WELL CONSTRUCTION/PUMP INSTALLATION PERMIT

for

Laie-Akana Well
Well No. 3755-08
Laie, Oahu

TO: Witt Akana
P.O. Box 845
Hauula, HI 96717

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct and test a well (Well No. 3755-08) within Tax Map Key: 5-5-01:19 for domestic use is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), Geology-Hydrology Section, shall be notified at 548-7543, before any work covered by this permit commences.

2. The proposed use shall not adversely affect existing legal uses in the area.

3. The grouted annulus of the well shall be from 0 to 130 ft. The grouted annular space shall be at least 2 inches all around the casing.

4. The following shall be submitted to DWRM, P.O. Box 373, Honolulu, Hawaii 96809, within 30 days after completion of the well:
   a. Well Completion Report.
   b. Elevation (referenced to mean sea level) 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 record, including time, pumping rate, drawdown, chloride content, and water quality data.

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

6. Water from the well shall not be used for drinking water unless properly tested and treated.

7. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

Date of Issuance: JUL 16 1990

cc: USGS
    Department of Health
    Drinking Water Branch
    Ground Water Protection Program
    Honolulu Board of Water Supply
July 20, 1990

William W. Paty, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Paty,

Well Construction and Pump Installation Permit Applications

We received information on the following permit applications, for our review:

- Ooma-Nansay Wells 1 & 2 (Well Nos. 4260-01 & 02)
- Laie-Akana Well (Well No. 3755-08)
- Poipu-Hyatt Regency Salt Water Well (Well No. 5226-01)

None of these wells impacts Hawaiian Home Lands. We wish to note our concern that the Ooma-Nansay Well proposes to use substantial amounts (700,000 GPD) of potable water for golf course irrigation. We support a policy of using treated non-potable water for such uses, while saving precious potable sources for domestic use.

Warmest aloha,

Hoaliku L. Drake, Chairman  
Hawaiian Homes Commission
June 18, 1990

The Honorable William W. Paty, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION
LAIE-AKANA WELL
STATE WELL NO. 3755-08
LAIE, OAHU

Thank you for the opportunity to review the subject document. We have reviewed the application and have the following comments to offer:

1. The permit application indicates that the subject well will be for domestic use. If the well is to serve 25 or more individuals at least 60 days per year or will have a minimum of 15 service connections, the applicant will be required to comply with the Department's Administrative Rules, Title 11, Chapter 20, "Potable Water Systems."

2. Section 11-20-29 of Chapter 20 requires that a new source of potable water serving a public water system be approved by the Director of Health prior to its use. Such an approval is based primarily upon the submission of a satisfactory engineering report which addresses the requirements set in Section 11-20-29.

3. The proposed well is situated above the Underground Injection Control (UIC) line. Land areas above the UIC line are considered to contain underground sources of drinking water. Thus, it is essential that the well be designed and constructed to prevent the possibility of groundwater contamination. For example, the well should have a concrete well pad and full grouting to prevent seepage or floodwaters from migrating down the well shaft.
4. The operation of the proposed well should not be allowed to adversely affect the water quality of nearby wells. According to our UIC maps, state well nos. 3855-05 and 3855-11 are existing domestic water wells within 750 feet of the subject well site.

If you should have any questions, please contact the Safe Drinking Water Branch at 543-8258.

Very truly yours,

[Signature]

JOHN C. LEWIN, M.D.
Director of Health

cc: Witt Akana
P.O. Box 845
Hauula, HI 96817
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Witt Akana
Application for a Well Construction/Pump Installation Permit
Laie-Akana Well, Laie, Oahu

Applicant: Witt Akana
Landowner: Same
P.O. Box 845
Hauula, HI 96717

Action Requested: Permission to construct, test, and install a pump in a 4-inch diameter well (Well No. 3755-08) for domestic use.

Well Location: The proposed well site is at Laie, Oahu, at Tax Map Key: 5-5-01:19 (see attached map).

Proposed Amount of Use: 4,000 gallons per day (proposed pump capacity = 30 gpm).

Well Description (proposed):

| Ground elevation: | 20+ ft. |
| Casing diameter: | 4-inches |
| Solid casing depth: | 130 ft. |
| Perforated casing depth: | none |
| Open Hole: | 30 ft. |
| Total depth: | 160 ft. |

Agency Review: The application has been sent to the Honolulu Board of Water Supply and to the State Departments of Health and Hawaiian Home Lands for review. There have been no objections to the project.

