

Property-Project ALUM Depth Logged 308m

Map SILVER PK Scale 15'' Date: Drilled 9-13-83 Logged 1-10-84

State NV County ESM, of SE of SW of Sec 4 T 15 R 39E

Instrument SPA-29 Operator JED Elevation 4900 (ft)

Comments FINAL LOG after cementing annulus. No change from previous log before cementing

Date Logged

JUSTIFY

| Proj No              | Well No                       | DA | MO | YR | *  |
|----------------------|-------------------------------|----|----|----|----|
| 1 2 3 4 5 6 7 8 9 10 | 11 12 13 14 15 16 17 18 19 20 |    |    |    |    |
| 1186                 | 5210                          | 01 | 01 | 84 | CM |

\*19-Write F if Fahrenheit, 20-Write F if Feet

Card A

| Site Description |       |       |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | Operator |         |         | Editor  |         |         | DA      | MO      | YR      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |
|------------------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 21-30            | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-110 | 111-120 | 121-130 | 131-140 | 141-150 | 151-160 | 161-170 | 171-180 | 181-190 | 191-200 | 201-210 | 211-220 | 221-230 | 231-240 | 241-250 | 251-260 | 261-270 | 271-280 | 281-290 | 291-300 | 301-310 | 311-320 | 321-330  | 331-340 | 341-350 | 351-360 | 361-370 | 371-380 | 381-390 | 391-400 | 401-410 | 411-420 | 421-430 | 431-440 | 441-450 | 451-460 | 461-470 | 471-480 | 481-490 | 491-500 | 501-510 | 511-520 | 521-530 | 531-540 | 541-550 | 551-560 | 561-570 | 571-580 | 581-590 | 591-600 | 601-610 | 611-620 | 621-630 | 631-640 | 641-650 | 651-660 | 661-670 | 671-680 | 681-690 | 691-700 | 701-710 | 711-720 | 721-730 | 731-740 | 741-750 | 751-760 | 761-770 | 771-780 | 781-790 | 791-800 | 801-810 | 811-820 | 821-830 | 831-840 | 841-850 | 851-860 | 861-870 | 871-880 | 881-890 | 891-900 | 901-910 | 911-920 | 921-930 | 931-940 | 941-950 | 951-960 | 961-970 | 971-980 | 981-990 | 991-1000 |
|                  |       |       |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | JED      |         |         | JED     |         |         | 13      | 9       | 83      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |

(Approx. location, water well?, oil test?, etc.)

Map Location \*\*

Scale Unit IN CM

Map Size (75, 15, 60) 15.0

N Lat Degree 37.45 Min 117.45 Degree 117.45 Min \*\*

W Long

Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W,-)(E,+)

Card B

| Northing |       |       |       |        |         |         |         |         |         |         |         |         |         |         | Easting |         |         |         |         |         |         |         |         |         |         |         |         |         |         | Elev    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |
|----------|-------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 51-60    | 61-70 | 71-80 | 81-90 | 91-100 | 101-110 | 111-120 | 121-130 | 131-140 | 141-150 | 151-160 | 161-170 | 171-180 | 181-190 | 191-200 | 201-210 | 211-220 | 221-230 | 231-240 | 241-250 | 251-260 | 261-270 | 271-280 | 281-290 | 291-300 | 301-310 | 311-320 | 321-330 | 331-340 | 341-350 | 351-360 | 361-370 | 371-380 | 381-390 | 391-400 | 401-410 | 411-420 | 421-430 | 431-440 | 441-450 | 451-460 | 461-470 | 471-480 | 481-490 | 491-500 | 501-510 | 511-520 | 521-530 | 531-540 | 541-550 | 551-560 | 561-570 | 571-580 | 581-590 | 591-600 | 601-610 | 611-620 | 621-630 | 631-640 | 641-650 | 651-660 | 661-670 | 671-680 | 681-690 | 691-700 | 701-710 | 711-720 | 721-730 | 731-740 | 741-750 | 751-760 | 761-770 | 771-780 | 781-790 | 791-800 | 801-810 | 811-820 | 821-830 | 831-840 | 841-850 | 851-860 | 861-870 | 871-880 | 881-890 | 891-900 | 901-910 | 911-920 | 921-930 | 931-940 | 941-950 | 951-960 | 961-970 | 971-980 | 981-990 | 991-1000 |
| 21.92    |       |       |       |        |         |         |         |         |         |         |         |         |         |         | 12.88   |         |         |         |         |         |         |         |         |         |         |         |         |         |         | 4900    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |

