CHECKLIST

Type of Permit: _ Well Construction _Pump Installation _Water Use Required

Well Name Parker Ranch #1 No. 6239-02 Island Hawaii
Applicant Parker Ranch Landowner Parker Ranch
Consultant Akinaka & Associates TMK 0-5-1-1

Appl Recd Feb 17, '95 (Dates)
Mapped/# Feb 28 Logcomp Logbk
Acknowlgmt MAY - 1 1995
Fee Depos 4/28/95

Copies Sent for Review Sent Comments Recd
DoH/ Drink Water MAY - 1 1995
Wastewater MAY - 1 1995
Hist. Preserv MAY - 1 1995
Aquat Res MAY - 1 1995
OHA MAY - 1 1995
DHHL MAY - 1 1995
Honolulu BWS
Maui DoW
Kauai DoW
Hawaii DoW MAY - 1 1995
PW MAY - 1 1995
SCLDF MAY - 1 1995
Com: MAY - 1 1995

Bulletin to Agenda
Submittal to Appl
CWRM _Appr _Deny
Permit/Notice to Appl
# CHECKLIST

- WELL CONSTRUCTION PERMIT
- PUMP INSTALLATION

## WELL NAME or LOCATION:
- Parker Ranch Well 1

## ISLAND:
- H

## WELL NUMBER:
- 6390-02

## Tax Map Key:
- 6

### OWNER/OPERATOR:
- Firm Name
- Contact Person
- Address
- Phone

### LANDOWNER:
- Firm Name
- Contact Person
- Address
- Phone

## Date application received
- 1/26/93

## 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>Department/Agency</th>
<th>Date sent</th>
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<td>Dept. of Health</td>
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<tr>
<td>Dept.Pub. Wrks (Hawaii)</td>
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<td>Additional List (Molokai)</td>
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</table>

## Eric Hirano / Lyn

## Date agenda due
- 3/1 Mar 93

## Date submittal due
- 3/1 Mar 93

## Date submittal sent to applicant
- 

## Date application approved or disapproved
- 14 April 93

## Date applicant notified of decision
- 

## REMARKS:
- Have DAR review appl.

---

Received by

Waimanalo 80301
TO: Mr. Thomas E. Arizumi, P.E., Chief
Environmental Management Division
Department of Health

FROM: Timothy E. Johns, Deputy Director
Commission on Water Resource Management

SUBJECT: Preliminary Engineering Report for Parker Ranch Well No. 1

FILE NO.: EMD/SDWB

Thank you for the opportunity to review the subject document. Our comments related to water resources are marked below.

In general, the CWRM strongly promotes the efficient use of our water resources through conservation measures and use of alternative non-potable water resources whenever available, feasible, and there are no harmful effects to the ecosystem. Also, the CWRM encourages the protection of water recharge areas which are important for the maintenance of streams and the replenishment of aquifers.

[x] We recommend coordination with the county government to incorporate this project into the county’s Water Use and Development Plan.

[ ] We are concerned about the potential for ground or surface water degradation/contamination and recommend that approvals for this project be conditioned upon a review by the State Department of Health and the developer’s acceptance of any resulting requirements related to water quality.

[x] A Well Construction Permit and/or a Pump Installation Permit from the CWRM would be required before ground water is developed as a source of supply for the project.

[ ] The proposed water supply source for the project is located in a designated water management area, and a Water Use Permit from the CWRM would be required prior to use of this source.

[ ] Groundwater withdrawals from this project may affect streamflows. This may require an instream flow standard amendment.

[ ] If the proposed project diverts additional water from streams or if new or modified stream diversions are planned, the project may need to obtain a stream diversion works permit and petition to amend the interim instream flow standard for the affected stream(s).

[x] If the proposed project performs any work within the bed and banks of a stream channel, the project may need to obtain a stream channel alteration permit and a petition to amend the interim instream flow standard for the affected stream(s).

[ ] We recommend that no development take place affecting highly erodible slopes which drain into streams within or adjacent to the project.

[ ] OTHER:

If there are any questions, please contact Mr. Ryan Imata at 587-0255.
June 29, 1998

The Honorable Michael D. Wilson
Chairman of the Board
ATTN: Edwin Sakoda
Department of Land and Natural Resources
1151 Punchbowl Street
Honolulu, HI 96813

Dear Mr. Wilson:

SUBJECT: NEW SOURCE OF POTABLE WATER

Enclosed for your review and comments is a copy of the engineering report for the following source:

   Parker Ranch Well No. 1
   State Well No. 8-6239-02
   South Kohala, Hawaii

This report has been prepared pursuant to Hawaii Administrative Rules, Title 11, Chapter 20, "Rules Relating to Potable Water Systems," Section 11-20-29.

The Department of Health will use your comments in determining the potential impacts which may result by the project.

Please submit your comments to the Safe Drinking Water Branch within 30 days from the date of this letter. You may also return the engineering report to this office if you do not need it for future reference.

If you should have any questions, please call the Safe Drinking Water Branch, Engineering Section, at 586-4258 or call toll free from the neighbor islands at 1-800-468-4644, ext. 64258.

Sincerely,

THOMAS E. ARIZUMI, P.E., Chief
Environmental Management Division

Enclosures
May 5, 1998

Mr. Riley Smith
Parker Ranch
P.O. Box 458
Kamuela, Hawaii 96743

Dear Mr. Smith:

SUBJECT: PUBLIC WATER SYSTEM NO. 130, DWS SOUTH KOHALA
PARKER RANCH WELL NO. 1
STATE WELL NO. 8-6239-02

We have completed our review of the engineering report submitted for the Parker Ranch Well No. 1, State Well No. 8-6239-02, prepared by Akinaka & Associates, Ltd. and the water quality data submitted on April 1, 1998. The Department of Health hereby grants conditional approval for the use of the Parker Ranch Well No. 1 as a drinking water source for a public water system, provided that upon completion of construction, Parker Ranch dedicates the proposed facilities to the Department of Water Supply, County of Hawaii, for full operation and maintenance. Parker Ranch shall notify the Safe Drinking Water Branch at least thirty (30) days in advance of the dedication.

This conditional approval supersedes the February 9, 1998 emergency approval issued by the Department of Health. In its operation of the Parker Ranch Well No. 1, the Department of Water Supply, County of Hawaii, shall meet the following conditions:

1. The Parker Ranch Well No. 1, State Well No. 8-6239-02, shall deliver potable water of the quality in compliance with Hawaii Administrative Rules, Title 11, Chapter 20, "Potable Water Systems." The water quality shall be subject to verification by the Department of Health.

2. The Hawaii Department of Water Supply, in its operation of the Parker Ranch Well No. 1, State Well No. 8-6239-02, shall comply with all other relevant provisions of Hawaii Administrative Rules, Title 11, Chapter 20, "Potable Water Systems."
3. The Hawaii Department of Water Supply shall notify the Department of Health of any condition that may arise or be revealed which may contaminate the source and pose a threat to human health.

4. The Hawaii Department of Water Supply shall notify the Safe Drinking Water Branch of the planned well activation date, at least thirty (30) days in advance. This will help the Department to incorporate the well into its monitoring schedules.

5. The Hawaii Department of Water Supply shall provide adequate disinfection to Parker Ranch Well No. 1 on a continuous basis based on information that indicates a potential microbiological problem.

6. The Hawaii Department of Water Supply must sample and analyze the Parker Ranch Well No. 1 for all required contaminants that are not analyzed by the Department of Health, State Laboratories Division.

Presently, the Department of Health cannot analyze the following EPA regulated contaminants:

- Cyanide
- Benzo(A)Pyrene
- Dalapon
- Di(ethylhexyl)-Adipate
- Di(ethylhexyl)-Phthalate
- Dinoseb
- 2,3,7,8-TCDD (Dioxin)
- Endothall
- Pentachlorophenol
- Picloram
- 2,4,5-TP (Silvex)
- 2,4-D
- Diquat

Please note that the drinking water regulations are frequently revised and the preceding list may be subject to change.

7. Hawaii Revised Statutes, Chapter 340E-24, requires suppliers of water to notify the Department of Health, in writing, of any previously undetected chemical contaminant found in a source of drinking water, within seven days of the positive detection.

The Department of Health reserves the right to suspend or revoke this conditional approval upon either a finding of violation on any of the above conditions or a determination of a threat to public health from factors which may arise in the future.
Thank you for your attention and concern to these matters. If you should have any questions, please contact the Safe Drinking Water Branch, Engineering Section, at 586-4258.

Sincerely,

THOMAS E. ARIZUMI, P.E., CHIEF
Environmental Management Division

QK:1a

c: Milton Pavao, Manager
   Hawaii Department of Water Supply

   Dennis Lee
   Hawaii Department of Water Supply

✓ Charlie Ice, CWRM, DLNR

   Sheldon Yamasato
   Akinaka & Associates, Ltd.

   SDWB Monitoring Section

   SDWB Enforcement Section

   Paul Okuna, SDWB Sanitarian, West Hawaii
Mr. Milton D. Pavao, Manager  
County of Hawaii  
Department of Water Supply  
25 Aupuni Street  
Hilo, Hawaii 96720  

Dear Mr. Pavao:

Thank you for your letter of February 2, 1996, in which you describe the steps being taken by the DWS to meet the demands of the South Kohala drought condition through the use of alternative sources. All three wells that were mentioned already have pump installation permits from the Commission on Water Resource Management. Please note that the Parker Ranch Well is Well No. 6239-02 and not 6239-01, as indicated in your letter.

Since there are no water management areas on the island of Hawaii, and the proper permits have been issued, you do not need to notify us of such action in the future. Thank you for keeping us apprised of the situation in this region.

