We should have issued this back in 10/108—since that's when they signed it, but the "permit type" in the database shows "well" only (must be a mistake they signed both). What is okay and I will accept, but we should send the permit out ASAP (they asked). It's also 8/11/09 is across town today is Steve Rowe's explanation vs. Kohanim 1 D&B.
August 11, 2009

Mr. Derrick Moreira  
Derrick’s Well Drilling  
P.O. Box 2187  
Keeau, HI 96749

Dear Mr. Moreira:

Pump Installation Permit  
Mahukona Well (Well No. 7153-01)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 14:

**Special Conditions**

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

2. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

3. The permittee shall conduct aquifer pump tests in accordance with the Hawaii Well Construction and Pump Installation Standards (revised February 2004) on the latest aquifer pump test data forms, which are available by contacting staff or on the web at [www.hawaii.gov/dlnr/cwrm/forms.htm](http://www.hawaii.gov/dlnr/cwrm/forms.htm).

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

**IMPORTANT** - Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), extension 70255.

Sincerely,

[Signature]

Chairperson

Enclosure

C: Kohala Preserve Conservation Trust  
USGS  
Hawaii DWS
PUMP INSTALLATION PERMIT
Mahukona Well, Well No. 7153-01

Note: This permit shall be prominently displayed at the site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Mahukona Well (Well No. 7153-01) at TMK 5-7-002:036, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 250 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant; assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

14. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: August 11, 2009
Expiration Date: August 11, 2011

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer’s Signature: C-57, C-57a, or A License #: C-28001 Date: 
Printed Name: Derrick Moreira Firm or Title: Derrick’s Well Drilling

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachments
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE 11/14/07

FROM:  RYAN    DATE:  27/08    SUSPENSE DATE:  

TO:  CHENG, C.  INIT.  TO:  LEROUX, E.  INIT.  FOR:  Approval  PLEASE:  See Me
CHING, F.          KUNIMURA, I.          Signature
CHONG, R.          NAKAMA, L.          3  Information
DANBARA, S.        OHYE, M.          1  Review & Comment
ENGLAND, D.        SAKODA, E.          Take Action
FUJII, N.          SWANSON, S.          Type Draft
1  HARDY, R.        3  UYENO, D.          Type Final
2  HOAGBIN, S.      2  YODA, K.          4  File
ICE, C.            YOSHINAGA, M.      Xerox  copies
4  IMATA, R.        
3  KIMURA, J.        

WELL NUMBER  7153-01  WELL NAME  Mahukona

application type  WELL
1  WCP COVER LETTER  \checkmark  
2  WCP  in file
3  WELL CHECK PRINTOUT
4  PIP COVER LETTER  well only, not necessary
5  PIP

COMMENTS:
6  SDWB  3  all in file
7  WWB  0  no need
8  CWB
9  LD  
10  HP
11  LUC  not in conservation district
12  OCCCL  not in conservation district
13  SMA  not in saa

NOTES:
DRILLER  0
TMK  5-7-002:036
PUMP CAPACITY  0
WELL OWNER  Kohala Preserve Conservation Trust
LAND OWNER  Kohala Preserve Conservation Trust
COMMENT DEADLINE  5/18/07

See Signed application form rec'd
2/6/08.
February 12, 2008

Mr. Derrick Moreira
Derrick’s Well Drilling and Pump Service
P.O. Box 2187
Keeau, HI 96749

Dear Mr. Moreira:

Well Construction Permit
Mahukona Well (Well No. 7153-01)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for a permanent pump. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 13:

Special Conditions

1. Attached for your information are copies of the Department of Health’s (DOH) review comments. Please note DOH’s requirements related to discharge of effluent from well drilling and testing activities.

2. Please note that while you did not prepare the cross section on the well construction permit application form, the well casing wall thickness was shown as deficient. Please be aware that the casing wall thickness must be compliant with Section 2.4(b) of the Hawaii Well Construction and Pump Installation Standards.

Please refer to the Permit Processes Worksheet (transmitted with your acknowledgement letter) for further information regarding the process of drilling a well and installing a pump.

No withdrawal of water shall be made other than for testing purposes until a certificate of pump installation completion has been issued by the Commission.