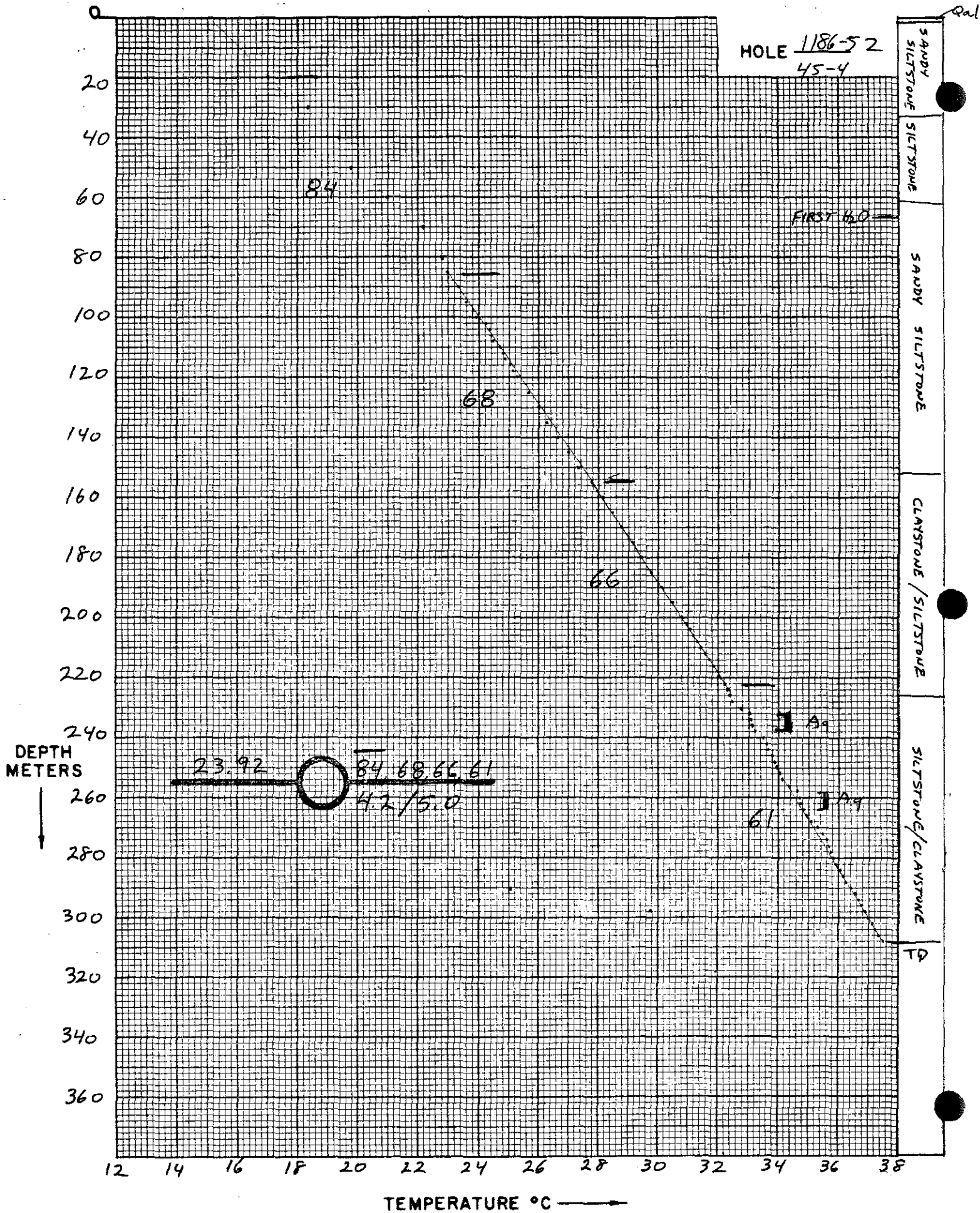
Use decimals

Write M if meters

Segment 1 = Depths

| Start   | End      | Conductivity K | ΔK   | Best cond. (-K) | Downward extrapolations (-ΔK) |
|---------|----------|----------------|------|-----------------|-------------------------------|
| 21-30   | 31-40    | 85.0           | -5.0 | -0.5            |                               |
| 31-40   | 41-50    | 85.0           |      |                 |                               |
| 41-50   | 51-60    | 155.0          |      |                 |                               |
| 51-60   | 61-70    | 222.0          |      |                 |                               |
| 61-70   | 71-80    | 222.0          |      |                 |                               |
| 71-80   | 81-90    | 308.0          |      |                 |                               |
| 81-90   | 91-100   |                |      |                 |                               |
| 91-100  | 101-110  |                |      |                 |                               |
| 101-110 | 111-120  |                |      |                 |                               |
| 111-120 | 121-130  |                |      |                 |                               |
| 121-130 | 131-140  |                |      |                 |                               |
| 131-140 | 141-150  |                |      |                 |                               |
| 141-150 | 151-160  |                |      |                 |                               |
| 151-160 | 161-170  |                |      |                 |                               |
| 161-170 | 171-180  |                |      |                 |                               |
| 171-180 | 181-190  |                |      |                 |                               |
| 181-190 | 191-200  |                |      |                 |                               |
| 191-200 | 201-210  |                |      |                 |                               |
| 201-210 | 211-220  |                |      |                 |                               |
| 211-220 | 221-230  |                |      |                 |                               |
| 221-230 | 231-240  |                |      |                 |                               |
| 231-240 | 241-250  |                |      |                 |                               |
| 241-250 | 251-260  |                |      |                 |                               |
| 251-260 | 261-270  |                |      |                 |                               |
| 261-270 | 271-280  |                |      |                 |                               |
| 271-280 | 281-290  |                |      |                 |                               |
| 281-290 | 291-300  |                |      |                 |                               |
| 291-300 | 301-310  |                |      |                 |                               |
| 301-310 | 311-320  |                |      |                 |                               |
| 311-320 | 321-330  |                |      |                 |                               |
| 321-330 | 331-340  |                |      |                 |                               |
| 331-340 | 341-350  |                |      |                 |                               |
| 341-350 | 351-360  |                |      |                 |                               |
| 351-360 | 361-370  |                |      |                 |                               |
| 361-370 | 371-380  |                |      |                 |                               |
| 371-380 | 381-390  |                |      |                 |                               |
| 381-390 | 391-400  |                |      |                 |                               |
| 391-400 | 401-410  |                |      |                 |                               |
| 401-410 | 411-420  |                |      |                 |                               |
| 411-420 | 421-430  |                |      |                 |                               |
| 421-430 | 431-440  |                |      |                 |                               |
| 431-440 | 441-450  |                |      |                 |                               |
| 441-450 | 451-460  |                |      |                 |                               |
| 451-460 | 461-470  |                |      |                 |                               |
| 461-470 | 471-480  |                |      |                 |                               |
| 471-480 | 481-490  |                |      |                 |                               |
| 481-490 | 491-500  |                |      |                 |                               |
