

INTER-OFFICE MEMORANDUM

SUBJECT: Heat flow calculations, Grand View area, Idaho

DATE February 21, 1978

TO: J. E. Deymonaz

FROM: H. D. Pilkington

The numbers used in my memo of November 8, 1977, reflect a mixture of preliminary and final temperature log data. As you know the time span of the drilling project; ended up covering several months. In order to have a map for management reviews it has been prepared based upon (1) preliminary T-logs and 2) revised when a significant change is noted in the final logging.

On the computer maps, printout etc. only the data for the final log has been used. Therefore, you will note some differences between my contour maps and the computer maps. The most recent version of the heat flow map has been mailed to you; however, the following summary will allow you to update your records:

| Hole # | Original Data | | | Final Data | | |
|--------|-----------------------|-----|------|--------------------|-----|------|
| | ΔT | K | Q | ΔT | K | Q |
| 844- 1 | 85,280,13 | 5.0 | 4.3 | 95 | 5.0 | 4.8 |
| 2 | 177,142,60,0,125,0,38 | 6.0 | 3.6 | 177,60,0,40 | 5.4 | 3.2 |
| 3 | 31,40,45 | 6.0 | 2.7 | 44,49 | 6.0 | 2.9 |
| 4 | 41,30,48,32 | 6.0 | 2.9 | 46 | 6.0 | 2.8 |
| 5 | 85,0,66,86,63 | 4.5 | 2.8 | 78,86,63 | 4.5 | 2.8 |
| 6 | 48,25,60,25,42 | 3.0 | 1.3 | 57,39,37 | 3.0 | 1.1 |
| 7 | 44 | 3.5 | 1.5 | 44 | 3.5 | 1.5 |
| 8 | 258,55,185,247 | 3.5 | 8.7 | no second log | | |
| 9 | 282,230,259,203 | 3.5 | 7.2 | 238,230,209 | 3.5 | 7.3 |
| 11 | 91,1293 | 3.0 | 2.7 | 91,1293 | 3.0 | 2.7 |
| 12 | 32 | 6.5 | 2.1 | 31 | 6.5 | 2.0 |
| 13 | 150,125,103 | 5.1 | 5.3 | 148,124,106 | 4.9 | 5.2 |
| 14 | 242,160,130,215,110 | 3.9 | 4.3 | 188,157,133,114 | 3.9 | 4.4 |
| 15 | 154,76 | 5.5 | 4.2 | 161,80 | 6.1 | 4.9 |
| 16 | 188,102 | 5.0 | 5.1 | 195,104,113 | 4.8 | 5.5 |
| 17 | 170,135,175,122 | 3.5 | 4.3 | 199,147,184,122 | 3.5 | 4.3 |
| 18 | 37,85,22,73,41,47 | 4.5 | 2.1 | 42,36,44 | 5.3 | 2.3 |
| 19 | 41,107,495,190 | 3.0 | 3.2 | 121,42,100,485,220 | 3.0 | 3.0 |
| 20 | 88,462,-150,86 | 4.5 | 4.5 | 88,462,-150,86,67 | 4.5 | 3.0 |
| 21 | 97,104,80 | 3.9 | 3.1 | 97,106,76 | 3.6 | 2.7 |
| 22 | 62,45 | 3.7 | 1.7 | 63,53,45 | 3.7 | 1.7 |
| 23 | 82,10,58,60,51 | 6.0 | 3.1 | 86,64,55 | 5.6 | 3.1 |
| 26 | 0 | 6.0 | 0 | 0 | 6.0 | 0 |
| 27 | 222,206,249,148 | 4.5 | 6.7 | 222,215,153,134 | 4.6 | 6.2 |
| 28 | 226,168,400,193 | 5.2 | 10.1 | 245,171,265 | 6.0 | 10.3 |

| | | | | | | |
|----|-------------------------------|-----|--------|---------------------------------|-----|--------|
| 29 | 100,233,174,167, <u>98</u> | 6.0 | 5.9 | 214,180,155,121, <u>94</u> | 6.0 | 5.6 |
| 30 | 322,460,270,470, <u>309,0</u> | 4.5 | 0-13.9 | 435,339, <u>262,0</u> | 4.4 | 0-11.6 |
| 31 | 100, <u>69</u> | 5.5 | 3.8 | 106,79, <u>68</u> | 5.5 | 3.8 |
| 32 | 91,50, <u>100,340</u> | 5.5 | 5.5 | 89,67, <u>150</u> | 5.5 | 4.9 |
| 33 | 58, <u>90</u> | 6.0 | 5.4 | 93 | 6.0 | 5.6 |
| 34 | 248,525,248,336, <u>189</u> | 4.5 | 8.5 | 231,293,483,245,326, <u>171</u> | 5.0 | 8.5 |
| 35 | 177, <u>131</u> | 4.5 | 5.9 | 166,124, <u>131</u> | 4.3 | 5.6 |
| 36 | 303, <u>264</u> | 3.0 | 7.9 | 300, <u>268</u> | 3.0 | 7.9 |
| 37 | 105,64, <u>34,51</u> | 5.0 | 1.7 | 113,77,65, <u>37,52</u> | 5.0 | 1.9 |
| 38 | 325,190, <u>165,290,177</u> | 4.5 | 8.0 | 525,398,178,303, <u>178</u> | 4.4 | 7.8 |
| 39 | 46,20, <u>40,21</u> | 6.5 | 1.4 | 33, <u>17</u> | 6.5 | 1.1 |
| 40 | 102,73,27,0 | 5.5 | 0-4.0 | 199,167, <u>57,27,0</u> | 6.5 | 3.7 |

The results of the conductivity measurement 844-35 are K=4.3 which should give Q of 5.6 not 8.5 as reported in IOM December 8, 1977 (see above)

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