Mapped, edited, and published by the Geologic Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1954 and 1965. Field checked 1966
Selected hydrographic data compiled from USC&GS Chart 4162 (1950) and hydrographic surveys (1929)
This information is not intended for navigational purposes
Polyconic projection. Old Hawaiian datum
10,000-foot grid based on Hawaii coordinate system, zone 1
1000-meter Universal Transverse Mercator grid ticks, one shown in box.

APPROXIMATE MEAN DECLINATION, 1966
11°
Mr. Alfred Galimba  
Kuahiwi Contractors, Inc.  
P.O. Box 379  
Naalehu, HI 96772

Dear Mr. Galimba:

Well Construction Permit for Well No. 0836-01

We received your partially signed Well Construction Permit on September 15, 1998. However, you have not provided a driller’s (contractor’s) signature in the applicable section. Please sign the "Driller’s Signature" portion and fill in your contractor’s number to validate your permit.

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

Sincerely,

TIMOTHY E. JOHNS  
Deputy Director

RI:ss  
Enclosure
Mr. Alfred Galimba  
Kuahiwi Contractors, Inc.  
P.O. Box 379  
Naalehu, Hawaii 96722

Dear Mr. Galimba:

Well Construction Permit  
Old Mountain House Tunnel (Well No. 0836-01)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorize well construction activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 12:

Special Conditions

1. Attached for your information is a copy 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. This permit is exempt from items 2, 3, 7b. and 7e. of the Standard Conditions as stated on the Well Construction Permit.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files. Also, a copy of the well completion report form is enclosed for your use. Please provide all the information in this packet to your well drilling contractor.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that the well construction contractor, or other party who constructs the well(s), submits a completed Part I of the Well Completion Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

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

Aloha,

[Signature]

for: MICHAEL D. WILSON  
Chairperson

Enclosures
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 Old Mountain House Tunnel Well (Well No. 0836-01) at MH Site No. 1, Hawaii, TMK 9-5-15: 003, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) 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.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. 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.

4. 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.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (587-0045) immediately.

6. 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.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

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

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97).

10. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. 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 three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned 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.

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

Date of Approval: August 12, 1998
Expiration Date: August 12, 2000

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 do not hold a valid permit until I and the driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ___________________________ Date: ____________
Printed Name: ___________________________ Firm or Title: ___________________________
Driller's Signature: ___________________________ License #: ____________ Date: ____________
Printed Name: ___________________________ Firm or Title: ___________________________

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

C: USGS
   Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
   Hawaii Department of Water Supply
   State of Hawaii, DLNR
Request: 3-9-5-15-3
Request:
Show:
[Find ALL], Recap, Modify, Clear, Save, Help, Quit:

============= Copyright 07/30/98 08:58 by MLS Hawaii, Inc. =============
----------- T M K DATA -----------

3-9-5-15-3
Owner: STATE OF HAWAII
Tax Payer: KUAHIWI CONTRACTORS INC
Tenure: G Semi-Annual Tax: $693.00
Tax Bill: P O BOX 55, PAPAIKOU, HI 96781 USA
Assessed Value (98/99) Exemption Size Bldgs: 1 Dwellings: 0
Land: 138,600 0 2,197.29 acres PITT: 500 Zoning: A-20A
Tot Bldg: 0 0 0 sq ft Use: 0 Nbhood: 9568

Press ESC or enter C (clear) to begin a new search, or
[Modify], Clear, Recap, Help, Quit:
WELL CONSTRUCTION

ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:
1 COVER LETTER
2 PERMIT (2x)
3 PUMP TEST
4 DOH COMMENTS
5 WCR FORM

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
1 COVER LETTER
2 PERMIT (2x)
3 DOH COMMENTS
4 WCR FORM
5 WUR FORM

Roy -
Check exceptions under Spec. Conditions.
TO: Honorable Lawrence Miike, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  
  
FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management  
  
SUBJECT: Well Construction Permit Application  
Old Mountain House Tunnel (Well No. 0836-01)  
  
Transmitted for your review and comment is a copy of the captioned well 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 June 20, 1998.**

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Mr. 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 (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).

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

No comments/objections.

Contact Person: Lori N. Kajiwara  
Phone: 586-6296  
Date: 6-15-98  
  
Signed: Lori N. Kajiwara  
Date: 6-15-98
Mr. Alfred Galimba  
Kuahiwi Contractors, Inc.  
P.O. Box 379  
Naalehu, HI 96772

Dear Mr. Galimba:

Well Construction Permit Application for Well No. 0836-01

We acknowledge receipt, on May 7, 1998, of your completed well construction permit application for the Old Mountain House Tunnel (Well No. 0836-01). You can expect your application to be processed within ninety (90) days from this date.

If you have any questions about your permit application, please contact Mr. Ryan Imata of the Commission staff at 587-0255.

Sincerely,

TIMOTHY E. JOHNS  
Deputy Director

RI:ss
TO: Honorable Lawrence Miike, Director
   Department of Health
   Attention: Dennis Tulang, Wastewater Branch
   William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson

SUBJECT: Well Construction Permit Application
   Old Mountain House Tunnel (Well No. 0836-01)

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RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (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, §11-25-29.

