



- ♁ ABANDONED PETROLEUM EXPLORATION WELL (DRY HOLE)
- ♁ ABANDONED POTASH EXPLORATION WELL
- ⊙ SOLUTION POTASH WELL
- ⊙ STORAGE CAVERN FOR LPG
- ♀ OTHER

⊖ AREAS OVER WHICH OBSERVED TEMPERATURE GRADIENT "m" IS AVERAGED

⊖ LOCAL DEPARTURE OF GRADIENT "m" (°F/100 FT.) FROM REGIONAL VALUES. LOCAL DEPARTURE IS AVERAGED FROM THREE TEMPERATURE READINGS

SEE TEXT FOR DETAILS

ONE SECTION (enlarged) SHOWING NUMBERING OF THE LEGAL SUBDIVISIONS (LSD'S)

13	14	15	16
12	11	10	9
5	6	7	8
4	3	2	1

ONE TOWNSHIP SHOWING NUMBERING OF SECTIONS IN WESTERN CANADA

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1

GENERAL FORMULAE

$$T_{ZW} = 53.3 + 1.58 Z$$

$$T_{ZM} = 50.5 + 1.33 Z$$

WHERE

T_{ZW} = TEMPERATURE (°F) OF DST WATER AT DEPTH Z

T_{ZM} = TEMPERATURE (°F) OF MUD DURING LOGGING AT DEPTH Z

Z = DEPTH (HUNDREDS OF FEET)

GOVERNMENT OF CANADA GEOTHERMAL STUDIES

REGINA-MOOSE JAW AREA
SASKATCHEWAN

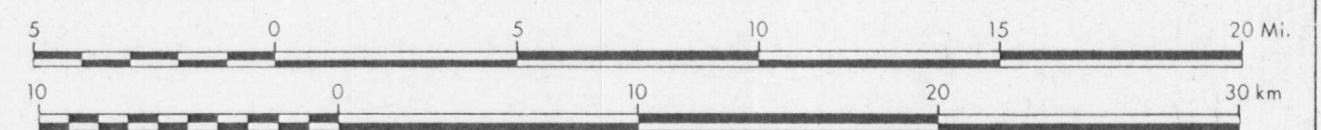


FIGURE 27
TEMPERATURE GRADIENT ANOMALY MAP

OF
DEADWOOD-PRAIRIE SALT INTERVAL

SHOWING GENERALIZED VARIATION OF THE
GRADIENT "m" IN THE EQUATION

$$T_z = T_o + mz$$

CONTOUR INTERVAL .20°F/100 FT.

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Scale 1:253,440 (1 INCH = 4 MILES)

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