Analysis: The well is expected to develop water from a fresh basal aquifer. The proposed well design may have to be adjusted according to the geologic and hydrologic conditions encountered in the field.

Water Availability: The well is located in the Windward Sector, Koolauloa System of Oahu. Water availability is estimated at 35 mgd in the system. Present water use in the system is about 14 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a well construction/pump installation
Chairperson and Members
Commission on Water Resource Management

April 18, 1990

permit for Laie-Akana Well, subject to the following conditions:

1. The Division of Water Resource Management (DWRM) shall be notified before work commences.

2. The proposed use shall not adversely affect existing legal uses in the area.

3. The grouted annulus of the well shall be from 0 to 130 ft. The grouted annular space shall be at least 2 inches all around the casing.

4. The following shall be submitted to DWRM within 30 days after completion of the well:
   a. Well Completion Report.
   b. Elevation (referenced to mean sea level) 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 record; including time, pumping rate, drawdown, chloride content, and water quality data.

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

6. Water from the well shall not be used for drinking water unless properly tested and treated.

7. The permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

APPROVAL FOR SUBMITTAL:

WILLIAM W. PATY, Chairperson
Mr. Witt Akana  
P.O. Box 845  
Hauula, Hawaii 96717

Dear Mr. Akana:

The Commission on Water Resource Management will be acting on your permit application for a Well Construction/Pump Installation Permit at its meeting on June 27, 1990, at 2:00 p.m., in the Kalanimoku Building, Board Room 130, Honolulu, Hawaii.

Your application will be included on the agenda as Item 4 (enclosed).

You or your representative are invited to attend the meeting.

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy Director

ES:bm  
Enc.
Dear Chairperson and Members:

Permit Application, Koolauloa District

The Commission on Water Resource Management is presently reviewing a permit application for the following project in the Koolauloa District:

Laie-Akana Well (Well No. 3755-08)

Please review the application and submit any comments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, at your earliest convenience.

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:fc
Encl.
Mr. Manabu Tagomori  
Deputy Director  
Commission on Water 
    Resource Management 
Department of Land and 
    Natural Resources 
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809

Dear Mr. Tagomori:

Subject: Your Letter of May 17, 1990 Regarding Akana Application for Well Permit (3755-08) Domestic Use, Laie

Thank you for the opportunity to comment on this well permit application. Although we have no objections to the well permit, we recommend that the entire length of the casing be grouted to prevent contamination and future leakage of the casing, rather just 10 feet at the top and bottom as proposed.

Very truly yours,

KAZU HAYASHIDA  
Manager and Chief Engineer
Honorable John C. Lewin, M.D.
Director
Department of Health
State of Hawaii
1250 Punchbowl Street
Honolulu, Hawaii 96813

Attn. Mr. Thomas Arizumi, Drinking Water Branch

Dear Dr. Lewin:

Well Construction Permit Applications

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168-12(c), we are sending you a copy of the following permit applications for your review:

Aliomanu-Yanke Well 2 (Well No. 1019-05)
Ooma-Nansay Wells 1 and 2 (Well Nos. 4260-01 & 02)
Laie-Akana Well (Well No. 3755-08)
Poipu-Hyatt Regency Salt Water Well (Well No. 5226-01)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Manabu Tagomori at 548-7533.

Very truly yours,

WILLIAM W. PATY

Encl.
Honorable Hoaliku L. Drake  
Director  
Department of Hawaiian Home Lands  
State of Hawaii  
P.O. Box 1879  
Honolulu, Hawaii 96805

Dear Mrs. Drake:

    Well Construction and Pump Installation Permit Applications

    We are sending you a copy of the following permit applications and ask that your staff review each application to determine if Hawaiian Home Lands may be affected:

    Ooma-Nansay Wells 1 & 2 (Well Nos. 4260-01 & 02)  
    Laie-Akana Well (Well No. 3755-08)  
    Poipu-Hyatt Regency Salt Water Well (Well No. 5226-01)

    Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

    If you have any questions, please contact Manabu Tagomori at 548-7533.

