

APPENDIX E

APPLICATION FOR WELL OPERATING PERMIT

Complete Items No. 1 through 23 and submit application fee as set forth in the Water Resource Development and Operating Regulations. No application fee is required for monitoring wells. Make checks payable to the Treasurer of Guam.

I. Background Information:

1. Date of Application: 20 JANUARY 1999

2. Type of Application:

☐ New

☒ Extension

Previous Well Operating

Numbers: 0594-022 EXPIRES - 12 MAY 1999

3. Name of Well Owner: HAWAIIAN ROCK PRODUCTS CORP.
(name of individual, company, agency, etc.)

Mailing Address: P.O. BOX H
HAGATNA, GUAM 96932-8907

Telephone : (671) 734-2971

4. Name of Owner of property on which well is located:
JUDGE BAMBA MEMORIAL TRUST (LANDLORD). A COPY OF THE LEASE
AGREEMENT WAS FILED WITH GEPA ON PREVIOUS APPLICATIONS.

If owner of the land on which the well is located and the owner of the well are not the same, written notarized permission from the owner of the land shall be filed with the application.

II. Well Information:

5. Type of Well (indicate one):

☐ Public Water Supply Well

☐ Individual Domestic Well

☒ Industrial Well

☐ Recharge or Injection Well

☐ Agricultural Well

☐ Monitoring Well

☐ Irrigation Well (Golf Course)

☐ Grounding Well

☐ Others _____

6. Purpose for which water is to be used:
FOR MANUFACTURING ROCK PRODUCTS AT SIX (6) MAJOR PRODUCTION
PLANTS. ALSO USED FOR DUST CONTROL ON GROUNDS INCLUDING
JOBSITES AS REQUIRED.

7. Pumping Rates:

Design Pumping Rate : 300 gpm
Maximum Pumping Rate: 300 gpm

8. Estimated Hours of Operation:

18 - 20 HOURS per day
600 - 700 HOURS per month
7,800 HOURS per year

9. Estimated Volume of Water to be Pumped on an Annual Basis:

129,600,000 gallons per year
(NOT TO EXCEED 153 MILLION GALLONS)

III. Well Location:

10. Provide a plot plan drawn to a scale of 1" = 50' showing known references such as streets, property lines, and survey monuments, including GGTN coordinates of the well to the nearest foot.

IV. Well Drilling Summary:

11. Period of well drilling:

Starting Date: 14 SEPTEMBER 1959

Completion Date: 20 OCTOBER 1959

12. Well Drilling Contractor: SINGER/LAYNE INTERNATIONAL
GUAM DIVISION.

13. Well Drilling Permit No. NOT AVAILABLE

14. Total Depth of Well: 352 feet

Elevation (MSL) of Ground Surface at Casing: 327 feet

Elevation (MSL) of Top of Well Casing: 344 feet

15. Describe Method and Type of Drilling:

ROTARY HYDRAULIC

16. Casing:

Casing Hole Diameter: 14 inches

Depth (length from surface): 352 feet

Casing Type: SOLID Size (ID): 10 in.

Wall Thickness: 322 inches

Weight: NOT AVAILABLE lbs.

Material: TYPE B, ASTM A-40 STEEL

Describe the procedures of the installation of casing: INFORMATION NOT AVAILABLE

17. Well Screen:

Screen Type (ID): 10 in. Slot Size: 25 in.

Screen Diameter: 10 in. Material: STEEL

Location (from surface) 332 ft. to 352 ft.

Describe Method of Installation:
20 FT. STAINLESS STEEL SCREEN WELDED AT THE BOTTOM
OF THE CASING.

18. Cement Grouting:

Material: 3,000 PSI E-5 Total Depth: 317 ft.

Gravel Size: 37-.50 in.

Annular Thickness: 20 feet

Cubic Yards of Cement Placed: UNKNOWN

Describe Method of Grouting Used and Emplacement

Placement Procedures: POUR IN PLACE

19. Describe Well Development Method(s): INFORMATION
NOT AVAILABLE

V. Well Construction Summary:

20. Flow Measurement and Testing, if performed:

Pump Capacity: 300 gpm

Static Water Level: 2' ABOVE SEA LEVEL feet

Pumping Water Level: 3' BELOW SEA LEVEL feet

Air Line Length: 27 feet

Top Elevation (MSL): 348.30 feet

Bottom Elevation (MSL): -83.0 feet

Specific Capacity at Test: N/A gpm

Describe Method Used for Flow Measurement and
Testing: BAGER WATER METER GRADUATED IN 30 GPM

22. Provide a plan(s) of the well showing the following
information

(a) Control valves, sampling tap(s), misc.
fittings and appurtenances, and discharge
piping;

(b) Flow metering device, including size, and flow
range and manufacturer; 4" BADGER 300 GPM

(c) Vertical cross-section of the well showing details of the casing, grouting, pump setting, gravel pack, water level measurement devices;

(d) Chlorination and fluoridation equipment; and

(e) Elevation and location of permanent benchmark.

23. Describe provisions for protecting the wellhead from erosion and animals and other contamination by specifying provisions for sanitary well seal, casing height above ground, and flood level elevation, etc.

4" THICK X 12' SQUARE CONCRETE SLAB.

24. Describe methods and procedures used for disinfecting the well:

NOT APPLICABLE

25. If not previously submitted, attach a log of the well to the application.

VI. Signature:

I JOSE C. QUITUGUA, ADMINISTRATIVE MANAGER
Name Title

state that I have knowledge of the facts herein set and that the same are true and correct to the best of my knowledge and belief and are made on good faith.

Signature: [Signature] Date: 20 June '99

(For Agency Use Only)

Inspection of the well facilities was conducted on _____

_____ by _____

Findings:

Water sample taken on _____ by _____

Results of the water quality analyses are attached.

Reviewed by the Chief Engineer:

----- Date -----

Recommendations:

☐ Approved
☐ Disapproved

Reasons for disapproval:

Signed:

----- Date -----
Administrator

Well No. -----

Well Operating Permit No. -----

Date Issued -----

Expiration Date -----