Please sign both permit originals and return one for our files. For copies of the aquifer pump test worksheet, please call staff or visit www.state.hi.us/dlnr/cwrmlforms.htm.

IMPORTANT - Drilling work shall not commence until a fully signed permit is returned to the Commission. The permit shall be prominently displayed or made available at the construction site during construction. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Ryan lmata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), extension 70255.

Sincerely,

LINDA LINGLE
GOVERNOR OF HAWAII

Ref: 7153-01.wcp

LAURA H. THEILEN
CHAIRPERSON

Enclosures

c: Kohala Preserve Conservation Trust (with applicable comments – DOH SDWB, WWB, CWB)

USGS

Hawaii DWS
WELL CONSTRUCTION PERMIT

Mahukona Well, Well No. 7153-01

Note: This permit shall be prominently displayed at the construction site until the work is completed.

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management’s Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Mahukona Well (Well No. 7153-01) at TMK 5-7-002:036, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.
2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff at www.hawaii.gov/dlnr/cwrn/forms.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources’ State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrn/forms.htm for current form).

9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

10. The well construction permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the HWCPIS. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

11. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the day the permit expires.

12. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the underlying condition of my ability to proceed and understand that I shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Date of Approval: February 6, 2008
Expiration Date: February 6, 2010

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller’s Signature: ____________________________ C-57 License #: C-28001 Date: ____________________________

Printed Name: Derrick Moreira Firm or Title: Derrick's Well Drilling and Pump Service

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

WELL LOCATION INFORMATION

1. STATE WELL NO. (if newly assigned) 
   Mahalouna Well #1
2. ISLAND 
   Oahu
3. TOWN 
   Honolulu
4. STREET OR ADDRESS 

The following must be attached before this application is accepted as complete:

- A topographical map showing the well site, access road and proposed well infrastructure
- Photograph of the proposed tank site
- A schematic diagram showing the well site, access road and proposed well infrastructure
- Property tax map, showing well location referenced to established property boundaries
- A non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. For information and updates to this application form, visit http://dlnr.hawaii.gov/permits.

5. WELL OPERATOR'S NAME/COMPANY
   Kohala Preserve Conservation Trust
   Bill Shortell
   P.O. Box 335, Hawi, Hawaii 96719
   (808) 885-6257

6. LANDOWNER'S NAME/COMPANY
   Kohala Preserve Conservation Trust
   Bill Shortell
   P.O. Box 335, Hawi, Hawaii 96719
   (808) 885-6267

PROPOSED WELL CONSTRUCTION

7. Proposed Work
   [ ] Uplift New Well
   [ ] Seismic Retrofit
   [ ] Abandon/Sell Well
   [ ] Modify Existing Well
   [ ] Replace Pump
   [ ] Repair Tank

8. Construction Type
   [ ] Complete Well
   [ ] Partially Complete Well
   [ ] Abandon/Sell Well

9. Construction Type
   [ ] Complete Well
   [ ] Partially Complete Well
   [ ] Abandon/Sell Well

PROPOSED PUMP INSTALLATION

10. Proposed Work
    [ ] Install New Pump
    [ ] Replace Pump

11. Proposed Pumping Rate, gpm (gal/min per well)
    [ ] 250 gpm

12. Proposed Amount of Withdrawal, gpd (gal/min per day)
    [ ] Other

    [ ] Other

14. Well Type
    [ ] Open Pipe
    [ ] Other

15. Landowner's Contact
    [ ] Other

16. Is this well part of a battery of wells? [ ] Yes [ ] No

17. Proposed USE
    [ ] Municipal (water systems serving greater than 25 individuals or 15 service connections)
    [ ] Domestic
    [ ] Irrigation (describe crop and/or area of interest)
    [ ] Military
    [ ] Other (describe)

18. Proposed USE
    [ ] Municipal (water systems serving greater than 25 individuals or 15 service connections)
    [ ] Domestic
    [ ] Irrigation (describe crop and/or area of interest)
    [ ] Military
    [ ] Other (describe)