    Very truly yours,

    [Signature]

    WILLIAM W. PATY

Enc.
May 17, 1990

Mr. Kazu Hayashida
Manager and Chief Engineer
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, Hawaii 96843

Dear Mr. Hayashida:

Well Construction Permit Application

We are sending you a copy of the following permit application for your review:

Laie-Akana Well (Well No. 3755-08)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:bm
Encl.
APPLICATION FOR

X WELL CONSTRUCTION PERMIT
X PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 548-7342, Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island: OAHU  Tax Map Key: 5-5-1-19
Address: 

(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name: WITT AKANA
Contact Person: SAME
Address: P.O. BOX 845
HAWULA, HI 96717
Phone: 293-2063 x 411-1415

LANDOWNER

Firm Name: SAME
Contact Person: 
Address: 
Phone: SAME

3. PROPOSED CONTRACTOR FOR: ☑ Well Drilling ☐ Pump Installation

Name: PR DILLING CO., INC.
Address: 235 KELOE ST.
WAIANAPA, HI 96786
Phone: 622-2631
Contractor's License No.: 096-27

4. PROPOSED WORK

☐ Drill New Well ☐ Deepen ☐ Seal
☐ Alter ☐ Install New Pump ☐ Replace Pump
☐ Seal ☐ Redrill ☐ Abandon
☐ Install New Pump ☐ Replace Pump
☐ Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.) ☐ Military
☐ Domestic (individual, noncommercial water systems) ☐ Industrial
☐ Irrigation (specify) ☐ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL: ___________ gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine ☐ Submersible ☐ Centrifugal
Motor: ☐ Diesel ☐ Gas ☐ Electric:
Rated Pump Capacity: _______ gallons per minute (gpm)
Rated Horsepower: _______

Well Owner (Print): WITT AKANA
Signature: 
Date: 5-9-96

Landowner (Print): SAME
Signature: 
Date: 5-9-96

For Official Use Only:
Field Checked By: ___________________ Latitude: _______________ Hydrologic Unit
Date: ___________________ Longitude: _______________ State Well No.: 3755-08
Briefly describe the proposed work:

**DRILL NEW WELL FOR DOMESTIC USE. DRILL AND SET 130 LINEAR FEET OF 4" SCHEDULE 40 BLACK PIPE, CEMENT UP BOTTOM & TOP 10 LINEAR FEET. DRILL 20 LINEAR FEET AT 3\(\frac{3}{8}\)" & OPEN HOLE MAKE PUMP TEST.**

PROPOSED SECTION OF WELL

- **Top & Bottom**
  - Cement Grout: 10+ ft.
  - Hole Dia: 5\(\frac{7}{8}\) in.

- **Total Depth**: 160+ ft.

- **Rock Packing**: 0 ft.

- **Ground Elev.**: __________ ft., msl

- **Solid Casing**: SCHED. 40 BLACK PIPE
  - Length: 130 ft.
  - Diameter: 4" ID
  - Wall thickness: .237 in.

- **Casing**: / /Perforated / /Screen
  - Material: NONE
  - Length: __________ ft.
  - Diameter: __________ in.
  - Wall thickness: __________ in.
  - Openings: __________ sq. in./L.F.

- **Open Hole**
  - Length: 20+ ft.
  - Diameter: 3\(\frac{3}{8}\) in.

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

WELL CONSTRUCTION PERMIT

WELL NAME or LOCATION: Laie - Akana Well

WELL NUMBER: 3755-08

OWNER or OPERATOR: Witt Akana

ADDRESS: P.O. Box 845

Hauula, HI 96817

TELEPHONE (contact person): 293-2066 or 841-1415

Date application received: 5-9-90

Date acknowledged receipt/request more info:

Date application accepted:

Suspense date (90 days):

Date filing fee deposited:

Application sent to following:

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<th>Comments received</th>
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Date agenda due: _______________________

Date submittal due: _______________________

Date submittal sent to applicant: _______________________

Date application approved or disapproved: 6-27-90

Date applicant notified of decision: 7-16-90

REMARKS: __________________________________________________________

____________________________________________________________________
WELL COMPLETION REPORT

INSTRUCTIONS: Please print or type and submit completed report within 30 days of well completion to the Division of Water & Land Development, P.O. Box 373, Honolulu, HI 96809. An assay report and water and chemical analysis, if available, should also be submitted. If necessary, phone 548-7543. Hydrology, Geology Section for assistance.