If you have any questions, please call Lyann Mizuno at (808) 587-0255.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

LM:fc
Ms. Rae M. Loui, Deputy Director  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809

SOUTH KOHALA DROUGHT  
ALTERNATE SOURCES

We are still in a drought condition for our South Kohala system. Our Waikoloa Reservoirs storage level is down to 59 million gallons (total storage capacity is 150 MG). We are proceeding with the planning and implementation of several emergency and temporary projects using existing wells in the area. These wells are not owned by the Department.

Following is a description of the projects and the wells:

1. Waimea Country Club Well (Well No. 6235-01)

   This well is outfitted with a 590-GPM pumping unit and is used by Waimea Country Club for their golf course irrigation purposes. The connection into our system has been completed.

   We are planning to use this well for about four days pumping time each week.

2. Parker Ranch Well (Well No. 6239-01)

   A temporary deepwell pumping unit rated at about 300 GPM is currently being installed.

   We plan to operate this pumping unit continuously.

3. Puukapu Deepwell (Well No. 6337-01)

   This project is currently under contract with the Department of Land and Natural Resources, State of Hawaii. Upon project completion and acceptance, the deepwell pumping system will be turned over to the Department of Agriculture (DOA) for their Lalamilo Irrigation Water System.

   Water brings progress...
We have received approval of the pumped well water on an interim basis until such time that the DOA will need the source water for their irrigation system.

The deepwell pump is rated at 1,000 GPM. We are planning to use this water on a continuous basis.

For more clarifications, please contact Mr. Gary Kawasaka at 969-1421.

Milton D. Pavao, P.E.
Manager

GK
V. POTENTIAL SOURCES OF CONTAMINATION

A. Description of Well Site:

1) Coordinates: Parker Ranch Well No. 1 (State Well 6239-02)
   
   1317.82 N
   497.73 E

   Coordinates are based on Trig. Station "Old West Base".
   TMK: 6-5-01:1, Third Tax Division

2) Topography and Land Surface Elevation

   Parker Ranch Well No. 1 is located on relatively flat land just
   mauka of Church Road in the foot hills of the Kohala Mountain.
   The existing ground elevation varies slightly from 2,826' to 2,824'
   MSL sloping about 2.5% toward Mamalahoa Highway. The new
   4,770 long transmission main traverses from the well site to the
   existing 4.0 MG "Clearwater" Reservoir where the approximate b
   ground elevation is 3,054' near the point of entry into the reservoir.

3) General Summary of Soil and Substrata:

   The substrata formation from the geologic log data obtained during
   the drilling of Parker Ranch Well No. 1 is as follows:

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0' to 234'</td>
<td>Highly Weathered Alluvium</td>
</tr>
<tr>
<td>234' to 265'</td>
<td>Dense lava-Hawi Volcanic Series</td>
</tr>
<tr>
<td>265' to 303'</td>
<td>Weathered Pahoehoe, Pololu Volcanic Series</td>
</tr>
</tbody>
</table>
   | 303' to 1679'| Unweathered Pahoehoe, Pololu Volcanic Series, some cinders at
                  | 1050' and 1580'                                        |

4) Well depth, depth to ground water and design well draft (See EXHIBIT 16 - WELL PUMP STATION PR-1 ASSEMBLY):

   Parker Ranch Well No. 1 (State Well No. 6239-02)
   a) Ground Elevation = 2,825'
   b) Water Elevation = 1,264
   c) Capacity, Q = 500 gpm
   d) Horsepower = 350 HP
e) Static Head = 1,796 ft.
f) Total Dynamic Head = 1,853 ft.
g) Casing Size = 14 in. (I.D.)
h) Length of Solid Casing = 1,576 ft.
i) Length of Perforated Casing = 102 ft.
j) Estimated Drawdown @ 500 gpm = 6 ft.

B. Water Quality:

1) The result of samples analyzed by Associated Laboratories are shown in APPENDIX A - WELL COMPLETION REPORT dated 06/27/94.

C. Land Use Classification of Surrounding Areas:

Land Use Classification and Zoning are shown in EXHIBIT II - STATE LAND USE MAP and EXHIBIT 12 - COUNTY ZONING MAP. The land use in the area of the Parker Ranch Well No. 1 and Transmission Main is agriculture.

D. Existing of Potential Sources of Contamination in the Recharge area:

1) The well is located in a remote area presently used as pasture. Potential contamination of the system is very minimal as the lands immediately around the well pump station site is open land with no plans of development. The lands included in the Parker Ranch 2020 Plan are situated at least 3,000 feet away.

E. Approximate Groundwater Contours:

EXHIBIT 9 - GROUNDWATER MAP provides approximate groundwater resources areas for the island of Hawaii. EXHIBIT 10 - HYDROGEOLOGIC SECTION illustrates the schematic groundwater profile for the area.
July 10, 1995

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

Attn: Mr. Michael D. Wilson

Re: Well No. 6239-02

Enclosed please find a signed acceptance of the Pump Installation Permit for the above referenced Well.

Sincerely,

Ann H. Smith
Trustees' Secretary

cc: S. Yamasato, A&A
PUMP INSTALLATION PERMIT

for

Parker Ranch Well #1
(Well No. 6239-02), Kamuela, South Kohala, Hawaii

To: Parker Ranch
P.O. Box 458
Kamuela, HI 96743

In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled “Water Use, Wells, and Stream Diversion Works”, your application to construct, test, and install a pump in Parker Ranch Well #1 (Well No. 6239-02) at Kamuela, South Kohala, Hawaii, TMK 6-5-1:1, is approved, subject to the following conditions:

STANDARD WELL CONSTRUCTION PERMIT CONDITIONS

1. The Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work by this permit commences.

2. The pump installation permit shall be for installation of a 500 gpm capacity, or less, pump in the well. A means to accurately measure water levels, acceptable to the Commission, shall be provided.

3. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

5. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.
6. The pump installation permit may be revoked if work is not started within six (6) months of the date of issuance or if work is suspended or abandoned for six months. 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 Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion 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.

7. An as-built sectional drawing of the pump installation shall be submitted to the Commission within thirty (30) days after completion of work.

8. The pump installation permit application and staff submittal approved by the Commission at its May 17, 1995 meeting are incorporated into the permits by reference.

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.

Applicant's Signature: Carl A. Carlson, Jr. Date: 7-10-95

Printed Name: Carl A. Carlson, Jr.

Firm or Title: Trustee, Parker Ranch

Please sign the permit, return one copy of this permit to the Commission, and retain a copy for your record.

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Hawaii Department of Water Supply
(1) Waimea Country Club Well (6235-01)

5/25/91 WC/PI Permit for 500 gpm pump
12/17/91 Well Completion Report says 500 gpm pump was installed.

(2) Parker Ranch Well (6239-01)

    Parker Ranch Well #1 (6239-02)
    Waimea Well (6239-01)

7/10/95 Accepted PIP for 500 gpm pump

(3) Paукапу Deepwell (6337-01)

8/23/92 Accepted PIP for 1,000 gpm pump.
To: Parker Ranch  
P.O. Box 458  
Kamuela, HI 96743

In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Parker Ranch Well #1 (Well No. 6239-02) at Kamuela, South Kohala, Hawaii, TMK 6-5-1:1, is approved, subject to the following conditions:

STANDARD·WELL CONSTRUCTION PERMIT CONDITIONS

1. The Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work by this permit commences.

2. The pump installation permit shall be for installation of a 500 gpm capacity, or less, pump in the well. A means to accurately measure water levels, acceptable to the Commission, shall be provided.

3. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

5. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.
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7. An as-built sectional drawing of the pump installation shall be submitted to the Commission within thirty (30) days after completion of work.

8. The pump installation permit application and staff submittal approved by the Commission at its May 17, 1995 meeting are incorporated into the permits by reference.

__________________________

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management

JUN 21 1995

Date of Issuance

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.

Applicant's Signature: ____________________________ Date: __________

Printed Name: ____________________________

Firm or Title: ____________________________

Please sign the permit, return one copy of this permit to the Commission, and retain a copy for your record.

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Hawaii Department of Water Supply
Mr. Michael D. Wilson, Chairperson  
Commission On Water Resource Management  
State of Hawaii  
Department of Land and Natural Resources  
P.O. Box 621  
Honolulu, HI  96809

PUMP INSTALLATION PERMIT  
PARKER RANCH WELL NO. 1  
WELL NO. 6239-02  
TAX MAP KEY 6-5-01:01

We have reviewed the subject permit and have no comments.

Milton D. Pavao, P.E.  
Manager

WA

...Water brings progress...
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

May 17, 1995
Honolulu, Hawaii

Parker Ranch
Application for a Pump Installation Permit
Parker Ranch Well #1 (Well No. 6239-02)
Installation of a 500 gpm Pump for Municipal Use at
TMK 6-5-1:1, Kamuela, South Kohala, Hawaii

Applicant: Parker Ranch
P.O. Box 458
Kamuela, HI 96743

Landowner: Same

Action Requested: Permission to install a 500 gpm (gallons per minute) pump in Parker Ranch Well #1, to be dedicated to Hawaii County Department of Water Supply for municipal use.

Well Location/Tax Map Key: The wells are located at Kamuela, Hawaii at Tax Map Key: 6-5-1:1 (see attached map).

Well Description:

Ground elevation: 2824 ft.
Casing diameter: 14 inches
Solid casing depth: 1600 ft.
Perforated casing depth: 1682 ft.
Open hole: none
Total depth: 1682 ft.
Grouted annulus: 1532 ft.
Proposed pump capacity: 500 gpm

Background: The well construction permit to drill and test the well was issued on April 14, 1993. The well was completed in December 1993. The applicant is now requesting approval to install the pump in the well.
Water Availability. The well is located in the Waimea System, West Maunakea Sector of Hawaii, with a sustainable yield estimated at 24 mgd. Existing use is about 6.1 mgd.