OTHER LEGAL REQUIREMENTS

19. Conservation District Use Permit (CDUP)
    [ ] Required, CDUP #
    [ ] Date approved
    [ ] Not required, applicant must submit documentation from CDUP
    [ ] I have not checked with CDUP about whether or not a CDUP is required. I understand that checking with CDUP prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

20. Special Management Area Permit (SMAP)
    [ ] Required, ZMZA #
    [ ] Date approved
    [ ] Not required, applicant must submit documentation from SMAP
    [ ] I have not checked with SMAP about whether or not a SMAP is required. I understand that checking with SMAP prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

21. Hawaii Preservation Ordinance (HPO) of the Department of Land and Natural Resources
    [ ] I have consulted with the HPO regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPO.
    [ ] I have not consulted with the HPO regarding potential impacts of well construction activities on historic sites. I understand that checking with the HPO prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued. Additionally, the history of past land use is attached.

22. Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

NOTE: By signing below, the applicant represents, under penalty of perjury, that the information provided is true and correct to the best of their knowledge. Further, the applicant represents that the permit will be obtained in a timely manner. The permit will be issued for the period of time specified by the law. The permit is subject to all conditions and limitations imposed by the law. The permit is subject to all conditions and limitations imposed by the law.

24. WELL DRILLER (must be filled out if application is for Well Construction)
    [ ] Phone: 808-980-1234
    [ ] Fax: 808-980-1234
    [ ] Email: example@email.com
    [ ] Address: 123 Main St, Honolulu, HI 96813

25. PUMP INSTALLER (must be filled out if application is for Pump Installation)
    [ ] Phone: 808-980-1234
    [ ] Fax: 808-980-1234
    [ ] Email: example@email.com
    [ ] Address: 123 Main St, Honolulu, HI 96813

WCP Application Form 05/12/2008
FROM: RYAN
DATE: 6/8/07
TO: CHING, F.
      CHONG, R.
      DANBARA, S.
      ENGLAND, D.
      FUJI, N.
      HARDY, R.
      HOAGBIN, S.
      ICE, C.
      IMATA, R.
      KIMURA, J.
TO: KUNIMURA, I.
      NAKAMA, L.
      OHYE, M.
      SAKODA, M.
      SWANSON, S.
      UYENO, D.
      YODA, K.
      YOSHINAGA, M.
FOR: Approval
      Signature
      Information
PLEASE: See Me
        1 Review & Comment
        3 Type Draft
        2 Type Final
        4 File
        Xerox ___ copies

WELL NUMBER 7153-01
WELL NAME Mahukona

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<td>5</td>
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COMMENTS:
- SDWB
- WWB
- CWB
- LD
- HP
- LUC
- OCCL
- SMA

NOTES:
- DRILLER
- TMK
- PUMP CAPACITY
- WELL OWNER
- LAND OWNER
- COMMENT DEADLINE

5/18

WWS
July 2, 2007

Mr. Milton Pavao
Department of Water Supply
County of Hawaii
345 Kekuanooa St.
Hilo, HI 96720

Dear Mr. Pavao:

Letter of Assurance for Well No. 7153-01

We have completed the review process for your well Construction/Pump Installation Permit application(s) and the permit(s) are ready to be issued. However, in accordance with the State Water Code, §174C-84(a), the permit can only be issued to a licensed contractor and to date one has not been identified for your well(s).

Once you have selected a licensed contractor, please have the contractor sign and return to the Commission a copy of the original application, upon which a permit will be immediately issued provided that the following conditions are met:

1. The contractor has no outstanding issues with the Commission.
2. There are no significant changes to the application.
3. There have been no significant changes to applicable laws, rules or regulations since the application date.
4. There have been no significant changes to hydrogeologic conditions since the application date.

Also, attached for your information are copies of comments from reviewing agencies.

Please note that the casing thickness specified in the application form is too thin. The casing wall thickness of the casing should comply with Section 2.4(b) of the Hawaii Well Construction and Pump Installation Standards.

