FROM: RYAN  
DATE: 14-Jun-11 
SUSPENSE DATE: 21-Jun-11

TO: FUJII, N.  
INIT:  
TO: KUNIMURA, I.  
INIT:  
FOR: Approval  
P LEASE: See Me

TO: HARDY, R.  
INIT:  
TO: TAM, W.  
INIT:  
FOR: Signature  
P LEASE: Review & Comment

TO: HOAGBIN, S.  
INIT:  
TO: NAKAMA, L.  
INIT:  
FOR: Information  
P LEASE: Take Action

TO: IMATA, C.  
INIT:  
TO: UYENO, D.  
INIT:  
FOR:  
P LEASE: Type Draft acknow letter

1 wells  
2 type final, label file folder, update People.db

3 file & input issue date  
4 Xerox ___ copies

WELL NUMBER  5610-04  
WELL NAME Kahinano  
WUP Number na

☐ WELL CONSTRUCTION  ☐ PUMP INSTALLATION  ☐ WUPA  
☐ WUP Transfer  ☐ DEC-ADM97-A1 Modification

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated

1 TRANS. LETTER  
2 PERMIT PROCESS TABLE  
3 CWRM MAPS  
4 APPL. FORM (11 COPIES)  
5 USGS MAPS (11 COPIES)  
6 TAX MAPS (11 COPIES)  
7 PARCEL OWNER VERIF.  
8 CONTRACTOR VERIF.  
9 ALL INFO FILLED IN  
10 BACKGROUND CHECK  
11 $25 FEE DEPOSIT SLIP  
12 DHP/CDUP/SMA pre-screen  
13 EA 343 5(a) triggers?

☐ NO  
YES - trigger identified is: ____________________________________________________________________________

EXEMPT/SEE ATTACHMENT  

FOLDER:  
☐ MADE NEW FILE FOLDER, ATTACHED  
☐ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE  
ACTION

1 ATP  
15 expiration letters

Pump test data for 3568-02?
August 22, 2011

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR #3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 5610-04

We have received your Well Construction/Pump Installation permit application and filing fee for the Kahinano Well (Well No. 5610-04). We are processing your past well completion reports, and there are some discrepancies that need to be resolved by you (specifically a pump test for well no. 3558-02). However, we can still process this application for review. If the review warrants the issuance of a permit, we will either send you: 1) the approved permits, or 2) a letter of assurance that the permit will be issued to you once your outstanding completion report issues are resolved to our satisfaction.

The attached table describes the process, responsible parties, and deadline requirements for drilling or modifying a well and installing, modifying, or replacing a pump.

By this acceptance letter, we are also notifying the well operator/landowner that no water may be pumped other than for testing until a certificate of well construction/pump installation completion letter is issued to the well operator and landowner.

The permitted pump capacity described on the pump installation permit may be reduced if the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission determines that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. Thus, you may need to remove the pump and install a smaller pump if the Commission decides a smaller pump is required to protect water resources before you can withdraw water for purposes other than testing.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70255.

Sincerely,

WILLIAM M. TAM
Deputy Director

RI:ss
Attachment
c: Geoffrey Molfin
TO: Honorable Loretta J. Fuddy, A.C.S.W., M.P.H., Director
   Department of Health
   Attention: Acting Chief, Wastewater Branch
   Joanna L. Seto, Chief, Safe Drinking Water Branch
   Alec Wong, Chief, Clean Water Branch
   Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: William J. Aila, Jr., Chairperson
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application

Kahinano Well (Well No. 5610-04) TMK 3-4-003:001
Well address: 34-1106 Hawaii Belt Road

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by September 6, 2011. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable spigots with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

It does not appear that this well will be used for consumptive purposes and is not subject to Safe Drinking Water Regulations.

For the applicant’s information, a source of possible wastewater contamination is not located near the proposed well site (information attached).

An NPDES permit is required.

Other relevant DOH rules/regulations, information, or recommendations are attached.

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and we do not need to review the new location.

No comments/objections

Contact Person: Phone:
Signed: Date:
Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by September 6, 2011. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255.