Analysis: The wells tap fresh perched ground water at 1261 ft. msl. The pump test rate of 674 gpm yielded chlorides of only 7 mg/l. The only other well within a one-mile radius is a USGS monitor well (6240-01). No adverse impacts are expected.

RECOMMENDATION:

That the Commission approve the issuance of a pump installation permit for Parker Ranch Well #1, subject to the following conditions:

1. The Commission shall be notified before work commences.

2. The pump installation permit shall be for installation of a 500 gpm capacity, or less, pump in the well. A means to accurately measure water levels, acceptable to the Commission, shall be provided.

3. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

5. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.

6. The pump installation permit may be revoked if work is not started within six (6) months of the date of issuance or if work is suspended or abandoned for six months. 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 Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion 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.

7. As-built sectional drawing of the pump installation shall be submitted to the Commission within thirty (30) days after completion of work.
8. The pump installation permit application and staff submittal approved by the Commission at its May 17, 1995 meeting are incorporated into the permit by reference.

Respectfully submitted,

[Signature]

RAE M. LOUI
Deputy Director

Attachment

APPROVED FOR SUBMITTAL:

[Signature]

MICHAEL D. WILSON, Chairperson
WELL HEAD

6" I.D. PIPE COLUMN

EXISTING 14" I.D. CASING
0.375" THICK

CHECK VALVE (TYP.)

WATER LEVEL
EL. = (+) 1264.08'

EL. = (+) 1224.5
END EXIST. SOLID CASING
BEGIN PERFORATED CASING

SHROUD

BOTTOM OF AIR LINE (1)
EL. = (+) 1231.0'

BOTTOM OF AIR LINE (2)
EL. = (+) 1201.0'

BOTTOM OF PUMP & MOTOR
EL. = (+) 1152.5'

BOTTOM OF WELL &
END PERFORATED CASING
EL. = (+) 1142.5'

WELL PUMP SECTION
PARKER RANCH WELL NO. 1
(STATE WELL NO. 6139-01)"
May 16, 1995

MEMORANDUM

TO: Rae Loui, Deputy Director
    Commission on Water Resource Management

FROM: Don Hibbard, Administrator
      State Historic Preservation Division

SUBJECT Parker Ranch Well No. 1
       Kamuela, South Kohala, Island of Hawaii
       TMK: 6-5-01: 1

The location of the proposed well is in an area where we would not expect to find historic sites. We therefore believe that the project will have "no effect" on significant historic sites.

PM: amk
May 10, 1995

Ms. Rae M. Loui, Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P. O. Box 621
Honolulu, HI 96809

PUMP INSTALLATION PERMIT APPLICATION FOR PARKER RANCH WELL NO. 1
WELL NO. 6239-02
TAX MAP KEY 6-5-1:1

We have reviewed the subject application and have no comments. We are returning the response form as requested.

Milton D. Pavao, P.E.
Manager
WA
Enc.

...Water brings progress...
Mr. Milton Pavao, Manager  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720  

Dear Mr. Pavao:  

Pump Installation Permit Application  

Please review the following permit application pursuant to your area of concern and submit your comments to us by **MAY 15, 1995**.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii</td>
<td>Parker Ranch Well #1</td>
<td>6239-02</td>
<td>Pump Installation</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

---

Response:  
( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: Milton D. Pavao, Manager  
Signed: [Signature]

Phone: (808) 969-1421  
Date: May 10, 1995

[Stamp: RECEIVED MAY 2, 1995]
TO: Dr. Don Hibbard, Director  
Historic Preservation Program  
Mr. William Devick  
Division of Aquatic Resources  

FROM: Rae M. Loui, Deputy Director  
Commission on Water Resource Management  

SUBJECT: Pump Installation Permit Application  

Please review the following permit application pursuant to your area of concern and submit your comments to us by **MAY 15 1995**.

<table>
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<td>Parker Ranch Well #1</td>
<td>6239-02</td>
<td>Pump Installation</td>
</tr>
</tbody>
</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Response:
( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: Bill Remick  
Phone: 587-0110  
Date: 5-3-95
APPLICATION FOR PERMIT
☐ Well Construction or ☐ Pump Installation

1. APPLICANT: (may be a, b, or c, but all must be filled in)
(a) WELL OWNER
 Firm/Name: Parker Ranch
 Contact Person: Carl A. Carlson, Jr.
 Address: Kamuela, S. Kohala, Hawaii 96743
(b) LANDOWNER
 Firm/Name: Parker Ranch
 Contact Person: Carl A. Carlson, Jr., Jr.
 Address: Kamuela, S. Kohala, Hawaii 96743
(c) CONTRACTOR
 Firm/Name: 
 Contact Person: Contractor's C-57 License No.
 Address: 

2. WELL LOCATION/NAME: Parker Ranch Well No. 1
 Island: Hawaii
 Address: Kamuela, S. Kohala, Hawaii
 Tax Map Key: 6-5-01:1
 (Attach a USGS map, scale 1"=2000', and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
☐ Drill New Well
☐ Modify Existing Well
☐ Redriv
☐ Install New Pump
☐ Replace Pump
☐ Modify Pump
☐ Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:
☐ Dug
☐ Bored
☐ Driven
☐ Dilled
☐ 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: 500 gallons per minute

<table>
<thead>
<tr>
<th>Pump Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Deep Well Turbines</td>
</tr>
<tr>
<td>☐ Submersible</td>
</tr>
<tr>
<td>☐ Centrifugal</td>
</tr>
<tr>
<td>☐ Rotary</td>
</tr>
<tr>
<td>☐ Rotory-Displacement</td>
</tr>
<tr>
<td>☐ Propeller</td>
</tr>
<tr>
<td>☐ Reciprocating</td>
</tr>
<tr>
<td>☐ Gas</td>
</tr>
<tr>
<td>☐ Impulse</td>
</tr>
<tr>
<td>☐ Oil</td>
</tr>
<tr>
<td>☐ Electric, rated horsepower of 360 HP</td>
</tr>
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</table>

5. PROPOSED USE:
☐ Municipal (including hotels, stores, etc.)
☐ Industrial
☐ Irrigation (crop)
☐ Domestic (individual, noncommercial water use)
☐ Military
☐ Conservation
☐ Other (explain)

State Land Use District: ☐ Urban ☐ Agriculture ☐ Rural
County Zoning (describe): A - 1.6

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
720,000 gallons per day
(b) METHOD OF FLOW MEASUREMENT:
☐ Flow-meter
☐ Open-pipe
☐ Orifice Plate
☐ Weir

7. PENDING ACTIONS:
☐ CDUA
☐ SMA
☐ ES
☐ EA
☐ NONE
☐ Other (explain)

8. REMARKS, EXPLANATIONS:
Water System to be dedicated to County of Hawaii Dept. of
Water Supply upon completion. (See attached Well Completion Report)

(If more space is needed, continue on back)

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be commenced within two years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days of completion date of the permit worked. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that upon the proposed permit shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.
WELL PUMP SECTION
PARKER RANCH WELL NO. 1
(STATE WELL NO. 6139-01)

6" I.D. PIPE COLUMN

EXISTING 14" I.D. CASING
0.375" THICK

CHECK VALVE (TYP.)

WATER LEVEL
EL. = (+) 1264.08'

EL. = (+) 1224.5
END EXIST. SOLID CASING
BEGIN PERFORATED CASING

SHROUD

BOTTOM OF AIR LINE (1)
EL. = (+) 1231.0'

BOTTOM OF AIR LINE (2)
EL. = (+) 1201.0'

BOTTOM OF PUMP & MOTOR
EL. = (+) 1152.5'

BOTTOM OF WELL &
END PERFORATED CASING
EL. = (+) 1142.5'
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
919 Ala Moana Blvd., 3rd Floor
Honolulu, Hawaii 96814

Attn: Mr. Dennis Tulang

Dear Mr. Arizumi:

Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by MAY 15 1995.

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<td>6239-02</td>
<td>Pump Installation</td>
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</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

Response:
✓ We have no objections
() Not subject to our regulatory authority and permit
() Comments attached
() Additional information requested
() Extended review period requested

Contact Person: Lori N. Kajiwara
Signed: Lori N. Kajiwara

Phone: 586-4290
Date: 5/10/95
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Ms. Kiyosaki:

**Pump Installation Permit Application**

Please review the following permit application pursuant to your area of concern and submit your comments to us by **MAY 15 1995**.

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</table>

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

Response:
- [ ] We have no objections  
- [ ] Not subject to our regulatory authority and permit  
- [x] Comments attached  
- [ ] Additional information requested  
- [ ] Extended review period requested

Contact Person:  
Ed Yoshida

Signed:

[Signature]

Phone: 961-8327  
Date: 5/8/95
TO: Mr. Kali Watson, Director
    Department of Hawaiian Home Lands

Mr. Clayton H.W. Hee, Chairman and Trustee At Large
    Office of Hawaiian Affairs

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

SUBJECT: Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by MAY 15 1995.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Enc.

Response:

- We have no objections
- Not subject to our regulatory authority and permit
- Comments attached
- Additional information requested
- Extended review period requested

Contact Person: Luis A. Manrique

Signed: [Signature]

Phone: 594-6935

Date: 05/05/95
Mr. Carl A. Carlson, Jr.
Parker Ranch
P.O. Box 458
Kamuela, Hawaii 96743

Dear Mr. Carlson:

We have received your application and filing fee for a permit to install a pump in Parker Ranch Well #1 (Well No. 6239-02) at Kamuela, South Kohala, Hawaii, (TMK 6-5-01:1). We are reviewing the application for completeness.

Should you have any questions, please call the Commission on Water Resource Management staff at 587-0251.

