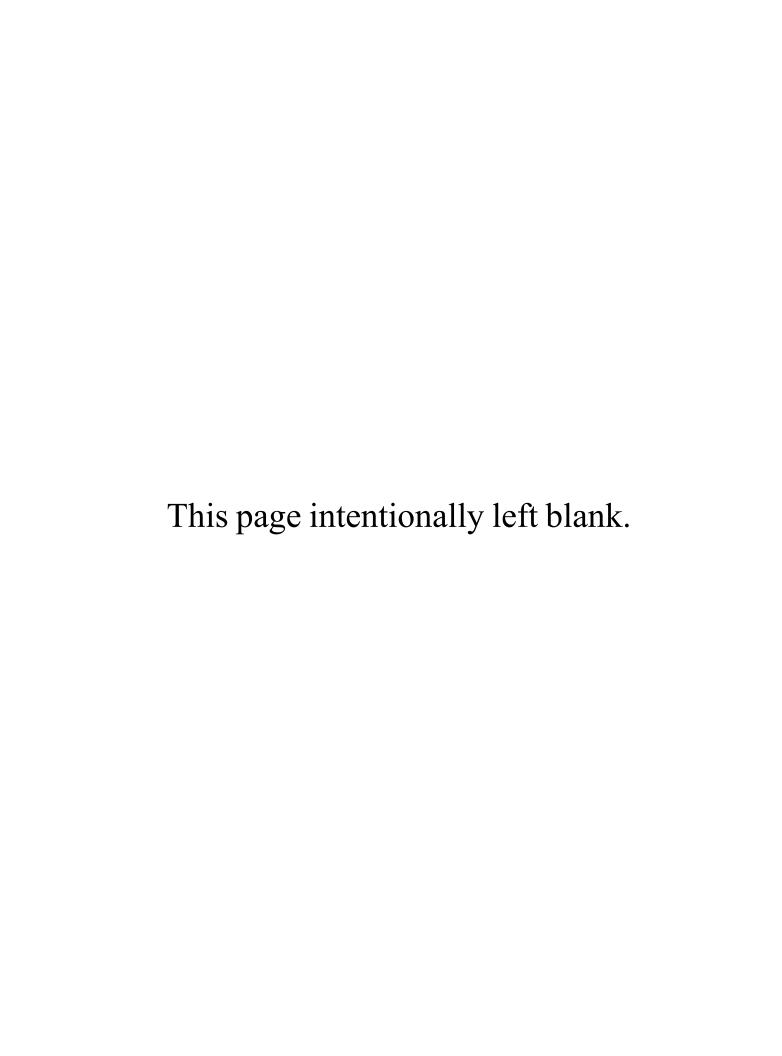
Exhibit D



March 3, 2024 Project No. G-893.2

Mr. Biloo Rataul Attn. Cayley Lambur, Principal 720 Hampton Drive Venice, CA 90291

LIB240076

Project: Proposed Fire Protection Water Well

County File No. PLN230291

APN 419-271-001 Clear Ridge Road Big Sur Region Monterey, California

Reference: Geologic Hazards Assessment, Proposed Above Ground Water Storage Tanks and Associated

Improvements, 46977 Clear Ridge Road, Big Sur Region, Monterey County, California, proj. no.

G-893.1, revised December 19, 2023.

Well Siting Map for 46820 Clear Ridge Road, APN 419-271-001, Located in Big Sur, Monterey County, California, sheet 1 of 1, dated, prepared by Rasmussen land Surveying, Inc., no date.

Subject: SUPPLEMENTAL GEOLOGIC EVALUATION OF FAULT HAZARDS

FOR FIRE PROTECTION WATER WELL

Dear Mr. Rataul,

We understand through our conversations with your project coordinator, Michael Linder that the county planning department is requiring an evaluation of faulting for the proposed Fire Protection Water Supply Well to be located on APN 419-271-001. This is due to the fact that because the site of the proposed water well is located within a county fault regulatory hazard zone. The purpose of the county fault regulatory zone is to trigger the need for a geologic evaluation of fault hazards for the project. We have attached to this letter a copy of the surveyed map of Rasmussen which shows the location of proposed and existing feartures, as well as the location of the proposed fire protection water tank. The second attached figure shows the mapped location of the Pfeiffer Fault with respect to the proposed Fire Protection Water Supply Well. We recently completed a Geologic Hazards Assessment for the proposed Above Ground Water Storage Tanks and Associated Improvements at the subject property, referenced to above. That geologic report did not specifically address the water well however it provided background on the local geologic setting and in particular, the Pfeiffer Fault in the immediate area of the site. The following comes from our previous geologic hazards assessment for the site:

A surface trace the Pfeiffer Fault, a basal detatchment fault (or a Décollement) is mapped just to the north of the site as an irregular-shaped outcrop pattern on the geologic map of Wills et al. (2001) (See Regional Geologic Map, and Local Fault Map, Appendix A). Because of the mapping of this fault adjacent to the site, the site is included within a county regulatory zone for fault hazards. It should be pointed out that this fault is constrained completely within the Cretaceous geologic formation and, because it is essentially flat-lying, it juxtaposes KJfc (underlying the fault) from the Ks geologic unit (overlyng the fault as a *Klippe*). The fault essentially forms a nearly horizontal surface with the overlying Ks unit representing a Klippe. The fault does not extend continuously through the formation and therefore no longer is subject to the tetonic forces that originally led to its formation. The geologic unit ("Ks") above the fault is essentially an erosional remnant overlying an inactive fault. This fault is not considered a Quaternary fault and does not pose a threat to the proposed site improvements.