RI:ss
Attachment(s)

RESPONSE:
[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.
[ ] A water lease/permit is not required of this applicant.
[ ] A water lease/permit has been obtained by the applicant through lease no. ____________________________.
[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.
[ ] No objections
[ ] Other comments:

Contact Person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
TO: Dr. Puulaokalani Aiu, Administrator
    Historic Preservation
    Attn: Theresa Donham

FROM: William M. Tam, Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Kahinano Well (Well No. 5610-04) TMK: 3-4-003:001

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by September 6, 2011. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255. If you require additional information regarding specific information that can be provided by the applicant, please contact the applicant directly at the contact information provided on the application form.

RI:ss
Attachment(s)

RESPONSE:

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] will [ ] may disturb historic sites.

[ ] We concur that the work described under this permit will not disturb historic sites.

[ ] We do not concur that the work described under this permit will not disturb historic sites. We require the following for our concurrence:

Contact Person: _____________________________ Phone: _________________

Signed: _____________________________ Date: ____________________________
<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo Tnr</th>
<th>Address</th>
<th>Owner/Lessee</th>
<th>Bds</th>
<th>Bths</th>
<th>Land area</th>
<th>Liv area</th>
<th>Last Sale Instr</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>3-3-4-3-1</td>
<td>Waikaumalo</td>
<td>F 34-1106 MOLFINO, HAWAII GEORGE M &amp; BEVERLY</td>
<td>BELT RD</td>
<td>1</td>
<td>1</td>
<td>2.45 ac</td>
<td>2,852</td>
<td>6/6/1997 DEED $175,000</td>
<td></td>
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</table>

This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed. Copyright ©8/10/2011
<table>
<thead>
<tr>
<th><strong>GENERAL LICENSEE</strong></th>
</tr>
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<tbody>
<tr>
<td>LIC ID: CT-23379</td>
</tr>
<tr>
<td>NAME: RODNEY K DIAMOND</td>
</tr>
<tr>
<td>TRADE NAME:</td>
</tr>
<tr>
<td>STATUS: CURRENT, VALID &amp; IN GOOD STANDING</td>
</tr>
<tr>
<td>ENTITY: INDIVIDUAL</td>
</tr>
<tr>
<td>ORIG LIC DATE: 10/12/2001</td>
</tr>
<tr>
<td>CLASS PREFIX: BC</td>
</tr>
<tr>
<td>RESTRICTION:</td>
</tr>
<tr>
<td>CONDITIONS AND LIMITATIONS:</td>
</tr>
<tr>
<td>BUSINESS ADDR: HCR #3 BOX 14073 KEAAU HI 96749</td>
</tr>
<tr>
<td>MAILING ADDR:</td>
</tr>
</tbody>
</table>

Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808) 587-3295.
### Document:

**Department of Land and Natural Resources**

**UAC or Attached Worksheet**

**Date:** June 8, 2011

<table>
<thead>
<tr>
<th>F YR APP D</th>
<th>SRC/ OBJ</th>
<th>COST</th>
<th>PH ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION (WANG INPUT)</th>
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</thead>
<tbody>
<tr>
<td>$ 11 326 C</td>
<td>1026 0752</td>
<td></td>
<td></td>
<td>(1) $25.00</td>
<td>Rod Diamond</td>
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<td>(2) $25.00</td>
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<td></td>
<td></td>
<td></td>
<td>TOTAL</td>
<td>$ 175.00</td>
</tr>
</tbody>
</table>

**Remarks:**

- **LINE (1)** Paul's Well
- **LINE (2)** Nahla Well
- **LINE (3)** Powers Farm Well
- **LINE (4)** Kahanano Well
- **LINE (5)** Lua Wai Well
- **LINE (6)** Well #3 and Well #4
- **LINE (7)** Well #1 and Well #2
- **LINE (8)**
- **LINE (9)**
- **LINE (10)**
Lorrie,
For the Water Commission, I was signing their form and emailing it back - now since this is going to you instead, I will need to make a new form - I'm not going to write individual letters for each well. Please be patient, there are choke people waiting for my reply on everything under the sun.

Rod Diamond <diamond.drilling.pump@gmail.com>
05/27/2011 12:49 PM To Theresa.K.Donham@hawaii.gov cc Subject Re: Conservation Clearance on following Properties
To Theresa.K.Donham@hawaii.gov
cc
Subject Re: Conservation Clearance on following Properties

Ryan,
The Hilo office is closed until June 15th. Therefore Theresa is out. I have showing above what she sent me regarding all of these applications.
Dear Mr. Diamond,

Please except our apologies for late response.

