

















A-7 Record of Drilling Work (MJM-14 ~ MJM-18)

Abbreviation

|           |   |           |                        |
|-----------|---|-----------|------------------------|
| Pds,      | Preparation for drilling site           | Transpor, | Transportation         |
| Reassemb, | Reassemblage                            | Dismant,  | Dismantlement          |
| Ins-C.P,  | Inserting casing pipe                   | Rem,      | Removing               |
| Out-C.P,  | Taking out casing pipe                  | Rec,      | Recovering             |
| Cem,      | Cementing work                          | Cem-Cut,  | Cutting cementing part |
| Rsdg,     | Repair work for sink of drilling ground | Roc,      | Road construction      |





|          | Drilling length |         |         | Total    |             | Shift    |       | Working man |        |
|----------|-----------------|---------|---------|----------|-------------|----------|-------|-------------|--------|
|          | Shift 1         | Shift 2 | Shift 3 | Drilling | Core length | Drilling | Total | Engineer    | Worker |
| July     | m               | m       | m       | m        | m           | shift    | shift | man         | man    |
| 3        | Trans.          |         |         |          |             |          |       |             |        |
| 4        | Roc.            |         |         |          |             |          | 2     | 12          | 30     |
| 5        | Roc.            |         |         |          |             |          |       |             |        |
| 6        | Roc.            |         |         |          |             |          |       |             |        |
| 7        | Roc.            |         |         |          |             |          |       |             |        |
| 8        | Roc.            |         |         |          |             |          |       |             |        |
| 9        | Roc.            |         |         |          |             |          |       |             |        |
| 10       | Trans.          |         |         |          |             |          |       |             |        |
| 11       | Trans.          |         |         |          |             |          | 7     | 21          | 210    |
| 12       | Trans.          |         |         |          |             |          |       |             |        |
| 13       | Pds.            |         |         |          |             |          |       |             |        |
| 14       | Pds.            |         |         |          |             |          |       |             |        |
| 15       | Pds.            |         |         |          |             |          |       |             |        |
| 16       | Pds.            |         |         |          |             |          |       |             |        |
| 17       | 10.10           | 8.90    | 11.30   | 30.30    | 9.30        |          |       |             |        |
| 18       | 14.00           | 13.10   | 26.50   | 53.60    | 35.50       | 6        | 11    | 21          | 186    |
| 19       | 11.10           | 10.90   | 11.70   | 33.70    | 17.90       |          |       |             |        |
| 20       | 5.10            | 6.20    | 4.70    | 16.00    | 11.70       |          |       |             |        |
| 21       | 4.40            | 6.30    | 5.30    | 16.00    | 13.30       |          |       |             |        |
| 22       | 7.10            | 6.50    | 6.20    | 19.80    | 19.50       |          |       |             |        |
| 23       | 5.30            | 5.30    | 5.80    | 16.40    | 14.80       |          |       |             |        |
| 24       | 6.90            | 6.80    | 7.10    | 20.80    | 18.60       |          |       |             |        |
| 25       | 5.50            | 5.10    | 5.50    | 16.10    | 13.40       | 21       | 21    | 21          | 84     |
| 26       | 9.10            | 10.10   | 13.00   | 32.20    | 26.80       |          |       |             |        |
| 27       | 4.10            | 3.90    | 3.90    | 11.90    | 12.50       |          |       |             |        |
| 28       | 3.30            | 4.00    | 1.30    | 8.60     | 8.30        |          |       |             |        |
| 29       | 0.10            | 0.50    | 0.40    | 1.00     | 0.70        |          |       |             |        |
| 30       | 3.00            | 4.30    | 2.90    | 10.20    | 6.30        |          |       |             |        |
| 31       | 4.30            | 5.00    | 5.10    | 14.40    | 11.60       |          |       |             |        |
| August 1 | Out-C.P.        |         |         |          |             | 18       | 19    | 21          | 92     |