If you have any questions, please contact Ryan Imata of the Commission staff at 587-0255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Enclosure

c: Kohala Preserve Conservation Trust
Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

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<td>Well Number</td>
<td>7153-01</td>
</tr>
<tr>
<td>Well Name</td>
<td>Mahukona 1</td>
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<tr>
<td>Ground Elevation</td>
<td>360</td>
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<td>Cement Grout</td>
<td>345</td>
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<td>39</td>
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<td>1 calculated head</td>
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<td>Public Water Supply Well?</td>
<td>yes</td>
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### Results

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<tr>
<td>Theoretical Thickness of Aquifer</td>
<td>14719</td>
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<tr>
<td>1/4 Aquifer Thickness</td>
<td>3679.75</td>
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| Depth of Well below Sea Level | 321 | okay | Section 2.2 |

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Minimum Wall Thickness Material</td>
<td>steel</td>
</tr>
<tr>
<td>Minimum Wall Thickness per standards</td>
<td>0.365</td>
</tr>
<tr>
<td>Well Thickness Provided</td>
<td>0.025</td>
</tr>
</tbody>
</table>

| Minimum Length of Solid Casing |          |
| 90% of ground to top of aquifer | 0.9 |
| Length of solid casing Provided | 353 | okay | Section 2.4(c) |

| Casing Material | ASTM A53 | In compliance | Section 2.4(d) |
| (for PVC only - check for 200' limit) | okay | Section 2.4(d) |

| Annular Space |          |
| Depth of Grouting |          |
| Calculated Depth of Grouting | 0.7 |
| Depth of Grouting provided | 345 | okay | Section 2.6(c) |
| Minimum Annular Space required | 1.5 |
| Thickness of Annular Space | 1 | too small | Section 2.6(d) |
April 17, 2007

TO: Russell Tsuji, Administrator
   Land Division

FROM: W. Roy Hardy, Hydrologic Program Manager
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Mahukona Well (Well No. 7153-01) TMK 5-7-002-036

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 May 18, 2007. 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.

XX I 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

XX I Other comments: Original source of private title is Land Commission Award No. 7715, Ap 7 issued prior to statehood.

Contact Person: Gary Martin                    Phone: 587-0421

Signed: ___________________________               Date: MAY 29 2007
TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Director’s Office
   Harold Yee, Wastewater Branch
   Stuart Yamada, Safe Drinking Water Branch
   Alec Wong, Clean Water Branch

FROM: Peter T. Young, Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
   Mahukona Well (Well No. 7153-01)

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 May 18, 2007. 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.

RI: Attachment(s)

RESPONSE: MAJ

This well qualifies as a source which will serve as a source of portable water to a public water system (defined as serving 25 or more people at least 60 days per year or 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.

1. 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.

2. 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 preventers by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable pipes with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

4. For the applicant’s information, a source of possible wastewater contamination (in | | | is located near the proposed well site, information attached)

5. An NPDES permit is required

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

7. 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.

8. No comments/objections

Contact Person: __________________________ Phone: __________________________

Signed: __________________________ Date: 4/23/07
Safe Drinking Water Branch

Standard Comments

March 11, 2004

Safe Drinking Water Branch

The Safe Drinking Water Branch administers programs in the areas of: 1) public water systems; 2) underground injection control; and 3) groundwater protection. Our general comments on projects are as follows.

Public Water Systems

• Federal and state regulations define a public water system as a system that serves 25 or more individuals at least 60 days per year or has at least 15 service connections. All public water system owners and operators are required to comply with Hawaii Administrative Rules, Title II, Chapter 20, titled Rules Relating to Potable Water Systems.

• All new public water systems are required to demonstrate and meet minimum capacity requirements prior to their establishment. This requirement involves demonstration that the system will have satisfactory technical, managerial and financial capacity to enable the system to comply with safe drinking water standards and requirements.

• Projects that propose development of new sources of potable water serving or proposed to serve a public water system must comply with the terms of Section 11-20-29 of Chapter 20. This section requires that all new public water system sources be approved by the Director of Health prior to its use. Such approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

• The engineering report must identify all potential sources of contamination and evaluate alternative control measures which could be implemented to reduce or eliminate the potential for contamination, including treatment of the water source. In addition, water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the state of Hawaii, must be submitted as part of the report to demonstrate compliance with all drinking water standards. Additional parameters may be required by the Director for this submittal or additional tests required upon his or her review of the information submitted.