Tax Map Keys:

1-3-003: 022 SLU Agricultural
1-5-031: 069 SLU Agricultural District
2-8-008: 003 SLU Agricultural / Conservation District
3-4-003: 001 SLU Agricultural / Conservation District
4-8-003: 010 SLU Agricultural District
4-8-003: 012 SLU Agricultural District

If you require clarification or further assistance please feel free to contact our office at 808-587-3822.

Mahalo,

Fred Talon
State Land Use Commission
Phone: (808) 587-3822
Fax: (808) 587-3827
E-Mail: ftalon@dbedt.hawaii.gov or luc@dbedt.hawaii.gov
Website: http://luc.state.hi.us
May 11, 2011

Mrs. Lorrie Diamond
Diamond Drilling & Pump, LLC
HC 3 Box 14073
Kea'au, HI 96749-9229

Dear Mrs. Diamond:

SUBJECT: Special Management Area (SMA) Permitting Requirements Various Parcels: Hawai'i

Thank you for your recent email correspondence dated May 4, 2011 requesting Special Management Area (SMA) permitting requirements for the following proposed water well projects.

It is our understanding that your company will be submitting applications for well construction/ pump installation permits with the Department of Land and Natural Resources Commission on Water Resource Management. As part of the application, you are requested to obtain the SMA permitting requirements from our office.

For your use and convenience, we have provided the following table. It includes the County Zoning designation, State Land Use designation, and General Plan LUPAG designation. It also indicates whether or not the property is located within the SMA and if any SMA permit is required from the Planning Department for well construction/ pump installation.
<table>
<thead>
<tr>
<th>Well Name</th>
<th>TMK</th>
<th>County Zoning</th>
<th>State Land Use</th>
<th>LUPAG</th>
<th>SMA</th>
<th>SMA Permits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well #1</td>
<td>(3)4-8-003:010</td>
<td>Agricultural-40a</td>
<td>Agricultural</td>
<td>Important Agricultural Lands</td>
<td>Not in SMA</td>
<td>None Required</td>
</tr>
<tr>
<td>Well #2</td>
<td>(3)4-8-003:010</td>
<td>Agricultural-40a</td>
<td>Agricultural</td>
<td>Important Agricultural Lands/ Expansion</td>
<td>Not in SMA</td>
<td>None Required</td>
</tr>
<tr>
<td>Well #3</td>
<td>(3)4-8-003:010</td>
<td>Agricultural-40a</td>
<td>Agricultural</td>
<td>Important Agricultural Lands</td>
<td>Not in SMA</td>
<td>None required</td>
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<td>Well #4</td>
<td>(3)4-8-003:012</td>
<td>Agricultural-40a</td>
<td>Agricultural</td>
<td>Important Agricultural Lands</td>
<td>Not in SMA</td>
<td>None Required</td>
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<tr>
<td>Nahla Well</td>
<td>(3)2-8-008:030</td>
<td>Agricultural-40a</td>
<td>Agricultural</td>
<td>Important Agricultural Lands</td>
<td>Not in SMA</td>
<td>None Required</td>
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<tr>
<td>Lua Wai Well</td>
<td>(3)1-5-031:069</td>
<td>Agricultural-1a</td>
<td>Agricultural</td>
<td>Open</td>
<td>Within SMA</td>
<td>SAA-11-000655 exempted well from permitting requirements</td>
</tr>
<tr>
<td>Kahionano Well</td>
<td>(3)3-4-003:001</td>
<td>Agricultural-20a</td>
<td>Agricultural/ Conservation</td>
<td>Important Agricultural Lands/ Open</td>
<td>Within SMA</td>
<td>Exempt per Planning Department letter dated August 9, 2000</td>
</tr>
<tr>
<td>Powers Farm Well</td>
<td>(3)1-3-003:022</td>
<td>Agricultural-10a</td>
<td>Agricultural</td>
<td>Important Agricultural Lands</td>
<td>Not in SMA</td>
<td>None Required</td>
</tr>
</tbody>
</table>

We have no further comments to offer, at this time.
If you have any questions or if you need further assistance, please feel free to contact Bethany Morrison of this office at 961-8138.