|        | Drilling length |         |         | Total    |             | Shift    |       | Working man |        |
|--------|-----------------|---------|---------|----------|-------------|----------|-------|-------------|--------|
|        | Shift 1         | Shift 2 | Shift 3 | Drilling | Core length | Drilling | Total | Engineer    | Worker |
|        | m               | m       | m       | m        | m           | shift    | shift | man         | man    |
| July   |                 |         |         |          |             |          |       |             |        |
| 5      | Roc.            |         |         |          |             |          |       |             |        |
| 6      | Roc.            |         |         |          |             |          |       |             |        |
| 7      | Roc.            |         |         |          |             |          |       |             |        |
| 8      | Roc.            |         |         |          |             |          |       |             |        |
| 9      | Roc.            |         |         |          |             |          |       |             |        |
| 10     | Pds.            |         |         |          |             |          |       |             |        |
| 11     | Transpor.       |         |         |          |             |          | 7     | 21          | 70     |
| 12     | Transpor.       |         |         |          |             |          |       |             |        |
| 13     | Transpor.       |         |         |          |             |          |       |             |        |
| 14     | Pds.            |         |         |          |             |          |       |             |        |
| 15     | Pds.            |         |         |          |             |          |       |             |        |
| 16     | Pds.            |         |         |          |             |          |       |             |        |
| 17     | Pds.            |         |         |          |             |          |       |             |        |
| 18     | Pds.            |         |         |          |             |          | 7     | 21          | 95     |
| 19     | Pds.            |         |         |          |             |          |       |             |        |
| 20     | Pds.            |         |         |          |             |          |       |             |        |
| 21     | 13.50           |         |         | 13.50    | 3.00        |          |       |             |        |
| 22     | 12.00           | 11.00   | 8.90    | 31.90    | 24.70       |          |       |             |        |
| 23     | 4.90            | 10.40   | 6.70    | 22.00    | 20.00       |          |       |             |        |
| 24     | 3.50            | 7.80    | 8.00    | 19.30    | 17.90       |          |       |             |        |
| 25     | 7.30            | 9.70    | 4.00    | 21.00    | 16.30       | 13       | 15    | 21          | 90     |
| 26     | 4.10            | 4.70    | 3.20    | 12.00    | 6.60        |          |       |             |        |
| 27     | 2.50            | 5.50    | 4.00    | 12.00    | 9.50        |          |       |             |        |
| 28     | 4.70            | 9.10    | 7.70    | 21.50    | 18.40       |          |       |             |        |
| 29     | 8.70            | 8.40    | 7.50    | 24.60    | 26.10       |          |       |             |        |
| 30     | 6.30            | 8.40    | 6.80    | 21.50    | 21.00       |          |       |             |        |
| 31     | 9.70            | 5.10    | 6.30    | 21.10    | 20.60       |          |       |             |        |
| August |                 |         |         |          |             |          |       |             |        |
| 1      | 11.30           | 8.00    | 5.60    | 24.90    | 21.10       | 21       | 21    | 21          | 84     |