Sincerely,

RAE M. LOUI
Deputy Director

Ci:ss

c: Akinaka & Associates, Ltd.
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
919 Ala Moana Blvd., 3rd Floor  
Honolulu, Hawaii 96814  

Attn: Mr. William Wong  

Dear Mr. Arizumi:  

Pump Installation Permit Application  

Please review the following permit application pursuant to your area of concern and submit your comments to us by MAY 15, 1995.  

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.  

Sincerely,  

RAE M. LOUI  
Deputy Director  

Response:  

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Contact Person: ___________________________ Phone: ______________   
Signed: ___________________________ Date: ______________
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
919 Ala Moana Blvd., 3rd Floor  
Honolulu, Hawaii 96814  

Attn: Mr. Dennis Tulang  

Dear Mr. Arizumi:  

Pump Installation Permit Application  

Please review the following permit application pursuant to your area of concern and submit your comments to us by MAY 15 1995.  

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.  

Sincerely,  

RAE M. LOUI  
Deputy Director  

Response:  

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Contact Person: ______________________ Phone: ______________________  
Signed: ______________________ Date: ______________________
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
223 South King Street, Suite 400  
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by **MAY 15, 1995**.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

Response:

- [ ] We have no objections
- [ ] Not subject to our regulatory authority and permit
- [ ] Comments attached
- [ ] Additional information requested
- [ ] Extended review period requested

Contact Person: _______________________________ Phone: ________________

Signed: _______________________________ Date: ________________
TO:            Mr. Kali Watson, Director  
               Department of Hawaiian Home Lands  
               Mr. Clayton H.W. Hee, Chairman and Trustee At Large  
               Office of Hawaiian Affairs  
FROM:       Michael D. Wilson, Chairperson  
            Commission on Water Resource Management  
SUBJECT: Pump Installation Permit Application  

Please review the following permit application pursuant to your area of concern and submit your comments to us by May 15, 1995.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Enc.

Response:

- We have no objections
- Not subject to our regulatory authority and permit
- Comments attached
- Additional information requested
- Extended review period requested

Contact Person: ________________________________ Phone: __________________

Signed: _____________________________ Date: ________________
TO: Dr. Don Hibbard, Director  
   Historic Preservation Program  
   Mr. William Devick  
   Division of Aquatic Resources
FROM: Rae M. Loui, Deputy Director  
   Commission on Water Resource Management
SUBJECT: Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by MAY 15, 1995.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Response:

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
Mr. Milton Pavao, Manager  
Department of Water Supply  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Mr. Pavao:

**Pump Installation Permit Application**

Please review the following permit application pursuant to your area of concern and submit your comments to us by **MAY 15, 1995**.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

---

Response:

- [ ] We have no objections
- [ ] Not subject to our regulatory authority and permit
- [ ] Comments attached
- [ ] Additional information requested
- [ ] Extended review period requested

Contact Person: ____________________________  Phone: ______________

Signed: ____________________________  Date: ______________
Ms. Donna Fay K. Kiyosaki  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720

Dear Ms. Kiyosaki:

Pump Installation Permit Application

Please review the following permit application pursuant to your area of concern and submit your comments to us by \textit{MAY 15 1995}.

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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

Response:

() We have no objections  
() Not subject to our regulatory authority and permit  
() Comments attached  
() Additional information requested  
() Extended review period requested

Contact Person: ______________________ Phone: _______________

Signed: ______________________ Date: _______________

CI:ss
Enc.
Mr. Carl A. Carlson, Jr.
Parker Ranch
P.O. Box 458
Kamuela, Hawaii 96743

Dear Mr. Carlson:

Parker Ranch Well No. 1
(Well No. 6239-02)

Thank you for transmitting two copies of the well completion report for this well. In reviewing the document, we find that we had incorrectly located it on our map. The correct location requires that we assign it a different State well number.

Please note for your records that the new number is 6239-02. We use the USGS longitude-latitude numbering grid, and the correct location falls just across a grid line from the location we originally assigned. The previous number, 6139-01, has been deleted. We apologize for any confusion this may cause. It does not affect your permit in any way.

When you file an application for a pump installation permit, please use the new number.

Sincerely,

RAE M. LOUI
Deputy Director
PARKER RANCH WELL #1
USGS MAP - WELL LOCATION
EXISTING GRAVEL ROAD
AND PROPOSED ACCESS

WELL LOCATION

PLAN SHOWING
EXCHANGE PARCELS "A" AND "B"
BEING PORTIONS OF GRANT 4241
AND HOMESTEAD ROAD
(PUUKAPU HOMESTEADS, 1ST. SERIES)
at Puukapu, Waimea, South Kohala
Island of Hawaii, Hawaii
TAX MAP KEY: 3RD. DIV. 6-4-01:30 (Par)

PARKER RANCH WELL #1
PROPOSED ACCESS AND LOCATION MAP
WELL SITE WAS GRADED FOR CONSTRUCTION AFTER THIS TOPO WAS CREATED.

ENLARGEMENT LOCATION MAP

PARKER RANCH WELL #1
WELL LOCATION ON TOPO MAP
February 17, 1995

Mr. Michael Wilson, Chairman
Commission on Water Resource Management
Department of Land & Natural Resources
Division of Water Resources Management
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

ATTENTION: Ms. Rae M. Loui
Deputy Director

PROJECT: PARKER RANCH WELL NO. 1, WELL PUMP STATION & TRANSMISSION

SUBJECT: Application For Pump Installation Permit
Parker Ranch Well No. 1
State Well No. 6139-01 0239-02
Kamuela, S. Kohala, Hawaii
TMK: 3rd Division, 6-5-01: 1

Dear Mr. Wilson:

We herewith submit the original and two copies of the above subject permit application for your review and approval.

A check for $25.00 is attached for the required filing fee.

The application was prepared by Akinaka & Associates, Ltd. for Parker Ranch.
If there are any question, please call the undersigned.

Very truly yours,

[Signature]

Robert Y. Akinaka
President

c.c. Mr. Carl Carlson, Jr. - Trustee, PR
STY\RYA:cyk
DLNR026L.WPF

ATTACHMENTS:

1) Application For Permit - Pump Installation
2) Well Section
3) Well Completion Report by Waimea Water Services
PAY
TO THE
ORDER OF
DEPARTMENT OF LAND AND NATURAL RESOURCES

DATE              AMOUNT

February 17, 1995  $25.00**

For: Parker Ranch/Well

Note: Give to Kathy for deposit 4/28/95.
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: Parker Ranch
   Contact Person: Carl A. Carlson, Jr.
   Address: P.O. Box 458
   Kamuela, S. Kohala, Hawaii 96743
   (b) LANDOWNER
   Firm/Name: Parker Ranch
   Contact Person: Carl A. Carlson, Jr.
   Address: P.O. Box 458
   Kamuela, S. Kohala, HI 96743
   (c) CONTRACTOR
   Firm/Name: ________________
   Ph.: ________________
   Contractor’s C-57 License No. ________________
   Address: ________________

2. WELL LOCATION/NAME: Parker Ranch Well No. 1
   Island: Hawaii
   Address: Kamuela, S. Kohala, Hawaii
   Tax Map Key: 6-5-01:1
   (Attach a USGS map, scale 1"=2000', and a property tax map showing well location referenced to established property boundaries)

3. (a) PROPOSED WORK: □ Drill New Well □ * Alter Location
   □ Modify Existing Well □ Redrill
   □ Install New Pump □ Replace Pump □ Modify Pump
   * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   □ Dug □ Bore □ 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:
   □ Deep Well Turbine □ Centrifugal
   □ Submersible □ Impulse
   □ Rotary □ Propeller
   □ Rotary-Displacement □ Reciprocating
   □ Motor: □ Diesel □ Gas
   Rated Pump Capacity: __________ gallons per minute
   Electric, rated horsepower of __________ HP

5. PROPOSED USE:
   ❏ Municipal (including hotels, stores, etc.)
   ❏ Military
   ❏ Domestic (individual, noncommercial water sys.)
   ❏ Industrial
   ❏ Irrigation (crop) □ Other (explain)
   State Land Use District: □ Urban □ Agriculture □ Rural □ Conservation
   County Zoning (describe) □ A-1-□
   (If more space is needed, continue below under remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   720,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   ❏ Flow-meter □ Open-pipe □ Orifice Plate □ Weir

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

8. REMARKS, EXPLANATIONS:
   Water System to be dedicated to County of Hawaii Dept. of
   Water Supply upon completion. (See attached Well Completion Report)

(Note: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approved date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days of completion of the dated work permit. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that upon completion of the proposed permit shall not constitute a determination of corrective water rights and shall not guarantee the pump capacity or future use to the permitted pump capacity.)

