**DESCRIPTION**

<table>
<thead>
<tr>
<th>Date of report</th>
<th>Oct 20, 1986</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person filling report</td>
<td>JIMMY D. WILLIAMS</td>
</tr>
<tr>
<td>Well</td>
<td>CABLE TOOL DRILLING COMPLETED Oct 86</td>
</tr>
</tbody>
</table>

**ELEVATION**

- msl: Top of drilling platform 200 ft. Bench mark and method used to determine elevation: N.A.

**CASING INSTALLED**

- P.V.C. 6 in. I.D. x 322 in. wall solid section to 38 ft. below drilling platform.
- P.V.C. 6 in. I.D. x 280 in. wall perforated section to 85-225 ft. below drilling platform.

**ANNULUS**

- Grouted 0 ft. to 38 ft. below drilling platform.
- Gravel packed ft. to ft. below drilling platform.

**PERMANENT PUMP INSTALLATION**

- Pump type, make, serial no.: Submersible Grunzes
- Motor type, H.P., voltage, r.p.m.: 3 H.P. 230 V. 3-3 Wire
- Depth of pump intake setting: 198 ft. below R.P.
- Depth of bottom of airline: ft. below drilling platform.
- Height of drilling platform: ft.

**HYDROLOGY**

- Water level: 193 ft. below drilling platform. Date of measurement: Oct 1, 1986
- Initial Chloride: 200 ppm, total depth of well: 225 ft. below drilling platform. Date of measurement: Oct 1, 1986

**PUMPING TESTS**

<table>
<thead>
<tr>
<th>Date</th>
<th>Oct 1, 1986</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start water level</td>
<td>193 ft. below R.P.</td>
</tr>
<tr>
<td>End water level</td>
<td>193 ft. below R.P.</td>
</tr>
<tr>
<td>Depth of well</td>
<td>225 ft. below R.P.</td>
</tr>
<tr>
<td>Elapsed Time (hours)</td>
<td>Rate (gpm)</td>
</tr>
<tr>
<td>8 to 10 hrs</td>
<td>350</td>
</tr>
<tr>
<td>10 to 12 hrs</td>
<td>200</td>
</tr>
</tbody>
</table>

**TEMPERATURE**

- Elapsed Time (hours) | Temp. "F |
- 8 to 10 hrs | 75 |

**SUBSURFACE FORMATION**

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 35</td>
<td>Brown Clay Medium</td>
</tr>
<tr>
<td>35 to 43</td>
<td>Blue Rock Hard</td>
</tr>
<tr>
<td>43 to 102</td>
<td>Brown Clay Medium</td>
</tr>
<tr>
<td>102 to 182</td>
<td>Brown Clay Soft</td>
</tr>
<tr>
<td>114 to 125</td>
<td>Blue Rock Hard</td>
</tr>
<tr>
<td>125 to 132</td>
<td>Brown Clay Medium</td>
</tr>
<tr>
<td>132 to 153</td>
<td>Red Clay Medium</td>
</tr>
<tr>
<td>153 to 168</td>
<td>Blue Rock Medium</td>
</tr>
<tr>
<td>168 to 170</td>
<td>Red Brown Clay Silt</td>
</tr>
<tr>
<td>170 to 188</td>
<td>Blue Rock Medium</td>
</tr>
<tr>
<td>188 to 225</td>
<td>Blue Rock Very Hard</td>
</tr>
</tbody>
</table>

**REFERENCES**


**INSTRUCTIONS**

Send three(3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.
Gary Swanson Well  Kalaheo  1005-01  491 Kilauea, Kauai  6754  4th Div. 5-2 05

8 5/8 x .322 wall thickness

38 feet

Surface Elevation  200

Static Water Level 193'

P.R.M. Chloride  200

Production by Test Pumping

35 G.P.M.

Water Temp.  75°

Cement grouted from ground to 38 feet

185

185 feet of 6 5/8 schedule 40 P.V.C. solid pipe

640' feet of 6 5/8 schedule 40 P.V.C. plastic pipe casing with 4 rows of 1/8 x 3 inch long perforations