Sincerely,

BJ LETTLEHEAD TODD
Planning Director

cc: Mr. Ryan Imata
State of Hawai‘i
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ORIGINAL

MAILED

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 821, Honolulu, Hawaii 96809. Application must be accompanied by 10 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 897-6226. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

WELL LOCATION INFORMATION
1. STATE/WELL NO. (if already sequenced) Kahanano Well 3. ISLAND Hawaii
2. WELL NAME
4. TIME 3 - 4 003 001
5. WELL OPERATOR'S NAME/COMPANY
6. LANDOWNER'S NAME/COMPANY
7. OPERATOR'S Contact same
8. LANDOWNER'S Contact same
9. Well Operator's Mailing Address
10. Landowner's Mailing Address
11. Well Operator's Phone
12. Landowner's Phone
13. Well Operator's Fax
14. Landowner's Fax
15. Well Operator's E-mail
16. Landowner's E-mail

PROPOSED WELL CONSTRUCTION
7. Proposed Work
8. Construction Type
9. Drill
10. Proposed Work
11. Proposed Pumping Rate, gpm (gallons per minute)
12. Proposed Amount of Withdrawal, gpd (gallons per day)
13. Method of flow measurement
14. Flow meter
15. Open Pipe
16. Well
17. Other

PROPOSED PUMP INSTALLATION
18. Irrigation (describe crop and no. of acres)

19. Military (describe)

20. Other (describe)

OTHER LEGAL REQUIREMENTS
21. Conservation District Use Permit (CDUP)
22. Special Management Area Permit (SMA)
23. Hawaii Commercial Fishing Permit
24. Environmental Impact Statement
25. Water Use Permit No. (if applicable)

26. WELL DRILLER (Must be filled out if application is for Well Construction)
Rodney K Diamond
BC23379
6/28/2010

27. PUMP INSTALLER (Must be filled out if application is for Pump Installation)
Rodney K Diamond
BC23379
6/28/2010

NOTE: Signature below indicates that the signaturees understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signaturees understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in loss of up to $5000 daily.

HCR #3 Box 14073 Keaau HI 96749
HCW App. Form 03/2010
**PROPOSED WELL SECTION** (Please attach schematic if different from diagram provided below)

Hole Diameter: **8.5 inches**

**Elevation at top of casing:** 255 ft., msl*

Minimun of 2’ Radius & 4” Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.

**Ground Elevation: 245 ft., msl**

Ground Elevation: **245 ft., msl**

Solid Casing: (>= 90% x (Ground Elev.-Water Level Elev))

<table>
<thead>
<tr>
<th>Total Length</th>
<th>Nominal Diameter</th>
<th>Well Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 ft.</td>
<td>4.5 ft.</td>
<td>5 in.</td>
</tr>
</tbody>
</table>

**Bottom Elevation:** -15 ft., msl*

Open Casing:

Material:  
- || Perforated | Screen |
- Total Length: | 15 ft. |
- Nominal Diameter: | 4.5 ft. |
- Well Thickness: | 5 in. |
- Bottom Elevation: | -15 ft., msl* |

* note: Neither bentonite nor mud should be used in saturated zone during drilling

**Estimated Water Level Elevation:** 5 ft., msl*

**Total Depth:** 260 ft.

**Rock or Gravel Padding:**

- Total Depth: 260 ft.
- Material: || Crushed Basalt | Rounded Gravel |
- Estimated Water Level Elevation: 5 ft., msl*

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your well is in compliance with applicable standards.

*The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.*

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - 41 x Water Level Elevation / 4)

Example: Estimated + 2 ft. Water Level Elev. >>> Bottom Elevation of Well Limit = (2 - 41 x (2) / 4) = -18.5 ft.