Well Owner: ____________________________
Signature: ____________________________
Date: __________

Landowner: ____________________________
Signature: ____________________________
Date: __________

Contractor: ____________________________
Signature: ____________________________
Date: __________

For Official Use Only:
Data Received ____________________________
Data Accepted ____________________________
Field Checked By ____________________________
Date ____________________________
Latitude ____________________________
Longitude ____________________________
Aquifer System Name ____________________________
State Well No. ____________________________

6/24/92 WO
APPLICATION FOR PERMIT

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      Firm/Name: Parker Ranch
      Contact Person: Carl A. Carlson, Jr.
      Address: P.O. Box 458
      Kamuela, S. Kohala, Hawaii 96743
   (b) LANDOWNER
      Firm/Name: Parker Ranch
      Contact Person: Carl A. Carlson, Jr.
      Address: P.O. Box 458
      Kamuela, S. Kohala, Hawaii 96743
   (c) CONTRACTOR
      Firm/Name: Contractor
      Ph: ___________
      Contractor's C-87 License No. ___________
      Address ____________________________

2. WELL LOCATION/NAME: Parker Ranch Well No. 1
   Island: Hawaii
   Address: Kamuela, S. Kohala, Hawaii
   Tax Map Key: 6-5-01:1
   (Attach a USGS map, scale 1" = 2000', and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   - Drill New Well
   - Modify Existing Well
   - Drilled
   - Deepen
   - * Abandon/Seal
   - Install New Pump
   - Replace Pump
   - Modify 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: 500 gallons per minute
   - Motor:
     - Electric, rated horsepower of 350 HP
   - Pump Type:
     - Deep Well Turbine
     - Centrifugal
     - Rotary-Displacement
     - Reciprocating
   - Submersible
   - Pump Capacity: ________ gallons per minute
   - Motor:
     - Electric, rated horsepower of 350 HP

5. PROPOSED USE:
   - Municipal (including hotels, stores, etc.)
   - Domestic (individual, noncommercial water use)
   - Irrigation (crop)
   - State Land Use District:
     - Urban
     - Agriculture
     - Rural
     - Conservation
   - County Zoning (describe): ___________
   - Other (explain): ___________

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 720,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
     - Flow-meter
     - Open-pipe
     - Calibrated Plate
     - Wear

7. PENDING ACTIONS:
   - CDUA
   - SMA
   - EIS
   - EA
   - X/\ NONE
   - Other (explain)

8. REMARKS, EXPLANATIONS:
   - Water System to be dedicated to County of Hawaii Dept. of Water Supply upon completion. (See attached Well Completion Report)

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit 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.

Well Owner: Parker Ranch
Landowner: Parker Ranch
Contractor: 

Signature: ________________  Date: 2/17/95
Signature: ________________  Date: 2/17/95
Signature: ________________  Date: ________________

For Official Use Only:
Date Received
Date Accepted
Field Checked By
Longitude
Latitude
Aquifer System Name
State Well No.

6/24/92 WCP
9. PROPOSED WELL SECTION

**Elevation at top of casing**
---

**Ground Elevation:** __________ ft., mal

**Cement Grout:** __________ ft.

**Solid Casing:**
- Material
- Length __________ ft.
- Diameter __________ in.
- Wall thickness __________ in.

**Rock Packing:** __________ ft.

**Hole Diameter:** __________ in.

**Total Depth** __________ ft.

**Casing:**
- Perforated
- Screen

**Material**
- Length __________ ft.
- Diameter __________ in.
- Wall thickness __________ in.
- Openings __________ sq. in./L.F.

**Open Hole:**
- Length __________ ft.
- Diameter __________ in.

---

*Approximate elevation at time of filing application. Ground elevation above mean sea level (mal) 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.*
WELL HEAD

EXISTING 14" I.D. CASING
0.375" THICK

WATER LEVEL
EL. = (+) 1264.08'

END EXIST. SOLID CASING
BEGIN PERFORATED CASING

BOTTOM OF AIR LINE (1)
EL. = (+) 1231.0'

BOTTOM OF AIR LINE (2)
EL. = (+) 1201.0'

BOTTOM OF PUMP & MOTOR
EL. = (+) 1152.5'

BOTTOM OF WELL &
END PERFORATED CASING
EL. = (+) 1142.5'

WELL PUMP SECTION
PARKER RANCH WELL NO. 1
(State Well No. 8489-01)

WELL PUMP SECTION
PARKER RANCH WELL NO. 1 (STATE WELL NO. 6139-01) ATTACHMENT B
February 17, 1995

Mr. Michael Wilson, Chairman
Commission on Water Resource Management
Department of Land & Natural Resources
Division of Water Resources Management
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

ATTENTION: Ms. Rae M. Loui
Deputy Director

PROJECT: PARKER RANCH WELL NO. 1, WELL PUMP STATION & TRANSMISSION

SUBJECT: Application For Pump Installation Permit
Parker Ranch Well No. 1
State Well No. 613-01 O23A-02
Kamuela, S. Kohala, Hawaii
TMK: 3rd Division, 6-5-01: 1

Dear Mr. Wilson:

We herewith submit the original and two copies of the above subject permit application for your review and approval.

A check for $25.00 is attached for the required filing fee.

The application was prepared by Akinaka & Associates, Ltd. for Parker Ranch.
If there are any question, please call the undersigned.

Very truly yours,

[Signature]

Robert Y. Akinaka
President

c.c. Mr. Carl Carlson, Jr. - Trustee, PR
STY\RYA:cyk
DLNR026L.WPF

ATTACHMENTS:

1) Application For Permit - Pump Installation
2) Well Section
3) Well Completion Report by Waimea Water Services
APPLICATION FOR PERMIT

☐ Well Construction or ☐ Pump Installation

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      Firm/Name: Parker Ranch
      Contact Person: Carl A. Carlson, Jr.
      Address: P.O. Box 458
      Kamuela, S. Kohala, Hawaii 96743
   (b) LANDOWNER
      Firm/Name: Parker Ranch
      Contact Person: Carl A. Carlson, Jr.
      Address: P.O. Box 458
      Kamuela, S. Kohala, Hawaii 96743
   (c) CONTRACTOR
      Firm/Name: Parker Ranch
      Contact Person: Parker Ranch
      Address: Parker Ranch

2. WELL LOCATION/NAME: Parker Ranch Well No. 1
   Island: Hawaii
   Address: Kamuela, S. Kohala, Hawaii
   Tax Map Key: 6-5-01:1

3. (a) PROPOSED WORK:
   ☐ Drill New Well
   ☐ Modify Existing Well
   ☐ Install New Pump
   ☐ Replace Pump
   ☐ Other (explain)

4. PROPOSED PUMP INFORMATION:
   Pump Type:
   ☐ Deep Well Turbine
   ☐ Submersible
   ☐ Centrifugal
   ☐ Rotary
   ☐ Rotary-Displacement
   ☐ Rotary-Gear
   ☐ Propeller
   ☐ Reciprocating
   ☐ Impulse
   Motor:
   ☐ Diesel
   ☐ Gas
   ☐ Electric, rated horsepower of

5. PROPOSED USE:
   ☐ Municipal (including hotels, stores, etc.)
   ☐ Domestic (individual, noncommercial water sys.)
   ☐ Irrigation (crop)
   ☐ State Land Use District: ☐ Urban ☐ Agriculture ☐ Rural ☐ Conservation
   County Zoning (describe) ☐ A - C

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   720,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
       ☐ Flow-meter
       ☐ Open-pipe
       ☐ Office Plate
       ☐ Well

7. PENDING ACTIONS:
   ☐ COUA ☐ SMA ☐ EIS ☐ EA ☐ NONE ☐ Other (explain)

8. REMARKS, EXPLANATIONS:
   Water System to be dedicated to County of Hawaii Dept. of Water Supply upon completion. (See attached Well Completion Report)

---

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days of the completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that upon completion of the proposed work shall constitute a determination of corrective water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Parker Ranch
Landowner: Parker Ranch
Contractor: Parker Ranch

Signature: [Signature]
Date: 2-17-95

For Official Use Only:
Date Received ____________________________
Date Accepted ____________________________
Field Checked By ____________________________
Date ____________________________
9. PROPOSED WELL SECTION

Elevation at top of casing
____ ft., msl.

Ground Elevation: ______ ft., msl*

Cement Grout: ______ ft.

Solid Casing:
Material
Length ______ ft.
Diameter ______ in.
Wall thickness ______ in.

Rock Packing ______ ft.

Casing: □ Perforated □ Screen
Material
Length ______ ft.
Diameter ______ in.
Wall thickness ______ in.
Openings ______ sq. in./L.F.

Hole Diameter: ______ in.

Total Depth ______ ft.

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.
WELL PUMP SECTION
PARKER RANCH WELL NO. 1
(STATE WELL NO. 613801)
February 17, 1995

Mr. Michael Wilson, Chairman
Commission on Water Resource Management
Department of Land & Natural Resources
Division of Water Resources Management
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

ATTENTION: Ms. Rae M. Loui
Deputy Director

PROJECT: PARKER RANCH WELL NO. 1, WELL PUMP STATION & TRANSMISSION

SUBJECT: Application For Pump Installation Permit
Parker Ranch Well No. 1
State Well No. 6169-01 E229-02
Kamuela, S. Kohala, Hawaii
TMK: 3rd Division, 6-5-01: 1

Dear Mr. Wilson:

We herewith submit the original and two copies of the above subject permit application for your review and approval.

A check for $25.00 is attached for the required filing fee.

The application was prepared by Akinaka & Associates, Ltd. for Parker Ranch.
If there are any question, please call the undersigned.

Very truly yours,

Robert Y. Akinaka
President

c.c. Mr. Carl Carlson, Jr. - Trustee, PR
STY\RYA:cyk
DLNR026L.WPF

ATTACHMENTS:

1) Application For Permit - Pump Installation
2) Well Section
3) Well Completion Report by Waimea Water Services
APPLICATION FOR PERMIT
☐ Well Construction or ☐ Pump Installation

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      Firm/Name: Parker Ranch
      Contact Person: Carl A. Larson, Jr.
      Address: P.O. Box 458
              Kamuela, S. Kohala, Hawaii 96743
   (b) LANDOWNER
      Firm/Name: Parker Ranch
      Contact Person: Carl A. Larson, Jr.
      Address: P.O. Box 458
              Kamuela, S. Kohala, Hawaii 96743
   (c) CONTRACTOR
      Firm/Name: Contractor
      Ph.: 
      Address: 
      Contractor's C-57 License No. 