8 cuts per foot
PUMPING SYSTEM FOR GARY SWANSON WELL #1385-01
OCT. 1986 AT KALAHIRAI
4TH WV. 5-2-05

3 HP. SP-4-26 GRUNFOS STAINLESS STEEL SUBMERSIBLE PUMP
3 HP FRANKLIN CONTROL BOX
200 FEET OF 10-3 SUBMERSIBLE PUMP WIRE
30 AMP DISCONNECT BOX
8 X 1 1/2 WELL CAP
1 1/2 GALVANIZED PIPE FOR DROP PIPE TO PUMP.
(3) #6 WIRES IN 1 1/2 CONDUIT FROM STUDIO.
(1) #8 GROUND WIRE IN 1 1/2 CONDUIT FROM STUDIO

STATIC WATER LEVEL 193'
CHLORIDE P.P.M. 200
MAXIMUM PUMPING 35 GPM
WATER TEMP. 75°
WELL DRILLING PERMIT

for

State Well No. 1325-01
Kalihiwai, Hanalei, Kauai

TO: Mr. Gary R. Swanson
P.O. Box 491
Kilauea, Kauai 96754

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii," your application to drill a domestic/agricultural well (State Well No. 1325-01) is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. Monthly reports of pumpage shall be submitted after the well is put into production.

4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

5. The applicant comply with all applicable laws, rules, and ordinances.

Date of Issuance

8/25/86

SUSUMU ONO
Chairman of the Board
FROM:  
DATE: 1-88  
FILE IN:  

TO:  INITIAL:  

PLEASE:  

REMARKS:  

M. TAGOMORI  See Me  
T. Fujii  Take Action By  
H. Sakai  Route to Your Branch  
H. Morimatsu  Review & Comment  
A. Ching  Draft Reply By  
G. Morimoto  Acknowledge Receipt  
G. Matsumoto  Xerox copies  
P. Matsuo  Return  
L. Asari  File  
G. Matsumoto  For Information  

J. Sato  
D. Hamada  
L. Nanbu  
J. Siarot  
E. Yonamine  
K. Oshiro  

GUMMAD FORM OF REST SET II  

DOES NOT MATCH WITH WAFERATION.  

ISO ST. THIS WAP.
APPLICATION FOR (check one)

X WELL DRILLING PERMIT  [ ] WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area? Yes  [X] No

If "yes", application must be accompanied by a Water Use and/or Water Supply Permit and a non-refundable filing fee of $100 payable to the Department of Land & Natural Resources. However, if application is for minor modification of well, filing fee may be waived. If "no", no filing fee is required. Filing fee is waived for federal, state, and county government agencies.

1. WELL LOCATION: Island KAUA'I Tax Map Key 16-6-2-05. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER GARY R. SWANSOND Telephone 828-1557
   Address P.O. Box 491 KUAKINI, KAUA'I Zip Code 96744

3. PROPOSED DRILLING COMPANY: ALOHA DRILLING 26-1456 EVA 1409

4. PROPOSED WORK: [X] Drill new well  [□] Deepen  [□] Redrill  [□] Alter  [□] Seal
   [□] Abandon  [□] Install new pump  [□] Replace pump  [□] Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):

INTEND ON GETTING INTO ROCK STRUCTURE AT 35 FEET. WOULD LIKE TO CEMENT SURFACE CASING INTO ROCK FORMATION

PROPOSED SECTION OF WELL

Elevation at top of casing 90 ft., msl.

Cement Grout 40 ft.

Hole Dia. 8 in.

Total Depth 100 ft.

Rock Packing NONE

*Approximate elev. at filing. Final elev. (msl) by a surveyor licensed by the State must be submitted at start of construction.

5. PROPOSED USE: [□] Municipal  [□] Military  [□] Agriculture  [□] Industrial
   [□] Domestic  [□] Disposal  [□] Other (specify) ___

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.
   [X] Daily 14,400 gallons  [□] Monthly  ___ gallons  [□] Yearly ___ gallons

7. PROPOSED PUMP OR FLOW CAPACITY 210-226 GPM  ___ gallons per minute

Signature: _______________ Date: 7-25-86

Signature: _______________ Date: 7-25-86

For Official Use:

State Well No. 1325-01 (K)

DLNR Permit No. 1325-01 (K)

DLNR Application No. ________