| 491-500 | 501-510  |                |      |                 |                               |
| 501-510 | 511-520  |                |      |                 |                               |
| 511-520 | 521-530  |                |      |                 |                               |
| 521-530 | 531-540  |                |      |                 |                               |
| 531-540 | 541-550  |                |      |                 |                               |
| 541-550 | 551-560  |                |      |                 |                               |
| 551-560 | 561-570  |                |      |                 |                               |
| 561-570 | 571-580  |                |      |                 |                               |
| 571-580 | 581-590  |                |      |                 |                               |
| 581-590 | 591-600  |                |      |                 |                               |
| 591-600 | 601-610  |                |      |                 |                               |
| 601-610 | 611-620  |                |      |                 |                               |
| 611-620 | 621-630  |                |      |                 |                               |
| 621-630 | 631-640  |                |      |                 |                               |
| 631-640 | 641-650  |                |      |                 |                               |
| 641-650 | 651-660  |                |      |                 |                               |
| 651-660 | 661-670  |                |      |                 |                               |
| 661-670 | 671-680  |                |      |                 |                               |
| 671-680 | 681-690  |                |      |                 |                               |
| 681-690 | 691-700  |                |      |                 |                               |
| 691-700 | 701-710  |                |      |                 |                               |
| 701-710 | 711-720  |                |      |                 |                               |
| 711-720 | 721-730  |                |      |                 |                               |
| 721-730 | 731-740  |                |      |                 |                               |
| 731-740 | 741-750  |                |      |                 |                               |
| 741-750 | 751-760  |                |      |                 |                               |
| 751-760 | 761-770  |                |      |                 |                               |
| 761-770 | 771-780  |                |      |                 |                               |
| 771-780 | 781-790  |                |      |                 |                               |
| 781-790 | 791-800  |                |      |                 |                               |
| 791-800 | 801-810  |                |      |                 |                               |
| 801-810 | 811-820  |                |      |                 |                               |
| 811-820 | 821-830  |                |      |                 |                               |
| 821-830 | 831-840  |                |      |                 |                               |
| 831-840 | 841-850  |                |      |                 |                               |
| 841-850 | 851-860  |                |      |                 |                               |
| 851-860 | 861-870  |                |      |                 |                               |
| 861-870 | 871-880  |                |      |                 |                               |
| 871-880 | 881-890  |                |      |                 |                               |
| 881-890 | 891-900  |                |      |                 |                               |
| 891-900 | 901-910  |                |      |                 |                               |
| 901-910 | 911-920  |                |      |                 |                               |
| 911-920 | 921-930  |                |      |                 |                               |
| 921-930 | 931-940  |                |      |                 |                               |
| 931-940 | 941-950  |                |      |                 |                               |
| 941-950 | 951-960  |                |      |                 |                               |
| 951-960 | 961-970  |                |      |                 |                               |
| 961-970 | 971-980  |                |      |                 |                               |
| 971-980 | 981-990  |                |      |                 |                               |
| 981-990 | 991-1000 |                |      |                 |                               |