For the reasons stated above, the local segment of the Pfeiffer Fault mapped onsite does not pose a hazard to the proposed Fire Protection Water Well, as it does not have a potential for future surface rupture movement in an earhquake.

If you have any questions or require clarification, please feel free to contact me at your earliest convenience. Thank you. Sincerely,

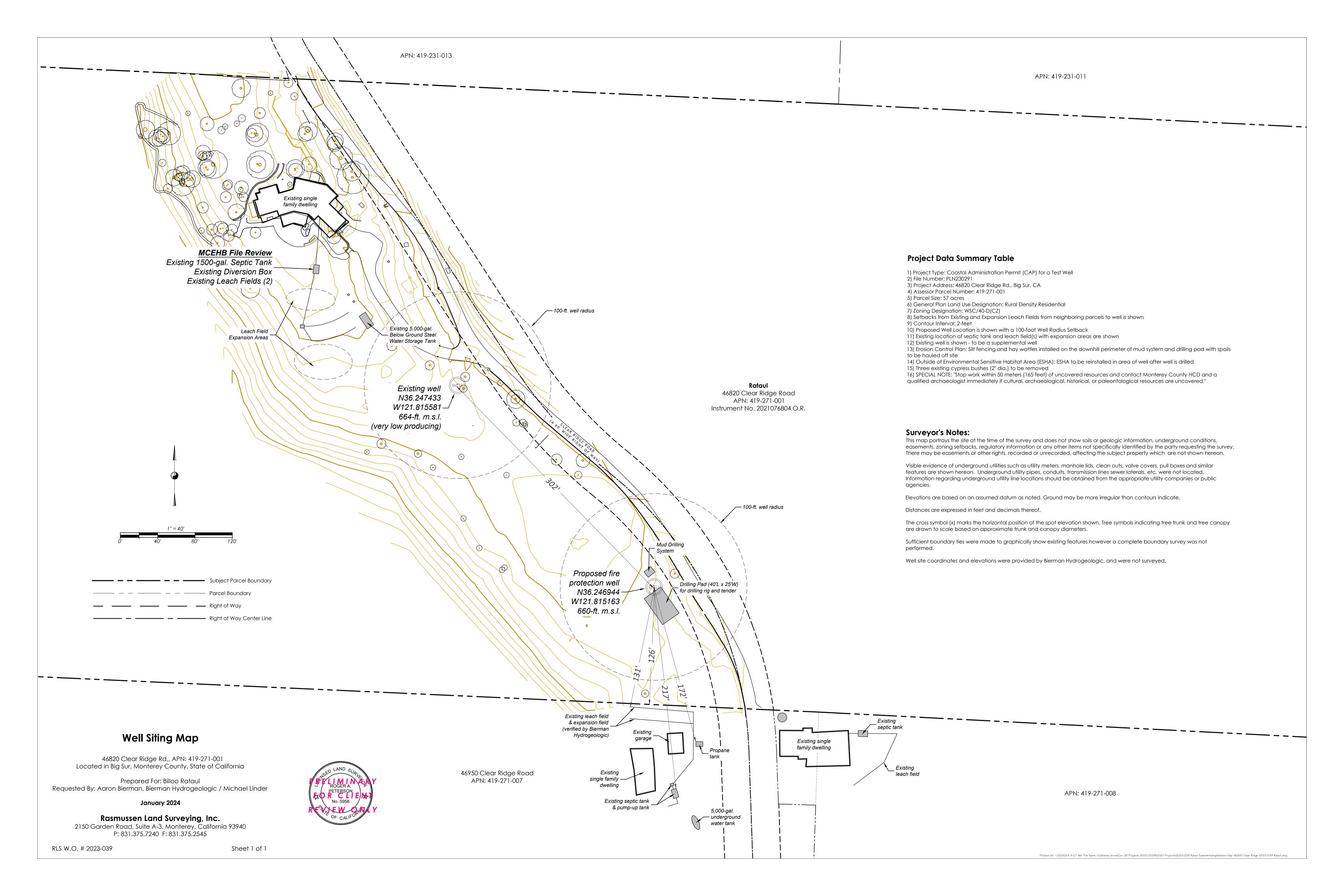
No. 2275

Craig S. Harwood

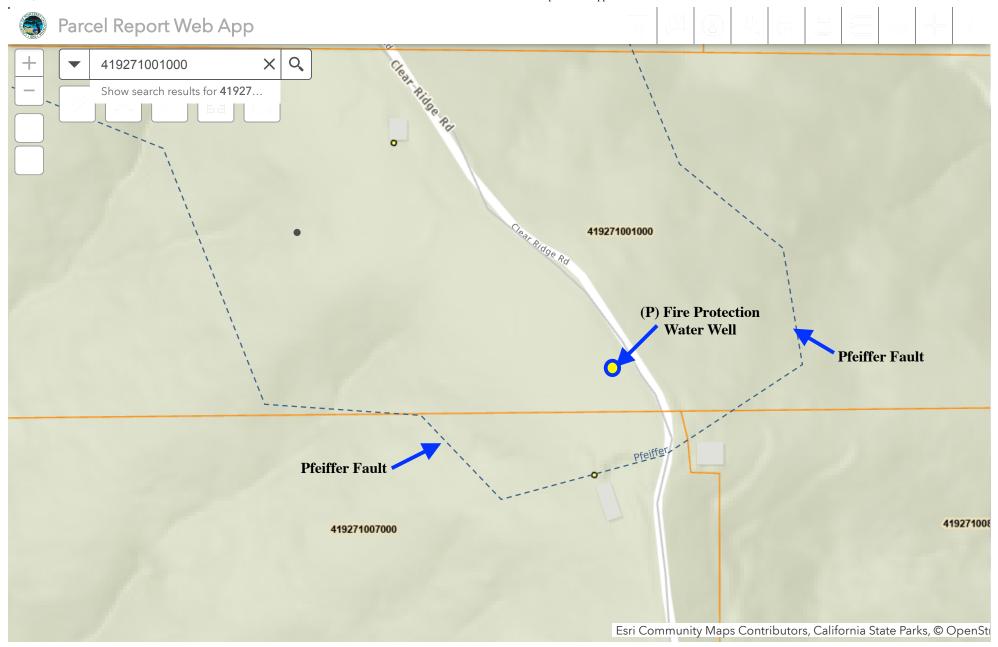
Porfessional Geologist #6831,

Certified Engineering Geologist #2275

239 Park Drive Ben Lomond, CA 95005 tel 831 325-9327 email kirnig@cruzio.com



3/3/24, 10:55 AM Parcel Report Web App



Proposed Fire Protection Water Well APN 419-271-001 Clear Ridge Road, Big Sur, CA

0 100 200ft -121.81707 36.24805 Degrees

Scale: 1 in = 188 ft, RF = 1:2,257



Hydrogeologic Consulting & Water Resource Management
Office:(831-689 9886) Cell:(831-334 2237) E-Meil:abierman@comcast.net
3153 Redwood Drive, Aptos, CA. 95003

January 25, 2024

Monterey County Housing and Community Development

Attn; Hya Honorato – Assistant Planner HonoratoH@co.monterey.ca.us 1441 Schilling Place, 2nd Floor Salinas, California 93901

(831) 755-5173

Subject: Geologic Hazard Assessment Letter for 46820 Clear Ridge Road, Big Sur, CA

PLN:230291

Bierman Hydrogeologic (BHgl) has been contracted by Mr. Rataul Biloo to review the Geologic Hazard Assessment Report prepared by Craig Harwood PG# 6831 dated December 2023. Mr. Harwood prepared the above referenced Report for an above ground water storage tanks and associated improvements for 46977 Clear Ridge Road, which is opposite (east) of this project located at 46820 Clear Ridge Road, Big Sur.

BHgl scope of work was to review the Geologic Hazard Assessment Report to provide a Letter for 1) meeting the requirements of the Application Checklist, 2) and to evaluate the fault (which is north of the subject property) and whether this fault would impact the well.

