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December 2010

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Water Supply Well at Hoh Campground & Ranger Station, Olympic National Park

The water supply well at Hoh was constructed in October 1979. The well was drilled to 30 feet and obtains water from a layer of gravel; probably alluvium or glacial outwash. The driller's log for the well shows;

0-5 feet	Boulders and clay, gray
5-10 feet	Fir and cedar trees
10-18 feet	Sand and clay, gray
18-30 feet	Gravel, coarse-medium, water bearing

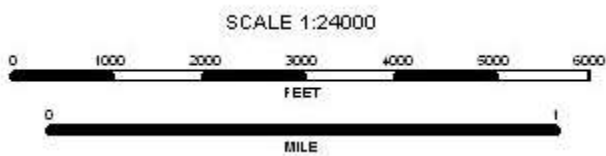
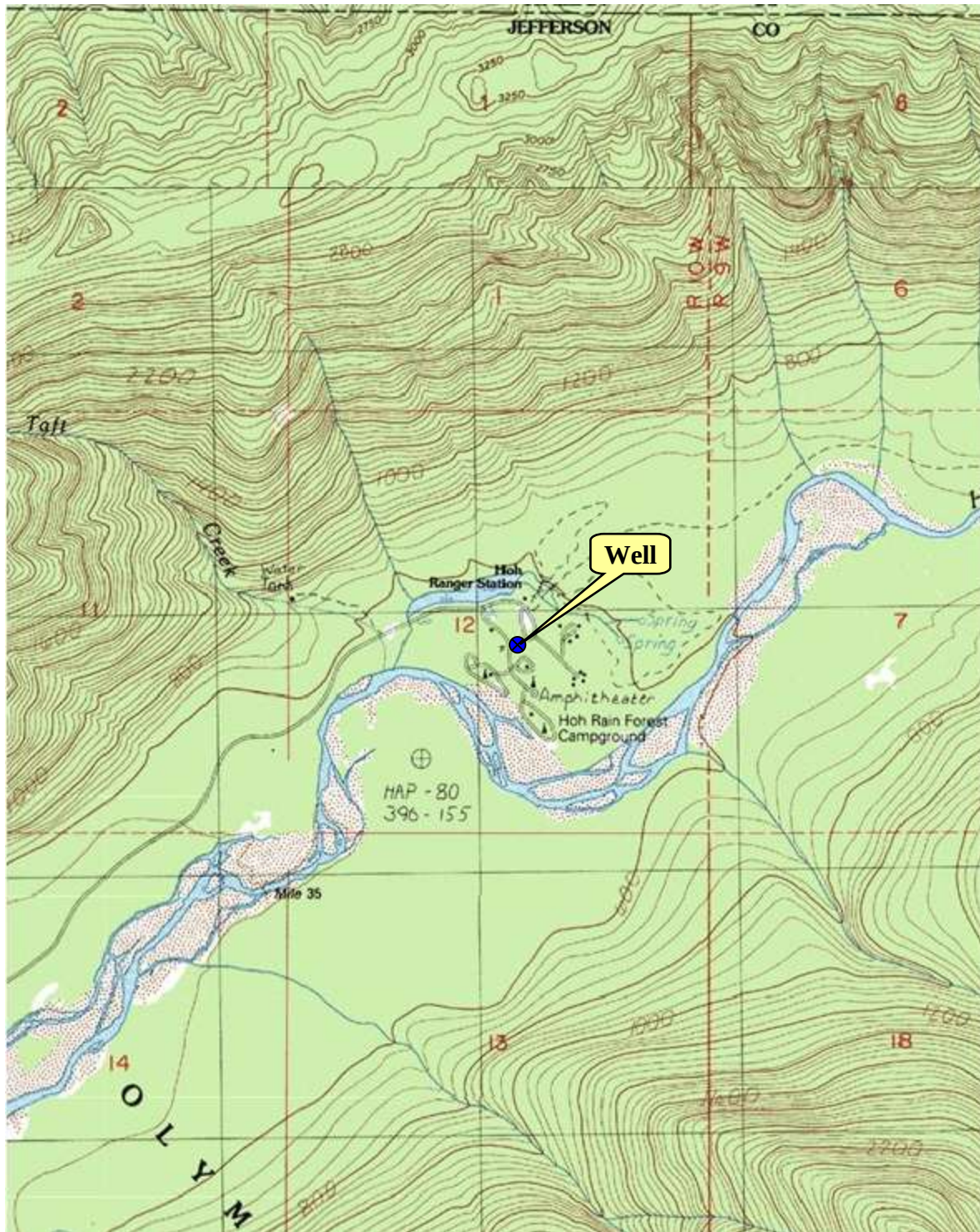
The well completion report shows that 8-inch casing was installed to 26 feet. There is no well screen and no perforations. All of the water enters the well through the bottom opening. There is no report of the yield from the well.