After final segment Start = .999



Date Logged: 1-10-84

AT Well No. 1186-52

45-4

| Depth (meters) | Instr. Reading | Temp. °C | ΔT   | Grad. °C/km | K (Est.) | H <sub>2</sub> O Air | Lithology, etc. |
|----------------|----------------|----------|------|-------------|----------|----------------------|-----------------|
| 20             | 115.86         | 17.02    | 1.33 | 133         |          | AIR                  |                 |
| 30             | 110.61         | 18.35    | 1.03 | 103         |          |                      |                 |
| 40             | 106.66         | 19.38    | 0.39 | 39          |          |                      |                 |
| 50             | 105.21         | 19.77    | 1.22 | 122         |          |                      |                 |
| 60             | 100.76         | 20.99    | 1.18 | 118         |          |                      |                 |
| 70             | 96.57          | 22.17    | 0.63 | 63          |          |                      |                 |
| 80             | 94.43          | 22.80    | 0.19 | 38          |          |                      |                 |
| 85             | 93.76          | 22.99    | 0.35 | 70          |          | H <sub>2</sub> O     | C. 0899         |
| 90             | 92.61          | 23.34    | 0.24 | 48          |          |                      |                 |
| 95             | 91.79          | 23.58    | 0.34 | 68          |          |                      |                 |
| 100            | 90.67          | 23.92    | 0.30 | 60          |          |                      |                 |
| 102            | 89.70          | 24.22    | 0.12 | 60          |          |                      |                 |
| 104            | 89.31          | 24.34    | 0.06 | 30          |          |                      |                 |
| 106            | 89.11          | 24.40    | 0.05 | 25          |          |                      |                 |
| 108            | 88.96          | 24.45    | 0.26 | 130         |          |                      |                 |
| 110            | 88.10          | 24.71    | 0.08 | 40          |          |                      |                 |
| 112            | 87.87          | 24.79    | 0.06 | 30          |          |                      |                 |
| 114            | 87.67          | 24.85    | 0.16 | 80          |          |                      |                 |
| 116            | 87.16          | 25.01    | 0.16 | 80          |          |                      |                 |
| 118            | 86.66          | 25.17    | 0.15 | 75          |          |                      |                 |
| 120            | 86.18          | 25.32    | 0.31 | 62          |          |                      |                 |
| 125            | 85.20          | 25.63    | 0.39 | 78          |          |                      |                 |
| 130            | 84.01          | 26.02    | 0.24 | 48          |          |                      |                 |
| 135            | 83.28          | 26.26    | 0.39 | 78          |          |                      |                 |
| 140            | 82.08          | 26.65    | 0.35 | 70          |          |                      |                 |
| 145            | 81.04          | 27.00    | 0.36 | 72          |          |                      |                 |
| 150            | 79.97          | 27.36    |      |             |          |                      |                 |

