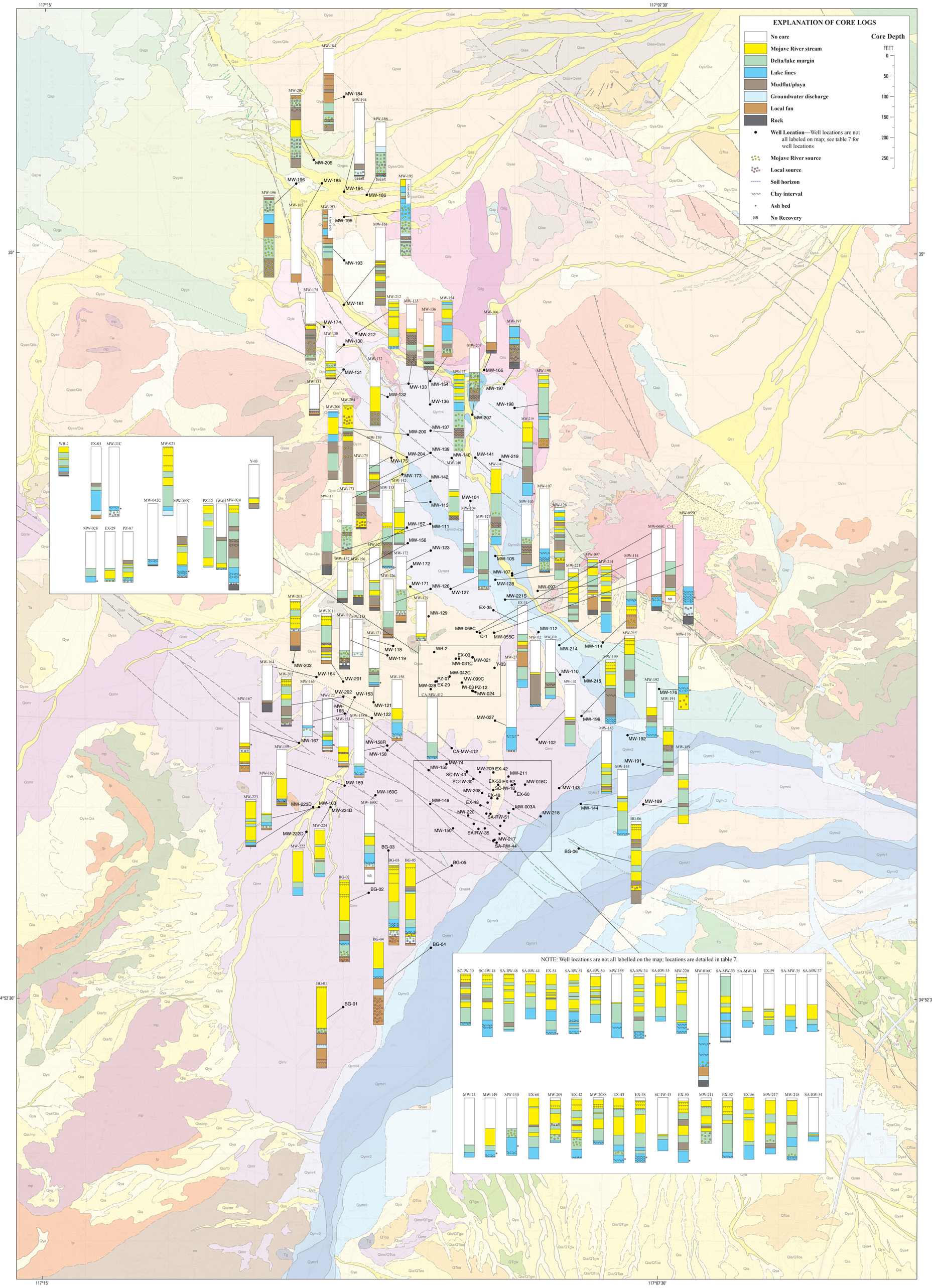
U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
Lahontan Regional Water Quality Control Board and the State Water Resources Control Board

