



EXPLANATION

MAP SYMBOLS

WATER WELL: 14 (Number of Well on Map), 114 (Depth to Bedrock Below Land Surface in Feet), 238 (Total Depth of Well in Feet), JDRV (Water Producing Formation).

SPRING: 32 (Number of Spring on Map), OTSH (Water Producing Formation).

HYDROCARBON EXPLORATION HOLE, GAS WELL OR OIL WELL: 23 (Number of Well on Map), 178 (Depth to Bedrock Below Land Surface in Feet), 1123 (Total Depth of Well in Feet).

WATER PRODUCING FORMATIONS

ALVM: HOLOCENE TO PLEISTOCENE AGE UNCONSOLIDATED SILT, SAND AND GRAVEL IN SURFICIAL OR BURIED DRAINAGE SYSTEMS.

OTSH: HOLOCENE TO PLEISTOCENE AGE UNCONSOLIDATED SILT, SAND AND GRAVEL IN SURFICIAL GLACIAL OUTWASH CHANNELS.

DRFT: PLEISTOCENE AGE GLACIAL DRIFT OR TILL. WATER IS PROBABLY FROM LOCAL PODS OF SAND AND GRAVEL IN THE TILL MATERIAL.

JDRV: CRETACEOUS AGE JUDITH RIVER FORMATION ROCKS.

EAGLE: CRETACEOUS AGE EAGLE FORMATION ROCKS.

WELLS AND SPRINGS

WELL NAME OR NO.	YEAR IN USE	REPORTED YIELD IN GPM	OBSERVED YIELD IN GPM	ANALYSIS NUMBER
1 SHERLE	—	4	2500	790045
2 KAPKA 0-24	—	13	1310	790174
3 PERSLEY	—	—	—	—
4 STATE 2-12-15	—	—	—	—
5 KILGORE	—	—	—	—
6 STATE 13A-4	—	—	—	—
7 STATE 19-32-138	—	—	—	—
8 STROMBERG 1-6	—	—	—	—
9 THOMPSON	—	—	—	—
10 KOGEL	—	12	—	—
11 BUTTNEY 14-1	—	—	—	—
12 SANDS 19-1	—	—	—	—
13 SENSOR (SUS)	—	—	—	—
14 SENSOR (SUS)	—	—	—	—
15 SENSOR (SUS)	—	—	1170	670002
16 SANDS 7-16	—	—	—	—
17 SENSOR (SUS)	—	—	—	—
18 LANEY 1-21	—	—	—	—
19 BLAIR 10-12	—	—	—	—
20 LEMPIN 23-1	—	—	—	—
21 SENSOR (SUS)	—	—	500	—
22 BRENER 5-1	—	—	—	—
23 BRUNER 5-2	—	—	—	—
24 HAYNE 80-10	—	—	—	—
25 BEATRICE FORDS	14	1030	790051	—
26 BLUETTER 1	—	—	—	—
27 KARDALL	—	—	800	790394
28 HAYTONE	1	25	390	840078
29 GILMORE	10	1750	790036	—
30 POWELL	—	—	1870	760124
31 STATE AA-143	—	—	—	—
32 MORSE 15B-14	—	—	—	—
33 GAGEL	—	7	—	—
34 FOX 1-32	—	—	—	—
35 NEWBRY 6-21	—	—	—	—
36 CRASKY	5	3200	840045	—
37 CHISS	—	13	—	—
38 VELA	12	2990	790042	—
39 KRAFT 1-20	—	—	—	—
40 STATE 1-28	—	—	—	—
41 KRAFT 1	—	—	—	—
42 HAYNE "11A-30"	—	—	—	—
43 FALLSON	25	—	—	—
44 HALL	—	—	—	—
45 CARESON	450	—	—	—
46 CHINOK	—	—	—	—
47 CHINOK	—	—	—	—
48 CHINOK	—	—	—	—
49 INMAN	10	—	—	—
50 BLAINE COUNTY	30	—	—	—
51 TILLMAN	2	3830	790025	—
52 BUNMER	12	2170	840079	—
53 BURCHMAN	10	—	—	—
54 COTTON	1	2940	790053	—
55 NICHOLS	1.5	—	—	—
56 RICHARD	18	—	—	—
57 WILLIAMS	7	7800	—	—
58 SMOYER	7	—	—	—
59 MITCHEL	8	—	—	—
60 HILLDALE COLONY	12	3860	790045	—
61 SHANKER	9	424	840045	—
62 JOHNSON	7	1300	760158	—
63 SHANKER	5	—	—	—
64 ROHMAN	—	3250	760158	—
65 EASTEND COLONY	11	—	—	—
66 FRANTON 1-11	—	—	—	—
67 LEROU	35	330	840037	—
68 MONSON	5	4580	840041	—
69 PERSLEY	4	1600	840044	—
70 U.S. AIR FORCE	73	—	—	—
71 MC INTOSH	17	700	840066	—
72 GILSON	60	—	—	—
73 MC INTOSH	1	—	—	—
74 MC INTOSH	12	3100	840062	—
75 MC INTOSH	73	2390	840060	—
76 CATTLEBEN'S (MUD LAKE)	8	—	—	—
77 BARR (MUD LAKE)	25	1600	840052	—
78 JOHNSON	—	350	760157	—
79 HAYNE	44	2130	840058	—
80 SPICHER-WHITE	12	—	—	—
81 BERRIS	15	2400	840054	—
82 BEATTY	8	1700	790059	—

* ANALYSIS FROM U.S. GEOLOGICAL SURVEY WATER SUPPLY PAPER 1440-B BY FRANK A. SHENKOW.
** ANALYSIS BY REG. DATA LABORATORY, HAVRE, MT. DATED APRIL, 1984. INFORMATION PROVIDED BY OMBR.

NOTE: WELL, SPRING AND WATER QUALITY DATA ARE FROM FIELD INSPECTIONS BY THE U.S. GEOLOGICAL SURVEY OR THE MONTANA BUREAU OF MINES AND GEOLOGY (MBMG) IN 1976, 1979 AND 1984. ALL WATER QUALITY DATA EXCEPT THOSE MARKED ARE CONTAINED IN FILES AT THE MBMG. OIL AND GAS WELL LOCATIONS WERE NOT FIELD VERIFIED BUT WERE PLOTTED FROM SURVEY PLATS CONTAINED IN THE OIL AND GAS WELL RECORDS.

INDEX TO TOPOGRAPHIC MAPS IN HAVRE 30' x 60' QUADRANGLE

SELECTED WELL DATA INCLUDING: WATER QUALITY, QUANTITY AND DEPTH TO BEDROCK IN THE HAVRE 30' x 60' QUADRANGLE, MONTANA

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1984

* MONTANA BUREAU OF MINES AND GEOLOGY

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.