K=Conductivity

Date Logged: 1-10-84ΔT Well No. 1186-52  
45-4

| Depth<br>(meters) | Instr.<br>Reading | Temp.<br>°C | ΔT   | Grad.<br>°C/km | K<br>(Est.) | H <sub>2</sub> O<br>Air | Lithology, etc. |
|-------------------|-------------------|-------------|------|----------------|-------------|-------------------------|-----------------|
| 155               | 78.78             | 27.77       | 0.41 | 82             |             |                         |                 |
| 160               | 77.70             | 28.15       | 0.38 | 76             |             |                         |                 |
| 165               | 76.86             | 28.44       | 0.29 | 58             |             |                         |                 |
| 170               | 75.92             | 28.77       | 0.33 | 66             |             |                         |                 |
| 175               | 74.86             | 29.16       | 0.39 | 78             |             |                         |                 |
| 180               | 74.00             | 29.47       | 0.31 | 62             |             |                         |                 |
| 185               | 73.12             | 29.79       | 0.32 | 64             |             |                         |                 |
| 190               | 72.12             | 30.16       | 0.37 | 74             |             |                         |                 |
| 195               | 71.26             | 30.49       | 0.33 | 66             |             |                         |                 |
| 200               | 70.40             | 30.82       | 0.33 | 66             |             |                         |                 |
| 202               | 70.06             | 30.95       | 0.07 | 35             |             |                         |                 |
| 204               | 69.74             | 31.07       | 0.12 | 60             |             |                         |                 |
| 206               | 69.43             | 31.19       | 0.12 | 60             |             |                         |                 |
| 208               | 69.07             | 31.33       | 0.14 | 70             |             |                         |                 |
| 210               | 68.74             | 31.46       | 0.13 | 65             |             |                         |                 |
| 212               | 68.41             | 31.59       | 0.14 | 70             |             |                         |                 |
| 214               | 68.07             | 31.72       | 0.13 | 65             |             |                         |                 |
| 216               | 67.78             | 31.84       | 0.12 | 60             |             |                         |                 |
| 218               | 67.46             | 31.97       | 0.13 | 65             |             |                         |                 |
| 220               | 67.16             | 32.09       | 0.12 | 60             |             |                         |                 |
| 222               | 66.86             | 32.21       | 0.12 | 60             |             |                         |                 |
| 224               | 66.59             | 32.32       | 0.11 | 55             |             |                         |                 |
| 226               | 66.40             | 32.39       | 0.07 | 35             |             |                         |                 |
| 228               | 66.23             | 32.46       | 0.07 | 35             |             |                         |                 |
| 230               | 65.50             | 32.76       | 0.30 | 150            |             |                         |                 |
| 232               | 64.84             | 33.03       | 0.29 | 145            |             |                         |                 |
| 234               | 64.72             | 33.08       | 0.05 | 25             |             |                         |                 |