A. STATE WELL NO. 3755-08
B. LOCATION 55-164 KAM HWY LAIE MALO
C. WELL OWNER WITT AKANA
D. DRILLING OR PUMP INSTALLATION CONTRACTOR PR DRILLING
E. TYPE OF RIG TRACK DRILL
F. DATE OF WELL COMPLETION 10-25-90
G. GROUND ELEVATION (ma) 9' ft.
H. TOTAL DEPTH OF WELL BELOW GROUND
I. HOLE SIZE: inch dia. from to ft. below ground
J. CASING INSTALLED: in. I.D. x in. wall solid section to ft. below ground
K. ANNULUS: Grouted from ft. to ft. below ground
L. PERMANENT PUMP INSTALLATION: Pump type, make, serial No JET MOTOR PUMP JACUTJI, SK62W 021 Capacity 20 gpm
M. PROPOSED USE DRINKING & FAMILY USE
N. INITIAL WATER LEVEL ft. below ground. Date and time of measurement
O. INITIAL CHLORIDE ppm. Date and time of sampling
P. PUMPING TESTS: Reference point (R.P.) used: which elevation is ft.
Q. DRILLER'S LOG:

Submitted by (print) WITT AKANA
Signature WITT AKANA
Title OWNER
Date 2-13-91

REMARKS:
**PROJECT**
Water Well 3155-09  

**LOCATION**
LAIA  

**BORING NO.**
1  

**GROUND ELEVATION**
9'  

**JOB NO.**
90-2186  

**TYPE OF EQUIPMENT**
Track Drill  

**CLIENT**
Witt Akana  

**DATE:** START 9/17/90  
FINISH  

**REMARKS**

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OPERATOR  Green Youmans
LOCATION  Laie
PROJECT  Witt Akana Water Well
JOB NO.  90-2167
BORING NO.  1
TYPE OF EQUIPMENT  Grundfos Submersible SP 10-5

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Signature  Paul Kendall

Ground Elevation  9.0
Casing Elevation  140.0
Casing Depth  139.0
Open Hole Depth  159.0
Airline Depth  120.12
Measured Water Level Elevation  13'4' 10/12/90

Date

Lat.  21° 37' 59"  Long.  157° 55' 56"
Well No.  3755-08
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14. Proposed Elevation Section:

NOTES:
1. For existing wells, provide actual elevation section.
2. Include additional casing, grout seal, liner tubes, sump, etc., if applicable.
3. If design of well differs substantially, provide section showing actual construction.
LAND COURT APPLICATION 1128

DESIGNATION OF EASEMENT "D"
AFFECTING LOT 10
AS SHOWN ON MAP 2

AT LAIE, KOOKALUOA, OAHU, HAWAII

LAND COURT
STATE OF HAWAII

1026 Aushi St.
Honolulu, Hawaii
October 1, 1990

ENGINEERS SURVEYORS HAWAII, INC.

1020 Aushi St.
Honolulu, Hawaii
October 1, 1990

ENGINEERS SURVEYORS HAWAII, INC.

1020 Aushi St.
Honolulu, Hawaii
October 1, 1990

LAND COURT CERTIFICATE NUMBER 208

OWNERS: Robert E. White, Jr.
Ellin W. Burkland

OWNERS' CERTIFICATE OF TITLE:

AUTHORIZED AND APPROVED BY ORDER OF THE JUDGE
OF THE LAND COURT DATED:
BY ORDER OF THE COURT

REGISTER OF THE LAND COURT
PR DRILLING COMPANY  
235 KELLOG A STREET  
WAHIWA, HI 96786

AKANA WELL 3755-08

PUMP TEST LOG

OPERATOR  Green Youmans
LOCATION  Laie
PROJECT  Witt Akana Water Well
JOB NO.  90-2167
BORING NO.  1

TYPE OF EQUIPMENT  Grundfos Submerible SP 10-5

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<th>Time</th>
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Signature  Paul [Signature]
NOTES:
1. For existing wells, provide actual elevation section.
2. Include additional casing, grout seal, liner tubes, sump, etc., if applicable.
3. If design of well differs substantially, provide section showing actual construction.