|           | Drilling length |          |         | Total    |             | Shift    |       | Working man |        |
|-----------|-----------------|----------|---------|----------|-------------|----------|-------|-------------|--------|
|           | Shift 1         | Shift 2  | Shift 3 | Drilling | Core length | Drilling | Total | Engineer    | Worker |
|           | m               | m        | m       | m        | m           | shift    | shift | man         | man    |
| August    |                 |          |         |          |             |          |       |             |        |
| 30        | Transpor.       |          |         |          |             |          |       |             |        |
| 31        | Transpor.       |          |         |          |             |          |       |             |        |
| September |                 |          |         |          |             |          |       |             |        |
| 1         | Transpor.       |          |         |          |             |          |       |             |        |
| 2         | Transpor.       |          |         |          |             |          |       |             |        |
| 3         | Pds.            |          |         |          |             |          |       |             |        |
| 4         | Pds.            |          |         |          |             |          |       |             |        |
| 5         | Pds.            |          |         |          |             |          | 7     | 11          | 77     |
| 6         | Pds.            |          |         |          |             |          |       |             |        |
| 7         | Pds.            |          |         |          |             |          |       |             |        |
| 8         | Pds.            |          |         |          |             |          |       |             |        |
| 9         | Pds.            |          |         |          |             |          |       |             |        |
| 10        | Pds.            |          |         |          |             |          |       |             |        |
| 11        | 6.10            | 6.20     | 5.90    | 18.20    | 8.10        |          |       |             |        |
| 12        | 13.30           | 7.30     | 9.00    | 29.60    | 29.30       | 6        | 11    | 19          | 81     |
| 13        | 12.10           | 6.60     | 8.10    | 26.80    | 26.80       |          |       |             |        |
| 14        | 11.30           | 8.60     | 8.70    | 28.60    | 27.90       |          |       |             |        |
| 15        | 12.60           | 11.70    | 13.00   | 37.30    | 36.80       |          |       |             |        |
| 16        | 7.00            | 7.10     | 3.20    | 17.30    | 16.50       |          |       |             |        |
| 17        | 3.90            | 5.50     | 5.90    | 15.30    | 12.10       |          |       |             |        |
| 18        | 4.00            | 4.20     | 7.70    | 15.90    | 11.90       |          |       |             |        |
| 19        | 5.10            | 6.10     | 8.50    | 19.70    | 15.20       | 21       | 21    | 28          | 84     |
| 20        | 1.80            | 1.50     | 5.00    | 8.30     | 4.50        |          |       |             |        |
| 21        | 2.70            | 3.70     | 3.60    | 10.00    | 3.00        |          |       |             |        |
| 22        | 3.60            | 3.60     | 2.10    | 9.30     | 4.50        |          |       |             |        |
| 23        | 2.80            | 6.00     | 2.70    | 11.50    | 5.30        |          |       |             |        |
| 24        | 4.10            | 8.30     | 8.10    | 20.50    | 17.60       |          |       |             |        |
| 25        | 10.30           | 11.90    | 11.20   | 33.40    | 30.60       |          |       |             |        |
| 26        | 2.30            | Out-C.P. |         |          |             | 19       | 20    | 28          | 84     |





|              | Drilling length |              |              | Total         |               | Shift     |           | Working man |            |
|--------------|-----------------|--------------|--------------|---------------|---------------|-----------|-----------|-------------|------------|
|              | Shift 1         | Shift 2      | Shift 3      | Drilling      | Core length   | Drilling  | Total     | Engineer    | Worker     |
|              | m               | m            | m            | m             | m             | shift     | shift     | man         | man        |
| August       |                 |              |              |               |               |           |           |             |            |
| 7            | Rem.            |              |              |               |               |           |           |             |            |
| 8            | Rem.            |              |              |               |               |           | 2         | 6           | 30         |
| 9            | Rem.            |              |              |               |               |           |           |             |            |
| 10           | Pds.            |              |              |               |               |           |           |             |            |
| 11           | Pds.            |              |              |               |               |           |           |             |            |
| 12           | Pds.            |              |              |               |               |           |           |             |            |
| 13           | 20.10           | 6.50         | 11.30        | 37.90         | 14.80         |           |           |             |            |
| 14           | 17.60           | 14.60        | 11.00        | 43.20         | 40.70         |           |           |             |            |
| 15           | 14.20           | 7.80         | 8.90         | 30.90         | 30.60         | 9         | 13        | 21          | 91         |
| 16           | 11.00           | 11.60        | 6.30         | 28.90         | 25.40         |           |           |             |            |
| 17           | 5.00            | 10.80        | 5.30         | 21.10         | 16.20         |           |           |             |            |
| 18           | 9.80            | 8.50         | Rsdg.        | 18.30         | 8.60          |           |           |             |            |
| 19           | 4.10            | 3.50         | 4.30         | 11.90         | 9.40          |           |           |             |            |
| 20           | 5.00            | 3.20         | 3.40         | 11.60         | 9.50          |           |           |             |            |
| 21           | 2.50            | 2.20         | 4.60         | 9.30          | 5.60          |           |           |             |            |
| 22           | 5.90            | 3.80         | 6.60         | 16.30         | 10.00         | 20        | 21        | 21          | 84         |
| 23           | 10.50           | 4.00         | 10.50        | 25.00         | 9.30          |           |           |             |            |
| 24           | 4.30            | 9.70         | 8.30         | 22.30         | 15.10         |           |           |             |            |
| 25           | 9.80            | 7.70         | 6.80         | 24.30         | 23.70         |           |           |             |            |
| 26           | Out-C.P.        |              |              |               |               |           |           |             |            |
| 27           | Dismant.        |              |              |               |               |           |           |             |            |
| 28           | Dismant.        |              |              |               |               |           |           |             |            |
| 29           | Dismant.        |              |              |               |               | 9         | 13        | 21          | 89         |
|              |                 |              |              |               |               |           |           |             |            |
|              |                 |              |              |               |               |           |           |             |            |
|              |                 |              |              |               |               |           |           |             |            |
|              |                 |              |              |               |               |           |           |             |            |
| <b>Total</b> | <b>119.80</b>   | <b>93.90</b> | <b>87.30</b> | <b>301.00</b> | <b>218.90</b> | <b>38</b> | <b>49</b> | <b>69</b>   | <b>294</b> |