K=Conductivity

Date Logged: 1-10-84ΔT Well No. 1186-52  
45-4

| Depth<br>(meters) | Instr.<br>Reading | Temp.<br>°C | ΔT   | Grad.<br>°C/km | K<br>(Est.) | H <sub>2</sub> O<br>Air | Lithology, etc. |
|-------------------|-------------------|-------------|------|----------------|-------------|-------------------------|-----------------|
| 236               | 64.57             | 33.14       | 0.06 | 30             |             |                         |                 |
|                   |                   |             | 0.07 | 35             |             |                         |                 |
| 238               | 64.42             | 33.21       |      |                |             |                         |                 |
|                   |                   |             | 0.30 | 150            |             |                         |                 |
| 240               | 63.69             | 33.51       |      |                |             |                         |                 |
|                   |                   |             | 0.10 | 50             |             |                         |                 |
| 242               | 63.45             | 33.61       |      |                |             |                         |                 |
|                   |                   |             | 0.08 | 40             |             |                         |                 |
| 244               | 63.26             | 33.69       |      |                |             |                         |                 |
|                   |                   |             | 0.11 | 55             |             |                         |                 |
| 246               | 63.01             | 33.80       |      |                |             |                         |                 |
|                   |                   |             | 0.10 | 50             |             |                         |                 |
| 248               | 62.77             | 33.90       |      |                |             |                         |                 |
|                   |                   |             | 0.07 | 35             |             |                         |                 |
| 250               | 62.60             | 33.97       |      |                |             |                         |                 |
|                   |                   |             | 0.07 | 35             |             |                         |                 |
| 252               | 62.45             | 34.04       |      |                |             |                         |                 |
|                   |                   |             | 0.11 | 55             |             |                         |                 |
| 254               | 62.19             | 34.15       |      |                |             |                         |                 |
|                   |                   |             | 0.23 | 115            |             |                         |                 |
| 256               | 61.66             | 34.38       |      |                |             |                         |                 |
|                   |                   |             | 0.23 | 115            |             |                         |                 |
| 258               | 61.13             | 34.61       |      |                |             |                         |                 |
|                   |                   |             | 0.11 | 55             |             |                         |                 |
| 260               | 60.89             | 34.72       |      |                |             |                         |                 |
|                   |                   |             | 0.05 | 25             |             |                         |                 |
| 262               | 60.77             | 34.77       |      |                |             |                         |                 |
|                   |                   |             | 0.06 | 30             |             |                         |                 |
| 264               | 60.63             | 34.83       |      |                |             |                         |                 |
|                   |                   |             | 0.11 | 55             |             |                         |                 |
| 266               | 60.38             | 34.94       |      |                |             |                         |                 |
|                   |                   |             | 0.18 | 90             |             |                         |                 |
| 268               | 59.98             | 35.12       |      |                |             |                         |                 |
|                   |                   |             | 0.28 | 140            |             |                         |                 |
| 270               | 59.59             | 35.30       |      |                |             |                         |                 |
|                   |                   |             | 0.18 | 90             |             |                         |                 |
| 272               | 59.18             | 35.48       |      |                |             |                         |                 |
|                   |                   |             | 0.13 | 65             |             |                         |                 |
| 274               | 58.90             | 35.61       |      |                |             |                         |                 |
|                   |                   |             | 0.06 | 30             |             |                         |                 |
| 276               | 58.76             | 35.67       |      |                |             |                         |                 |
|                   |                   |             | 0.08 | 40             |             |                         |                 |
| 278               | 58.59             | 35.75       |      |                |             |                         |                 |
|                   |                   |             | 0.08 | 40             |             |                         |                 |
| 280               | 58.41             | 35.83       |      |                |             |                         |                 |
|                   |                   |             | 0.10 | 50             |             |                         |                 |
| 282               | 58.20             | 35.93       |      |                |             |                         |                 |
|                   |                   |             | 0.15 | 75             |             |                         |                 |
| 284               | 57.87             | 36.08       |      |                |             |                         |                 |
|                   |                   |             | 0.06 | 30             |             |                         |                 |
| 286               | 57.74             | 36.14       |      |                |             |                         |                 |
|                   |                   |             | 0.13 | 65             |             |                         |                 |
| 288               | 57.46             | 36.27       |      |                |             |                         |                 |

K=Conductivity

page \_\_\_\_\_ of \_\_\_\_\_



# LITHOLOGIC LOG

Project: Alum

Hole: 45-4 1186-52

Elevation: 4,900'