**Solid Casing Material:**

Carbon Steel: compliant with (check one or more):  
- ANSI/AWWA C200  
- API Spec. 5L  
- ASTM A53  
- ASTM A139  

And compliant with (check one or more):  
- ASTM A242 (or A606)  
- Type E  
- Type S  
- Grade B  
- Other Stainless Steel: (check one): 
- ASTM A409 (production wells)  
- ASTM A312 (monitor wells)  

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one):  
- Schedule 40  
- Schedule 80  

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one):  
- Schedule 40  
- Schedule 80  
- Schedule 120  

Thermoset Plastic: (check one):  
- Filament Wound Resin Pipe conforming to ASTM D2296  
- Centrifugally Cast Resin Pipe conforming to ASTM D2397  
- Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517  
- Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950  
- PTFE Fluorocarbon Tubing conforming to ASTM D3296  
- FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**

Carbon Steel: compliant with (check one or more):  
- ANSI/AWWA C200  
- API Spec. 5L  
- ASTM A53  
- ASTM A139  

And compliant with (check one or more):  
- ASTM A242 (or A606)  
- Type E  
- Type S  
- Grade B  
- Other Stainless Steel: (check one):  
- ASTM A409 (production wells)  
- ASTM A312 (monitor wells)  

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one):  
- Schedule 40  
- Schedule 80  

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one):  
- Schedule 40  
- Schedule 80  
- Schedule 120  

Thermoset Plastic: (check one):  
- Filament Wound Resin Pipe conforming to ASTM D2296  
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- Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517  
- Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950  
- PTFE Fluorocarbon Tubing conforming to ASTM D3296  
- FEP Fluorocarbon Tubing conforming to ASTM D3296

Note: Neither bentonite nor mud should be used in saturated zone during drilling.

**Depth:** 245 ft., msl*

**Ground Elevation:** 245 ft., msl*

**Estimated Water Level Elevation:** 5 ft., msl*

**Distance:** 3 ft.
NEW RESIDENCE FOR:

GEOFFREY & BEVERLY MOLFINO

20 MM. HAWAII BELT ROAD HIGHWAY 19
NINOLE, N. HILO
T.M.K. (5) 3-4-003: 001 Lot A

LOT SIZE: 2.485 Acres
ZONING: R-20 CONSERVATION
LIVING AREA: 2,922.44 S.F.
NON-LIVING AREA: 1,028.14 S.F.

LOCATION MAP

are to locate
well bore.

Existing
30'x45'x14'
existing
steel frame

SITE PLAN
WELL LOCATION INFORMATION

1. STATE WELL NO. (if already required) 2. WELL NAME Kahinano Well
3. ISLAND Hawaii
4. TAH 3 4 003 001
5. ZONE DEC PLAT PAGE

The following shall be attached before this application is accepted as complete (check all that apply):

- Porportion of 7.5 Minute Series (U.S.G.S) topographic map (scale 1:24,000) with well location labeled and include the name of the quadrat map.
- Property tax map, showing well location referenced to established property boundaries.
- Photograph of the proposed well site.
- A schematic diagram showing the soil type, access road and proposed well infrastructure (if applicable)
- For dual wells, attach a grading plan with cross section profiles showing existing and future grades.

6. LANDOWNER’S NAME/COMPANY Geoffrey M. & Beverly Lind Molfino
7. LANDOWNER’S Contact same

Well Operator’s Mailing Address PO Box 190 Papal o'la, HI 96780

Well Operator’s Phone 963-6880

Well Operator’s Fax

Well Operator’s E-mail

Landowner’s Phone

Landowner’s Fax

Landowner’s E-mail bewt@molfino.com

PROPOSED WELL CONSTRUCTION

7. Proposed Work:
- X Construct New Well
- Yes X No
- Modify Existing Well
- X Abandon/Seal Well
- X Drilled.
- X Drilled.
- X Install New Pump
- X Replace Pump
- X Septic Tank

8. Is this well part of a battery of wells?

PROPOSED PUMP INSTALLATION

11. Proposed Pumping Rate, gpm (gallons per minute)
- X 25
- X 550

12. Method of Flow measurement
- X Open Pipe
- X Office
- X Other

13. Proposed Amount of Withdrawal, gpd (gallons per day)
- X 550

OTHER LEGAL REQUIREMENTS if required, Items 21, and 22 must be obtained before the Commission can legally issue a permit

21. Conservation District Use Permit (CDUP)
- X Well in Conservation District
- X Well is not in Conservation District
- Required, CDUP # date approved
- Not Required (attachment document from OGL/OGS)
- X Not Required (attachment document from applicable County Agency)
- X I have not checked with the County about whether or not a CDUP is required.
- X I have not checked with OGL/OGS about whether or not a CDUP is required.