Scientific Investigations Map 3458
Sheet 2 of 2
Pamphlet accompanies map



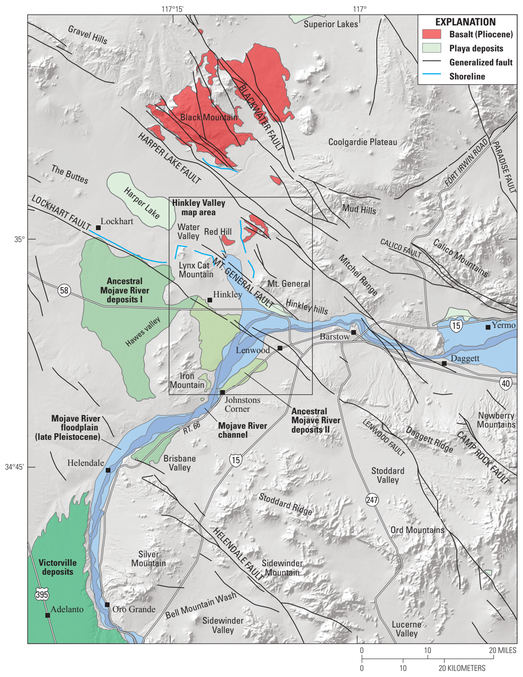


Figure 1. Simplified map showing the geology and geography of Hinkley Valley and vicinity, San Bernardino County, California. Shown are ancestral Mojave River clastic wedges (green units), modern Mojave River deposits (blue units), generalized faults (thick black lines), and mapped and approximated high shorelines in Harper Basin (blue lines). The location of the Black Mountain basalt in the map area is shown with respect to its source at Black Mountain. Box shows Hinkley Valley map area.

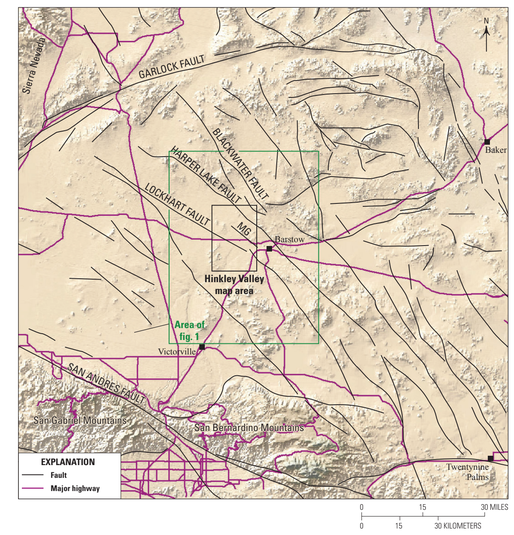


Figure 2. Map showing tectonic setting and major highways of the central Mojave Desert, southern California. Faults from Miller and others (2007). MG, Mount General Fault.



Photograph of discharging playa fringe (unit Qapw) and adjacent dry playa (unit Qap) of Harper Lake. Photograph by D.M. Miller taken west of Blacks Ranch (11/1/16).



Photograph of southern Hinkley Valley. Red Hill (Miocene rhyolite) on the left, with light-colored lacustrine sand beds (unit Qils) to the right. Black Mountain, draped by Pliocene basalt, in the background. Photograph by D.M. Miller (3/16/17).



Photograph showing pale, calcium-carbonate-charged sand in groundwater-discharge deposit (unit Qygs), southern Water Valley. Photograph by D.M. Miller (11/1/16).

Base from U.S. Geological Survey 7.5' topographic quadrangles: Barstow, Barstow SE, Hinkley, Hodge, Lockhart, Mud Hills, Twelve Gage Lake, Water Valley, Wild Crossing

APPROXIMATE MEAN DECLINATION, 2020

SCALE 1:30 000
1 MILE
1 KILOMETER

MAP LOCATION

Edited by J.L. Zigler; digital cartographic production by Katie Sullivan

Manuscript approved for publication July 1, 2020

Geologic Map and Borehole Stratigraphy of Hinkley Valley and Vicinity, San Bernardino County, California

By
David M. Miller, Victoria E. Langenheim, and Elizabeth K. Haddon

2020

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Suggested citation: Miller, D.M., Langenheim, V.E., and Haddon, E.K., 2020, Geologic map and borehole stratigraphy of Hinkley Valley and vicinity, San Bernardino County, California: U.S. Geological Survey Scientific Investigations Map 3458, pamphlet 23 p., 2 sheets, scale 1:24,000, https://doi.org/10.3133/sim3458.

Associated data for the publication: Langenheim, V.E., Morita, A.Y., Martin, A.J., Jordan, J., and Haddon, E.K., 2019, Gravity data of the Hinkley area, southern California: U.S. Geological Survey data release, https://doi.org/10.5066/P9FV5LG5.

ISSN 2329-132X (online)
https://doi.org/10.3133/sim3458