• All sources of public water system sources must undergo a source water assessment which will delineate a source water protection area. This process is preliminary to the creation of a source water protection plan for that source and activities which will take place to protect the source of drinking water.
Projects proposing to develop new public water systems or proposing substantial modifications to existing public water systems must receive approval by the Director of Health prior to construction of the proposed system or modification. These projects include treatment, storage and distribution systems of public water systems. The approval authority for projects owned and operated by a County Board or Department of Water or Water Supply has been delegated to them.

All public water systems must be operated by certified distribution system and water treatment plant operators as defined by Hawaii Administrative Rules, Title 11, Chapter 11-25 titled; Rules Pertaining to Certification of Public Water System Operators.

All projects which propose the use of dual water systems or the use of a non-potable water system in proximity to an existing potable water system to meet irrigation or other needs must be carefully design and operate these systems to prevent the cross-connection of these systems and prevent the possibility of backflow of water from the non-potable system to the potable system. The two systems must be clearly labeled and physically separated by air gaps or reduced pressure principle backflow prevention devices to avoid contaminating the potable water supply. In addition backflow devices must be tested periodically to assure their proper operation. Further, all non-potable spigots and irrigated areas should be clearly labeled with warning signs to prevent the inadvertent consumption on non-potable water. Compliance with Hawaii Administrative Rules, Title 11, Chapter 11-21 titled; Cross-Connection and Backflow Control is also required.

All projects which propose the establishment of a potentially contaminating activity (as identified in the Hawai‘i Source Water Assessment Plan) within the source water protection area of an existing source of water for a public water supply should address this potential and activities that will be implemented to prevent or reduce the potential for contamination of the drinking water source.

For further information concerning the application of capacity, new source approval, operator certification, source water assessment, backflow/cross-connection prevention or other public water system programs, please contact the Safe Drinking Water Branch at 586-4258.

**Underground Injection Control (UIC)**

Injection wells used for the subsurface disposal of wastewater, sewage effluent, or surface runoff are subject to environmental regulation and permitting under Hawai‘i Administrative Rules, Title 11, Chapter 11-23, titled Underground Injection Control (UIC). The Department of Health's approval must be first obtained before any injection well construction commences. A UIC permit must be issued before any injection well operation occurs.

Authorization to use an injection well is granted when a UIC permit is issued to the injection well facility. The UIC permit contains discharge and operation limitations,
monitoring and reporting requirements, and other facility management and operational conditions. A complete UIC permit application form is needed to apply for a UIC permit.

- A UIC permit can have a valid duration of up to five years. Permit renewal is needed to keep an expiring permit valid for another term.

For further information about the UIC permit and the Underground Injection Control Program, please contact the UIC staff of the Safe Drinking Water Branch at 586-4258.

**Groundwater Protection Program**

- Projects that propose to develop a golf course are asked to use the *Guidelines Applicable to Golf Courses in Hawai‘i* (Version 6) in order to address certain groundwater protection concerns, as well as other environmental concerns.
April 17, 2007

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Director's Office
   Harold Yee, Wastewater Branch
   Stuart Yamada, Safe Drinking Water Branch
   Alec Wong, Clean Water Branch

FROM: Peter T. Young, Chairperson
   Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Mahukona Well (Well No. 7153-01)

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 May 18, 2007. 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.

RI:ss
Attachment(s)

RESPONSE:

This well qualifies as a source which will serve as a source of 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 meet Director of Health approval prior to use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Regarding Potable Water Systems, §11-19-7.

This well does not qualify as a source of 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 parameters 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 pipes 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 DOR 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: Shane Sugiri

Signed: [Signature]

Phone: 586-4309

Date: 4/23/07
The Department of Health, Clean Water Branch has the following comments:

For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (808) 586-4352.

For Well Pump Testing

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering State waters. Such measures shall include, if necessary, containment of the initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the discharger must obtain written permission from the owner of that storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.

