | | | | |
| 264.00 | | " | " | 264.00 | | | | | | | | | | | | | | | |
| 266.00 | | " | " | 266.00 | | | | | | | | | | | | | | | |
| 268.00 | | " | " | 268.00 | | | | | | | | | | | | | | | |
| 270.00 | " | " | 270.00 | | | | | | | | | | | | | | | | |
| 272.00 | " | " | 272.00 | | | | | | | | | | | | | | | | |
| 274.00 | " | " | 274.00 | | | | | | | | | | | | | | | | |
| 276.00 | " | " | 276.00 | | | | | | | | | | | | | | | | |
| 278.00 | " | " | 278.00 | | | | | | | | | | | | | | | | |
| 280.00 | " | " | 280.00 | | | | | | | | | | | | | | | | |