

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GEOPHYSICAL LOGS OF TEST HOLES FROM THE HENRY MOUNTAINS COAL
FIELD, GARFIELD AND WAYNE COUNTIES, SOUTHEASTERN UTAH

By

Ben E. Law

Open-file report 77-41

1977

This report has not been edited
for conformity with Geological
Survey editorial standards or
Stratigraphic nomenclature

Contents

	Page
Introduction-----	1

Illustrations

Figure 1. Map showing drill-hole locations-----	2
2-28. Geophysical logs:	in pocket
2. Drill-hole FB-1	
3. Drill-hole FB-2	
4. Drill-hole FB-3	
5. Drill-hole FB-4	
6. Drill-hole FB-5	
7. Drill-hole FB-6	
8. Drill-hole FB-7	
9. Drill-hole FB-8	
10. Drill-hole FB-9	
11. Drill-hole ME-1	
12. Drill-hole ME-2	
13. Drill-hole ME-3	
14. Drill-hole ME-4	
15. Drill-hole ME-5	
16. Drill-hole ME-6	
17. Drill-hole ME-7	
18. Drill-hole ME-8	
19. Drill-hole ME-10	
20. Drill-hole ME-11	

Figures 2-28. Geophysical logs--continued

- 21. Drill-hole ME-12
- 22. Drill-hole ME-13
- 23. Drill-hole MP-1
- 24. Drill-hole MP-2
- 25. Drill-hole MP-4
- 26. Drill-hole MP-5
- 27. Drill-hole N-2
- 28. Drill-hole WB-1

Table

Table 1. Drill-hole locations, elevations, and
drilling and logging depths-----

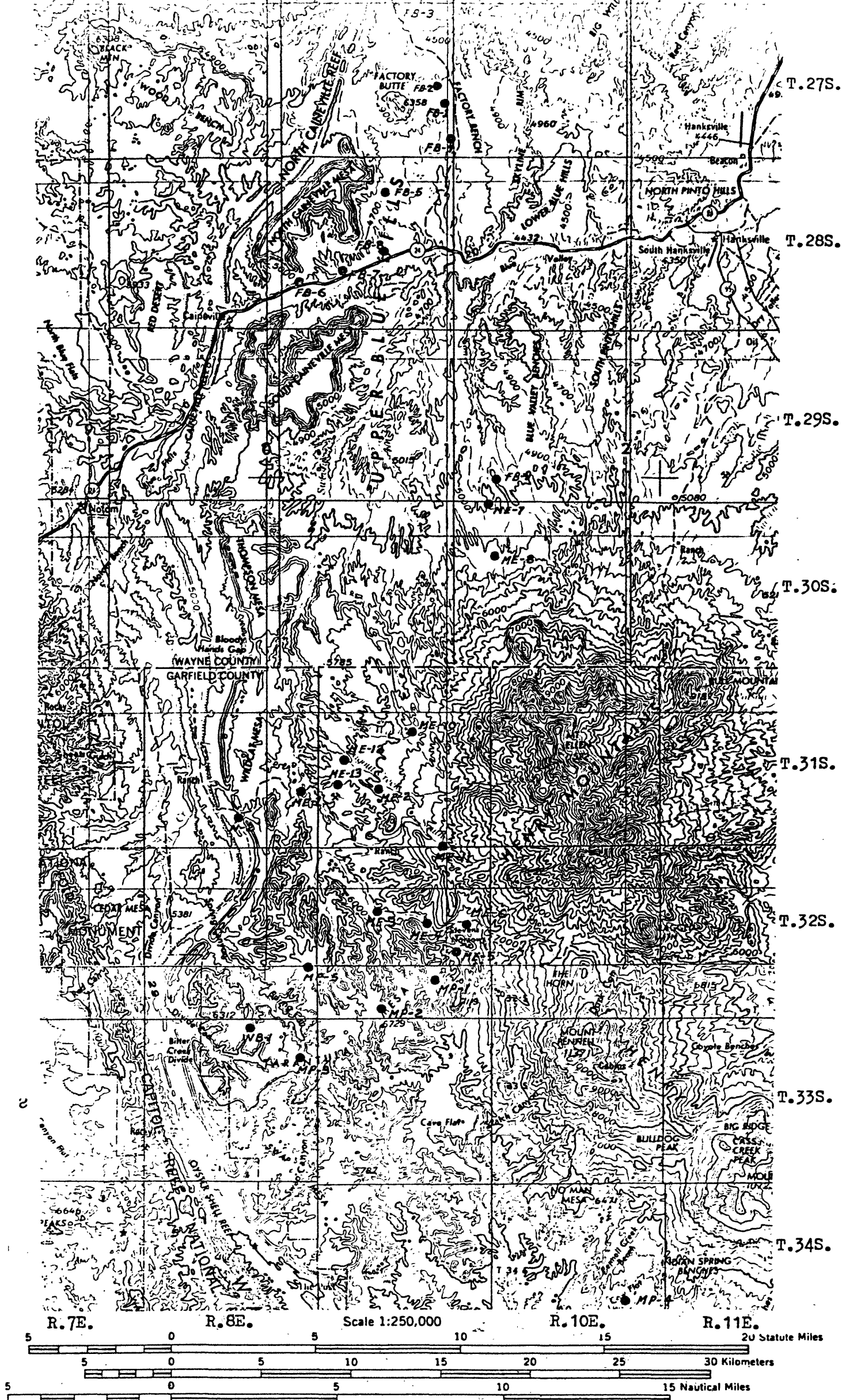
Geophysical logs of test holes from the Henry Mountains coal
field, Garfield and Wayne Counties, southeastern Utah