22. Special Management Area Permit (SMAP)
- Required, SMAP # Date approved
- X Not Required (attachment document from applicable County Agency)
- X I have not checked with the County about whether or not a SMAP is required.
- X I have not checked with OGL/OGS about whether or not a SMAP is required.

23. State Historic Preservation Officer (SHPO) of the Department of Land and Natural Resources
- X I have consulted with SHPO regarding potential impacts of well construction activities on Historic sites. I have attached applicable documentation from SHPO.
- X I have not consulted SHPO regarding potential impacts of well construction activities on historic sites.

24. Chapter 23
- X An Environmental Assessment was completed, and
- X A Environmental Impact Statement was required and has been accepted (attach letter of acceptance). Publication date on The Environmental Notice: A finding of No Significant Impact has been determined (attach letter). Publication date on The Environmental Notice:
- X This project proposes: Use of state or county lands, or use of state or county funds
- Use within a state conservation district
- Use within a state or county facility
- Use within the Waikiki Special District
- Use within a deconservation district
- Use within a state conservation district
- A wastewater treatment facility
- A sewer system
- A wastewater treatment facility
- A wastewater treatment facility
- Power-generating facility

25. Water Use Permit No. (if applicable)
- X Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

26. WELL DRILLER (Must be filled out if application for Well Construction)

Rodney K Diamond
BC23379
C-384/CWCA License No.
10 May 2011

HCR #3 Box 14073 Keaau HI 96749
987-8100 966-4129
diamond.dilling.pump@gmail.com

27. PUMP INSTALLER (Must be filled out if application is for Pump Installation)

Rodney K Diamond
BC23379
C-384/CWCA License No.
10 May 2011

HCR #3 Box 14073 Keaau HI 96749
987-8100 966-4129
diamond.dilling.pump@gmail.com

NOTE: Signing below indicates that the signatures understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatures understand that upon permit approval 1) the proposed work is to be completed within 2 (two) years of the approval date, 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work, 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought to compliance, and any work done while the permit is in suspension may result in fines of up to $1000.00.
PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

Hole Diameter: 8.5 inches
Elevation at top of casing: 255 ft., msl*

Cement Grout: 182 ft. (min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

Ground Elevation: 245 ft., msl*

Minimum of 2" Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Solid Casing: (> 90% x (Ground Elev - Water Level Elev))
Total Length: 245 ft.
Nominal Diameter: 4.5 in.
Wall Thickness: S40 in.
Bottom Elevation: 0 ft., msl*

Open Casing: \( \text{Perforated} \) \( \text{Screen} \)
Total Length: 15 ft.
Nominal Diameter: 4.5 in.
Wall Thickness: S40 in.
Bottom Elevation: 0 ft., msl*

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation - 41 x Water Level Elevation / 4)
Example: Estimated < 2 ft. Water Level Elev. > > > Bottom Elevation of Well Limit = (2 - 41 x (2) / 4) = -18.5 ft.

Solid Casing Material:
Carbon Steel: compliant with (check one or more): ANSI/AWWA C200  API Spec. 5L  ASTM A53  ASTM A139
And compliant with (check one or more): ASTM A242 (or A606)  Type E  Type S  Grade B  Other
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)  Schedule 40  Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one)  Schedule 40  Schedule 80  Schedule 120
Thermoset Plastic: (check one)
- Filament Wound Resin Pipe conforming to ASTM D2996
- Centrally Cast Resin Pipe conforming to ASTM D2997
- Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
- Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
- PTFE Fluorocarbon Tubing conforming to ASTM D3296
- FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
Carbon Steel: compliant with (check one or more): ANSI/AWWA C200  API Spec. 5L  ASTM A53  ASTM A139
And compliant with (check one or more): ASTM A242 (or A606)  Type E  Type S  Grade B  Other
Stainless Steel: (check one): ASTM A409 (production wells)  ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one)  Schedule 40  Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one)  Schedule 40  Schedule 80  Schedule 120
Thermoset Plastic: (check one)
- Filament Wound Resin Pipe conforming to ASTM D2996
- Centrally Cast Resin Pipe conforming to ASTM D2997
- Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
- Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
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WCPI App. Form 8/31/10