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.

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

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

No comments/objections

Contact Person: ___________________________ Phone: ___________________________

Signed: _________________________________ Date: ___________________________
TO: Honorable Lawrence Miike, Director
   Department of Health
   Attention: Dennis Tulang, Wastewater Branch
   William Wong, Safe Drinking Water Branch

FROM: Michael D. Wilson, Chairperson
       Commission on Water Resource Management

SUBJECT: Well Construction Permit Application
         Old Mountain House Tunnel (Well No. 0836-01)

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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 June 20, 1998.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Mr. 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 (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, §§11-20-26.

[ ] 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 10 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.

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

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

[ ] No comments/objections

Contact Person: William Wong
Signed: William Wong
Phone: 586-4258
Date: 06/12/98
The Department of Health, Clean Water Branch has the following comments:

1. 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, Chapter 11-55, 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.

2. 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
FROM: Ryan  DATE: 01/31/98  SUSPENSE DATE

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**REMARKS:**

LINE (1) Well No. 0836-01 (WCPA)

LINE (2)

LINE (3)

LINE (4)

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For Kuahiwi House Site

Eleanor Albright,  

Payroll Office.

\$25.00

March 18, 98

KUahiwi Contractors, Inc.
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| ICE, C.         |       | SWANSON, S.     |       |          | File            |
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| JINNAI, R.      |       | UYENO, D.       |       |          |                 |
| KUNIMURA, I.    |       | YODA, K.        |       |          |                 |

Tunnel is more like a movie. Try other routes for
The best check on registration status and it can
Then new modification may be in order.
May 4, 1998

Ryan Imata
Commission on Water Resource Management
Department of Land and Natural Resources
P.O. Box 621
Honolulu, HI 96809

Dear Mr. Imata,

I am writing in response to your telephone message requesting further information in regard to our pump installation permit. I am sorry that it has taken so long for us to get back to you. In your message you indicated that we may not need to get a permit, but that you needed further information about the method we would use to obtain the water from the spring source.

The method that we will use to gather and transport water will be to insert one end of the PVC pipeline into a pool at the mouth of the spring, and allow the water to flow downhill. Basically we will be using gravity to deliver the water. Please find a drawing attached.

If you have any further questions, please do not hesitate to contact me at 929-8217.

Sincerely,

[Signature]

Alfred Galimba
President/Kuahiwi Contractors, Inc.
WATER DOES NOT FLOW OUT OF TUNNEL AT THIS TIME DUE TO BLOCKAGE BY MUD & STONES. WE WILL NEED TO UNPLUG TUNNEL BEFORE FLOW CAN BE RESTORED.
TO: Charlene E. Unoki, Land Division  
Hawaii District Office  

FROM: Edwin T. Sakoda, Acting Deputy Director  
Commission on Water Resource Management  

SUBJECT: Month-to-month Revocable Permit for Development, Diversion and Use of Water from "Old Plantation Spring" and "Mountain House Site" at Ka'u, Hawaii TMK: (3) 9-7

Thank you for your memorandum dated February 6, 1998, regarding Waiubata Dairy/Kuahiwi Contractors, Inc.'s interest in developing water sources in the Ka'u Forest Reserve.

The following comments are offered for your consideration.

The Commission administers the following sections in the water code which require approvals for the new or modified water sources in non-water management areas:

- Stream channel alteration permits are required when the bed or banks of streams are altered. (Hawaii Revised Statutes, §174C-71)
- Stream diversion works permits are required when water is diverted from streams, or when diversion works structures are modified or abandoned. (Hawaii Revised Statutes, §173-93)
- Interim instream flow standards must be amended for new or expanded stream diversions after the adoption of the interim instream flow standard. (Hawaii Administrative Rules, §13-169)
- Well construction permits are required for all new wells and may be required for development of water from springs and tunnels. (Hawaii Administrative Rules §13-168)
- Pump installation permits are required for installation of pumps into wells. (Hawaii Administrative Rules §13-168)

In order to advise Waiubata Dairy/Kuahiwi Contractors, Inc. about Commission approvals for water sources, we must have more specific information on whether the source will be a well, spring, or stream; whether the source will be new or a modification of an existing source, and specific information on the configuration of the watersource.

We appreciate your memorandum. As the above information becomes available, we will be pleased to work with Waiubata Dairy/Kuahiwi Contractors. Please call David Higa at 587-0249 for questions regarding stream diversions or Ryan Imata at 587-0255 regarding wells.