JS/cr
April 17, 2007

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Director’s Office
   Harold Yee, Wastewater Branch
   Stuart Yamada, Safe Drinking Water Branch
   Alec Wong, Clean Water Branch

FROM: Peter T. Young, Chairperson
   Commission on Water Resource Management

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   Mahukona Well (Well No. 7153-01)

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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:

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[ ] 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 [ ] 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: Dane Hironaka in Kona
Phone: 822-1963
Signed: Choy Monikami on Oahu
Date: 4-23-2007
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN
DATE: 27-Feb-07
SUSPENSE DATE: 6-Mar-07

TO: CHING, F. INIT 4 NAKAMA, L.
FUJI, N. INIT 1 NAKANO, D.
GOODING, K. INIT 1 OHYE, M.
HARDY, R. INIT 1 SAKODA, E.
HIGA, D. INIT 2 SWANSON, S.
HOAGBIN, S. INIT 2 UYENO, D.
ICE, C. INIT 1 YODA, K.
IMATA, R. INIT 3 YOSHINAGA, M.
KUNIMURA, I. INIT 3

PLEASE:
1 Approval
1 Signature
3 Information
See Me
Review & Comment
Take Action
Type Draft acknow letter
1 Type Final, label file folder, update People.db
2 File
4 Xerox __ copies
2

WELL NUMBER 753-01
WELL NAME Mahukona 1

WELL CONSTRUCTION

PUMP INSTALLATION

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1 TRANS. LETTER
2 PERMIT PROCESS TABLE
3 CWRM MAP
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

MLS PRINTOUT
DCCA LICENSE SCREEN PRINTOUT

(SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm., or INGRID'S SMA/CD MAP)
(LUC map printout http://luc.state.hi.us/luc_maps.htm., or INGRID'S SMA/CD MAP)

FOLDER:
☑ MADE NEW FILE FOLDER, ATTACHED
☒ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION
4/10 Called WWS to confirm parcel.
4/10

5-7-2-30 is correct.

proposed use good?

150,000 per Nolani

9/12/07
Mr. Bill Shontell  
Kohala Preserve Conservation Trust  
P.O. Box 335  
Hawi, HI 96719  

Dear Mr. Shontell:  

Well Construction/Pump Installation Permit Application for Well No. 7153-01  

We have received your Well Construction/Pump Installation permit application and filing fee for the Mahukona Well (Well No. 7153-01). However, applications for permits are required to be made by a contractor with a valid and active C-57, C-57a, or A license and who will perform the work, in accordance with the State Water Code, § 174C-84(a). Because you have not identified a qualifying contractor, your application will not be accepted as complete until a qualifying contractor signs and completes sections 24 & 25 on the application form. However, we will process your incomplete application for review, and if the review warrants the issuance of a permit, a letter of assurance will be issued in lieu of the permit. The letter of assurance will indicate that a permit will be issued when the contractor signs the application, and the following conditions are met: a) the contractor has no outstanding issues with the Commission; b) there have been no significant changes to the application; c) there have been no significant changes to applicable laws, rules, regulations; d) there have been no significant changes to hydrologic conditions.  

For your information, 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 water may not be pumped for purposes other than testing until the certificate of well construction/pump installation completion letter is issued to the well operator and landowner. Additionally, the permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission has determined that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. In other words, you may need to remove the pump and install a smaller pump at the Commission’s discretion 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,  

W. ROY HARDY  
Hydrologic Program Manager  

RI:ss  
Attachment  

c: Waimea Water Services
TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director’s Office
Harold Yee, Wastewater Branch
Stuart Yamada, Safe Drinking Water Branch
Alec Wong, Clean Water Branch

FROM: Peter T. Young, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Mahukona Well (Well No. 7153-01)

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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 May 18, 2007. 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.

RI:ss
Attachment(s)

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.

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[ ] 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: ____________________________
April 17, 2007

TO: Russell Tsuji, Administrator
   Land Division

FROM: W. Roy Hardy, Hydrologic Program Manager
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Mahukona Well (Well No. 7153-01) TMK 5-7-002:036

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 May 18, 2007. 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: Melanie Chinen, Administrator
   Historic Preservation

FROM: W. Roy Hardy, Hydrologic Program Manager
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Mahukona Well (Well No. 7153-01) TMK 5-7-002:036

April 17, 2007

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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: __________
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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
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REMARKS:
Line (1) Mahukona Well #1
Department of Land and Natural Resources  
CWRM  
P.O. Box 621  
Honolulu, Hawaii 96809  

Attention: Mr. Ryan Imata

February 13, 2006

Dear Mr. Imata,

Please find enclosed the application for a well construction/pump Installation Permit for Mahukona Well #1.