Date Drilled: 9/14/83

Location: SESW Sec 4 T1S R39E

Method: rotary/air/foam

Geologist: Deymonaz

Gamma: NA

| Depth (m)               | Description   |
|-------------------------|---|
| 0 - 5<br>( 0-1.5)       | <u>Alluvium</u> - Poorly consolidated tan sand, silt and angular lith fragments of green siltstone, sandstone and limestone.  |
| 5 - 15<br>( 1.5-4.5)    | <u>Siltstone</u> - Sandy, tan, bedded, with common dk. gray lith fragments. A few clear gypsum crystals. Common yellow to rust red iron stainings. Damp, altered to montmorillonite. Same as surface outcrops near drill site.  |
| 15 - 110<br>( 4.5-34)   | <u>Siltstone</u> - As above, except less sand, less iron staining, primarily montmorillonite clays. Some light gray beds of siltstone 1% small gypsum.  |
| 110 - 200<br>( 34-61)   | <u>Siltstone</u> - Med. brownish gray, some sandy material. Minor thin beds of brown siltstone. Absorbs water readily.  |
| 200 - 500               | <u>Sandy Siltstone</u> - Light medium gray (cuttings are fine sandy powder). Water at 220', change to foam injection. Most of clay material washed out of cuttings below 220'. Minor tan and pale red siltstone. Absorb water readily.  |
| 500 - 740               | <u>Claystone, Siltstone</u> - Medium brownish gray, predominantly with 10-40% tan to brown colored material. Much of interval appears thinly bedded. Minor orange hematite. Darker brown color along some crude cleavage planes. Absorbs water moderately. L.C. in fracture at 675', moderately well indurated. |
| 740 - 830<br>(226-253)  | <u>Claystone, Siltstone</u> - As above, except 20-30% pale green and tan claystones with a few angular lithic fragments, Some thinly laminated claystone with tan, gray and brown laminations. Rare pyrite along small fractures. Moderately well indurated.  |
| 830 - 1010<br>(253-308) | <u>Siltstone, Claystone</u> - Well indurated, thinly laminated tan, light brown and medium gray. Does not part along laminations Minor micas and much harder than above units.  |

DAILY DRILLING REPORT

Project - Hole: ALUM 45-4 Date: 9-11 thru 9-14  
 Location: SE of SW Sec. 4 T/S R 39E Spud Date: 9-11  
 County, State: Esmeralda, NV Day #: 1-4  
 Prog. Depth: 1000' Contractor: Stevens-Harris  
 Geologist: Deymonaz Rig.: Failing 1500

Drilled 0 to 1010 Mud/Air/Air-Foam injection 220-1010'  
 Footage Cut 1010 Temp: In \_\_\_\_\_ Out \_\_\_\_\_  
 Hole Size 8 3/4" and 6 1/8" Wt \_\_\_\_\_  
 Dev. Survey @ Vis \_\_\_\_\_  
 Casing 7" 0-20' Ph \_\_\_\_\_  
 Bits, stabs, etc. & ser. # \_\_\_\_\_

Lithology Tertiary siltstones and claystones

Additional Report 9-11 Move rig to site, drill 8 3/4" hole 0-20'; set and cement 20' of 7" casing

9-12 Drill 6 1/8" hole 20-740', drill dry to 220', foam injection below 220. First water encountered at 220'.

9-13 Drill 6 1/8" hole 740-1010', set 1 1/4" tubing, hole making 5-10 GPM water at TD, unable to obtain sample without foam injection.

9-14 Fill tubing with water, cement annulus 0-10', move off location

Well History

| Interval       | Hole Size    | Casing               |
|----------------|--------------|----------------------|
| <u>0-20</u>    | <u>8 3/4</u> | <u>7"</u>            |
| <u>20-1010</u> | <u>6 1/8</u> | <u>1 1/4" tubing</u> |
| _____          | _____        | _____                |
| _____          | _____        | _____                |
| _____          | _____        | _____                |

Expenditures

Total to date 48,886.  
 Projected \_\_\_\_\_  
 Cost/Ft 5030' @ \$9.72/ft.  
 Budgeted 75,000.