The fault described in Geologic Hazard Assessment Report (Harwood 2023) is identified as a basal detachment fault (De'collement) which is an irregularly shaped outcrop pattern as noted on the MC GIS database (MC GIS map attached with reference to Sims, 1990). As described in the reference Report, this fault is horizontal and separates the lower KJfc Formation (Franciscan Formation) with that of the upper irregularly shaped Ks Formation (Unnamed Marine Sedimentary Rocks). Because this fault is horizontal, it does not intersect the formation the proposed well will penetrate (KJfc) and therefore does not pose any impacts to the well, it's source capacity or, the well's groundwater quality.

In summary, further geologic mapping by Bierman was completed on January 11, 2024, to evaluate the fault described in the referenced Geologic Hazards Assessment Report and as mapped on the MC GIS Database. It should be noted that other USGS Maps (Geologic Map of the Point Sur, Big Sur and Pfeiffer Point Quadrangles by Dibblee, 2007) have this irregularly shaped formation as a "geologic contact" and unconformity and not necessarily a fault as shown in the MC GIS database. In any event, as described above, due to the horizontal orientation of this contact (or fault), it will not impact the proposed wells quantity or quality.

Respectfully submitted,

Aaron Bierman

CA Licensed Professional Geologist #7490

CA Licensed Hydrogeologist #819

Faults



MoCo GISAdminCounty of Monterey

Summary

The purposes of this data set are to show the location of faults and to provide a comparison of relative fault rupture hazard for regional planning studies in Monterey County.

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Download

Details



i July 11, 2023 Info Updated

May 19, 2014
Data Updated

May 14, 2014
Published Date

Records: 2.077

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