|           | Drilling length |         |         | Total    |             | Shift    |       | Working man |        |
|-----------|-----------------|---------|---------|----------|-------------|----------|-------|-------------|--------|
|           | Shift 1         | Shift 2 | Shift 3 | Drilling | Core length | Drilling | Total | Engineer    | Worker |
|           | m               | m       | m       | m        | m           | shift    | shift | man         | man    |
| August    |                 |         |         |          |             |          |       |             |        |
| 5         | Rem.            |         |         |          |             |          |       |             |        |
| 6         | Rem.            |         |         |          |             |          |       |             |        |
| 7         | Rem.            |         |         |          |             |          |       |             |        |
| 8         | Pds.            |         |         |          |             |          | 4     | 12          | 65     |
| 9         | Pds.            |         |         |          |             |          |       |             |        |
| 10        | Pds.            |         |         |          |             |          |       |             |        |
| 11        | 4.00            |         |         |          |             |          |       |             |        |
| 12        | 10.00           | 11.00   | 5.00    | 26.00    | 7.60        |          |       |             |        |
| 13        | 4.20            | Rsdg.   | Rsdg.   | 4.20     | 3.20        |          |       |             |        |
| 14        | Rsdg.           | 8.10    | 9.00    | 17.10    | 17.30       |          |       |             |        |
| 15        | 10.20           | 10.60   | 8.60    | 29.40    | 23.20       | 10       | 15    | 21          | 90     |
| 16        | 10.40           | 1.00    | Rsdg.   | 11.40    | 12.20       |          |       |             |        |
| 17        | 8.30            | 9.40    | 9.20    | 26.90    | 24.10       |          |       |             |        |
| 18        | 5.10            | 5.30    | 6.50    | 16.90    | 15.30       |          |       |             |        |
| 19        | 3.50            | 4.40    | 3.80    | 11.70    | 9.40        |          |       |             |        |
| 20        | 4.10            | 4.40    | 4.60    | 13.10    | 7.60        |          |       |             |        |
| 21        | 2.10            | 3.60    | 1.80    | 7.50     | 5.90        |          |       |             |        |
| 22        | 1.90            | 2.90    | 3.70    | 8.50     | 4.30        | 20       | 21    | 21          | 84     |
| 23        | 5.00            | 4.90    | 4.60    | 14.50    | 16.00       |          |       |             |        |
| 24        | 2.10            | 2.30    | 3.10    | 7.50     | 4.90        |          |       |             |        |
| 25        | 3.00            | 2.90    | 3.10    | 9.00     | 5.80        |          |       |             |        |
| 26        | 2.10            | 3.30    | 2.10    | 7.50     | 4.70        |          |       |             |        |
| 27        | 0.30            | Rsdg.   | Rsdg.   | 0.30     | 0.80        |          |       |             |        |
| 28        | 3.70            | 2.80    | 4.80    | 11.30    | 9.40        |          |       |             |        |
| 29        | 2.80            | 4.50    | 4.10    | 11.40    | 11.40       | 19       | 21    | 21          | 84     |
| 30        | 4.40            | 3.10    | 3.50    | 11.00    | 6.60        |          |       |             |        |
| 31        | 2.40            | 3.00    | 4.30    | 9.70     | 6.60        |          |       |             |        |
| September |                 |         |         |          |             |          |       |             |        |
| 1         | 3.00            | 4.80    | 3.10    | 10.90    | 7.00        |          |       |             |        |







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