MAR - 9 1998  
c. Land Division, Oahu District Office
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: Ed  DATE: 4/7/98  SUSPENSE DATE

TO:  INIT.  TO:  INIT.  FOR:  PLEASE:

____ BAUER, G.  ____ KUNIMURA, I.  ____ Approval  ____ See Me
____ CHING, F.  ____ NAKAMA, L.  ____ a  Signature  ____ Review & Comment
____ FUJII, N.  ____ NAKANO, D.  ____ Information  ____ Take Action
____ HARDY, R.  ____ OHYE, M.  ____ Type Draft 1
____ HIGA, D.  ____ SAKODA, E.  ____ Type Final 2
____ HIRANO, E.  ____ SUBIA, S.  ____ File 6
____ ICE, C.  ____ SWANSON, S.  ____ Xerox ___ copies
____ IMATA, R.  ____ UWAIJNE, J.  ____
____ JINNAI, R.  ____ YODA, K.  ____

Handwritten signature:

Called 4/22/98—told them
to submit a plan.
DEPARTMENT OF LAND AND NATURAL RESOURCES
LAND DIVISION
East Hawaii District Branch

TO: Engineering Branch
   ______ Chairperson
   ______ Deputy to Chairperson
   ______ Dean Uchida

REMARKS: Kuarimi Contractors
Well Construction Permit —
Check for $25.00

FOR: ______ Signature
     ______ Approval
     ______ Initial

Signature
Date 4/3/18
Mapped, edited, and published by the Geologic Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1954 and 1965. Field checked 1966
Selected hydrographic data compiled from USC&GS Chart 4162 (1950) and hydrographic surveys (1929)
This information is not intended for navigational purposes
Polyconic projection. Old Hawaiian datum
10,000-foot grid based on Hawaii coordinate system, zone 1
1000-meter Universal Transverse Mercator grid ticks, shown in t

APPROXIMATE MEAN DECLINATION, 1966
APPLICATION FOR PERMIT

Well Construction □ Pump Installation □

State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 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 808-587-0225.

1. APPLICANT: (circle primary contact a, b, or c)
   (a) WELL OWNER
      Firm Name: Kualiihi Contractors, Inc.
      Contact Person: Alfred Galinha
      Phone: (808) 298-8217
      Address: PO Box 379 Naalehu HI 96772
   (b) LANDOWNER
      Firm Name: State of Hawaii/DOE
      Contact Person: Ph:
      Address:
   (c) CONTRACTOR
      Firm Name: same as well owner
      Contact Person: Contractor's C-57 License No.
      Address:

2. WELL LOCATION/NAME: MH Site No. 1 Island: Hawaii
   Address ______________________ Tax Map Key (3) 9-7, 9-8-15-3

Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referenced to established property boundaries.

3. (a) PROPOSED WORK:
   □ Drill New Well □ Enlarge Existing Hole □ Decline
   □ Modify Existing Well □ Redrill □ Modify Pump
   □ Abandon/Seal □ Replace Pump
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   □ Dug □ Bored □ Driven □ Drilled □ Radial
   □ Is this well a part of a battery of wells? □ Yes □ No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: ______ gallons per minute
   Pump Type:
   □ Deep Well Turbine □ Rotary □ Propeller □ Diesel
   □ Submersible □ Rotary-Displacement □ Reciprocating □ Gas
   □ Centrifugal □ Rotary-Gear □ Impulse □ Electric, rated horsepower:
   If Pump Replacement, Existing Pump Capacity: ______ gallons per minute

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.) □ Industrial
   □ Domestic (individual, noncommercial water sys.) □ Dwelling Units
   □ Irrigation (crop) □ Livestock □ Acres
   □ Military □ Other:

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 144,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
      □ Flow-meter □ Open-pipe □ Orifice Plate □ Weir
      □ Flow-meter estimated
      Completion Date:

7. PENDING ACTIONS:
   □ CDUA □ SMA □ EIS □ EA □ NONE
   □ Other (explain)

8. REMARKS, EXPLANATIONS:
   We want to repair and run pipe from existing spring to our ranch using gravity to deliver water.
   (If more space is needed, continue on back)

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed with 2 years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Kualiihi Contractors, Inc.

Well Owner: Kualiihi Contractors, Inc.
Landowner: Department of Land and Natural Resources
Contractor: Kualiihi Contractors, Inc.

Signature: ___________________________ Date: 3-3-96

For Official Use Only:
Date Received ____________________________
Date Accepted ____________________________
Field Checked By: ________________________ Date: 3-3-96

Latitude ___________________________ State Well No. ________________________
Longitude ___________________________ Aquifer System Name ________________________

101027 WCP Form
9. PROPOSED WELL SECTION

Elevation at top of casing

__ ft. msl. (surveyed to nearest 0.01 ft)

Cement Grout: __ ft.
(70% distance surface to water)

Rock Packing: __ ft.

Hole Diameter: __ in.
(allow 3" annular space)

Total Depth: __ ft.
(≤10 x head)

Ground Elevation: __ ft. msl*

Solid Casing:
(see well standards)
Material ____________________________
Length ____________________________ ft.
(90% distance surface to water)
Diameter: ________________________ in.
Wall thickness: ____________________ in.

Casing: ☐ Perforated ☐ Screen
(see well standards)
Material ____________________________
Length ____________________________ ft.
Diameter: ________________________ in.
Wall thickness: ____________________ in.
Openings __________________ sq. in./A.F.

Open Hole:
Length ____________________________ ft.
Diameter: ________________________ in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.