Contact me should you have any questions or if you need any further submittals.

Noelani Laszlo  
Waimea Water Services, Inc.  
808-885-5941

67-1161 Mamalahoa Hwy., Suite 5  •  P.O. Box 326  •  Kamuela, Hawaii 96743  •  (808) 885-5941  •  FAX (808) 885-7851
WELL LOCATION INFORMATION

1. STATE WELL NO. (if already assigned)  2. WELL NAME

3. ISLAND  4. TMK

The following must be attached to this application to be accepted as complete:
• Property tax map, showing well location referenced to established property boundaries
• Photograph of the proposed well site
• A schematic diagram showing the well site, access road and proposed well infrastructure

5. WELL OPERATOR’S NAME/COMPANY

Kohala Preserve Conservation Trust

6. LANDOWNER’S NAME/COMPANY

Kohala Preserve Conservation Trust

7. WELL OPERATOR’S MAILING ADDRESS

P.O. Box 335, Hawi, Hawaii 96719

8. LANDOWNER’S MAILING ADDRESS

P.O. Box 335, Hawi, Hawaii 96719

PROPOSED WELL CONSTRUCTION

7. Proposed Work

Construct New Well  Modify Existing Well  Abandon/Seal Well

8. Construction Type

Drilled  Dug  Shaft  Tunnel

9. Is this well part of a battery of wells?  Yes  No

10. Proposed Work

Proposed Work

PROPOSED PUMP INSTALLATION

11. Proposed Pumping Rate, gpm

(gallons per minute)

12. Proposed Amount of Withdrawal, gpd (gallons per day)

Method of flow measurement

13. Method of flow measurement

Flowmeter  Open Pipe  Orifice  Other (explain)

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)

RM Towill

PROPOSED USE

15. Municipal (water systems serving greater than 25 individuals or 15 service connections)

16. Domestic

Number of units to be served:

17. Industrial (describe)

18. Irrigation (describe crop and no. of acres)

19. Military (describe)

20. Other (describe)

Exploratory Well

OTHER LEGAL REQUIREMENTS

21. Conservation District Use Permit (CDUP)

□ Required, CDUP # □ date approved

□ Not Required (attach documentation from CDCL).

□ I have not checked with CDCL about whether or not a CDUP is required. I understand that checking with CDCL prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

22. Special Management Area Permit (SMA)

□ Required, SMA # □ date approved

□ Not Required (attach documentation from applicable County agency).

□ I have not checked with the county about whether or not an SMA Permit is required. I understand that checking with the County prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

23. Historic Preservation Division (HPD) of the Department of Land and Natural Resources

□ I have consulted with the HPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.

□ I have not consulted with the HPD regarding potential impacts of well construction activities on historic sites. I understand that checking with the HPD prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge.

Furthen the signatories 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 fines up to $5,000 per day.

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

Licensee business name

C-57 License No.

Signature

Print

Date

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

Licensee business name

C-57/C-57a/A License No.

Signature

Print

Date

Address

Phone

Fax

E-mail

Fax

E-mail

WCPA Application Form 05/12/2005
**PROPOSED WELL SECTION**

(Please attach schematic if different from diagram provided below)

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, ground elevation to top 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, ground elevation to top 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.

- The approximate elevation must be referenced to mean sea level (msl)
- Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

**Solid Casing Material:**

- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one): □ ASTM A499 (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 □ Centrifugally 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/WWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one): □ ASTM A499 (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 □ Centrifugally 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

**Bottom Elevation of Well Limit = (Water Elevation + 2 ft., msl - Ground Elevation) / 4**

Example: Estimated + 2 ft. Water Level Elev. - Bottom Elevation of Well Limit = (2 - 35.3 - 59) / 4 = 18.5 ft.