By Ben E. Law

Introduction

Under Contract No. 14-08-0001-15098, awarded by the U.S. Geological Survey, the Hayden Farmer Company drilled and geophysically logged 28 test holes in the Henry Mountains coal field in Garfield and Wayne Counties, Utah (figure 1). The objectives of the project were to obtain information regarding thickness, distribution, and correlation of coal beds. Natural-gamma, density, caliper logs, and spontaneous-potential, resistivity logs were made for most of the drill holes. Spontaneous-potential, resistivity logs are not available for drill-holes ME-1, ME-10, and ME-11. Geophysical logs were not made for drill-hole MP-3. The drill-hole locations were selected by the U.S. Geological Survey. Drill-hole reclamation was performed according to the specifications of the U.S. Bureau of Land Management.

Drill-hole ground locations, surface elevations, and total depths are shown in table 1.



CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

Table 1.--Drill-hole locations, elevations, and drilling and logging depths

[All measurements are in feet; to convert to meters, multiply by 0.3048]

Drill-hole No.	Location	Surface elevation	Total depth drilled	Total Depth Logged
FB-1	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 27 S., R. 9 E.	4,858	160	158
FB-2	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 27 S., R. 9 E.	4,828	140	138
FB-3	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 27 S., R. 9 E.	4,806	200	196
FB-4	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 27 S., R. 9 E.	4,745	120	118
FB-5	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 28 S., R. 9 E.	4,745	420	418
FB-6	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T. 28 S., R. 9 E.	4,592	615	608
FB-7	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 28 S., R. 9 E.	4,553	410	408
FB-8	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 28 S., R. 9 E.	4,506	140	138
FB-9	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, T. 29 S., R. 10 E.	4,950	140	138
ME-1	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, T. 31 S., R. 8 E.	5,608	162	159
ME-2	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 31 S., R. 9 E.	6,031	300	298
ME-3	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, T. 32 S., R. 9 E.	5,916	320	312
ME-4	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 32 S., R. 9 E.	6,225	180	176
ME-5	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 32 S., R. 9 E.	6,760	240	232
ME-6	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 32 S., R. 9 E.	6,475	300	298
ME-7	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 30 S., R. 10 E.	5,034	300	296
ME-8	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 30 S., R. 10 E.	5,232	380	376
ME-10	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T. 31 S., R. 9 E.	6,163	500	384
ME-11	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T. 31 S., R. 9 E.	6,743	680	631
ME-12	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 31 S., R. 9 E.	5,845	320	316
ME-13	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 31 S., R. 9 E.	5,745	220	216
MP-1	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 32 S., R. 9 E.	6,870	1,034	1,034

Table 1.--Drill-hole locations, elevations, and drilling and logging depths--continued

Drill-hole No.	Location	Surface eleva- tion	Total depth drilled	Total depth logged
MP-2	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T. 32 S., R. 9 E.	6,718	1,100	1,098
*MP-3	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 33 S., R. 8 E.	6,470	1,110	-----
MP-4	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 34 S., R. 10 E.	5,200	300	294
MP-5	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 32 S., R. 8 E.	6,468	1,077	1,074
N-2	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 31 S., R. 8 E.	5,425	1,010	1,008
WB-1	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, T. 33 S., R. 8 E.	6,262	1,120	1,118

* No geophysical log on this hole.