2. WELL LOCATION/NAME: Parker Ranch Well No. 1
   Island: Hawaii
   Tax Map Key: 6-5-01:1
   (Attach a USGS map, scale 1" = 2000', and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
      [ ] Drill New Well
      [ ] * Alter Location
      [ ] Modify Existing Well
      [ ] Redrill
      [ ] Install New Pump
      [ ] Replace Pump
      [ ] Modify Pump
      [ ] Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
      [ ] Dug
      [ ] Bored
      [ ] Driven
      [X] Drilled
      [ ] Radial
      Is this well 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: 500 gallons per minute
   Pump Type:
      [ ] Deep Well Turbine
      [ ] Rotary
      [ ] Submersible
      [ ] Centrifugal
      [ ] Rotary-Displacement
      [ ] Reciprocating
      [ ] Propeller
      [ ] Impulse
      [ ] Radial
      Motor:
      [ ] Diesel
      [ ] Gas
      [ ] Electric, rated horsepower of: 350 HP

5. PROPOSED USE:
   [X] Municipal (including hotels, stores, etc.)
   [ ] Military
   [ ] Domestic (individual, non-commercial water syst.)
   [ ] Industrial
   [ ] Irrigation (crop)
   [ ] Other (explain)
   State Land Use District:
      Urban  Agriculture  Rural  Conservation
   County Zoning (describe) A - I.D.
   (If more space is needed, continue below remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: 720,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
      [ ] Flow-meter
      [ ] Open-pipe
      [ ] Office Plate
      [ ] Weir

7. PENDING ACTIONS:
   [ ] CDUA  [ ] SMA  [ ] EIS  [ ] EA  [X] NONE  [ ] Other(explain)

8. REMARKS, EXPLANATIONS: Water System to be dedicated to County of Hawaii Dept. of Water Supply upon completion. (See attached Well Completion Report)
   (If more space is needed, continue on back)

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be commenced within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that the proposed permit shall constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Parker Ranch
Landowner: Parker Ranch
Contractor: 

Signature: Carl A. Larson, Jr.
Date: 2-17-95
Signature: Carl A. Larson, Jr.
Date: 2-17-95
Signature:
Date:

For Official Use Only:
Date Received ____________________________
Date Accepted ____________________________
Field Checked By __________________________
Date __________________________

Latadude __________________________

Aquifer System Name __________________________
State Well No. 5/24/92 MCP
9. PROPOSED WELL SECTION

- Elevation at top of casing: _____ ft., msl.
- Ground Elevation: _____ ft., msl
- Solid Casing:
  - Material
  - Length: _____ ft.
  - Diameter: _____ in.
  - Wall thickness: _____ in.
- Rock Packing: _____ ft.
- Hole Diameter: _____ in.
- Total Depth: _____ ft.
- 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.
WELL HEAD

6" I.D. PIPE COLUMN

EXISTING 14" I.D. CASING
0.375" THICK

WATER LEVEL
EL. = (+) 1264.08'

END EXIST. SOLID CASING
BEGIN PERFORATED CASING

SHROUD

BOTTOM OF AIR LINE (1)
EL. = (+) 1231.0'

BOTTOM OF AIR LINE (2)
EL. = (+) 1201.0'

BOTTOM OF PUMP & MOTOR
EL. = (+) 1152.5'

BOTTOM OF WELL &
END PERFORATED CASING
EL. = (+) 1142.5'

WELL PUMP SECTION
PARKER RANCH WELL NO. 1
(STATE WELL NO. 6139-61)
WELL COMPLETION REPORT

INSTRUCTIONS: Please print or type and submit completed report within 10 days of well completion to the Division of Water & Land Development, P.O. Box 313, Honolulu, HI 96809. An as-built drawing of the well and pump installation, if available, should also be submitted. If necessary, phone 548-1243. Hydrology, Geology, and Land Development for assistance.

1. STATE WELL NO. 6239-02
2. WELL NAME PARKER RANCH WELL NO. 1.
3. ISLAND HAWAII
4. LOCATION WAIKEA, SOUTH KOHALA, HAWAII
5. TAX MAP KEY 6-4-01:50
6. WELL OWNER TRUSTEES OF THE RICHARD SMART REVOCABLE PERSONAL TRUST
7. DRILLING OR PUMP INSTALLATION CONTRACTOR KERC WATER SOURCE DEVELOPMENT I.V.
8. TYPE OF RIG GARDNER DENVER ROTARY
9. DRILLER TOM HELFRIECH
10. DATE OF WELL COMPLETION 7/8/94
11. DATE OF PUMP INSTALLATION N/A
12. GROUND ELEVATION (ma) 2821.5 ft.
13. Top of Drilling Platform (ma) 2827.5 ft.
14. Height of drilling platform above ground surface 6 ft.
15. Bench mark and method used to determine ground elevation
16. TOTAL DEPTH OF WELL BELOW GROUND 1679 ft.
17. HOLE SIZE: 20 inch dia. from 0 ft. to 1679 ft. below ground
18. CASING INSTALLED:
19. 14 in. I.D. x .375 in. wall solid section to 1576 ft. below ground
20. 14 in. I.D. x .312 in. wall perforated section to 1679 ft. below ground
21. Type of perforation 4 x 14 with 120 perforations per linear foot
22. ANNULUS:
23. Grouted from 1576 ft. below ground to 1679 ft. below ground
24. PERMANENT PUMP INSTALLATION:
25. Pump type, make, serial No. n/a
26. Motor type, H.P., voltage, r.p.m.
27. Depth of pump intake setting ft. below which elevation is ft.
28. Depth of bottom of siltline ft. below which elevation is ft.
29. PROPOSED USE potable
30. INITIAL WATER LEVEL 1560.5 ft. below ground
31. INITIAL CHLORIDE ppm
32. Date and time of measurement 8/30/93 8:30am
33. Date and time of sampling 6/14/94 10 am
34. PUMPING TESTS: Reference point (R.P.) used: BM which elevation is 2821.5 ft.
35. Date 6/4/94
36. Start water level 1560.5 ft. below R.P.
37. End water level 1563 ft. below R.P.
38. Depth of well 1679 ft. below R.P.
39. Elapsed Time (hours) Rate Draw- Cl- Temp.
40. 0 to 14 74 4.9
41. 14 to 14 74 4.9
42. SEE ATTACHED DATA
43. DRILLER’S LOG:
44. Depth ft. Rock Description & Remarks Water Level ft.
45. 0 to 143 clay /hard
46. 143 to 303 alluvial/hard/soft
47. 303 to 900 pahoehoe/hard/soft
48. 901 to 1678 cinders/pahoehoe 1560.5
49. 0 to 10 to
50. 10 to 10 to
51. 10 to 10 to
52. REMARKS:
53. submitted by (print) ROBERT RICHARDSON
54. Title ASST. DRILLING MANAGER
55. Signature [Signature] Date JULY 12, 1994
**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 313, Honolulu, HI 96809. An as-built drawing of the well and chemical analysis, if available, should also be submitted. If necessary, phone 548-1543. Hydrolology. Geology Section for assistance.

**A. STATE WELL NO.** 6139-01  
**WELL NAME** PARKER RANCH WELL#1  
**ISLAND** HAWAII

**B. LOCATION** WAIHEA, SOUTH KOHALA, HAWAII  
**TAX MAP KEY** 6-4-01:50

**C. WELL OWNER** TRUSTEES OF THE RICHARD SMART REVOCABLE PERSONAL TRUST

**D. DRILLING OR PUMP INSTALLATION CONTRACTOR** KKRC WATER SOURCE DEVELOPMENT J.V.

**E. TYPE OF RIG** GARDNER DENVER ROTARY  
**DRILLER** DRILLER TOM HELFRICH

**F. DATE OF WELL COMPLETION** 7/8/96  
**DATE OF PUMP INSTALLATION** N/A

**G. GROUND ELEVATION (msl)** 2821.5 ft.  
Top of Drilling Platform (msl) 2827.5 ft.  
Height of drilling platform above ground surface 6 ft.

**H. TOTAL DEPTH OF WELL BELOW GROUND** 1679 ft.

**I. HOLE SIZE:**  
- 20 inch dia. from 0 ft. to 1679 ft. below ground  
- 20 inch dia. from 0 ft. to 1679 ft. below ground  
- 20 inch dia. from 0 ft. to 1679 ft. below ground

**J. CASING INSTALLED:**  
14 ft. I.D. x 375 in. well solid section to 1576 ft. below ground  
14 in. I.D. x 312 in. wall perforated section to 1679 ft. below ground

**K. ANNULUS:**  
- Grouted from 0 ft. to 1532 ft. below ground  
- Gravel packed from 1576 ft. below ground to 1679 ft. below ground

**L. PERMANENT PUMP INSTALLATION:**  
- **Capacity:** 15 gpm  
- **Motor type, R.P.M.:** 3400  
- **Depth of pump intake setting:** 7 ft. below  
- **Depth of bottom of airline:** 7 ft. below

**M. PROPOSED USE:**  
- **POTABLE**

**N. INITIAL WATER LEVEL** 1560 ft. below ground.

**O. INITIAL CHLORIDE** 7 ppm.

**P. PUMPING TESTS:**  
- **Reference point (R.P.) used:** BM which elevation is 2821.5 ft.

<table>
<thead>
<tr>
<th>Date of Test</th>
<th>Start Water Level</th>
<th>End Water Level</th>
<th>Depth of Well</th>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Drawdown (ft.)</th>
<th>Chloride (ppm)</th>
<th>Temperature (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/4/94</td>
<td>1560 ft. below R.P.</td>
<td>1563 ft. below R.P.</td>
<td>1679 ft. below R.P.</td>
<td>to 7</td>
<td>14</td>
<td>874</td>
<td>9.2</td>
<td></td>
</tr>
</tbody>
</table>

**Q. DRILLER’S LOG:**

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 143</td>
<td>clay/hard</td>
<td>to</td>
</tr>
<tr>
<td>143 to 303</td>
<td>aluvial/hard/soft</td>
<td>to</td>
</tr>
<tr>
<td>303 to 900</td>
<td>pahoehoe/hard/soft</td>
<td>to</td>
</tr>
<tr>
<td>901 to 1678</td>
<td>cinders/pahoehoe</td>
<td>1560.5</td>
</tr>
</tbody>
</table>

**Remarks:**

Submitted by (Print) ROBERT RICHARDSON  
**Title** ASST. DRILLING MANAGER  
**Signature**  
**Date** JULY 12, 1994
July 27, 1994

STATE OF HAWAII
DEPARTMENT OF LAND & NATURAL RESOURCE
P.O. BOX 373
HONOLULU, HAWAII 96809

RE: PARKER RANCH WELL

Dear Sir:

We have enclosed our well completion report, As built drawing of the well and the drawdown/recovery chart.