Summary

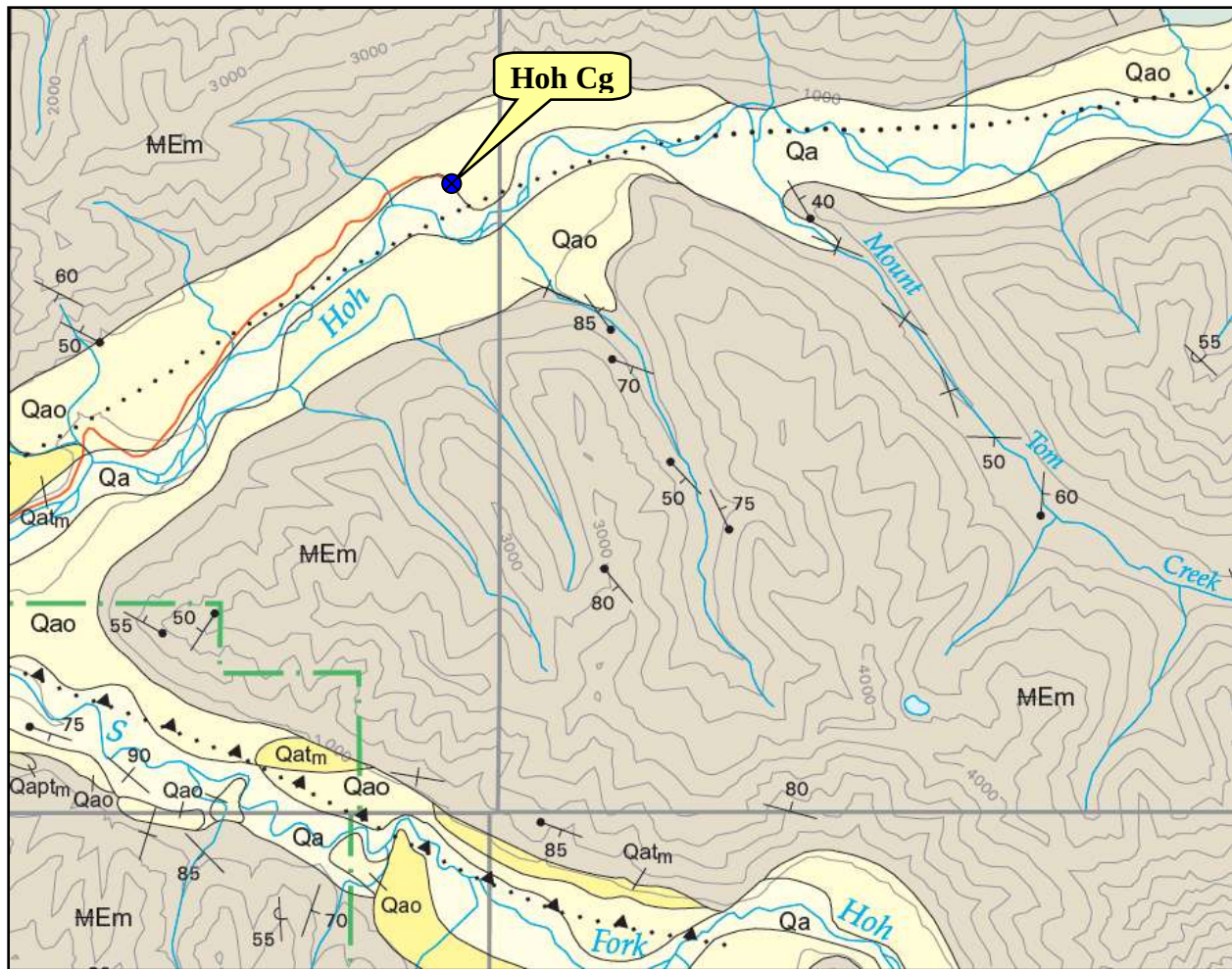
The existing shallow well passed MPA tests in 20XX. Groundwater from the well has been classified as "hydraulically connected with surface water". Filtration is not required by WA Dept. of Health, but disinfection (chlorination) is required. NPS policy is to disinfect all public water supplies.

NPS could conduct weekly testing of water quality parameters from the well and adjacent streams for a year to provide data for WA-DOH to evaluate. There's a very good chance that the source could be reclassified as "groundwater", which could be important in the future.

Alternatively, a new well could probably be sited at a location more than 200 feet from the river to avoid any regulation or evaluation for "groundwater under the direct influence of surface water". A new well location should be chosen at a site where it is unlikely that future migration/meandering of the stream will not reduce the separation to less than 200 feet.



**Hoh Ranger Station & Campground,
Olympic National Park**



A portion of the Port Angeles 1:100,000 geologic map
 By Wendy J. Gerstel and William S. Lingley, Jr. (2000).

Description of geologic map units

- Qa – Alluvium: well-sorted gravel, sand, silt, and clay deposited by running water in and along streams.
- Qao – Alpine glacial outwash, unconsolidated. Well-stratified deposits of cobble and pebble gravel in a sandy matrix. In the valleys, they form the upper 3–10 m of the terraces within 10–30 m in elevation above the alluvium (unit Qa). The outwash is derived solely from Olympic Peninsula rocks, which distinguishes these deposits from those left by the Juan de Fuca lobe of the continental glacier.
- MEM – Marine sedimentary rocks: thick-and-thin bedded sandstone and conglomerate and thin-bedded siltstone, shale, or slate.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Application No. _____

Permit No. _____

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Boulders and Clay, grey	0	5
Fir and Cedar Trees	5	10
Sand and Clay, grey	10	18
Gravel, coarse medium Water bearing	18	30

RECEIVED

~~DEC 4 - 1979~~

DEPARTMENT OF ECOLOGY
SOUTHWEST REGIONAL OFFICE

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Work started 10/17 19 79. Completed 10/17 19 79.

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME McClanahan Well Drilling (Person, firm, or corporation) (Type or print)
Address 141 ne Beacon Drive Grants Pass, OR 9752

[Signed] Guy L Miller
(Full Name)

License No. 1089 Date October 22 1979

(USE ADDITIONAL SHEETS IF NECESSARY)