If you need further information, please contact our office.

Thank you.

Theresa Shelby
Project Secretary

c.c. Waimea Water Services
parkerranch5
WELL SECTION

PARKER RANCH
WELL #1

AS-BUILT
NOT TO SCALE

U.W.S.
JUNE 1994

TOP OF GAP 2817.06' ELEV.
TOP OF CASING 2827.06' ELEV.

EXISTING GROUND LEVEL 2824.5' ELEV.
(EROSION DIRT LEVEL)

14" ID, 8.375 THICK SOLID WELL CASING

CONCRETE FILL OF ANNULAR SPACE

Cement 18'
Fortnite 2 1/4'
Sand 2'
Aggregate 4'

WATER LEVEL 1563.78 (7/8/94)
FROM TOP OF GAP,
ELEVATION = 1264.88'

PERFORATED WELL SCREEN 14" ID.

182' FILL-TLOG
SCREEN

Gravel Pack of Annular Space

Casing Shoe

1142.5' ELEVATION

I.D. 14"
I.D. 10"

JUL-26-1994 15:27 FROM AIMEA WATER SERVICES TO P.02

1532' 1576'
Well 6239-02
Parker Ranch, Well 1
G-Built

Well Section

- Top of casings: 2871.56' ELE.
- Top of gravel: 2871.56' ELE.

Existing ground level: 2024.5' ELE.

- 27' min. dia.
- 3' min. annular space
- 14' ID; 0.375 thick solid well casing

Concrete fill of annular space

Cement 18'
Concrete 24'-
Sand 2'
Aggregate 4'

Water level: 1563.76 (7/28/94)
From top of cap: Elevation = 1324.68'

Perforated well screen: 16' ID
Gravel pack of annular space

Shore = 1'
Casings: 1679'

1142.5' Elevation
Parker Ranch Well #1 - Drawdown/Recovery Pump Test - 6/04 to 6/27/94
REGULATION BRANCH
Commission on Water Resource Management

FROM: Ed
DATE: 4/15/93
FILE IN: 

TO: INIT: PLEASE: REMARKS:

- E. SAKODA
  K. Oshiro
  See Me
  Call
  Review & Comment
  Take Action
  Investigate & Report
  Draft Reply
  Acknowledge Receipt
  Type Draft
  Type Final
  Xerox ___ copies

R. LOUI
S. Kokubun
G. MATSUMOTO
Y. SHIROMA

Glenn - do you have any info on USGS Waimea Obs. Well which I can use in the analysis portion of the submitted? Eq - results of pumping test, etc? Water level 3/16

600 124' 3' Ave
WELL CONSTRUCTION PERMIT

for

Parker Ranch Well 1
Well No. 6139-01
Kamuela, Hawaii

TO: Richard Smart Trust
Parker Ranch
P.O. Box 458
Kamuela, HI 96743

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 Parker Ranch Well 1 (Well No. 6139-01), for municipal use, is approved subject to the following conditions:

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The permit shall be for construction and testing of the well only. The applicant shall coordinate with the Commission and conduct a pumping test in accordance with the protocol established by the Commission. A means to accurately measure water levels, acceptable to the Commission, shall also be provided. No permanent pump may be installed and no water withdrawn from the well without first obtaining a pump installation permit from the Commission.

3. 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 a well shall not constitute a determination of correlative water rights.

4. The following shall be submitted to the Commission within 30 days after completion of the work:
   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. The permit application and staff submittal approved by the Commission at its meeting on April 28, 1993 shall be incorporated herein by reference.

7. The applicant shall notify the State Historic Preservation Division, Hawaii Island office, when excavations for the drill pads are being conducted so that they may be able to check for presence/absence of archaeological remains.

8. The well shall be turned over to the Hawaii Department of Water Supply upon completion.

9. 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 proposed in the permit application shall be completed within two years from the date of permit issuance.

KEITH W. AHUE, Chairperson
Commission on Water Resource Management

MAY 11 1993
Date of Issuance

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.

Applicant's Signature: MELVIN B. HEWETT Date: 5/13/93

Printed Name: MELVIN B. HEWETT

Firm or Title: TRUSTEE - RICHARD SMART TRUST

Please sign and return one copy of this permit to the Commission and retain a copy for your record.

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Hawaii Department of Water Supply
WELL COMPLETION REPORT

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resources Management, P.O. Box 621, Honolulu, Hawaii 96803. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-6225.

1. STATE WELL NO. __________________ WELL NAME __________________________ ISLAND __________________
2. LOCATION: Address __________________________ Tax Map Key __________________
3. DRILLING OR PUMP INSTALLATION CONTRACTOR __________________________
4. CONTRACTOR'S C-57 LICENSE NUMBER __________________________
5. NAME OF DRILLER WHO PERFORMED WORK __________________________
6. TYPE OF RIG/CONSTRUCTION __________________________
7. DATE OF WELL DRILLING COMPLETION __________________________
   (NOTE: Report must be submitted within 30 days after this date)

8. GROUND ELEVATION (msl) __________________ ft.
   Top of Drilling Platform (msl) __________________ ft.
   Height of Drilling Platform above Ground surface __________________ ft.
   Bench Mark and Method Used to Determine Ground Elevation __________________ ft.

9. DRILLER'S LOG: __________________________

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks, Dates</th>
<th>Water Level</th>
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10. TOTAL DEPTH OF WELL BELOW GROUND __________________ ft.
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    __________________ inch dia. from ________ ft. to ________ ft. below ground
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    __________________ in. I.D. x ________ in. wall perforated section to ________ ft. below ground
    Type of Perforation __________________________

13. ANNULUS: __________________ Grounted from ________ ft. ground to ________ ft. ground
    Gravel packed from ________ ft. ground to ________ ft. ground

14. INITIAL WATER LEVEL __________________ ft. below ground. Date and time of measurement __________________
15. INITIAL CHLORIDE __________________ ppm Date and time of sampling __________________
16. INITIAL TEMPERATURE __________________ °F Date and time of sampling __________________
17. DATE OF PUMP INSTALLATION __________________
18. PUMP INSTALLATION: __________________
    Pump Type, Make, Serial No. __________________________ Capacity __________________ gpm
    Motor type, H.P., Voltage, rpm __________________________
    Depth of Pump Intake Setting ________ ft. below ________ ft. above ground, which elevation is ________ ft.
    Depth of bottom of airline ________ ft. below ________ ft. above ground, which elevation is ________ ft.
    Pumping Head is ________ ft.

19. PUMPING TESTS: __________________
    Reference Point (R.P.) used: ________ ft. below R.P., which elevation is ________ ft.
    Date __________________________
    Start water level ________ ft. below R.P. Start water level ________ ft. below R.P.
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    Depth of well ________ ft. below R.P. Depth of well ________ ft. below R.P.

<table>
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<tr>
<th>Elapsed Time (hours)</th>
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Remarks: __________________________

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Contractor (print) __________________________ Title __________________________
Signature __________________________ Date __________________________

For Diller's Use: ___________ 
Job Name ___________
Job No. ___________

For Official Use: ___________
Well No. ___________
Longitude ___________
Latitude ___________
**DRILLER'S LOG (cont'd):**

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2. LOCATION: Address ___________________ Tax Map Key ___________________

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Remarks (cont'd):
MEMORANDUM

TO: Rae M. Loui, Deputy for Water Resource Management
Commission on Water Resource Management

FROM: Don Hibbard, Administrator
State Historic Preservation Division

SUBJECT: Well Construction Permit Application--Parker Ranch Well, Richard Smart Trust, Kamuela (Well No. 6139-01)
Puukapu, South Kohala, Island of Hawaii
TMK: 6-4-01: por. 050 and 051

HISTORIC PRESERVATION PROGRAM CONCERNS:

The well site was inspected on March 22, 1993, by our Hawaii Island archaeologist, Kanalei Shun, accompanied by Mr. Steve Bowles of Waimea Water Resources, the contractors for the well construction.

The well location is presently in pasture land with grass cover. An intermittent stream that feeds into Waikoloa Stream flows less than 100 feet to the east of the proposed well location. The general topography of the terrain in the vicinity is gently rolling hills at the base of the cinder cones, Puu Ki and Puu Kakanihia, with relatively flat alluvial areas along the stream banks.

Historic sites that would be expected in this type of environment would be taro fields irrigated by the stream. However, based on the present general surface topography in the well location area and assuming that the adjoining dry stream bed has always been flowing intermittently, it would seem very unlikely that remnants of such fields would occur; however, our office would like to verify that such is the case, for our records. It is our understanding from talking with Mr. Bowles that the well construction will require preparing a pad measuring roughly 20 feet by 60 feet for the drill. This will require excavating the pad area to about 2 feet below present ground surface. Hence, we can agree that the subject application will have "no adverse effect" on historic sites on the condition that our office is notified when excavations for the drill pad are being conducted so
that we may be able to check for presence/absence of archaeological remains. Please contact our Hawaii Island office staff members, Kanalei Shun at 587-0007 or Marc Smith at 933-4346, to notify them of when excavations are to begin so they can make arrangements to be also present at the well location.

KS:amk
March 8, 1993

MS RAE M LOUI  DEPUTY DIRECTOR
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P O BOX 621
HONOLULU HI  96809

SUBJECT:  WELL CONSTRUCTION PERMIT APPLICATIONS

We have reviewed the subject permit applications and have no objections
to the following proposed well constructions.

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
<th>TMK</th>
</tr>
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<tbody>
<tr>
<td>Parker Ranch Well 1</td>
<td>6199-01</td>
<td>6199-01 Well Construction</td>
<td>6-4-01: 50</td>
</tr>
</tbody>
</table>

ROBERT K. YANABU, Division Chief
Engineering Division

EY:byf
March 15, 1993

Ms. Rae M. Loui, Deputy Director  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P. O. Box 621  
Honolulu, HI  96809

WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT APPLICATION  
APPLICANT - LOCATION ISLAND OF HAWAII  
WELL NAME - PARKER RANCH WELL 1  
WELL NO. 6139-01 6139-02  
TAX MAP KEY 6-4-1:51 OR 50

Please be informed that the subject well will be turned over to the Department of Water Supply, County of Hawaii, when completed.

Therefore we have no objections to the subject application.

William Sewake  
Manager  

WA

...Water brings progress...
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

Transmitted for your review and comment are copies of the following permit applications:

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
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<td>Well Modification</td>
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<td>Hawaii</td>
<td>Parker Ranch Well 1</td>
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Please review the applications pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.

Should you have any questions, please contact Rae M. Loui, Deputy Director at 587-0214.

Very truly yours,

JOHN P. KEPELER II
Acting Chairperson

Enc.
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
Five Waterfront Plaza  
500 Ala Moana Blvd., Suite 250  
Honolulu, Hawaii 96813

Attn: Mr. William Wong

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Transmitted for your review and comment are copies of the following permit applications:

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Please review the applications pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

JZ:ky  
Enc.
MEMORANDUM

TO: Don Hibbard, Director
   Historic Preservation Program

FROM: Rae M. Loui, Deputy Director
      Commission on Water Resource Management

SUBJECT: Well Construction and Pump Installation Permit Applications

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Please review the applications pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this memo.

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Enc.
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
212 Merchant Street, Room 202  
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Applications

Transmitted for your information are copies of recent well permit applications:

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Should you have questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director

JZ:ky  
Enc.
Mr. Clayton H. W. Hee  
Chairman & Trustee At Large  
Office of Hawaiian Affairs  
711 Kapiolani Blvd., Suite 500  
Honolulu, Hawaii 96813-5249  
Attn: Ms. Linda Delaney, Land & Natural Resources Division  

Dear Mr. Hee:  

Well Construction and Pump Installation Permit Applications  

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Should you have any questions, please contact Rae M. Loui, Deputy Director at 587-0214.  

Very truly yours,  

JOHN P. KEPPLER II  
Acting Chairperson  

Enc.
Mr. Mel Hewett
Richard Smart Trust
Parker Ranch
P.O. Box 458
Kamuela, Hawaii 96743

Dear Mr. Hewett:

We have received your application and filing fee for a permit to construct a well (Well No. 6139-01) at Kamuela, Hawaii, (TMK 6-4-01:51). We are reviewing the application for completeness.

Should you have questions, please call the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

JZ:ky
Mr. William Sewake, Manager
Department of Water Supply
County of Hawaii
25 Aupuni Street
Hilo, Hawaii 96720

Dear Mr. Sewake:

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</thead>
<tbody>
<tr>
<td>Hawaii</td>
<td>Parker Ranch Well 1</td>
<td>6139-01</td>
<td>Well Construction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0239-02</td>
<td></td>
</tr>
</tbody>
</table>

Please review the application pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

JZ:ky
Enc.
Mr. Bruce C. McClure  
Chief Engineer  
Department of Public Works  
County of Hawaii  
25 Aupuni Street  
Hilo, Hawaii 96720  

Dear Mr. McClure:  

Well Construction and Pump Installation Permit Application  

Transmitted for your review and comment is a copy of the following permit application:  

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii</td>
<td>Parker Ranch Well 1</td>
<td>6199-01</td>
<td>Well Construction</td>
</tr>
<tr>
<td></td>
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<td>6239-02</td>
<td></td>
</tr>
</tbody>
</table>

Please review the application pursuant to your area of concern and submit your comments to us, orally or in writing, ten (10) working days from date of this letter.

Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

RAE M. LOUI  
Deputy Director  

JZ:ky  
Enc.
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
Division of Water Resource Management

APPLICATION FOR

[X] WELL CONSTRUCTION PERMIT
[ ] 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 548-7643, Hydrology/Geology Section for assistance.

1. WELL LOCATION
Island: Hawaii
Address: Kamuela, Hawaii 96743
(Tax Map Key: 6-4-01:51 or 50
(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER:

<table>
<thead>
<tr>
<th>Firm Name</th>
<th>Contact Person</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard Smart Trust</td>
<td>Mel Hewett</td>
<td>Parker Ranch, P.O. Box 458, Kamuela, HI 96743</td>
<td>808/885-6724</td>
</tr>
</tbody>
</table>

LAND OWNER:

<table>
<thead>
<tr>
<th>Firm Name</th>
<th>Contact Person</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard Smart Trust</td>
<td>Mel Hewett</td>
<td>Same</td>
<td>Same</td>
</tr>
</tbody>
</table>

3. PROPOSED CONTRACTOR

[X] Well Drilling

Name: To be determined
Address: N/A

[X] Pump Installation

Name: 
Address: 
Contractor's License No.: N/A

4. PROPOSED WORK

[X] Drill New Well
[ ] Alter
[ ] Install New Pump

[ ] Deepen
[ ] Seal
[ ] Replace Pump

[ ] Redrill
[ ] Abandon
[ ] Modify Pump

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

5. PROPOSED USE

[X] Municipal (including hotels, stores, etc.)
[ ] Military
[ ] Domestic (individual, noncommercial water systems)
[ ] Industrial
[ ] Irrigation (specify): Observation
[ ] Other (specify): Observation

6. PROPOSED AMOUNT OF WITHDRAWAL 720,000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type:
[X] Submersible
[ ] Vertical Turbine
[ ] Centrifugal

Motor:
[ ] Diesel
[ ] Gas
[ ] Electric

Rated Pump Capacity 500 gallons per minute (gpm)

Well Owner (print): Richard Smart Trust
Landowner (print): Richard Smart Trust

Signature: ____________________________ Signature: ____________________________
Date: 1/21/92 Date: 1/21/93

For Official Use Only:
Field Checked By ___________ Latitude ________ Hydrologic Unit _________
Date: _______________ Longitude ________ State Well _________
Briefly describe the proposed work:

The well is intended to provide potable water for the Parker Ranch 2020 project. This well will be turned over to the Department of Water, County of Hawaii.

(Plan attach here)
**APPLICATION FOR**

[X] WELL CONSTRUCTION PERMIT  
[ ] 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 548-7643, Hydrology/Geology Section for assistance.

1. **WELL LOCATION**
   - Island: Hawaii  
   - Address: Kamuela, Hawai'i 96743  
   - Tax Map Key: 6-4-01:51 or 50  
   - (Attach a USGS map (scale 1"=2000") and property tax map showing well location referenced to established property boundaries.)

2. **WELL OWNER:**  
   - Firm Name: Richard Smart Trust  
   - Contact Person: Mel Hewett  
   - Address: Parker Ranch, P.O. Box 458, Kamuela, HI 96743  
   - Phone: 808/885-6724  
   - LAND OWNER:  
   - Firm Name: Richard Smart Trust  
   - Contact Person: Mel Hewett  
   - Address: Same  
   - Phone: Same

3. **PROPOSED CONTRACTOR**  
   - Name: To be determined  
   - [X] Well Drilling  
   - [ ] Pump Installation  
   - Address: N/A  
   - Contractor’s License No.: N/A

4. **PROPOSED WORK**
   - [X] Drill New Well  
   - [ ] Deepen  
   - [ ] Alter  
   - [ ] Install New Pump  
   - [ ] Seal  
   - [ ] Replace Pump  
   - [ ] Redrill  
   - [ ] Modify Pump  
   - (Briefly describe the proposed work and fill in the diagram on the back of this form).

5. **PROPOSED USE**
   - [X] Municipal (including hotels, stores, etc.)  
   - [ ] Military  
   - [ ] Domestic (individual, noncommercial water systems)  
   - [ ] Industrial  
   - [ ] Irrigation (specify)  
   - [ ] Other (specify): Observation

6. **PROPOSED AMOUNT OF WITHDRAWAL**  
   - 720,000 gallons per day

7. **PROPOSED PUMP INFORMATION**
   - Pump Type:  
     - [X] Vertical Turbine  
     - [X] Submersible  
     - [ ] Centrifugal  
   - Motor:  
     - [ ] Diesel  
     - [ ] Gas  
     - [X] Electric  
   - Rated Pump Capacity: 500 gallons per minute (gpm)  
   - [X] Rated Horsepower: 300

Well Owner (print): Richard Smart Trust  
Landowner (print): Richard Smart Trust

Signature:  
Date: 1/21/93

For Official Use Only:

Field Checked By:  
Latitude:  
Hydrologic Unit:  
Date:  
Longitude:  
State Well:  

Briefly describe the proposed work:

A well is intended to provide potable water for the Parker Ranch 2020 project. This well will be turned over to the Department of Water, County of Hawaii.

(Plan attach here)
LOCATION MAP
PROPOSED PARKER RANCH WELL SITE #1
PAY TO THE ORDER OF DEPARTMENT OF LAND AND NATURAL RESOURCES

Twenty-Five and 00/100**************

Department of Land and Natural Resources

MEMO Well Construction Permit

$25.00

1/21/93
Get

Sawakin

said

no prob w/

Parker Ranch permit

file